elco

INDUSTRY
CATALOGUE

www.elco-burners.com

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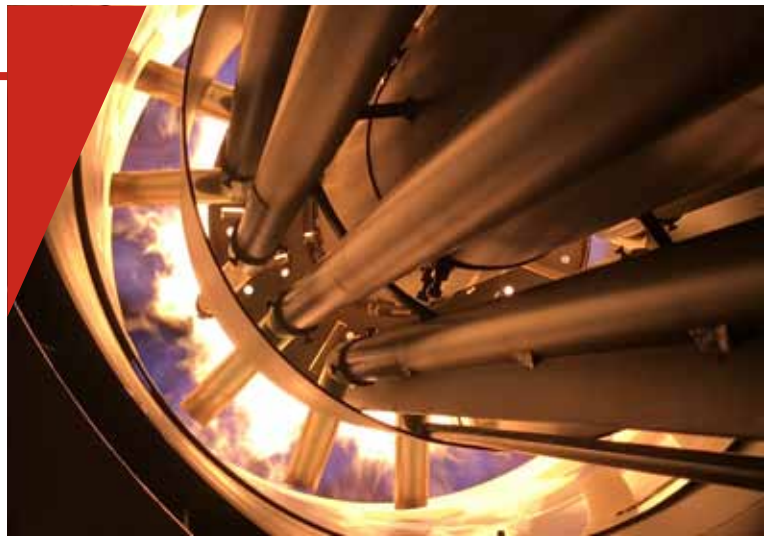
CUTTING-EDGE BURNERS FOR HEATING AND INDUSTRIAL APPLICATIONS

OUR COMPANY

Since its foundation in 1928, ELCO has always been a specialist in burners conception and manufacturing. By linking a strong innovative ability to a continued developing drive, ELCO has designed high performing and reliable burners as well as corresponding services throughout the years, and is today one of the leaders in the field of combustion technology.



OUR MISSION

ELCO always looks for the best technologies and continues to develop new ones to improve the efficiency of its solutions.
Our R&D Laboratories are committed to develop innovative technological solutions allowing to:

- optimise the running of the installations lowering costs;
- offer service friendly products easy to maintain;
- preserve the environment lowering acoustic and pollutant emissions.

OUR KNOWLEDGE

Your contacts at ELCO and its partners are recognised experts with years of experience. Our worldwide support starts from concept creation to planning, design and project management up to commissioning and ongoing operation of the plant throughout its life cycle.
As an ELCO customer, you can count on us for products that guarantee reliability, quality and high performance in any application and working condition.

OUR SERVICE NETWORK

Taking advantage of a staff composed of technicians and engineers with a long experience, ELCO is able to provide professional support to the customer in order to define together the best solution and to develop and manage the project through its entire life-cycle.
ELCO Service activities define the standards in the market and each customer can rely on high performance and reliabile products.

OUR INNOVATIVE SOUL

A right mix of experience and spirit of innovation gives ELCO the push to constantly refine its products and develop new ones to respond to market demands, in particular those related to the reduction of polluting emissions.
The growing attention to issues related to the environment has led to the development of advanced combustion technologies that use alternative fuels, as happens for example with hydrogen burners, a product of the future that ELCO is already able to offer today.

OUR ROLE IN THE ENERGY TRANSITION

THE IMPORTANCE OF HYDROGEN IN THE DECARBONIZATION OF THE INDUSTRY

In recent years, decarbonization has become a fundamental issue in our lives, not only for improving the environment but also as a new way of understanding industrial relations and improving our production processes. After many years of intense debate, many countries are now committed to changing the global economy in a climate-friendly way.

In this context, hydrogen shall be deployed as a major future energy source, which is why various development projects are dealing with hydrogen production, transport and storage as well as feeding it into existing gas networks.
Hydrogen is thought to be able to provide up to 24% of total energy needs by 2050. This means that in the next few years we will have to deal with the transformation of a large number of plants that consume traditional fuels to make them suitable to work with hydrogen or with mixtures of gases, with hydrogen as the main fuel.

Hydrogen is the most occurring element in the universe and one of the most common elements on earth, where it is bounded in hydrocarbon compounds, in alkaline solutions or in water. However, elemental hydrogen H_2 can be found only in traces in the earth's atmosphere and must be obtained through several processes.

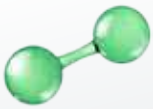
TYPES OF HYDROGEN

GREY HYDROGEN

/ Product of the steam reforming of natural gas (where CO_2 emissions are produced); currently, this represents about 90% of the hydrogen generated for industrial purposes

BLUE HYDROGEN

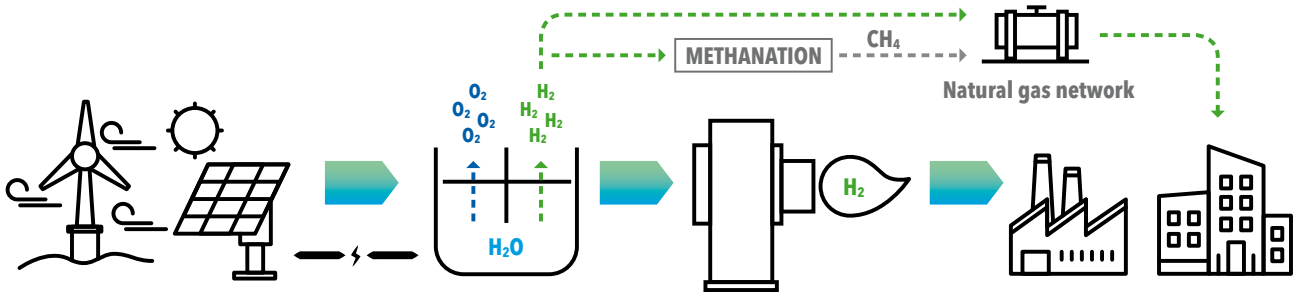
/ Produced from natural gas, with subsequent storage or disposal of the CO_2 underground/under the seabed (CCS technology)



GREEN HYDROGEN

/ Obtained by (comparatively expensive) electrolysis/power-to-gas processes based on renewable energies

The expected decrease in the cost of electrolysers and the technological developments in renewable energy technologies will soon create the conditions for large-scale green hydrogen production plants. Consequently, the production of green hydrogen could become easier and more convenient, and in the future become a way to manage, store and reuse energy produced from renewable sources:



/ Renewable energies
Excess renewable energy, due to periods of low demand, creates challenges for network stability

/ Electrolysis
Excess electricity generated at low prices is funnel-led into electrolysers that split water into hydrogen and oxygen

/ Hydrogen combustion
Hydrogen can be injected into the main gas networks and blended with natural gas as a form of energy storage or can be used directly for industrial processes

Compared with natural gas, hydrogen has several peculiar characteristics:
- it is colorless, odorless and tasteless;
- it is around 8 times lighter and can volatilize very quickly through porous materials or through the smallest leaks;
- the calorific value is lower by a factor of 3/3,5 than most commercially available natural gases;
- it has an extremely wide flammability range and the flame (almost invisible) burns about 8 times faster than natural gas;
- it needs 15 times less spark energy for ignition than natural gas and ignition speed is about 7 times higher.

The theoretical replacement of natural gas with hydrogen within a system causes enormous changes in the air demand, flame temperature, combustion quality, power output and, due to the different density, also regarding gas pressure losses.
For all these reasons, integrate hydrogen into the energy mix requires a huge experience and specific know-how.

OUR EXPERIENCE WITH HYDROGEN

HYDROGEN BURNERS

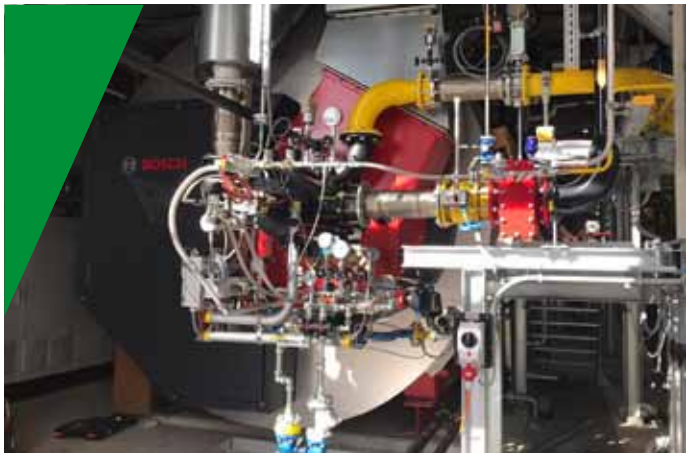
Green combustion technologies ready for the future

H_2 Ready

H_2 Ready since the 90s

ELCO has been manufacturing Low NOx combustion systems for several decades and can count on a strong expertise also with hydrogen applications, developed by our R&D Department since the 90s. Thanks to the know-how developed on the field, ELCO is one of the few suppliers in the world that can already offer safe, reliable and performing Low NOx hydrogen burners, guaranteeing excellent results in terms of emission level, flame stability and energy efficiency.

INSTALLATION REFERENCES WITH HYDROGEN BURNERS



Location: Switzerland

Fuels: hydrogen, natural gas, light oil
H_2 pressure: 500 mbar

Maximum power output: 13,6 MW

Burner: RPD 70 GGL-EU1-So
Hot air version (130°C), IP65, FGR System

Location: Jordan

Fuel: hydrogen, natural gas, heavy oil

Maximum power output: 6,2 MW

Burner: RPD 30 GS-ED-So
Hot air version (270°C), IP54

Burner	Fuels	Country	Date
RPD 30	H_2 / Natural gas	China	1995
RPD 30	H_2 / Heavy oil	China	1996
RPD 60	H_2 / Natural gas	China	1996
RPD 60	H_2 / Heavy oil	China	2002
RPD 20	H_2 / Light oil	Saudi Arabia	2003
RPD 60	H_2 / Heavy oil	China	2004
RPD 30	H_2 / Heavy oil	India	2005
RPD 60	H_2 / Heavy oil	China	2005
RPD 60	H_2 / Natural gas	Taiwan	2006
RPD 70	H_2 / Heavy oil	China	2006
RPD 40	H_2 / Heavy oil	India	2007
RPD 60	H_2 / Natural gas	India	2008
RPD 40	H_2 / Heavy oil	India	2008
EK-DUO 2.550	H_2	Belgium	2008
RPD 40	H_2 / Heavy oil	India	2010
RPD 30	H_2 / Heavy oil	India	2010
RPD 30	H_2 / Heavy oil	Syria	2010
RPD 50	H_2	China	2010
RPD 30	H_2 / Natural gas	India	2010
RPD 40	H_2 / Natural gas	India	2011
RPD 30	H_2 / Heavy oil	India	2011
RPD 30	H_2 / Natural gas	Belgium	2012
RPD 50	H_2 / Natural gas	China	2012
RPD 40	H_2 / Natural gas	India	2012
RPD 50	H_2 / Natural gas	China	2013
RPD 60	H_2 / Natural gas / Carbide gas	China	2013
RPD 80	H_2 / Light oil	Qatar	2013
RPD 30	H_2 / LPG	India	2014
RPD 30	H_2 / Heavy oil	Indonesia	2014
RPD 30	H_2 / LPG	India	2015
RPD 70	H_2 / Coke gas / Carbide gas	China	2015
RPD 40	H_2 / Natural gas	Kuwait	2016
RPD 30	H_2 / Heavy oil	Jordan	2017
RPD 50	H_2 / Heavy oil	India	2017
RPD 50	H_2 / Heavy oil	India	2017
RPD 40	H_2 / Heavy oil	India	2018
RPD 70	H_2 / Natural gas / Light oil	Switzerland	2019
RPD 70	H_2 / Natural gas / Light oil	Taiwan	2019
RPD 70	H_2 / Natural gas	Taiwan	2019
RPD 40	H_2 / Natural gas / Heavy oil	Saudi Arabia	2019
RPD 50	H_2 / Natural gas	India	2019

TECHNICAL ASSISTANCE

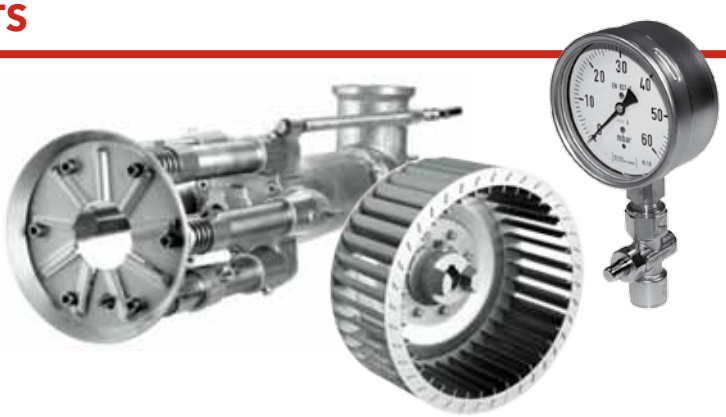
For safe and efficient operation of your burner system it is very important that the burner is commissioned by a competent person. The combustion will be optimally adjusted over the whole power range of the burner, and all the safety devices will be tested.
To keep your installation in good conditions, it is important to maintain the burner periodically. It is also very important to inspect all the safety devices to ensure that your system operates safely.
Fortunately, you can rely on the professional services of ELCO which can perform this service for you.

BURNER ACADEMY

In order to respond to the needs of our customers we created a Burner Academy, a real training school where the knowledge of our technicians is passed on to our trainees.
We provide the opportunity for boiler room personnel, operators and engineers to attend a series of training sessions carried out on our test bench by highly qualified instructors, who hold the courses in English, German, French, Italian and Dutch language.
The Burner Academy uses various training locations where boilers are installed and where people can be trained in theory and in practice. We offer courses at different levels and also the possibility to handle all your needs in a customer-specific training.

RELIABLE SUPPLY OF SPARE PARTS

Spare parts have always had a great importance inside the ELCO world. Considering the high amount of parts involved in every single product, some of these parts might naturally need to be replaced. ELCO can count on an International network offering original spare parts in order to guarantee the highest quality, reliability and safe continued operation of the appliance.

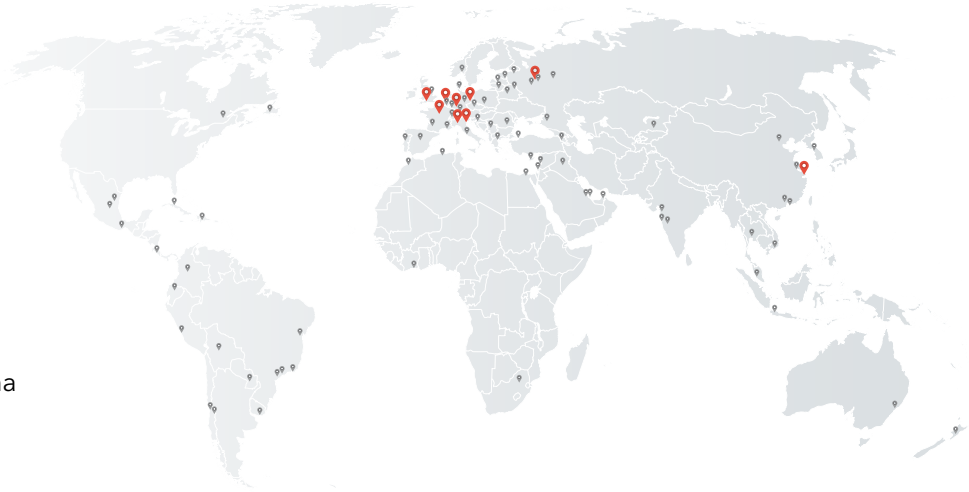


WORLDWIDE NETWORK

Capitalising on more than 90 years of work experience, ELCO has been capable to build up loyal partnerships and today can count on reliable Partners all over the World.
Combining an instinctively global perspective with a genuinely multicultural approach ELCO today offers you skilled and experienced experts available in more than 70 Countries.

In Europe

3 production plants
6 commercial branches
Strong commercial presence through a network of reliable dealers and partners



Worldwide

2 Sales Offices in Russia and China
Distribution in over 70 Countries

Service Network

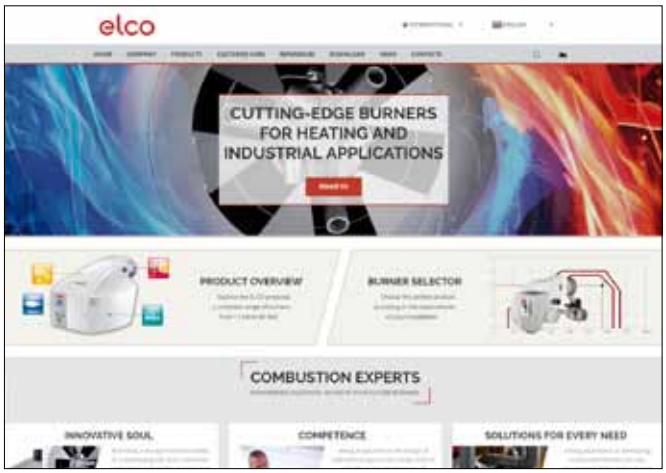
In Western Europe, ELCO has a well organised service network. Outside Western Europe ELCO uses a network of partners, consisting of well-trained local engineers, to carry out its service operations.
These technicians are able to perform both commissioning and local service and they do it in a very professional and efficient way.

ELCO ON THE WEB

We are constantly looking forward to provide to our customers new technologies, products and services.
Stay always up to date on the latest news from the ELCO World visiting our website:

www.elco-burners.com

Navigate to explore the ELCO proposal and choose the perfect product to fit your needs, and follow us to know more about our new activities and projects.



OUR PRODUCT RANGE

Our experience at combustion technology available in a complete range of burners from 11 kW to 80 MW:

Monoblock range:

VECTRON
11 – 2300 kW
- Gas
- Light oil
- Dual fuel

PROTRON
15 – 550 kW
- Gas
- Light oil

NEXTRON
250 – 11200 kW
- Gas
- Light oil
- Dual fuel

EK EVO
250 – 13500 kW
- Gas
- Light oil
- Dual fuel

N
1300 – 22000 kW
- Gas
- Light oil
- Dual fuel

HO-TRON
68 – 17000 kW
- Heavy oil

GHO-TRON
414 – 17000 kW
- Heavy oil
- Dual fuel

Duoblock range:

D-TRON
230 – 34000 kW
- Gas
- Light oil
- Gas / light oil
- Heavy oil
- Gas / heavy oil

EK-DUO
600 – 16000 kW
- Gas
- Light oil
- Dual fuel

RPD
500 – 80000 kW
- Gas
- Light oil
- Gas / light oil
- Heavy oil
- Gas / heavy oil

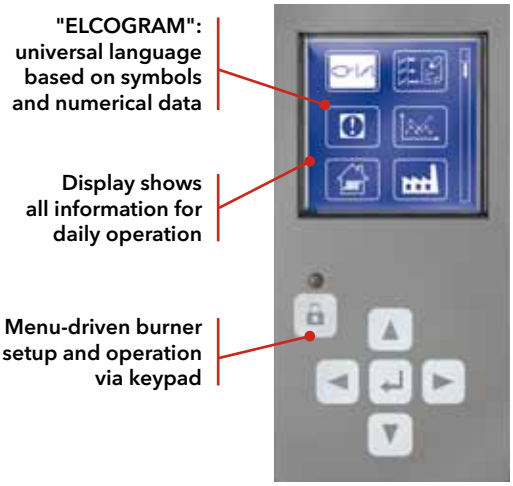
ELCO SYSTEMS AND TECHNOLOGIES

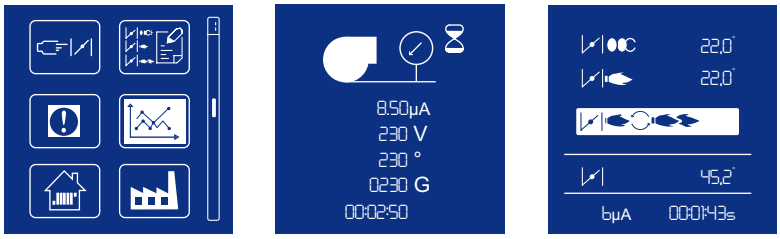
To constantly improve its products, ELCO is committed to develop innovative technological solutions allowing to optimise the running of the installations, to ease technicians work, and naturally to preserve the environment.
In order to provide quick responses to its market's demands, the range of ELCO burners is entirely conceived around a consistent combination of Systems.

MDE2 SYSTEM

Permanent communication of information easy to use

Equipped with the MDE2 System, the universal language Elcogram and the 5-button keyboard, ELCO burners adjust themselves and constantly communicate to the technicians and operators:
- real time information about each ignition and during the running;
- statistical information about burner operations recorded during the year before the maintenance operations.





Elcogram, a universal language

As ELCO products are distributed worldwide, the company has developed a universal language composed of pictograms and numerical data.
The pictograms use the majority of the symbols used on the wiring diagrams which are recognised and understood by all Nations.
This ensures that information is easier to read than ever before.

CMS SYSTEM

The evolution of combustion management systems

CMS is a brand new system for burner management that sets new standards in control automation. The system provides a full combustion management solution that meets all relevant safety standards, and is certified for all main markets and Standards.
CMS system is simple and easily configurable to meet a wide range of application requirements, from low cost to high end solutions, for industrial or residential applications.
The CMS grants efficient communication via BUS and is extremely flexible due to the fact that is fully configurable, fully compatible with external devices/systems and fully scalable, allowing additional functions, such as VSD fan control, oxygen trim and CO control.
A wide number of interfaces are available, from low-cost keypad to high-resolution touchscreens, allowing intuitive and easy interaction between user and machine.

ELCO SYSTEMS AND TECHNOLOGIES

GEM SYSTEM

Electronic burner control: high safety and low costs

The use of electronic technologies in burner control systems helps to reduce running costs, improve reliability of operation and lower pollutant emissions.
The electronic combustion manager used on ELCO burners are responsible not only for the burner control but also for the fuel/air regulation. Data stored electronically has replaced the mechanical characteristic curve and help to achieve an unprecedented level of precision in air/fuel ratio regulation across the burner's entire control range, a pre-requisite for efficient, energy- and cost-saving operation.
An additional advantage of the GEM is that it provides specific information on all the commands and current situation of the overall system: these can be accessed directly or by remote control.
The digital programming is user-friendly, it is carried out through the display of the MDE2 System or through a PC by using a simple procedure facilitated by easy instructions in a clear language.

VARIATRON

Speed regulation: noise reduction and energy saving

To improve the performance of heating or industrial systems, ELCO applies Variatron (fan speed control).
Conventionally, the air in modulating burners is regulated by an air flap. In the partial load range, a large amount of the air pressure generated by the ventilator goes to waste. With speed regulation, the speed of the combustion/air fan is varied continuously depending on the burner output required: full speed is reached only at maximum burner output. In the predominant partial load range, lower speed translates into significant reductions in power consumption and noise emissions.
The Variatron operates in step with the air damper both with the GEM System, which guarantees a combustion with minimum air excess by continuously monitoring all operating conditions.
Application of the Variatron to ELCO burners results in:

- electrical consumption savings in the order of 50%;
- turndown ratio of up to 1:10, resulting in perfect adaptation to system requirements and improvement in average seasonal efficiency, in particular with condensing or low-temperature boilers or specific processes;
- silent start-up and average overall noise reduction between 2 and 12 dB(A) (at minimum and maximum power).

RTC SYSTEM

Rapid and easy maintenance solutions

The functional housing design of all ELCO burners, combined with the innovative combustion head technologies, creates the RTC System (Retained Head Adjustment) and provides the user with several advantages:

- full access to all components, by simply removing the upper cover;
- complete removal of the combustion head and access to its internal components with a single operation, without removing the burner from the boiler or disconnecting the gas train;
- maintenance of the adjustments made to the combustion head, which are not changed during service operations;
- quick cleaning of mechanical components, thanks to their optimized arrangement;
- reduced servicing times through the use of standard nuts, bolts, screws and pipe fittings, which can be adjusted using only a few tools.

The combination of all these technical solutions makes it possible to simplify and speed up all the operations carried out on the burner, reducing downtime and cost of maintenance.

COMBUSTION TECHNOLOGIES

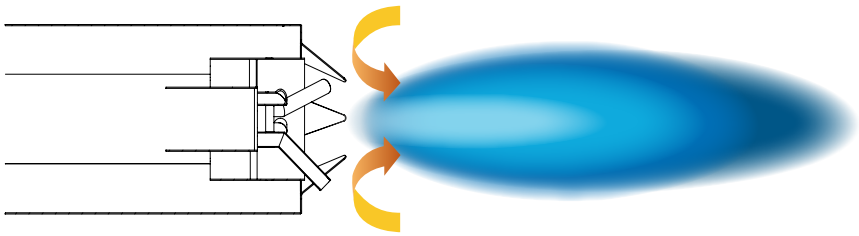
DIAMOND HEAD

Low emissions and reliable operation

The principle of Diamond Head technology is based on the internal recirculation of the combustion flue gases. The gases are partially drawn into the base of the flame via triangular openings placed at the end of the combustion head.
The position and geometry of the gas injectors are such that a significant quantity of combustion flue gas is drawn in and rapidly mixed with air and gas at the root of the flame. This mixture crosses the main reaction area, slowing the combustion, which resultes in lowering the main flame temperature. The result of this staging combustion is a significant reduction in the formation of thermal nitrogen oxides.
The advantage of this internal recirculation technique is an automatic adjustment to the quantity of recycled combustion flue gases: the volume of the flame is always as low as possible, which has a very minor effect on the nominal power of the generator, unlike external recirculation systems.

FREE FLAME

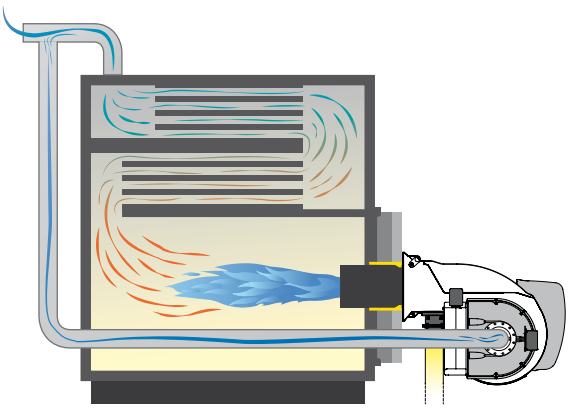
The pinnacle of low-polluting burner engineering



The Free Flame combustion technology is based on the internal recirculation of the flue gas, combined with high speed flow of the fuel air mixture. The flame stabilizes at a certain distance from the combustion head, thus leaving space for the mixture of reagents and flue gas.
This phenomenon greatly reduces NOx emissions. The flame seems to float in the furnace, thus giving the system its name: «Free Flame».

FGR SYSTEM

Ultra low NOx solutions to reach emissions of less than 30 mg/kWh



Thanks to its experience and the technologies it has developed over the years, ELCO offers a wide range of products which use the external FGR technology to reduce NOx emissions and satisfy even the most stringent regulations.
The principle of external flue gas recirculation consists in sending a mixture of comburent air and flue gas to the combustion head, thus reducing the NOx emissions. The gases are mixed upline of the combustion process by the burner fan (for monoblock units) or by an external fan (in case of duoblock burners). This technology enables ELCO to guarantee emissions of less than 30 mg/kWh, a value which is hard to obtain with conventional combustion systems.

WORLDWIDE REFERENCES

Altchemnitz, Germany

Fuel:
Natural gas

Total nominal output:
132 MW

Burners:
6x N11.22000 G-EU1

Beijing, China

Fuel:
Natural gas

NOx emissions:
Installation with FGR system to reach NOx levels below 30 mg/kWh

Burners:
2x N10.16000 G-EU2 FGR

Velikiye Luki, Russia

Fuel:
Natural gas and dual fuel (gas/light oil)

Total nominal output:
13 MW

Burners:
2x EK EVO 7.3600 G-E
1x EK EVO 7.4500 GL-EZ3

WORLDWIDE REFERENCES

Beijing, China

Fuel:
Natural gas

Total nominal output:
180 MW

Burners:
4x RPD 100 G-EU

Seoul, South Korea

Fuel:
Natural gas

Total nominal output:
50 MW

Burners:
7x N8.7100 G-EU3

Stavanger, Norway

Location:
District heating plant

Fuel:
Natural gas

Burners:
2x EK-DUO 4.1600 G-E

WORLDWIDE REFERENCES

Beijing, China

Fuel:
Natural gas

NOx emissions:
Installation with FGR system to reach NOx levels below 30 mg/kWh

Burners:
1x EK EVO 8.5800 G-EU3 FGR
2x EK EVO 8.7100 G-EU3 FGR

Białystok, Poland

Fuel:
Natural gas

Total nominal output:
41 MW

Burners:
2x RPD 70 G-EU2

Seoul, South Korea

Fuel:
Natural gas and dual fuel

Total nominal output:
80 MW

Burners:
3x N10.16000.45 G-EU2 FGR
1x N10.12000.37 GL-EUF

WORLDWIDE REFERENCES

Monza, Italy

Fuel:
Natural gas

NOx emissions:
Installation with FGR system to reach Ultra NOx emission levels

Burners:
1x N11.19000 G-EU2

Sergiyev Posad, Russia

Fuel:
Natural gas

Burners:
2x N6.2900 G-R
2x N7.3600 G-R

Beijing, China

Fuel:
Natural gas

Total nominal output:
15 MW

Burners:
2x EK EVO 7.4500 G-EF3 FGR
1x EK EVO 8.5800 G-EU3 FGR

EK EVO and NEXTRON range

Burner body

OPERATION TYPE
E = 2 stage progressive/modulating electronic
Z3 = 3 stages (in light oil)

COMBUSTION TYPE
- = Low NOx Class 2
F3, UF = Low NOx, Free Flame technology
U2, U2N, U3 = Low NOx, Diamond Head technology

EK EVO 6 . 2400 G-EF3 /BT3 /KL /PED

RANGE
EK EVO 6, 7, 8, 9
N6, N7, N8, N9

SIZE
Approximate power (kW)

FUEL
G = Natural gas
GL = Dual fuel
L = Light oil

ELECTRICAL EQUIPMENT
/BT3 = BT300

LENGTH
KN = short
KM = medium
KL = long

ADDITIONAL EQUIPMENT
/PED = PED equipped
/FGR = FGR equipped

Combustion head

OPERATION TYPE
E = 2 stage progressive/modulating electronic
Z3 = 3 stages (in light oil)

COMBUSTION TYPE
- = Low NOx Class 2
F3, UF = Low NOx, Free Flame technology
U2, U3 = Low NOx, Diamond Head technology

G11EF31 - KN

FUEL
G = Gas
GL = Dual fuel
L = Light oil

PLATFORM
11 EK EVO 6/N6
12 EK EVO 7/N7
13 EK EVO 8/N8
14 EK EVO 9/N9

SERIES
1 = N°1
2 = N°2
3 = N°3
... = N°...

LENGTH
KN = short
KM = medium
KL = long

Gas train

OPERATION TYPE
4 = 2 stage progressive electronic

SERIES
51 = N°1
52 = N°2
... = N°...
99 = N°...

d452 - 1"1/2 - Rp 1"1/2

VALVE MANUFACTURER
d = Dungs
s = Siemens

VALVE NOMINAL DIAMETER
1"1/2 ... **2"** or **DN50** ... **DN125**

GAS TRAIN CONNECTION DIAMETER
1"1/2 ... **2"** or **DN50** ... **DN125**

N range

SIZE
Approximate power (kW)

FUEL
G = Natural gas
GL = Dual fuel
L = Light oil

COMBUSTION TYPE
- = Low NOx Class 2
UF = Low NOx, Free Flame technology
U2 = Low NOx, Diamond Head technology

N10 . 14000 G-EU2 /ETO /KN /FGR

RANGE
N10/N11

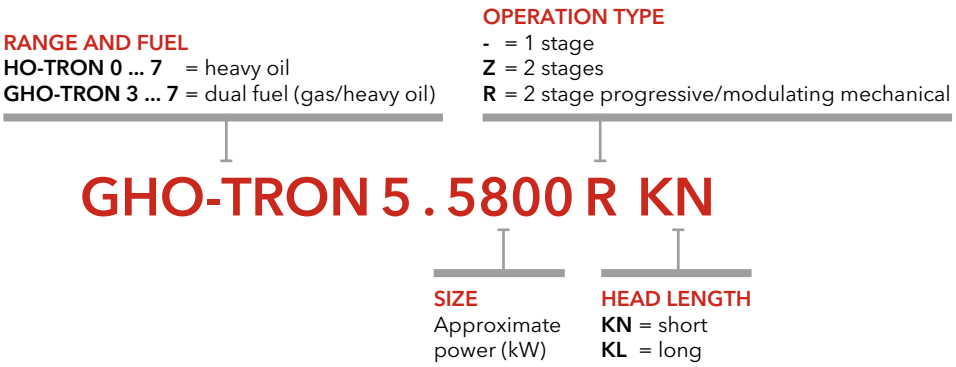
OPERATION TYPE
E = 2 stage progressive/ modulating electronic

ELECTRICAL EQUIPMENT
/ETO = Etamatic OEM

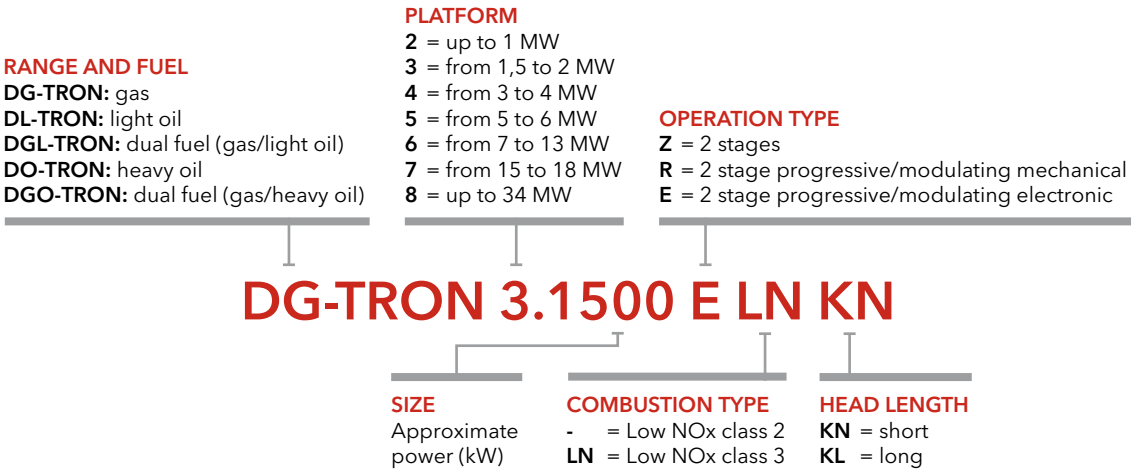
LENGTH
KN = short
KM = medium
KL = long

ADDITIONAL EQUIPMENT
/PED = PED equipped
/FGR = FGR equipped

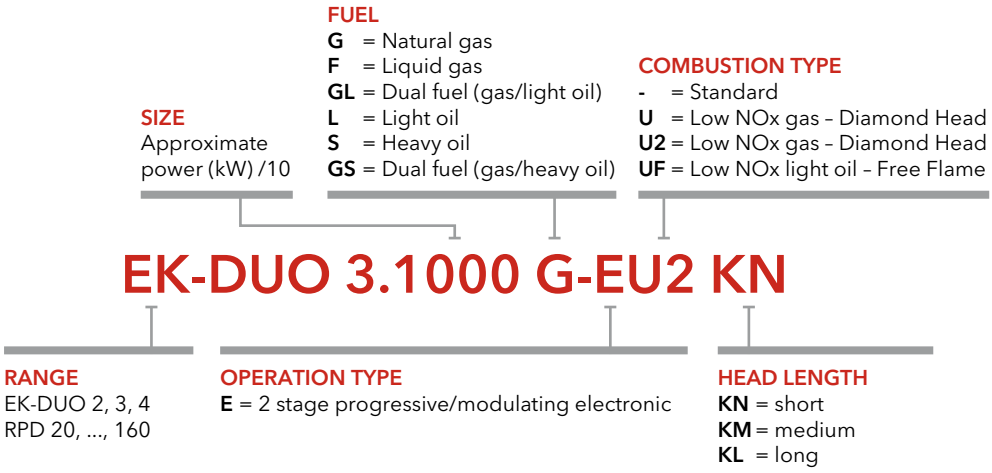
HO-TRON and GHO-TRON range



D...-TRON range



EK-DUO and RPD range



TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC / Low NOx (F3/U3 burner head)

EK EVO 6.2400 G-EF3	340 ... 2500 kW	**p. 32**
EK EVO 6.2900 G-EF3	340 ... 2900 kW	**p. 32**
EK EVO 7.3600 G-EF3	470 ... 3980 kW	**p. 36**
EK EVO 7.4500 G-EF3	510 ... 4290 kW	**p. 36**
EK EVO 7.5800 G-EF3	620 ... 5500 kW	**p. 36**
EK EVO 7.7000 G-EU3	610 ... 7450 kW	**p. 40**
EK EVO 8.5800 G-EU3	600 ... 6070 kW	**p. 44**
EK EVO 8.7100 G-EU3	700 ... 7700 kW	**p. 44**
EK EVO 9.8700 G-EU3	850 ... 8530 kW	**p. 44**
EK EVO 9.10400 G-EU3	910 ... 10500 kW	**p. 44**
EK EVO 9.13000 G-EU3	1350 ... 13500 kW	**p. 48**

TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC / Low NOx (U2/U2N burner head)

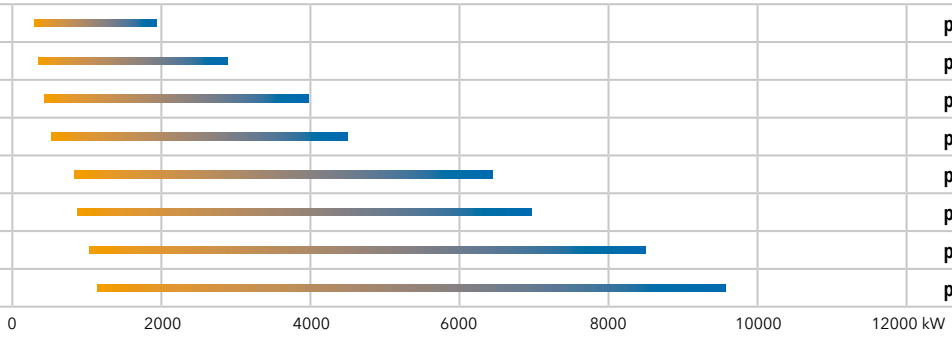
EK EVO 6.2200 G-EU2N	360 ... 2380 kW	**p. 52**
EK EVO 6.2400 G-EU2	360 ... 2530 kW	**p. 56**
EK EVO 6.2900 G-EU2	365 ... 3050 kW	**p. 56**
EK EVO 7.3400 G-EU2N	530 ... 3720 kW	**p. 52**
EK EVO 7.3600 G-EU2	490 ... 4290 kW	**p. 60**
EK EVO 7.4500 G-EU2	510 ... 4290 kW	**p. 60**
EK EVO 7.5800 G-EU2	630 ... 5850 kW	**p. 60**
EK EVO 9.7200 G-EU2N	1070 ... 8020 kW	**p. 64**
EK EVO 9.7500 G-EU2N	1050 ... 8300 kW	**p. 64**
EK EVO 9.13000 G-EU2	1700 ... 13000 kW	**p. 68**

TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC

EK EVO 6.2400 G-E	390 ... 2650 kW	**p. 72**
EK EVO 6.2900 G-E	400 ... 3200 kW	**p. 72**
EK EVO 7.3600 G-E	580 ... 4300 kW	**p. 72**
EK EVO 7.4500 G-E	680 ... 5400 kW	**p. 72**
EK EVO 8.5800 G-E	620 ... 6570 kW	**p. 76**
EK EVO 8.7100 G-E	610 ... 8150 kW	**p. 76**
EK EVO 9.8700 G-E	780 ... 9700 kW	**p. 76**
EK EVO 9.10400 G-E	850 ... 11230 kW	**p. 76**

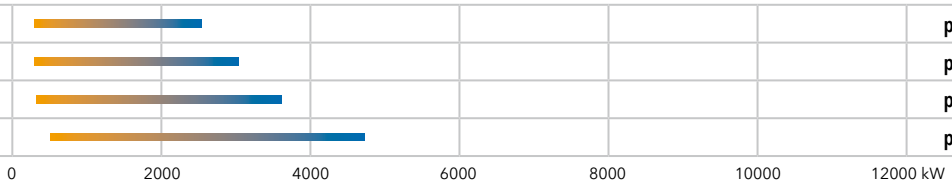
TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC IN GAS AND IN LIGHT OIL / Low NOx

EK EVO 6.2400 GL-EF3	280 ... 1920 kW	**p. 80**
EK EVO 6.2900 GL-EF3	340 ... 2890 kW	**p. 80**
EK EVO 7.3600 GL-EF3	470 ... 3980 kW	**p. 80**
EK EVO 7.4500 GL-EF3	510 ... 4500 kW	**p. 80**
EK EVO 8.5700 GL-EF3	830 ... 6450 kW	**p. 84**
EK EVO 9.6500 GL-EF3	860 ... 6950 kW	**p. 84**
EK EVO 9.8700 GL-EUF	1040 ... 8500 kW	**p. 88**
EK EVO 9.10400 GL-EUF	1160 ... 9570 kW	**p. 88**



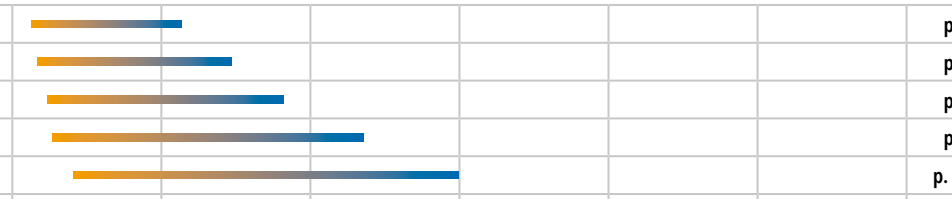
TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC IN GAS / THREE STAGES IN LIGHT OIL

EK EVO 6.2400 GL-EZ3	290 ... 2550 kW	**p. 92**
EK EVO 6.2900 GL-EZ3	290 ... 3050 kW	**p. 92**
EK EVO 7.3600 GL-EZ3	300 ... 3600 kW	**p. 92**
EK EVO 7.4500 GL-EZ3	510 ... 4740 kW	**p. 92**

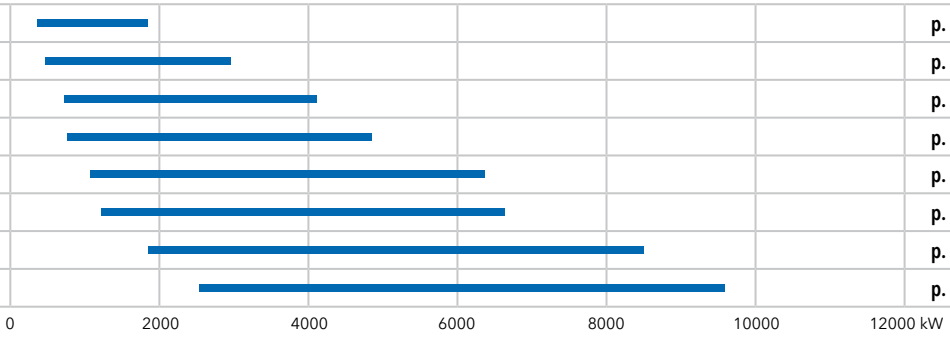


TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC IN GAS AND IN LIGHT OIL

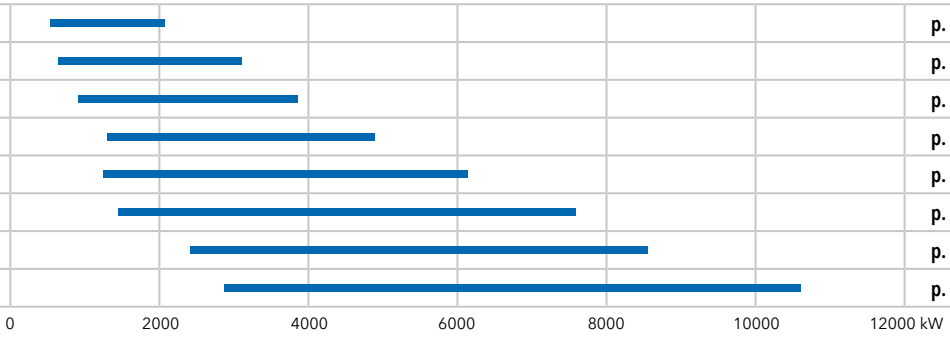
EK EVO 6.2400 GL-E	250 ... 2230 kW	**p. 96**
EK EVO 6.2900 GL-E	320 ... 2970 kW	**p. 96**
EK EVO 7.3600 GL-E	490 ... 3650 kW	**p. 96**
EK EVO 7.4500 GL-E	510 ... 4740 kW	**p. 96**
EK EVO 8.5800 GL-E	790 ... 6000 kW	**p. 100**
EK EVO 8.7100 GL-E	790 ... 7700 kW	**p. 100**
EK EVO 9.8700 GL-E	880 ... 8530 kW	**p. 100**
EK EVO 9.10400 GL-E	910 ... 10620 kW	**p. 100**



TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC / Low NOx

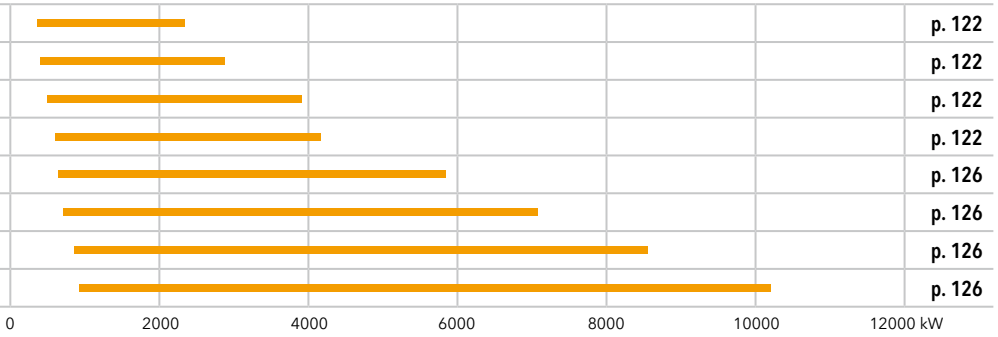


TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC



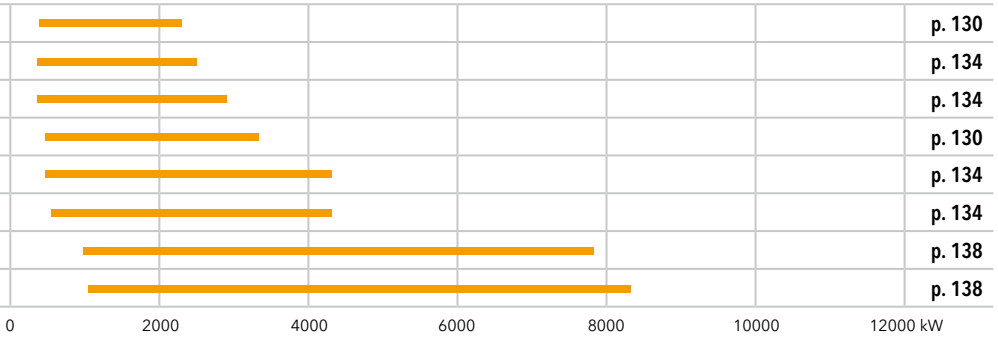
TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC / Low NOx (F3/U3 burner head)

N6.2400 G-EF3	340 ... 2300 kW	**p. 122**
N6.2900 G-EF3	360 ... 2850 kW	**p. 122**
N7.3600 G-EF3	500 ... 3900 kW	**p. 122**
N7.4500 G-EF3	600 ... 4200 kW	**p. 122**
N8.5800 G-EU3	640 ... 5800 kW	**p. 126**
N8.7100 G-EU3	700 ... 7100 kW	**p. 126**
N9.8700 G-EU3	850 ... 8530 kW	**p. 126**
N9.10400 G-EU3	900 ... 10200 kW	**p. 126**



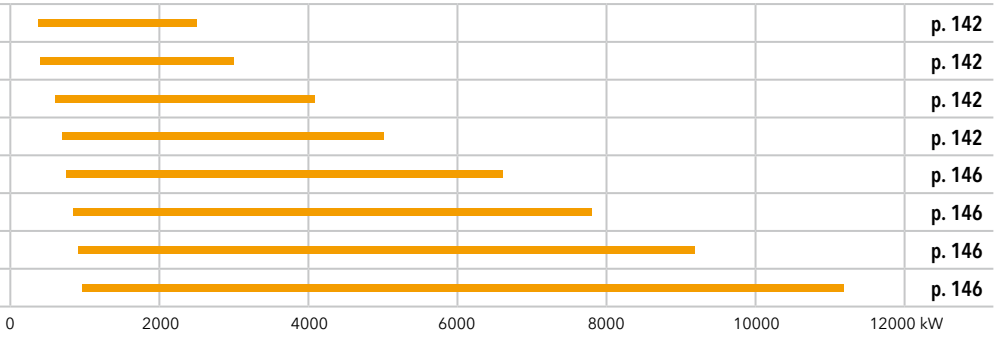
TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC / Low NOx (U2/U2N burner head)

N6.2200 G-EU2N	350 ... 2300 kW	**p. 130**
N6.2400 G-EU2	340 ... 2500 kW	**p. 134**
N6.2900 G-EU2	340 ... 2900 kW	**p. 134**
N7.3400 G-EU2N	490 ... 3700 kW	**p. 130**
N7.3600 G-EU2	490 ... 4290 kW	**p. 134**
N7.4500 G-EU2	510 ... 4290 kW	**p. 134**
N9.7200 G-EU2N	970 ... 7840 kW	**p. 138**
N9.7500 G-EU2N	1020 ... 8250 kW	**p. 138**



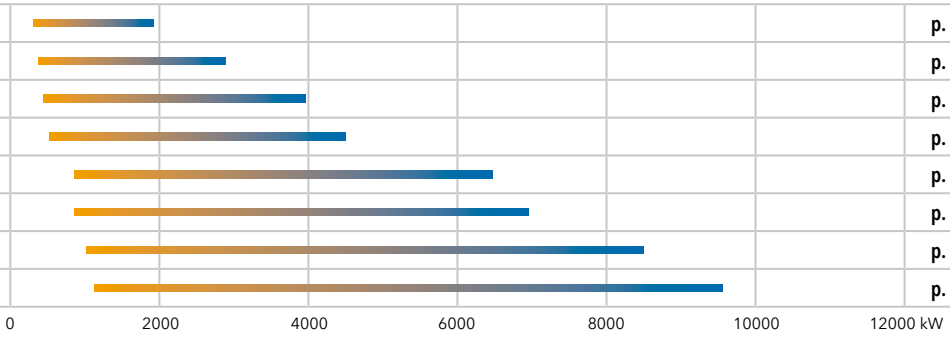
TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC

N6.2400 G-E	390 ... 2500 kW	**p. 142**
N6.2900 G-E	400 ... 3000 kW	**p. 142**
N7.3600 G-E	580 ... 4100 kW	**p. 142**
N7.4500 G-E	680 ... 5000 kW	**p. 142**
N8.5800 G-E	740 ... 6570 kW	**p. 146**
N8.7100 G-E	800 ... 7800 kW	**p. 146**
N9.8700 G-E	880 ... 9200 kW	**p. 146**
N9.10400 G-E	960 ... 11200 kW	**p. 146**



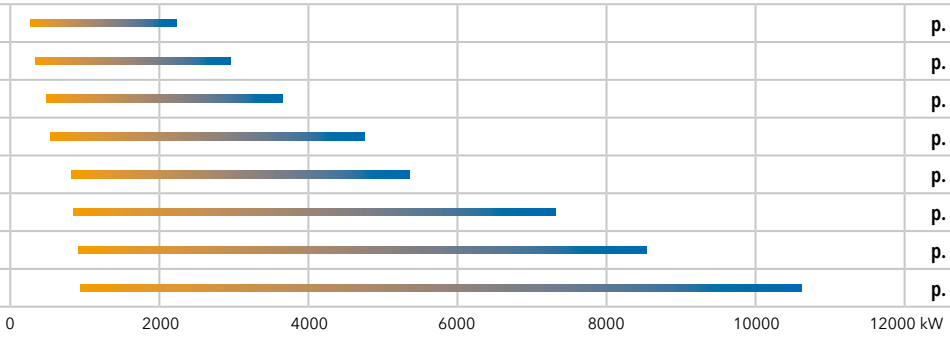
TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC IN GAS AND IN LIGHT OIL / Low NOx

N6.2400 GL-EF3	280 ... 1920 kW	**p. 150**
N6.2900 GL-EF3	340 ... 2890 kW	**p. 150**
N7.3600 GL-EF3	470 ... 3980 kW	**p. 150**
N7.4500 GL-EF3	510 ... 4500 kW	**p. 150**
N8.5700 GL-EF3	830 ... 6450 kW	**p. 154**
N9.6500 GL-EF3	830 ... 6950 kW	**p. 154**
N9.8700 GL-EUF	1040 ... 8500 kW	**p. 154**
N9.10400 GL-EUF	1160 ... 9570 kW	**p. 154**

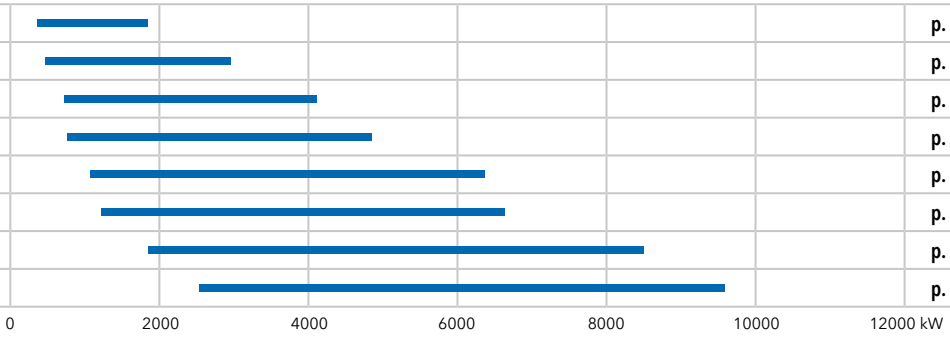


TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC IN GAS AND IN LIGHT OIL

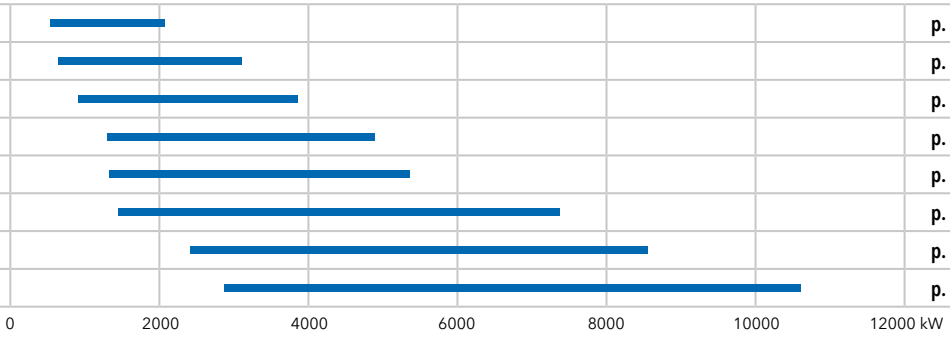
N6.2400 GL-E	250 ... 2230 kW	**p. 158**
N6.2900 GL-E	320 ... 2970 kW	**p. 158**
N7.3600 GL-E	490 ... 3650 kW	**p. 158**
N7.4500 GL-E	510 ... 4750 kW	**p. 158**
N8.5800 GL-E	800 ... 5350 kW	**p. 162**
N8.7100 GL-E	820 ... 7340 kW	**p. 162**
N9.8700 GL-E	880 ... 8530 kW	**p. 162**
N9.10400 GL-E	910 ... 10620 kW	**p. 162**



TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC / Low NOx



TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC



N RANGE GAS

TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC / Low NOx

N10.12000 G-EU2	1500 ... 12000 kW	**p. 182**
N10.14000 G-EU2	1750 ... 14000 kW	**p. 182**
N10.16000 G-EU2	2000 ... 16000 kW	**p. 182**
N11.19000 G-EU2	2750 ... 19000 kW	**p. 186**
N11.22000 G-EU2	2750 ... 22000 kW	**p. 186**

TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC

N10.12000 G-E	1300 ... 12000 kW	**p. 190**
N10.14000 G-E	1750 ... 14000 kW	**p. 190**
N10.16000 G-E	2000 ... 16000 kW	**p. 190**

N RANGE DUAL FUEL (GAS/LIGHT OIL)

TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC IN GAS AND IN LIGHT OIL / Low NOx

N10.12000 GL-EUF	1500 ... 12000 kW	**p. 194**
N10.14000 GL-EUF	2100 ... 14000 kW	**p. 194**
N10.16000 GL-EUF	2100 ... 16000 kW	**p. 194**

TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC IN GAS AND IN LIGHT OIL

N10.12000 GL-E	1300 ... 12000 kW	**p. 198**

N RANGE LIGHT OIL

TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC / Low NOx

N10.12000 L-EUF	3000 ... 12000 kW	**p. 202**
N10.14000 L-EUF	3300 ... 14000 kW	**p. 202**
N10.16000 L-EUF	3800 ... 16000 kW	**p. 202**

TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC

N10.12000 L-E	3600 ... 12000 kW	**p. 204**

HO-TRON RANGE — HEAVY OIL

ONE STAGE

HO-TRON 0.135	68 ... 136 kW	p. 208
HO-TRON 0.225	108 ... 227 kW	p. 208
HO-TRON 1.350	170 ... 340 kW	p. 210

TWO STAGES

HO-TRON 1.350 Z	205 ... 410 kW	p. 210
HO-TRON 2.580 Z	205 ... 570 kW	p. 210
HO-TRON 2.930 Z	464 ... 930 kW	p. 212
HO-TRON 2.1400 Z	682 ... 1395 kW	p. 212
HO-TRON 3.1700 Z	682 ... 1700 kW	p. 214
HO-TRON 3.2100 Z	682 ... 2093 kW	p. 214
HO-TRON 4.3000 Z	1000 ... 3000 kW	p. 216
HO-TRON 4.3900 Z3	1300 ... 3900 kW	p. 216

TWO STAGE PROGRESSIVE/MODULATING MECHANICAL

HO-TRON 4.3000 R	1000 ... 3000 kW	p. 218
HO-TRON 4.3900 R	1300 ... 3900 kW	p. 218
HO-TRON 5.5000 R	1578 ... 5000 kW	p. 220
HO-TRON 5.5800 R	1795 ... 5800 kW	p. 220
HO-TRON 6.7200 R	2417 ... 7250 kW	p. 222
HO-TRON 6.8500 R	2750 ... 8500 kW	p. 222
HO-TRON 6.10500 R	3300 ... 10500 kW	p. 222
HO-TRON 6.13000 R	4367 ... 12500 kW	p. 222
HO-TRON 7.15000 R	5000 ... 15000 kW	p. 224
HO-TRON 7.17000 R	5700 ... 17000 kW	p. 224

GHO-TRON RANGE — DUAL FUEL (GAS/HEAVY OIL)

TWO STAGES

GHO-TRON 3.2100 Z	414 ... 2150 kW	p. 228

TWO STAGE PROGRESSIVE/MODULATING MECHANICAL

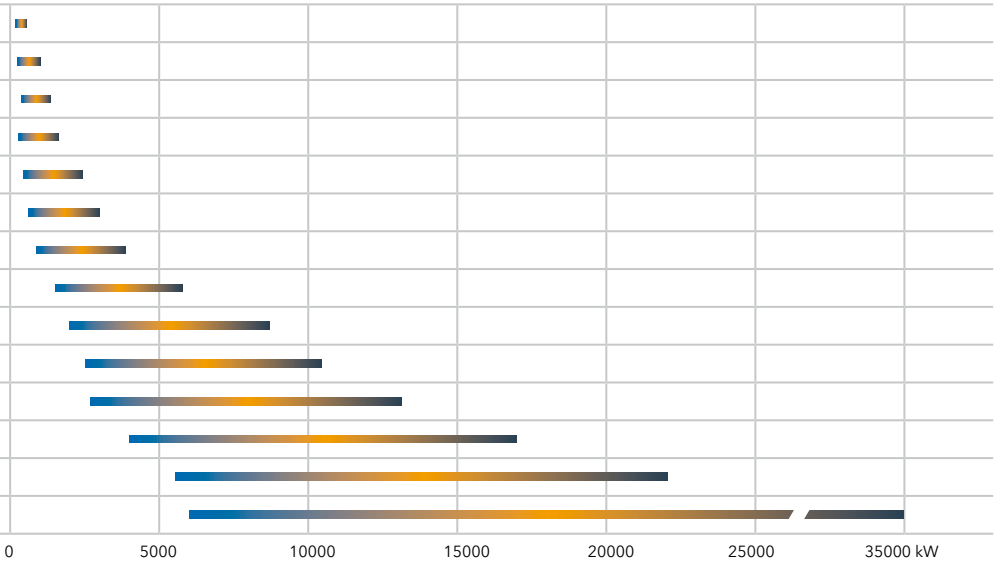
GHO-TRON 4.3000 R	630 ... 3000 kW	p. 230
GHO-TRON 4.3900 R	875 ... 3900 kW	p. 230
GHO-TRON 5.5000 R	1200 ... 5000 kW	p. 232
GHO-TRON 5.5800 R	1500 ... 5800 kW	p. 232
GHO-TRON 6.7200 R	1500 ... 7500 kW	p. 234
GHO-TRON 6.8500 R	2000 ... 8500 kW	p. 234
GHO-TRON 6.10500 R	2500 ... 10500 kW	p. 234
GHO-TRON 6.13000 R	2700 ... 13000 kW	p. 234
GHO-TRON 7.15000 R	3690 ... 15000 kW	p. 236
GHO-TRON 7.17000 R	4000 ... 17000 kW	p. 236

D-TRON RANGE — GAS, LIGHT OIL, HEAVY OIL AND DUAL FUEL

TWO STAGES and TWO STAGE PROGRESSIVE/MODULATING MECHANICAL or ELECTRONIC

p. 240

D...-TRON 2.500	230 ... 500 kW
D...-TRON 2.1000	280 ... 1000 kW
D...-TRON 2.1400	400 ... 1300 kW
D...-TRON 3.1500	300 ... 1550 kW
D...-TRON 3.2100	414 ... 2370 kW
D...-TRON 4.3000	630 ... 3000 kW
D...-TRON 4.3900	875 ... 3900 kW
D...-TRON 5.5800	1500 ... 5800 kW
D...-TRON 6.8500	2000 ... 8500 kW
D...-TRON 6.10500	2500 ... 10500 kW
D...-TRON 6.13000	2700 ... 13000 kW
D...-TRON 7.17000	4000 ... 17000 kW
D...-TRON 8.22000	5500 ... 22000 kW
D...-TRON 8.34000	6000 ... 34000 kW

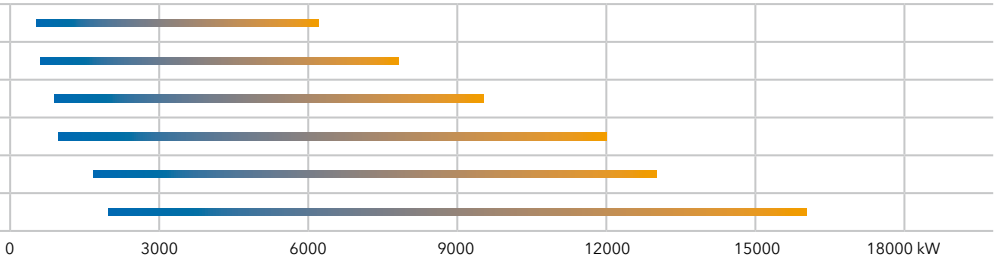


EK-DUO RANGE — GAS, LIGHT OIL AND DUAL FUEL

TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC

p. 242

EK-DUO 2.550	600 ... 6200 kW
EK-DUO 2.700	650 ... 7800 kW
EK-DUO 3.850	900 ... 9500 kW
EK-DUO 3.1000	1000 ... 12000 kW
EK-DUO 4.1300	1750 ... 13000 kW
EK-DUO 4.1600	2000 ... 16000 kW

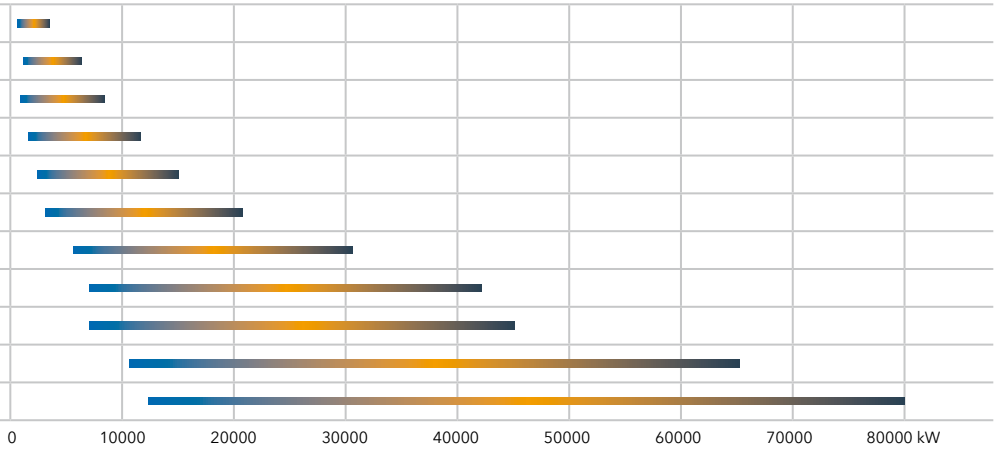


RPD RANGE — GAS, LIGHT OIL AND DUAL FUEL

TWO STAGE PROGRESSIVE/MODULATING ELECTRONIC

p. 244

RPD 20	500 ... 3300 kW
RPD 30	1130 ... 6042 kW
RPD 40	910 ... 8230 kW
RPD 50	1400 ... 11160 kW
RPD 60	2232 ... 14511 kW
RPD 70	3000 ... 20470 kW
RPD 80	5500 ... 30350 kW
RPD 90	7000 ... 42000 kW
RPD 100	7000 ... 45000 kW
RPD 130	10800 ... 65000 kW
RPD 160	12500 ... 80000 kW



GAS TRAINS

CONTROL BOX

O_2/CO TRIM

OPTIONS

EK EVO

MONOBLOCK BURNERS
FROM 250 TO 13500 kW
GAS, LIGHT OIL AND DUAL FUEL

ROBUST AND WELL ENGINEERED DESIGN

The design of the EK EVO is the result of a successful synergy between ELCO key features and essential design.
EK EVO introduces a brand new aluminium body casing, enhancing the visual choice of ELCO.
Professionals will appreciate the flexibility of a 180° orientable air inlet, the compact switch box and the easy to clean glossy paint.

A TOTAL ADVANTAGE IN TERMS OF FLEXIBILITY AND EASE OF USE

The EK EVO are characterised by their total flexibility of installation; they have been designed to be installed in different ways: up-firing, down-firing, upside-down or side-to-side (twin chamber boilers).
All EK EVO models are fully electronically controlled and equipped with the exclusive ELCO interface allowing simple and effective communication between burner and technician.

SMART SOLUTIONS FOR EASY MAINTENANCE

The maintenance of the EK EVO burners can comfortably be carried out thanks to a wide opening above the housing, allowing easy access to the combustion components, and thanks to the choice of the material: aluminium, lightweight to handle and resistant at the same time.
Maintenance operations are possible without disturbing the burner head and setting.

ULTRA LOW NOx VERSION WITH FGR SYSTEM

ELCO implements the external FGR technology to reduce pollutant emissions and satisfy even the most stringent regulations on all its EK EVO burners in gas and dual fuel operation.
This technology enables ELCO to guarantee emissions of less than 30 mg/kWh, a value which is hard to obtain with conventional combustion systems.

RANGE OVERVIEW

/ GAS RANGE
340 / 13500 kW

/ DUAL FUEL RANGE
250 / 10620 kW

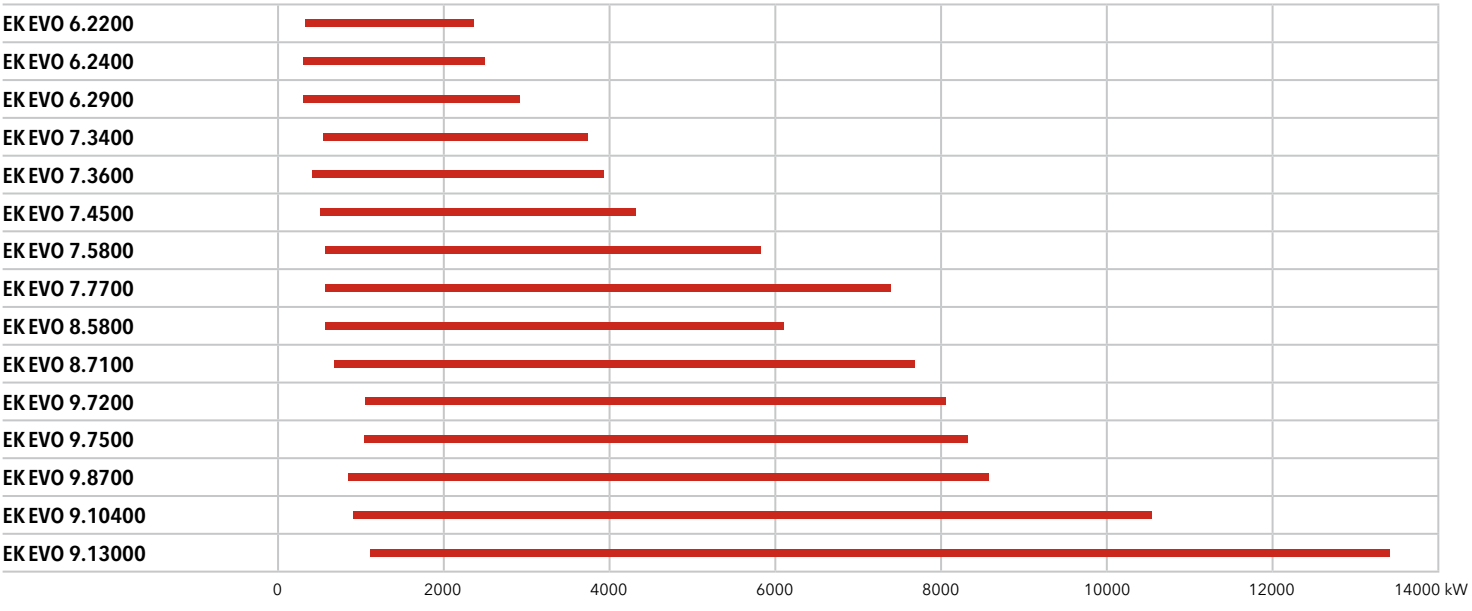
/ LIGHT OIL RANGE
360 / 10620 kW

/ LOW NOx / ULTRA LOW NOx
up to 13500 kW

MAIN TECHNICAL FEATURES

- Two stage progressive/modulating forced draught burner
- Fuels:
  - natural gas, Hi = 6,99 … 11,39 kWh/Nm^3
  - LPG, Hi = 25,89 kWh/Nm^3
  - light oil, viscosity 6 mm^2/s at 20°C, Hi = 11,86 kWh/kg
- Combustion technology:
  - Low NOx class 2 (≤120 mg/kWh) and class 3 (≤80 mg/kWh) in gas operation acccording to EN676
  - Low NOx class 2 (≤185 mg/kWh) and class 3 (≤120 mg/kWh) in light oil operation according to EN267
  - Ultra Low NOx configuration available with FGR System to reach NOx emission values below 30 mg/kWh
- Integrated switch cabinet (ISC System) with modular concept complete for an easy installation with:
  - BT300 control box
  - fan motor direct start-up
  - enumerated connection terminals
  - three-phase electrical power supply
  - available as options: power regulator, speed controller, O_2/CO regulator and BUS interface
- Innovative design allowing easy access to burner components for fast start-up and reduced maintenance time and space
- Three flame tube lengths available
- Orientable air intake box
- Secured burner head adjustments during maintenance (RTC System)
- Closing of the air damper on burner shut-down
- Multiple gas train matching according to the inlet gas pressure
- Gas train factory assembled and tested for tightness and electrical security
- Products are in compliance with EN676 and EN267 European standards and with the following directives:
  - 2014/35/UE Low Voltage Directive
  - 2014/30/UE EMC Directive
  - 2016/426/UE Gas Appliances Regulation
  - 2006/42/EC Machinery Directive
  - 2011/65/EU RoHS2 Directive

PRODUCT LIST



EK EVO

GAS

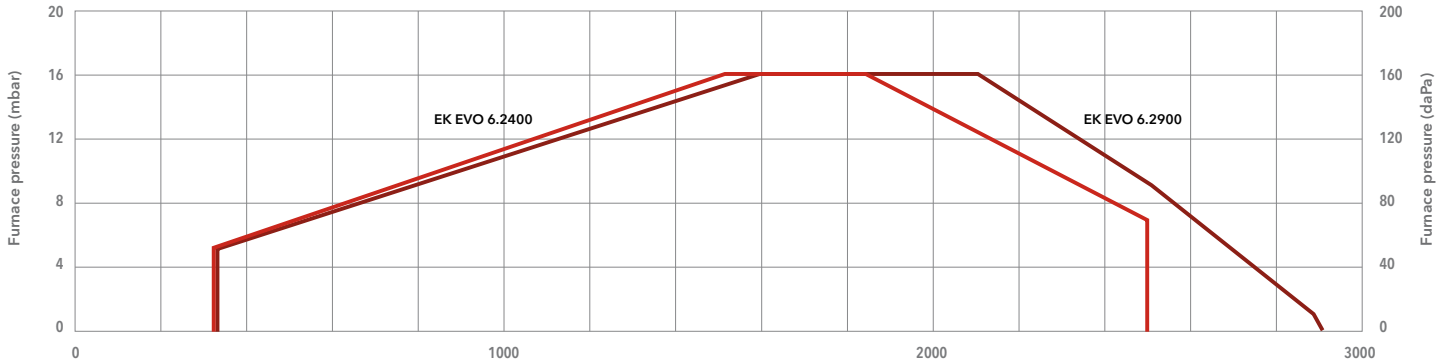
Low NOx Class 3

EK EVO 6 G-EF3

340 ... 2900 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 6.2400 G-EF3	EK EVO 6.2900 G-EF3
Operating range		340 – 2500 kW	340 – 2900 kW
Gas pressure		50 – 500 mbar (50 – 360 mbar for d452 and d453)	50 – 500 mbar (50 – 360 mbar for d452 and d453)
Gas connection		DN65	DN65
Control box / flame detector		BT300 / QRA2	BT300 / QRA2
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 3 kW	50 Hz – 4 kW
Acoustic level		<74 dB(A)	<77 dB(A)
CE certificate		0085CL0215	0085CL0215
Burner codes (body + head)	KN	**3754046**	**3754047**
	KM	**3754050**	**3754051**
	KL	**3754054**	**3754055**

GAS TRAINS

DUNGS

Model	Code
GT-d452-1"1/2 (*)	3750510
GT-d453-2" (*)	3750511
GT-d454-65	3750512
GT-d455-80	3750513

*: integrated filter

SIEMENS

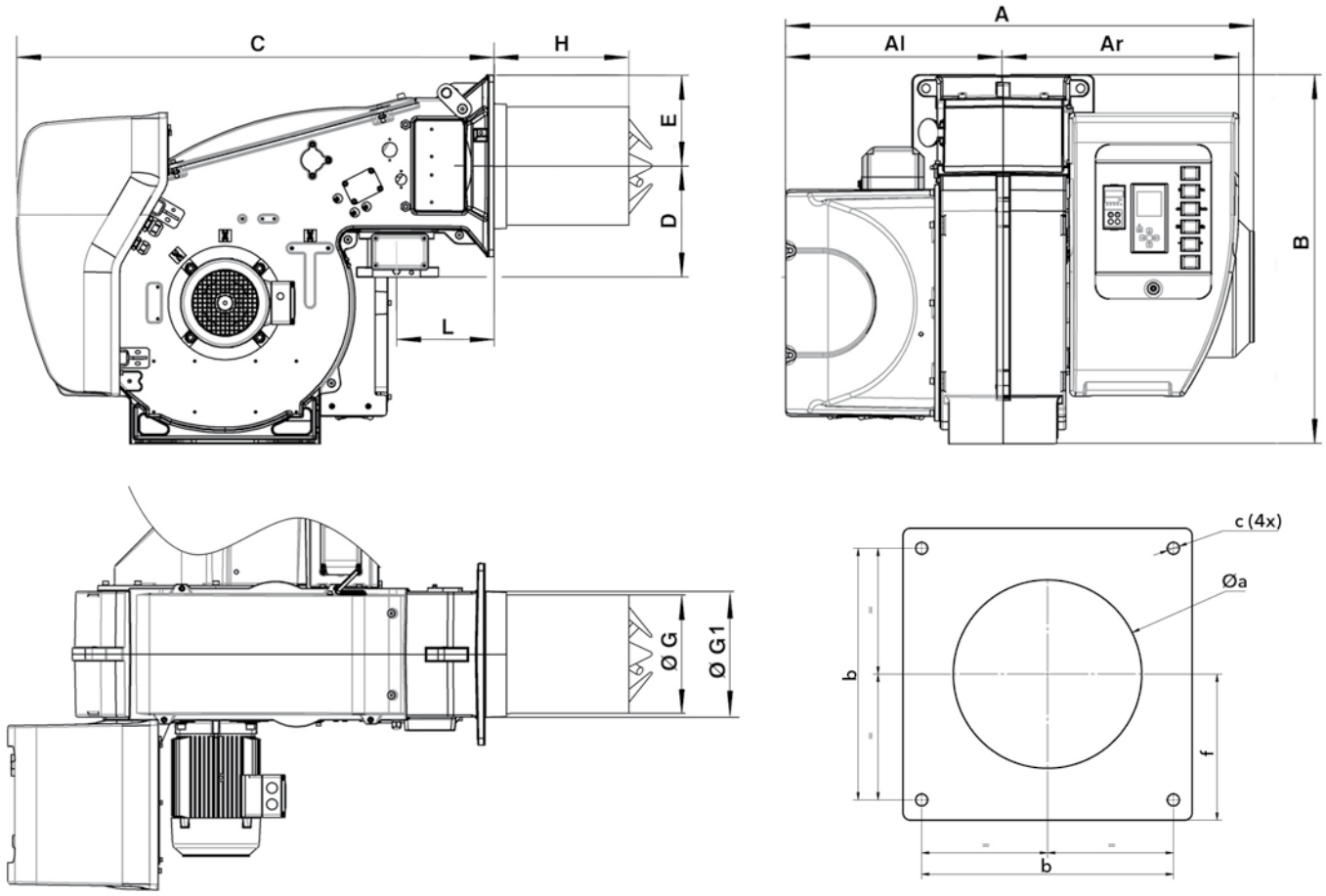
Model	Code
GT-s451-1"1/2	3750525
GT-s452-2"	3750526
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529

FILTERS

Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 246

DIMENSIONS (mm)

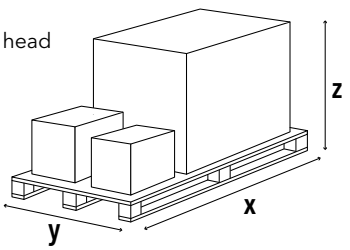


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L
										KN	KM	KL	
EK EVO 6... G-EF3	1035	479	556	812	1056	245	200	263	277	392	512	632	223

Øa	b	c	f
300-340	340	M16	200

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 6.2400 G-EF3	2046	1414	1233	300
EK EVO 6.2900 G-EF3	2046	1414	1233	300

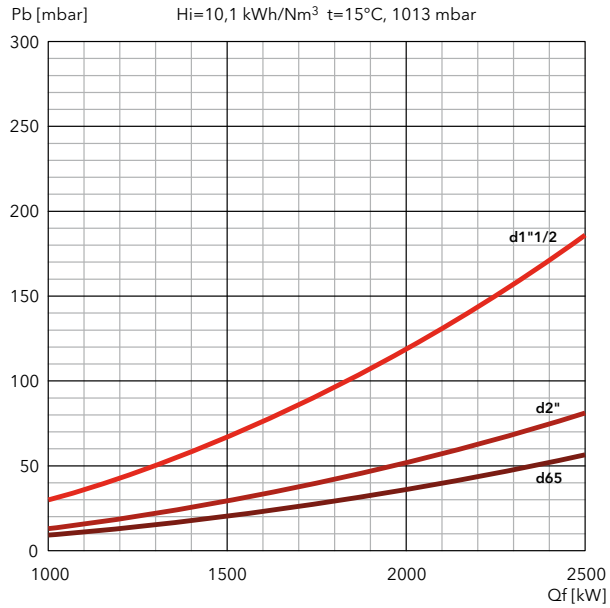
EK EVO 6 G-EF3

340 ... 2900 kW
Two stage progressive/modulating electronic

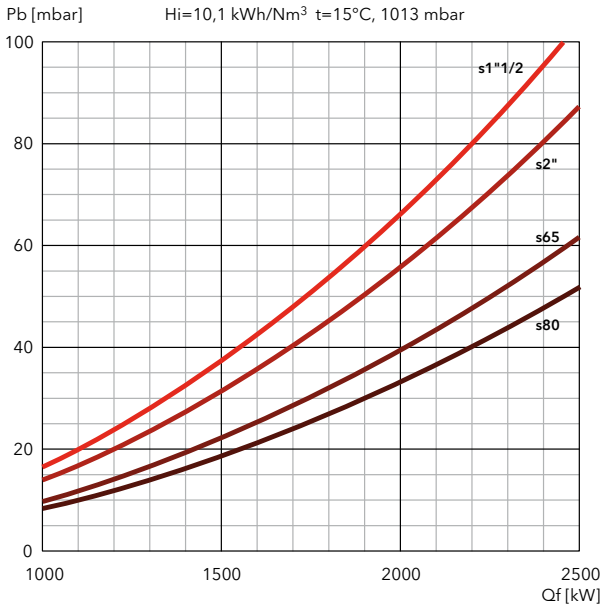
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 6.2400 G-EF3

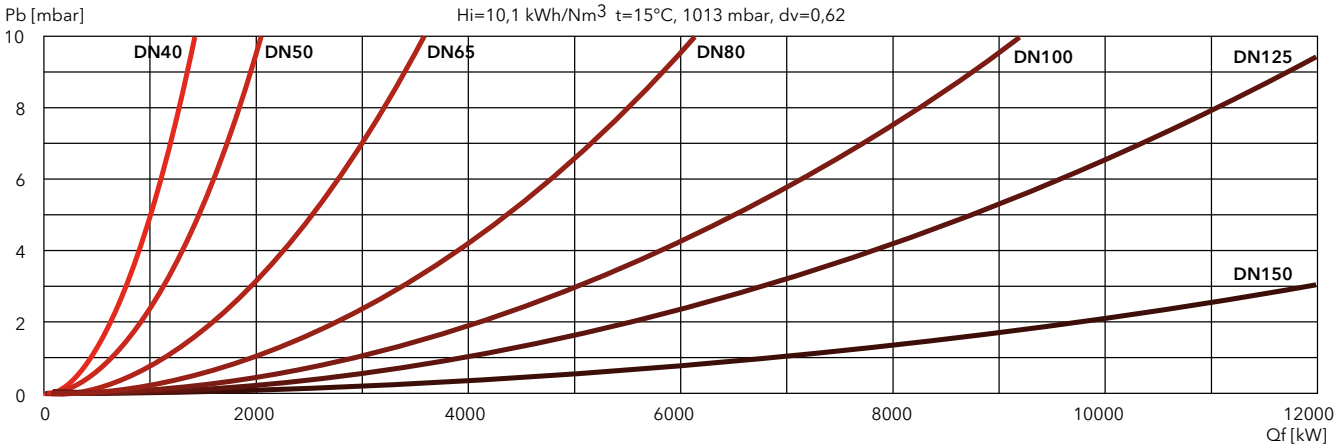
DUNGS



SIEMENS



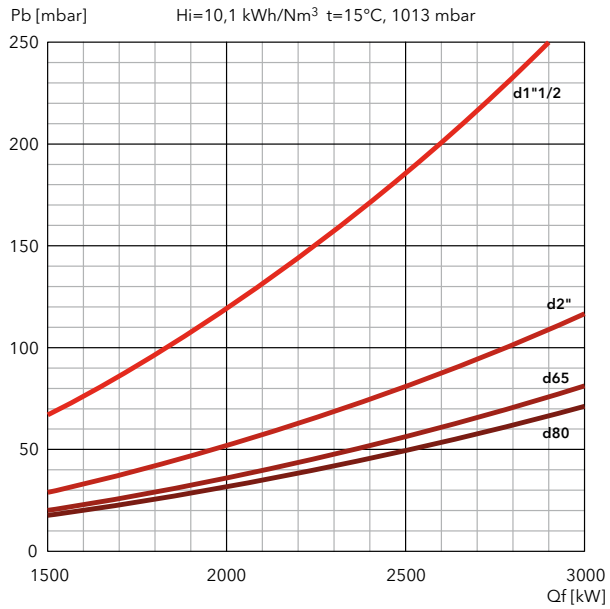
FILTERS



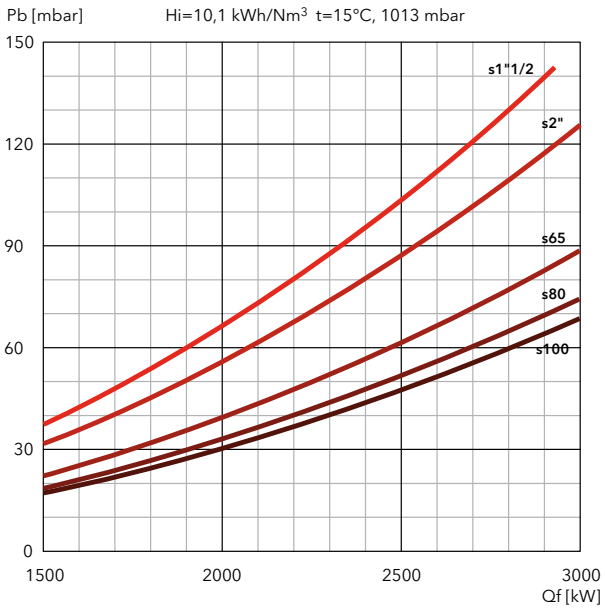
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 6.2900 G-EF3

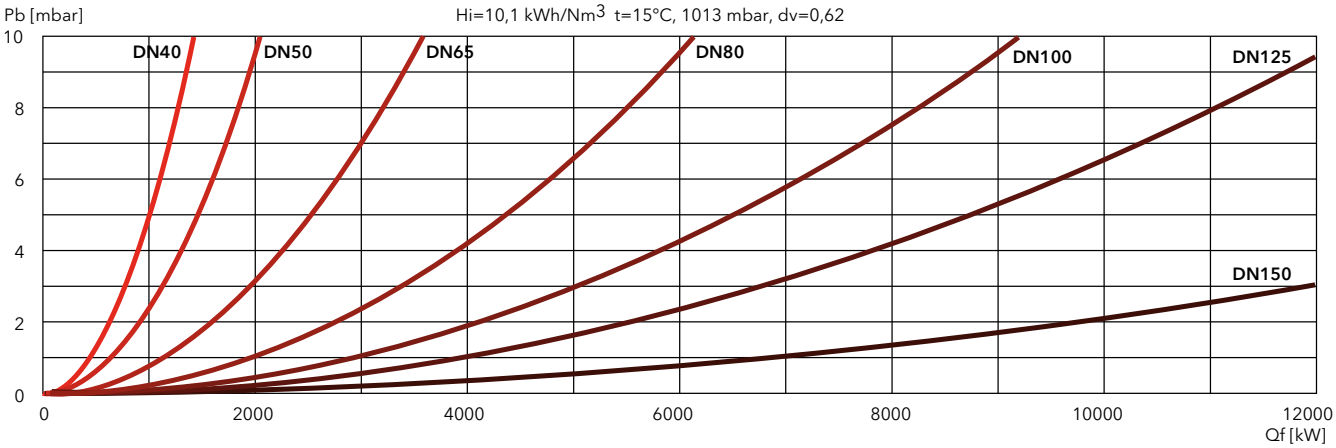
DUNGS



SIEMENS



FILTERS



EK EVO

GAS

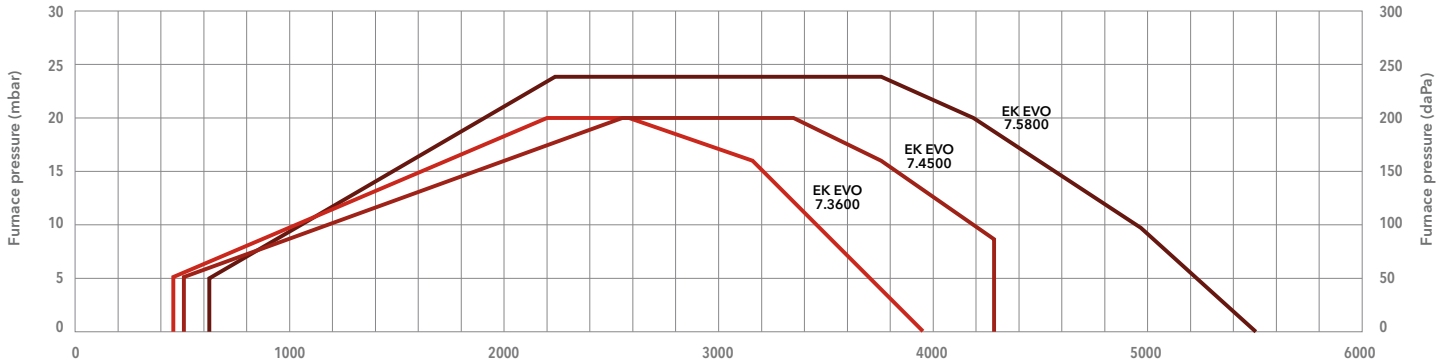
Low NOx Class 3

EK EVO 7 G-EF3

470 ... 5500 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

Power (kW)

		EK EVO 7.3600 G-EF3	EK EVO 7.4500 G-EF3	EK EVO 7.5800 G-EF3
Operating range		470 – 3980 kW	510 – 4290 kW	620 – 5500 kW
Gas pressure		50 – 500 mbar (50 – 360 mbar for d452 and d453)		
Gas connection		DN65	DN65	DN65
Control box / flame detector		BT300 / QRA2	BT300 / QRA2	BT300 / QRA2
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 7,5 kW	50 Hz – 7,5 kW	50 Hz – 11 kW
Acoustic level		<83 dB(A)	<81 dB(A)	<85 dB(A)
CE certificate		0085CL0215	0085CL0215	0085CL0215
Burner codes (body + head)	KN	**3754048**	**3754049**	**3756103**
	KM	**3754052**	**3754053**	**3756104**
	KL	**3754056**	**3754057**	**3756105**

GAS TRAINS

DUNGS

Model	Code
GT-d452-1"1/2 (*)	3750510
GT-d453-2" (*)	3750511
GT-d454-65	3750512
GT-d455-80	3750513
GT-d456-100	3750514

*: integrated filter

SIEMENS

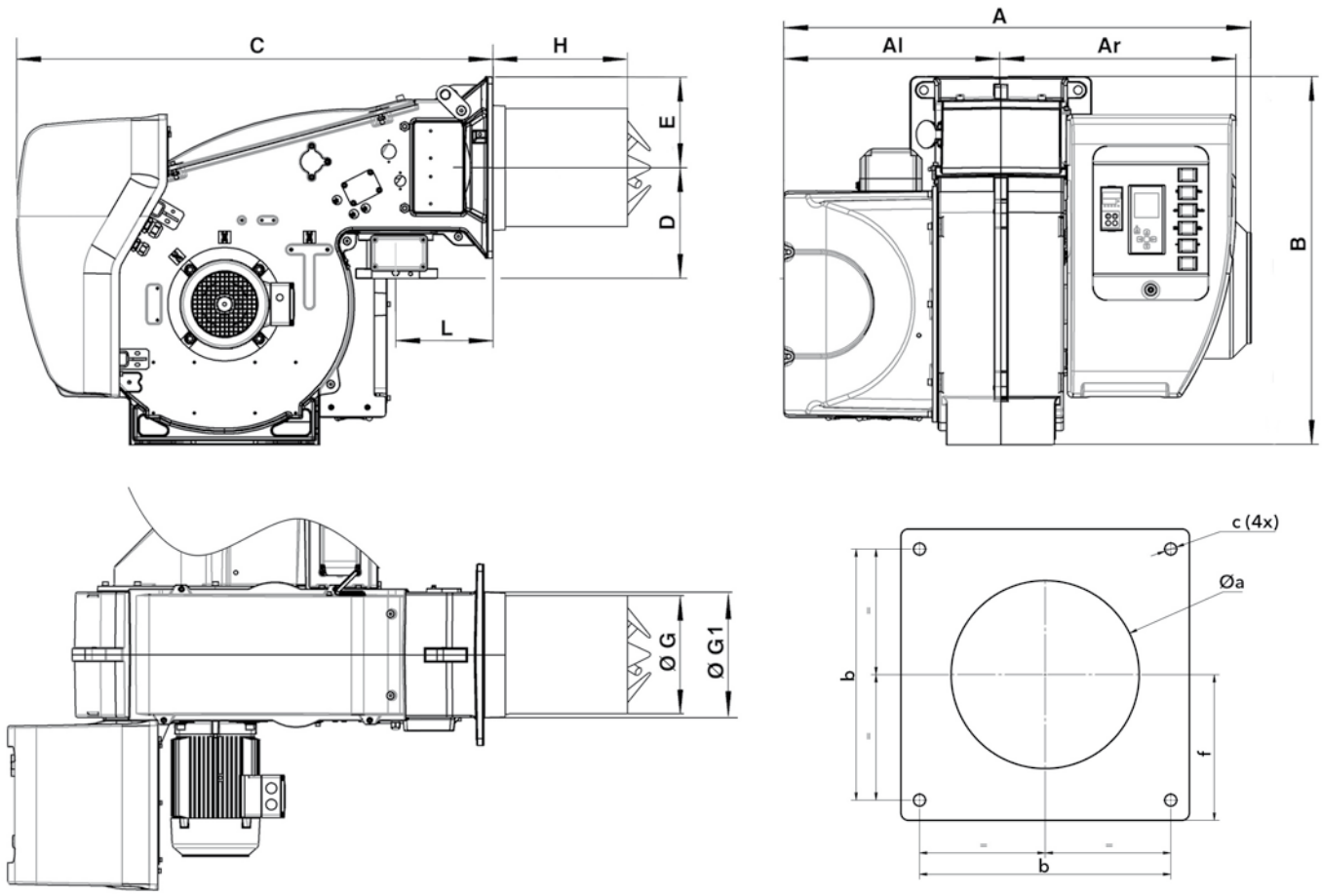
Model	Code
GT-s451-1"1/2	3750525
GT-s452-2"	3750526
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529
GT-s456-125	3750530

FILTERS

Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 246

DIMENSIONS (mm)

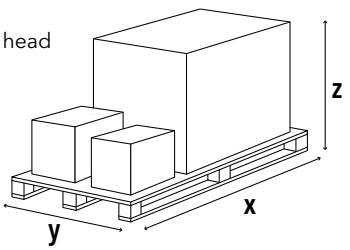


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L
										KN	KM	KL	
EK EVO 7.3600/4500	1107	510	597	941	1130	276	235	325	339	412	542	672	233
EK EVO 7.5800	1205	510	695	941	1171	276	235	325	339	412	542	672	233

Øa	b	c	f
360-400	400	M16	235
360-400	400	M16	235

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 7.3600 G-EF3	2046	1414	1233	350
EK EVO 7.4500 G-EF3	2046	1414	1233	350
EK EVO 7.5800 G-EF3	2046	1414	1233	350

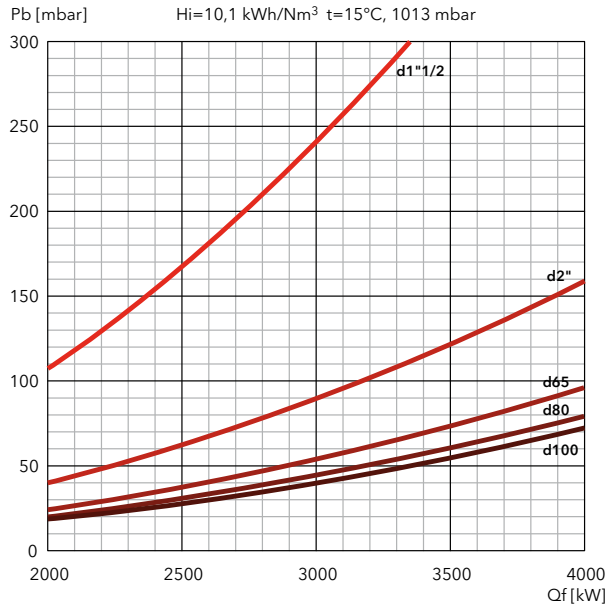
EK EVO 7 G-EF3

470 ... 5500 kW
Two stage progressive/modulating electronic

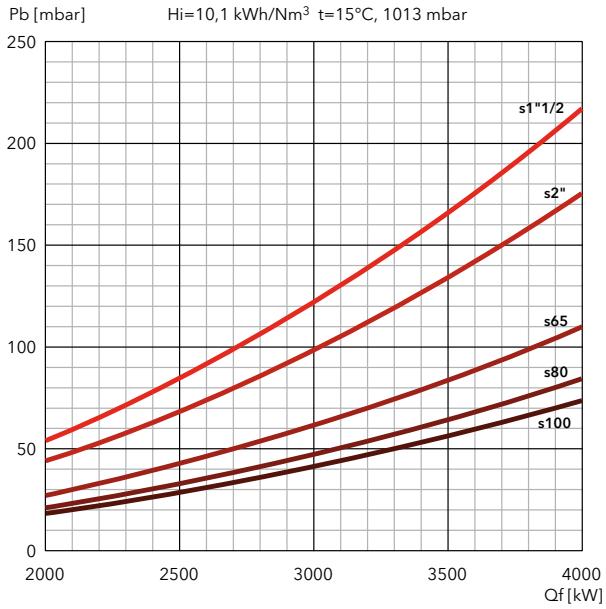
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 7.3600 G-EF3

DUNGS

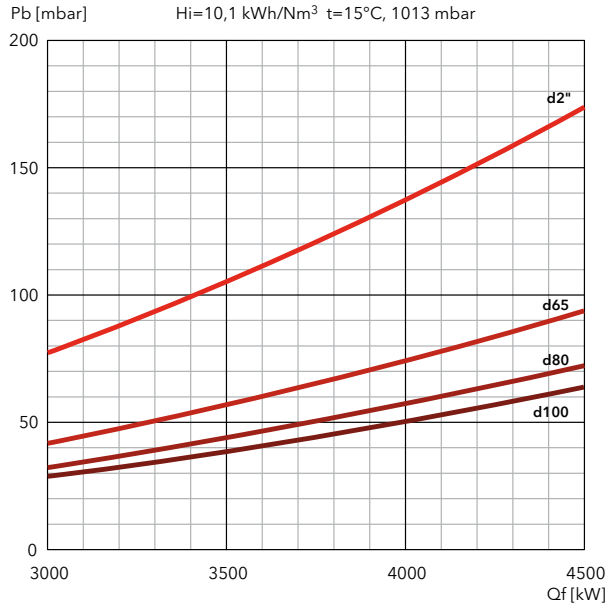


SIEMENS

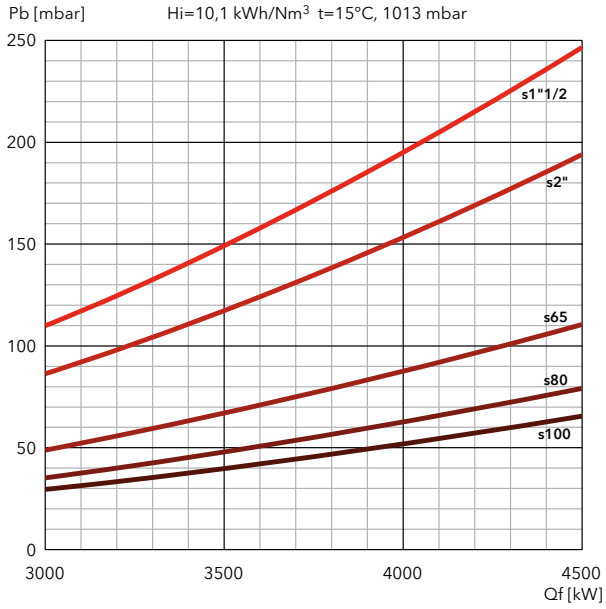


EK EVO 7.4500 G-EF3

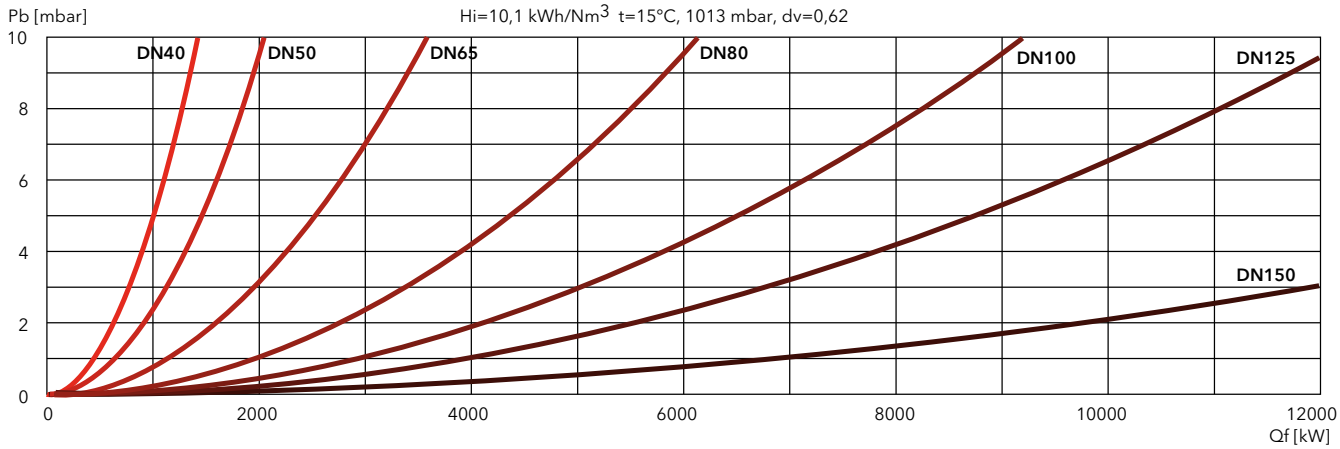
DUNGS



SIEMENS



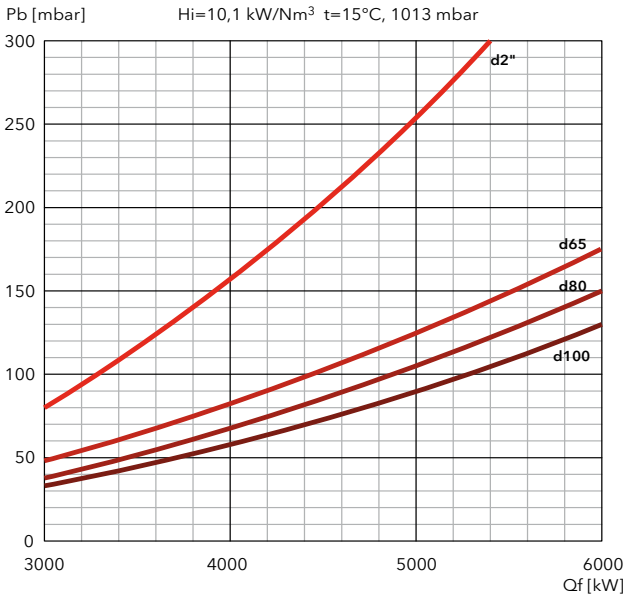
FILTERS



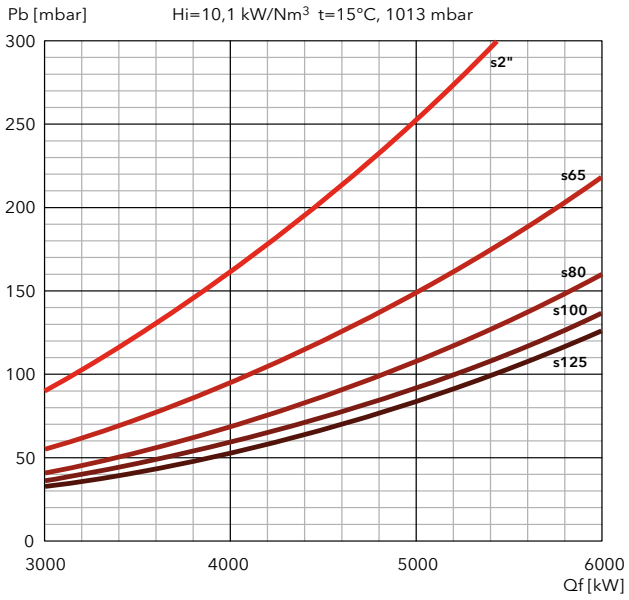
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 7.5800 G-EF3

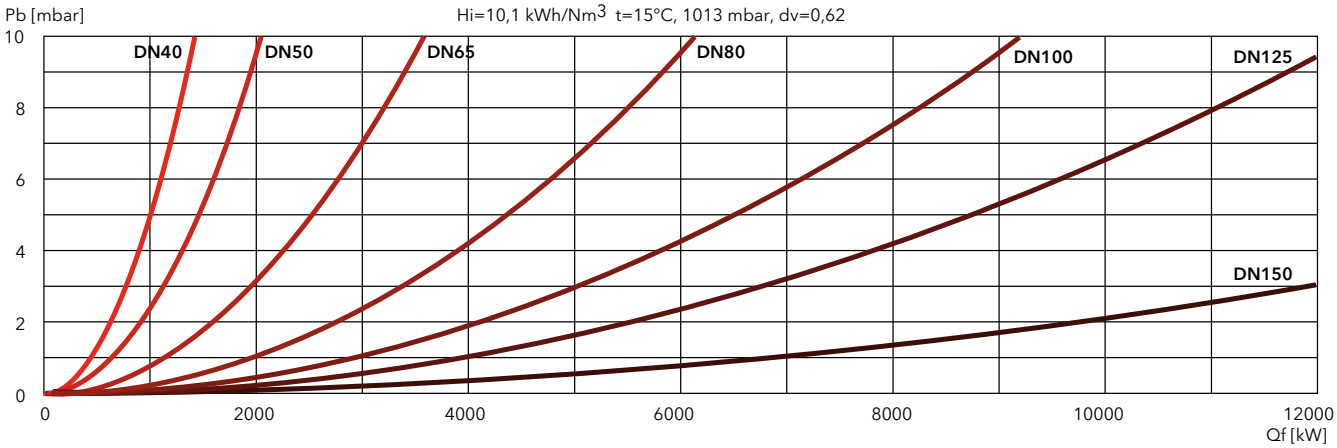
DUNGS



SIEMENS



FILTERS



EK EVO

GAS

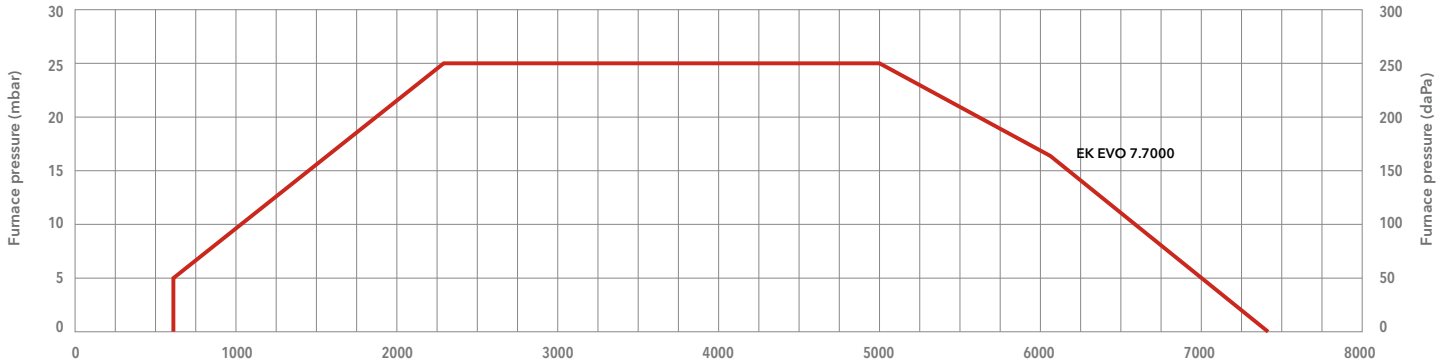
Low NOx Class 3

EK EVO 7 G-EU3

610 ... 7450 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
  Version with FGR System (≤30 mg/kWh) available on request
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 7.7000 G-EU3
Operating range		610 – 7450 kW
Gas pressure		105 – 500 mbar (105 – 360 mbar for d452 and d453)
Gas connection		DN65
Control box / flame detector		BT300 / KLC
Auxiliary voltage		1NPE AC 230 V – 50 Hz
Power supply		3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 15 kW
Acoustic level		<89 dB(A)
CE certificate		0085CL0215
Burner codes (body + head)	KN	**3758210**
	KM	**3758211**
	KL	**3758212**

GAS TRAINS

DUNGS

Model	Code
GT-d453-2" (*)	3750511
GT-d454-65	3750512
GT-d455-80	3750513
GT-d456-100	3750514

*: integrated filter

SIEMENS

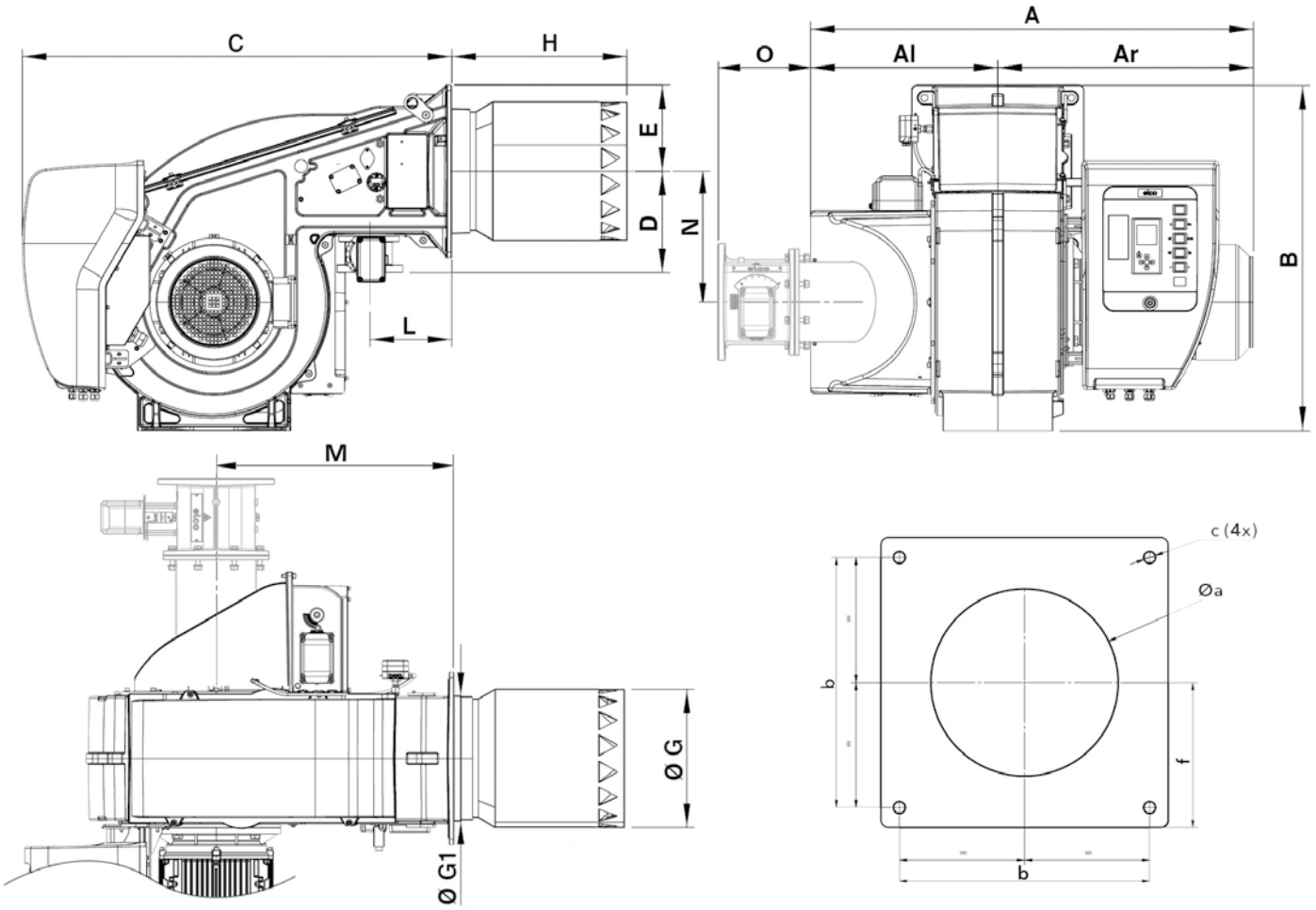
Model	Code
GT-s452-2"	3750526
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529
GT-s456-125	3750530

FILTERS

Model	Code
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 246

DIMENSIONS (mm)

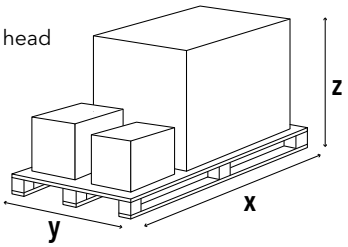


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	M*	N*	O*	Øa	b	c	f
										KN	KM	KL								
EK EVO 7.7000 G-EU3	1205	510	695	941	1168	276	235	376	340	501	641	781	225	647	356	255	390-400	400	M16	235

*: in FGR configuration

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 7.7000 G-EU3	2046	1414	1233	350

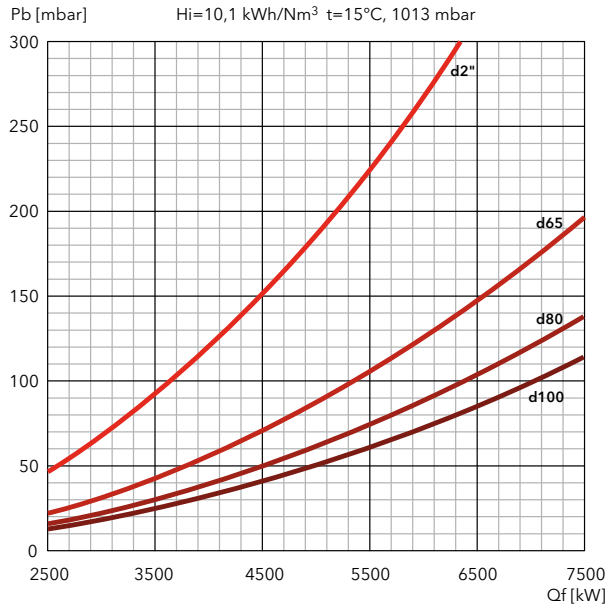
EK EVO 7 G-EU3

610 ... 7450 kW
Two stage progressive/modulating electronic

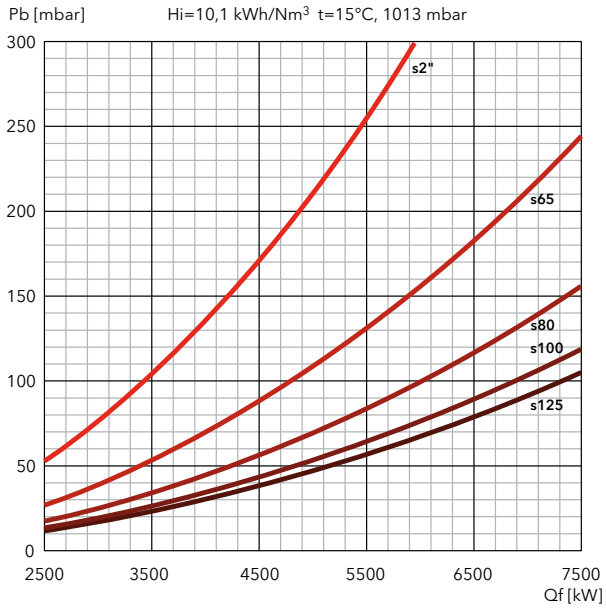
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 7.7000 G-EU3

DUNGS

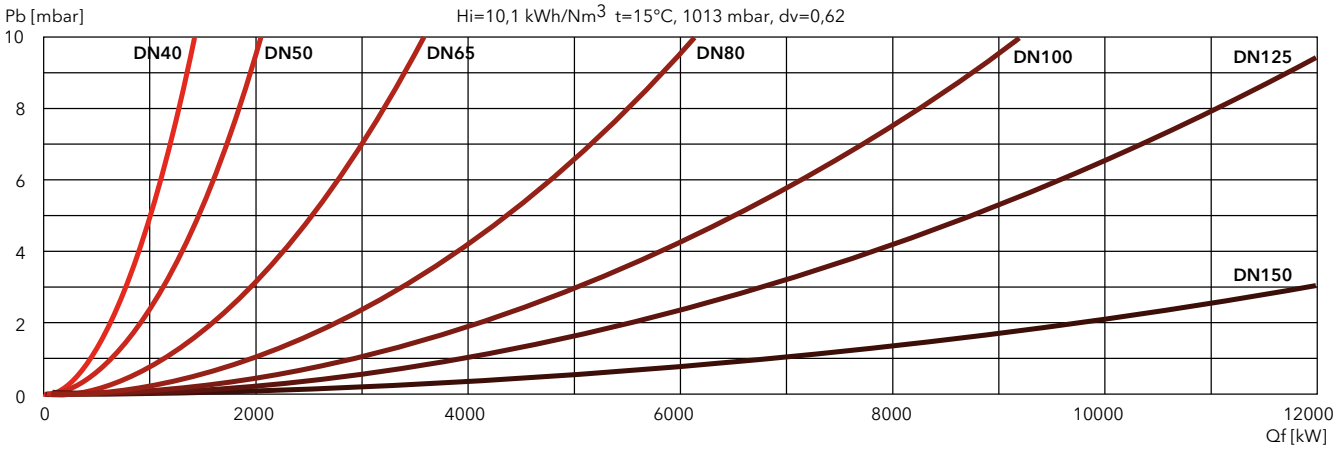


SIEMENS



PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

FILTERS



EK EVO

GAS

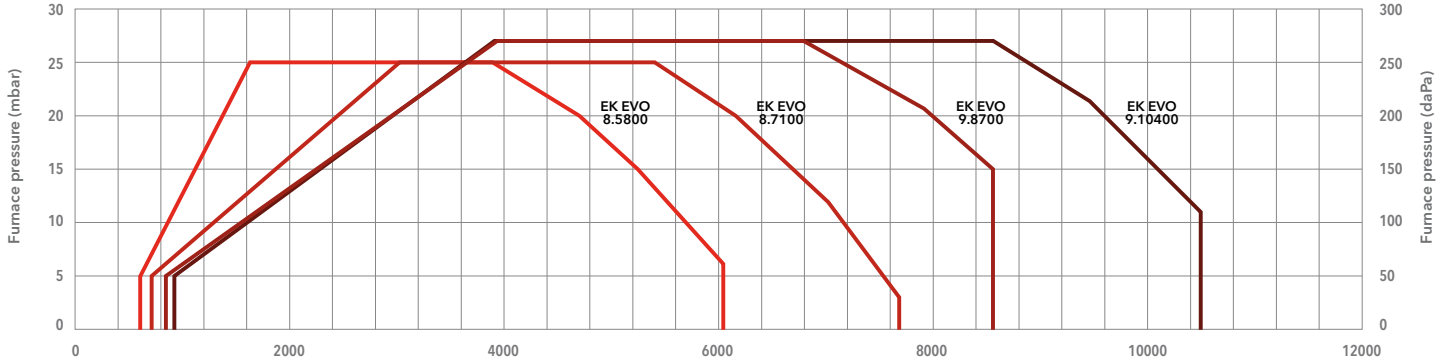
Low NOx Class 3

EK EVO 8 G-EU3 / EK EVO 9 G-EU3

600 ... 10500 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
  Version with FGR System (≤30 mg/kWh) available on request
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 8.5800 G-EU3	EK EVO 8.7100 G-EU3	EK EVO 9.8700 G-EU3	EK EVO 9.10400 G-EU3
Operating range		600 – 6070 kW	700 – 7700 kW	850 – 8530 kW	910 – 10500 kW
Gas pressure		70 – 500 mbar (70 – 360 mbar for d457)		80 – 500 mbar (80 – 360 mbar for d457)	
Gas connection		DN100	DN100	DN100	DN100
Control box / flame detector		BT300 / Ionisation	BT300 / Ionisation	BT300 / Ionisation	BT300 / Ionisation
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 11 kW	50 Hz – 15 kW	50 Hz – 18,5 kW	50 Hz – 22 kW
Acoustic level		<80,2 dB(A)	<82,3 dB(A)	<85,4 dB(A)	<86,1 dB(A)
CE certificate		0085CL0215	0085CL0215	0085CL0215	0085CL0215
Burner codes (body + head)	**KN**	**3753969**	**3753970**	**3753971**	**3753972**
	KM	**3753978**	**3753979**	**3753980**	**3753981**
	KL	**3753986**	**3753987**	**3753988**	**3753989**

GAS TRAINS

DUNGS

Model	Code
GT-d457-2" (*)	3750515
GT-d458-65	3750516
GT-d459-80	3750517
GT-d460-100	3750518
GT-d4...-125	on request

*: integrated filter

SIEMENS

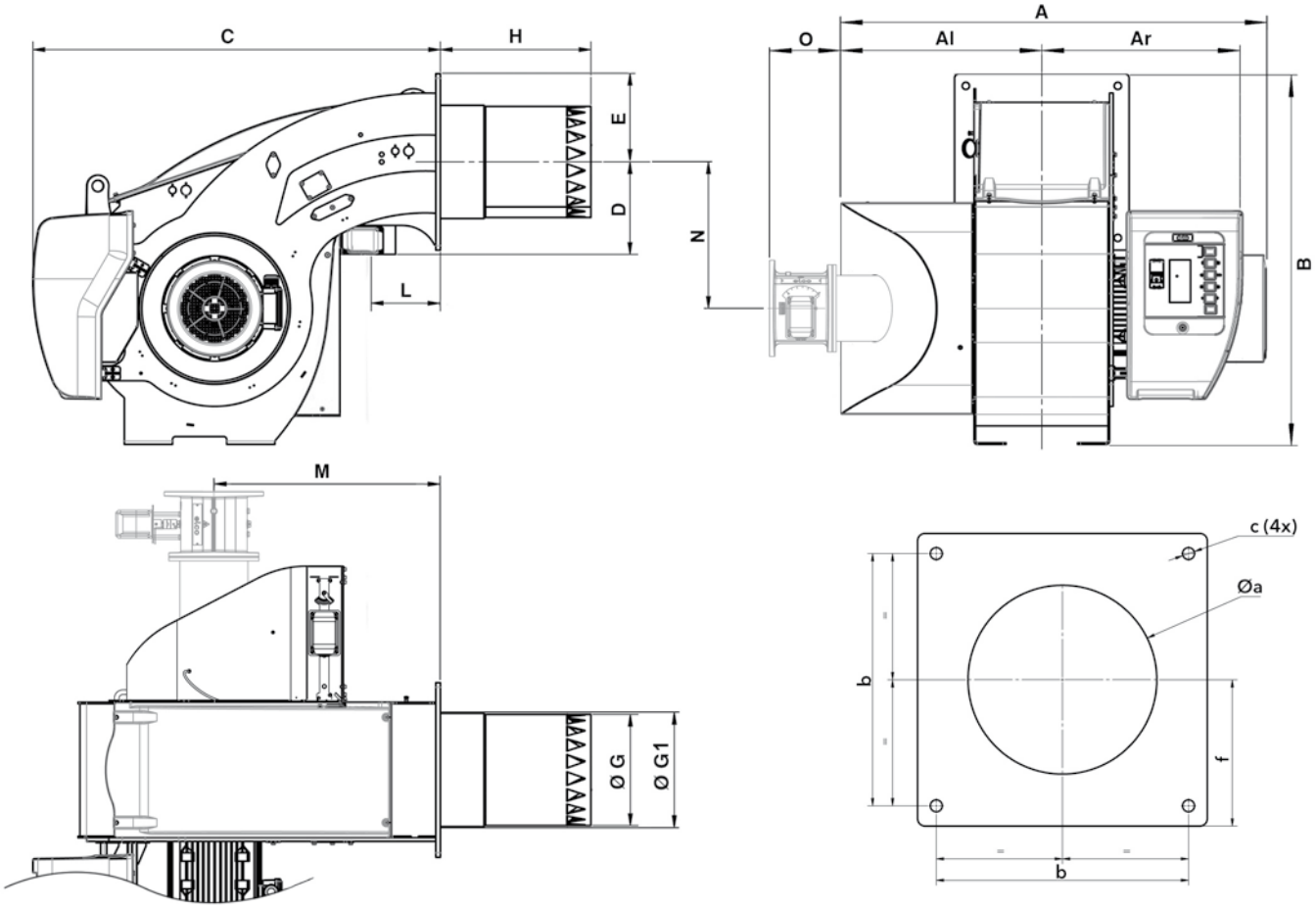
Model	Code
GT-s451-1"1/2	3750525
GT-s457-2"	3750537
GT-s458-65	3750538
GT-s459-80	3750539
GT-s460-100	3750540
GT-s461-125	3750541

FILTERS

Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 247

DIMENSIONS (mm)

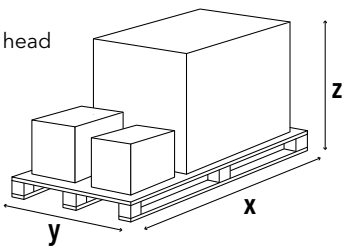


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	M*	N*	O*	Øa	b	c	f
										KN	KM	KL								
EK EVO 8.5800 G-EU3	1325	670	655	1231	1355	307	293	369	376	496	636	776	234	750	487	240	385-410	505	M20	293
EK EVO 8.7100 G-EU3	1325	670	655	1231	1355	307	293	369	376	496	636	776	234	750	487	240	385-410	505	M20	293
EK EVO 9.8700 G-EU3	1336	670	666	1291	1354	332	293	432	439	546	696	846	234	750	530	240	450-480	505	M20	293
EK EVO 9.10400 G-EU3	1400	670	730	1291	1354	332	293	432	439	546	696	846	234	750	530	240	450-480	505	M20	293

*: in FGR configuration

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 8.5800 G-EU3	2300	1500	1573	580
EK EVO 8.7100 G-EU3	2300	1500	1573	580
EK EVO 9.8700 G-EU3	2300	1500	1573	700
EK EVO 9.10400 G-EU3	2300	1500	1573	700

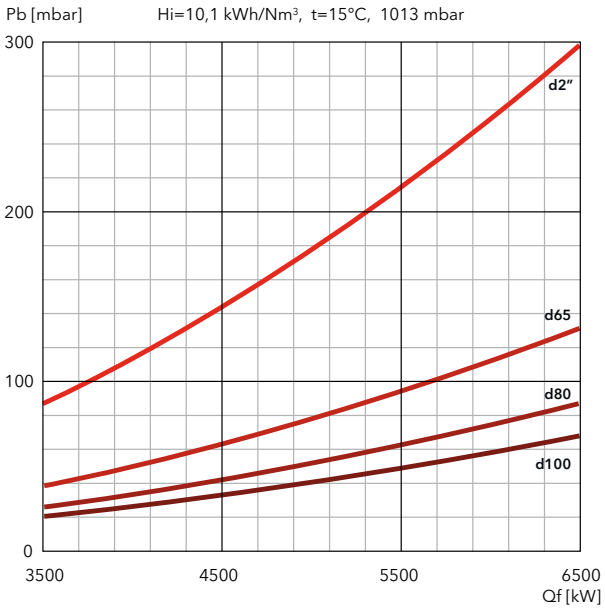
EK EVO 8 G-EU3 / EK EVO 9 G-EU3

600 ... 10500 kW
Two stage progressive/modulating electronic

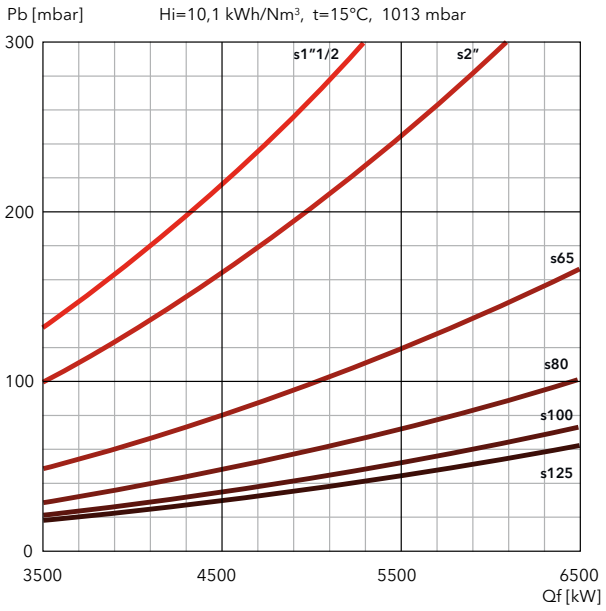
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 8.5800 G-EU3

DUNGS

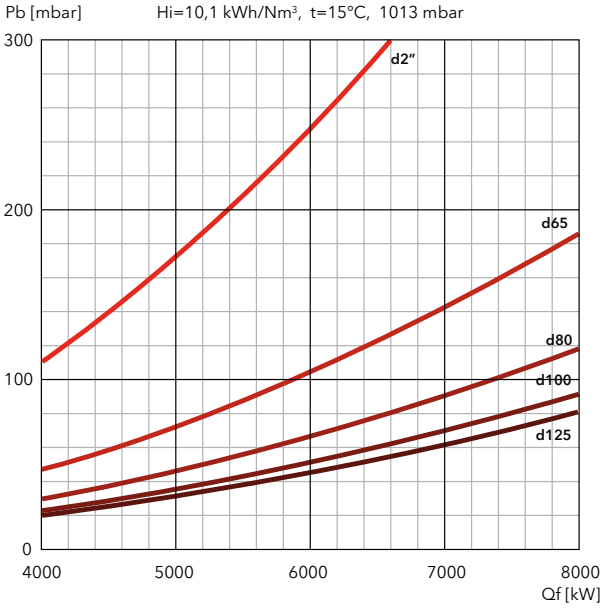


SIEMENS

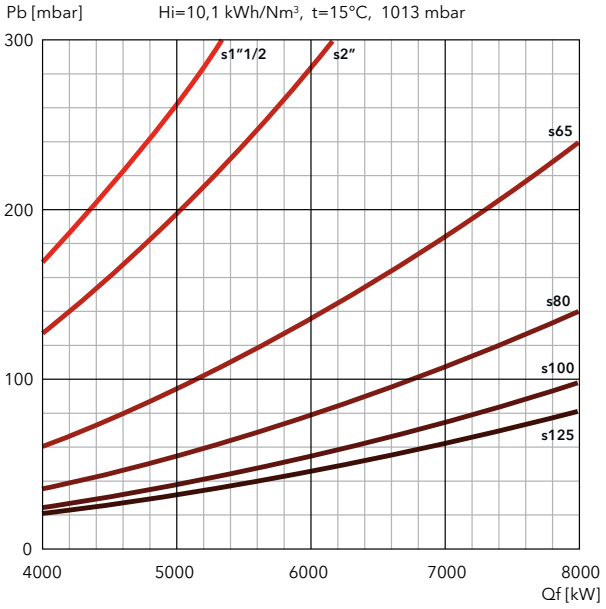


EK EVO 8.7100 G-EU3

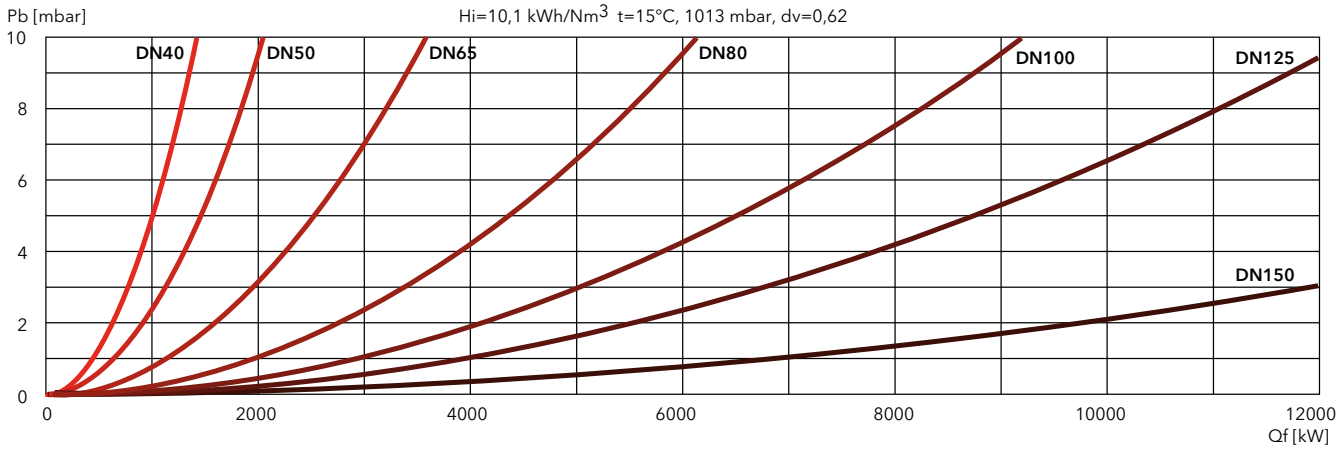
DUNGS



SIEMENS



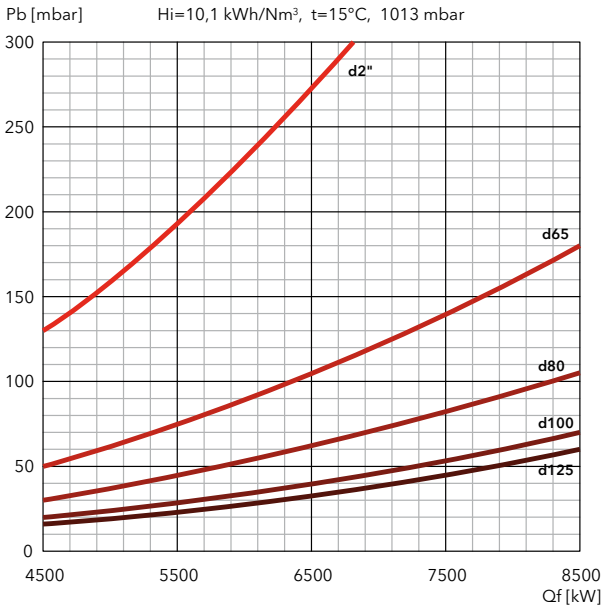
FILTERS



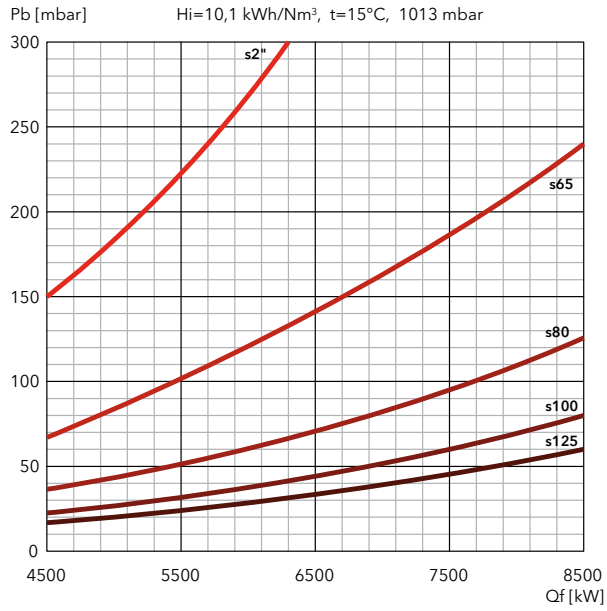
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 9.8700 G-EU3

DUNGS

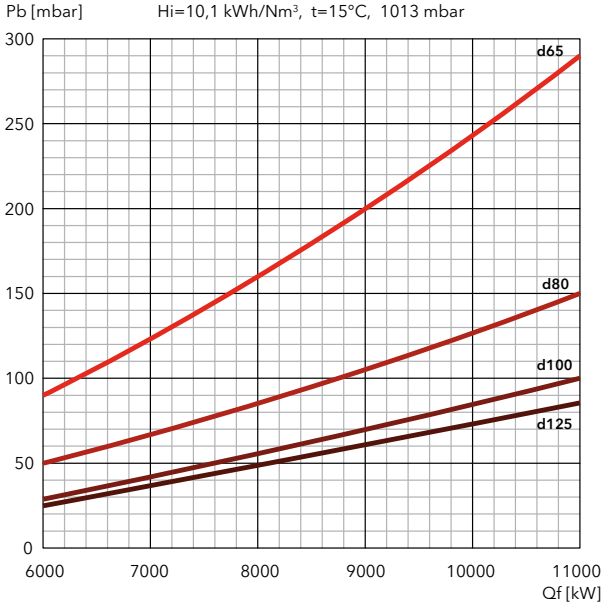


SIEMENS

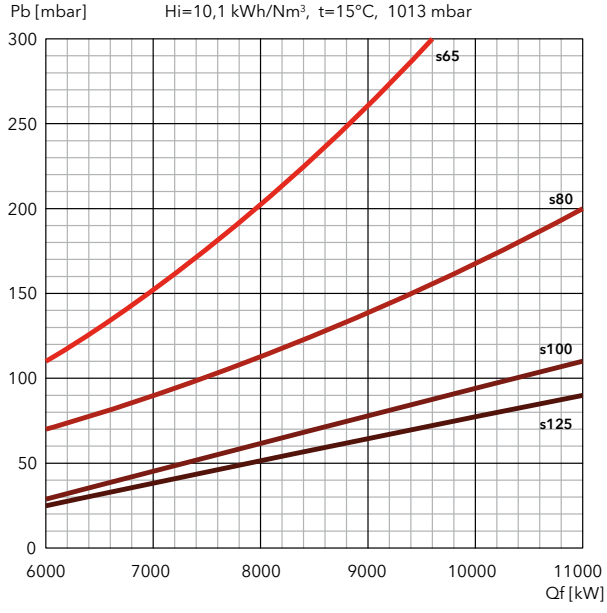


EK EVO 9.10400 G-EU3

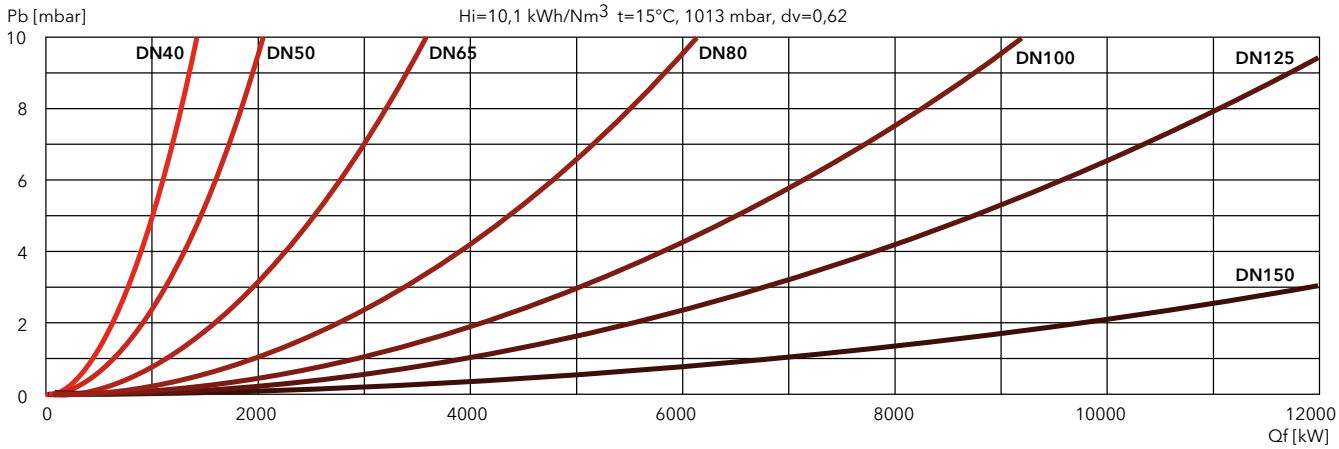
DUNGS



SIEMENS



FILTERS



EK EVO

GAS

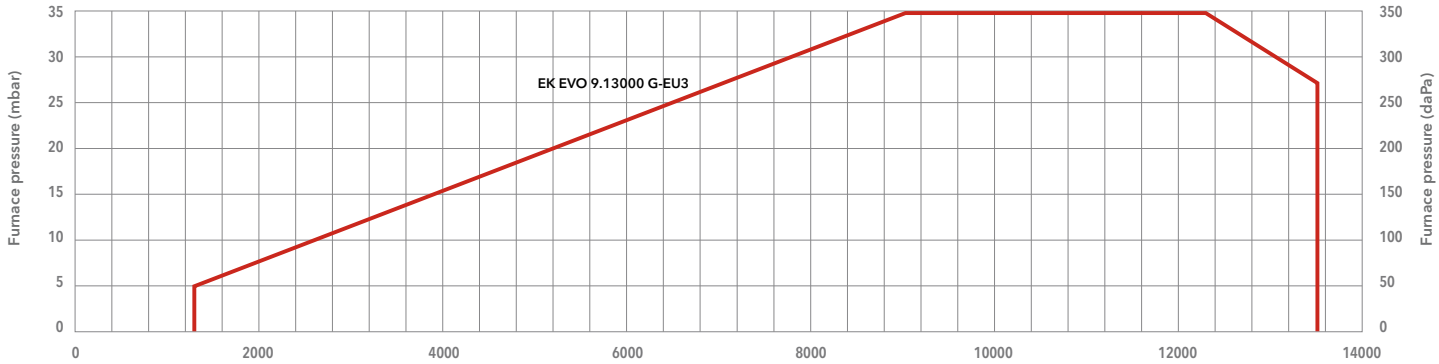
Low NOx Class 3

EK EVO 9 G-EU3

1350 ... 13500 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
  Version with FGR System (≤30 mg/kWh) available on request
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 9.13000 G-EU3
Operating range		1350 – 13500 kW
Gas pressure		130 – 500 mbar
Gas connection		DN100
Control box / flame detector		BT300 / QRA2
Auxiliary voltage		1NPE AC 230 V – 50/60 Hz
Power supply		3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 37 kW
Acoustic level		<93,5 dB(A)
CE certificate		0085CL0215
Burner codes (body + head)	KN	**3758162**
	KM	**3758163**
	KL	**3758164**

GAS TRAINS

DUNGS

Model	Code
GT-d459-80	3750517
GT-d460-100	3750518
GT-d4...-125	on request

SIEMENS

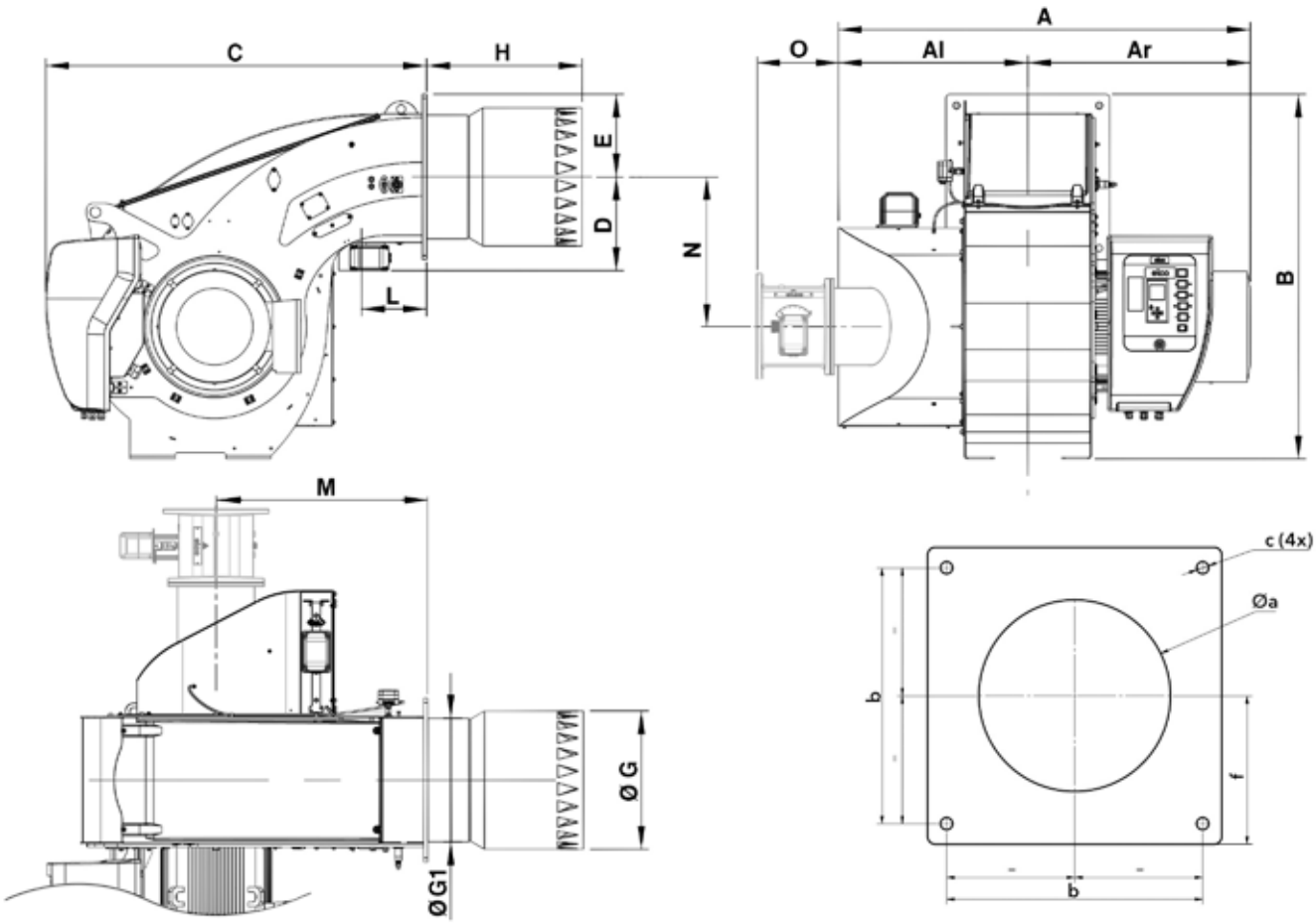
Model	Code
GT-s459-80	3750539
GT-s460-100	3750540
GT-s461-125	3750541
GT-s4...-150	on request

FILTERS

Model	Code
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209
FG-DN150	3757210

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 247

DIMENSIONS (mm)

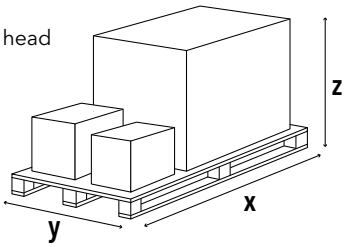


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	M*	N*	O*	Øa	b	c	f
										KN	KM	KL								
EK EVO 9.13000 G-EU3	1457	670	788	1291	1350	332	293	490	439	550	700	850	230	750	530	291	510-520	505	M20	293

*: in FGR configuration

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 9.13000 G-EU3	2300	1500	1573	700

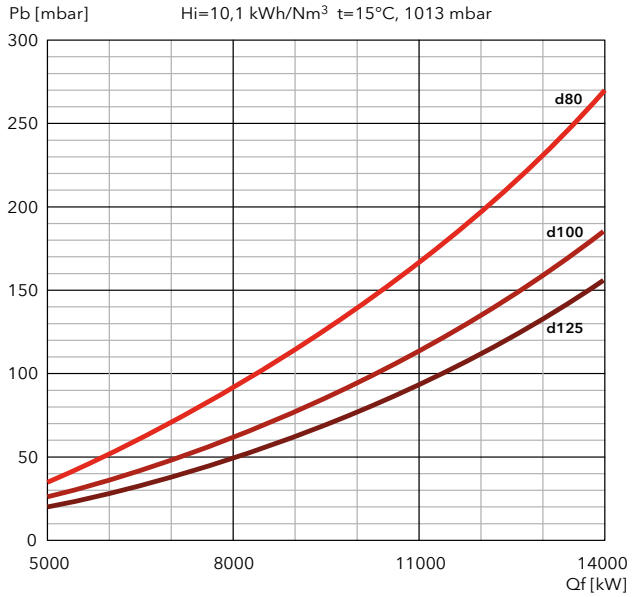
EK EVO 9 G-EU3

1350 ... 13500 kW
Two stage progressive/modulating electronic

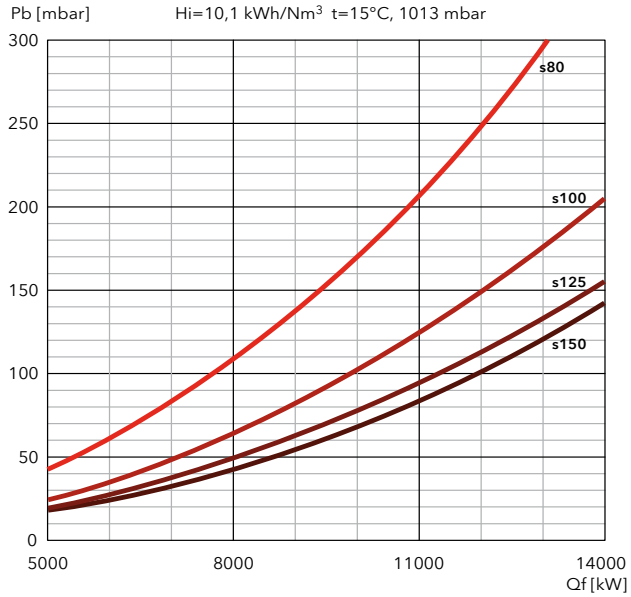
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 9.13000 G-EU3

DUNGS

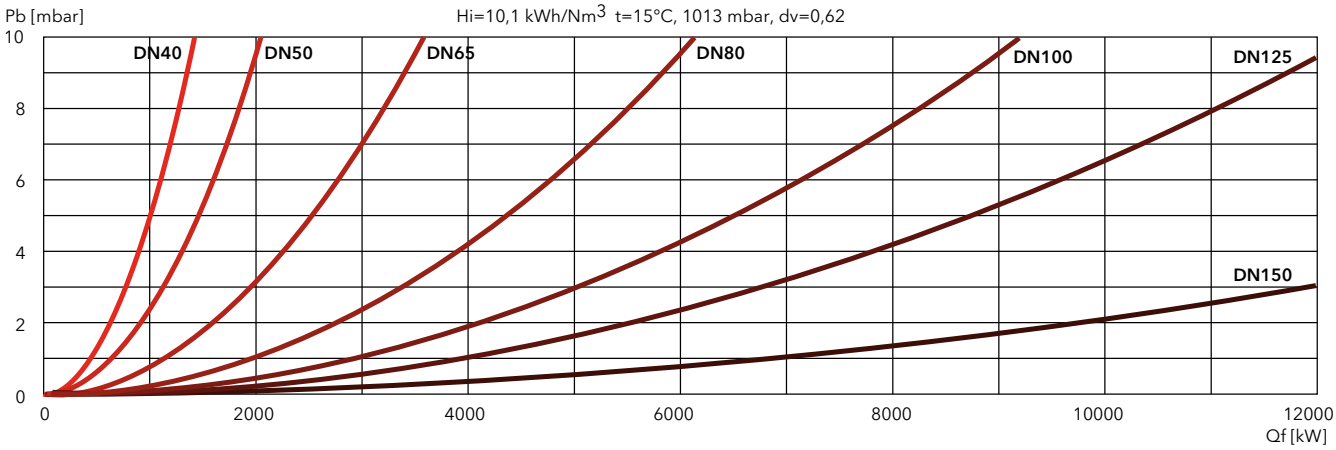


SIEMENS



PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

FILTERS



EK EVO

GAS

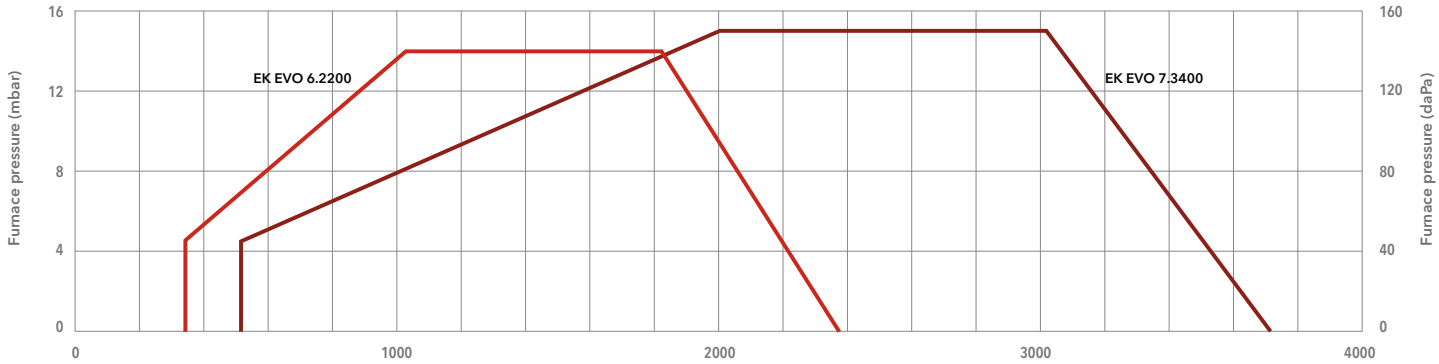
Low NOx Class 3

EK EVO 6 G-EU2N / EK EVO 7 G-EU2N

360 ... 3720 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 6.2200 G-EU2N	EK EVO 7.3400 G-EU2N
Operating range		360 – 2380 kW	530 – 3720 kW
Gas pressure		75 – 500 mbar (75 – 360 mbar for d452 and d453)	80 – 500 mbar (80 – 360 mbar for d452 and d453)
Gas connection		DN65	DN80
Control box / flame detector		BT300 / QRA 2	BT300 / QRA 2
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 4 kW	50 Hz – 7,5 kW
Acoustic level		<77 dB(A)	<83 dB(A)
CE certificate		0085CL0215	0085CL0215
Burner codes (body + head)	KN	**3754672**	**3754681**
	KM	**3754673**	**3754682**
	KL	**3754674**	**3754683**

GAS TRAINS

DUNGS

Model	Code
GT-d452-1"1/2 (*)	3750510
GT-d453-2" (*)	3750511
GT-d454-65	3750512
GT-d455-80	3750513
GT-d456-100	3750514

SIEMENS

Model	Code
GT-s451-1"1/2	3750525
GT-s452-2"	3750526
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529

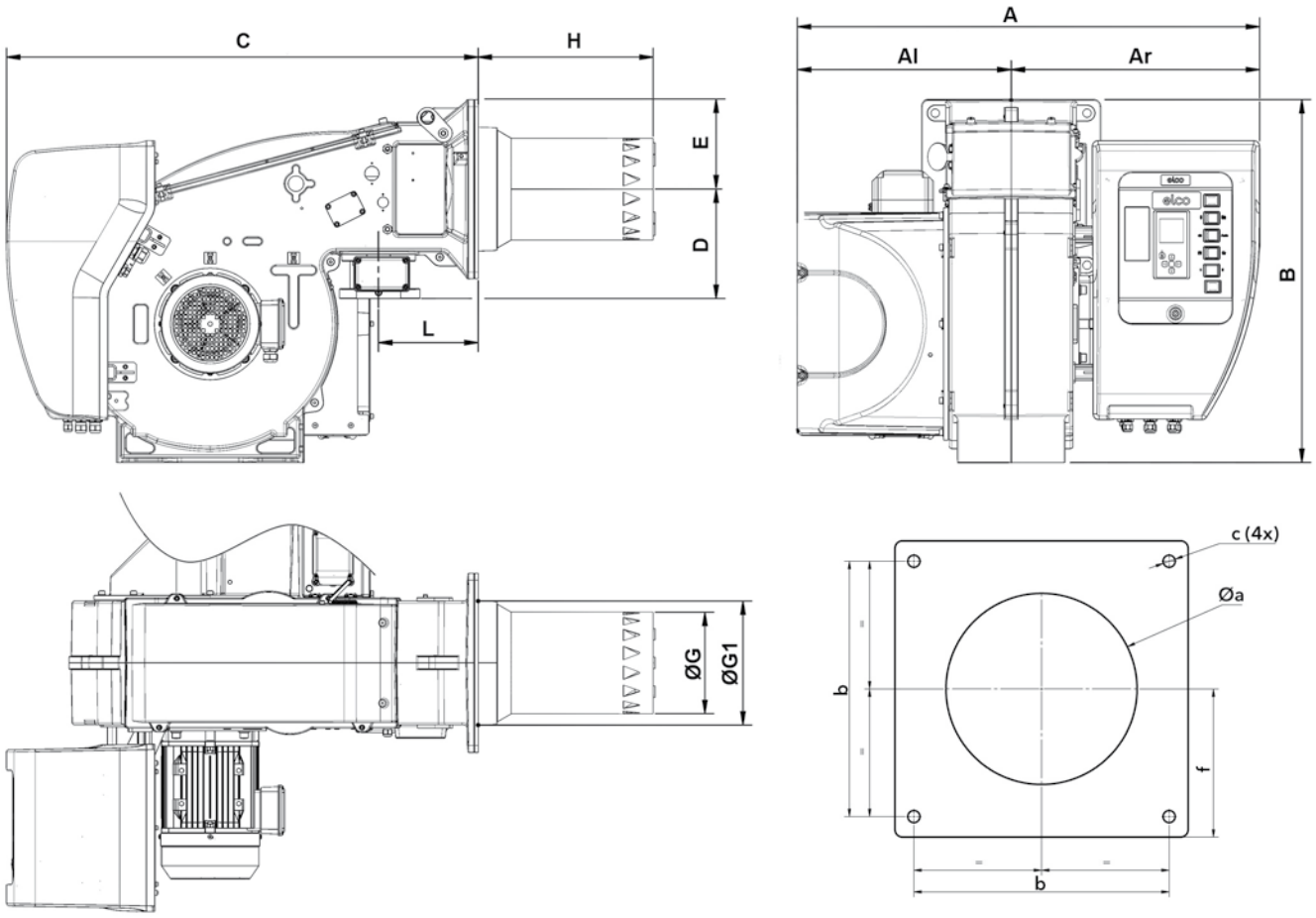
FILTERS

Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195

*: integrated filter

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 246

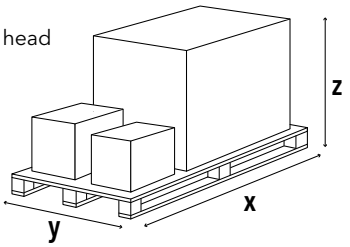
DIMENSIONS (mm)



Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Øa	b	c	f
										KN	KM	KL					
EK EVO 6.2200 G-EU2N	1035	479	556	812	1056	245	200	227	277	392	512	632	223	300-340	340	M16	200
EK EVO 7.3400 G-EU2N	1106	510	597	941	1130	276	235	263	343	412	542	672	233	360-400	400	M16	235

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 6.2200 G-EU2N	2046	1414	1233	300
EK EVO 7.3400 G-EU2N	2046	1414	1233	350

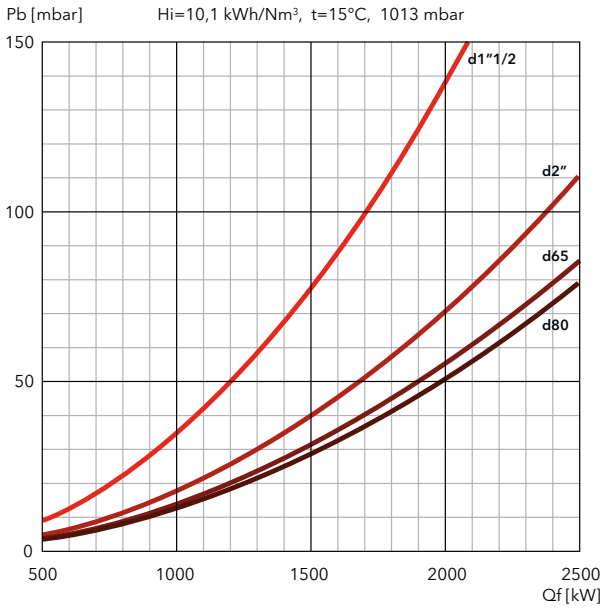
EK EVO 6 G-EU2N / EK EVO 7 G-EU2N

360 ... 3720 kW
Two stage progressive/modulating electronic

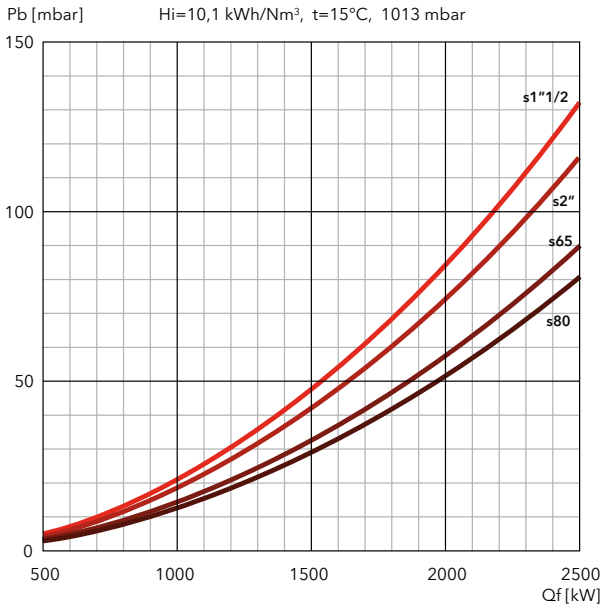
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 6.2200 G-EU2N

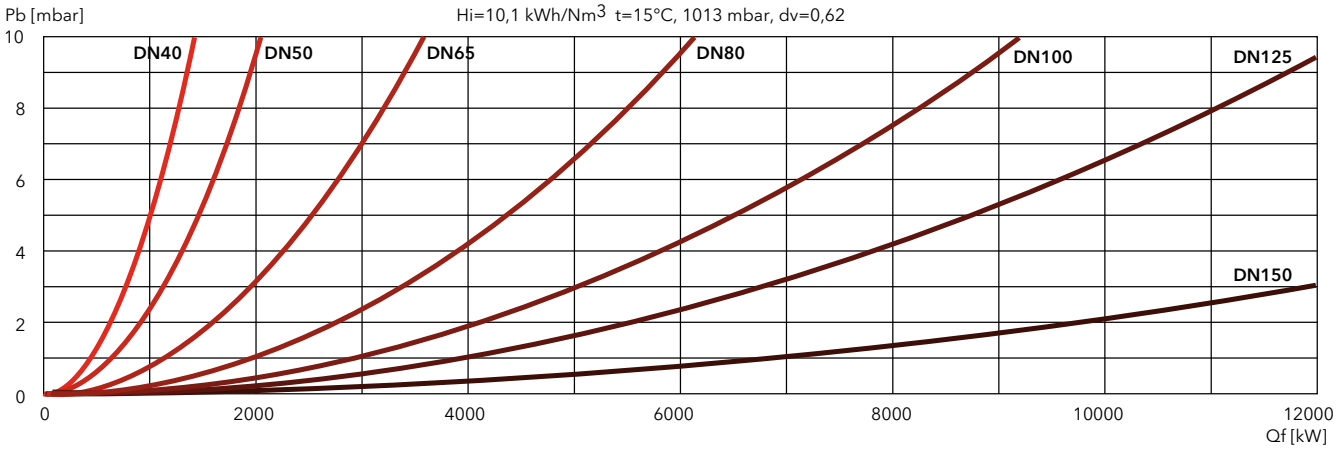
DUNGS



SIEMENS



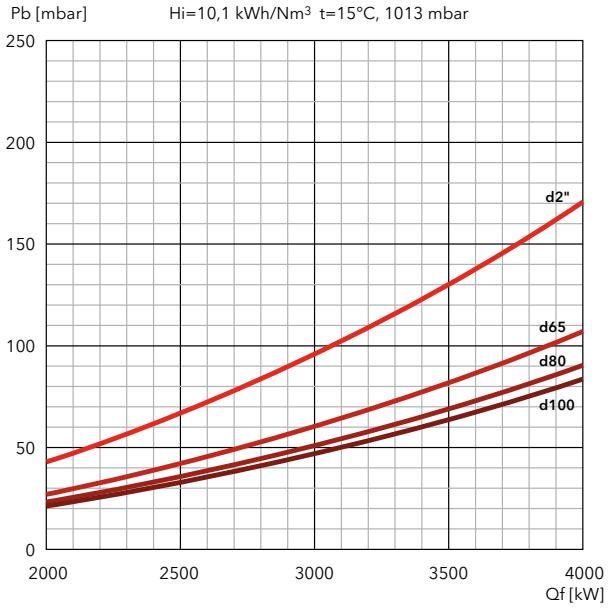
FILTERS



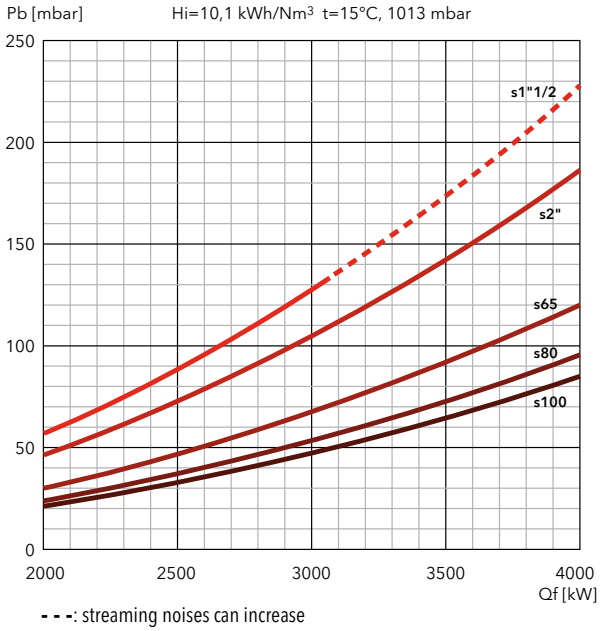
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 7.3400 G-EU2N

DUNGS

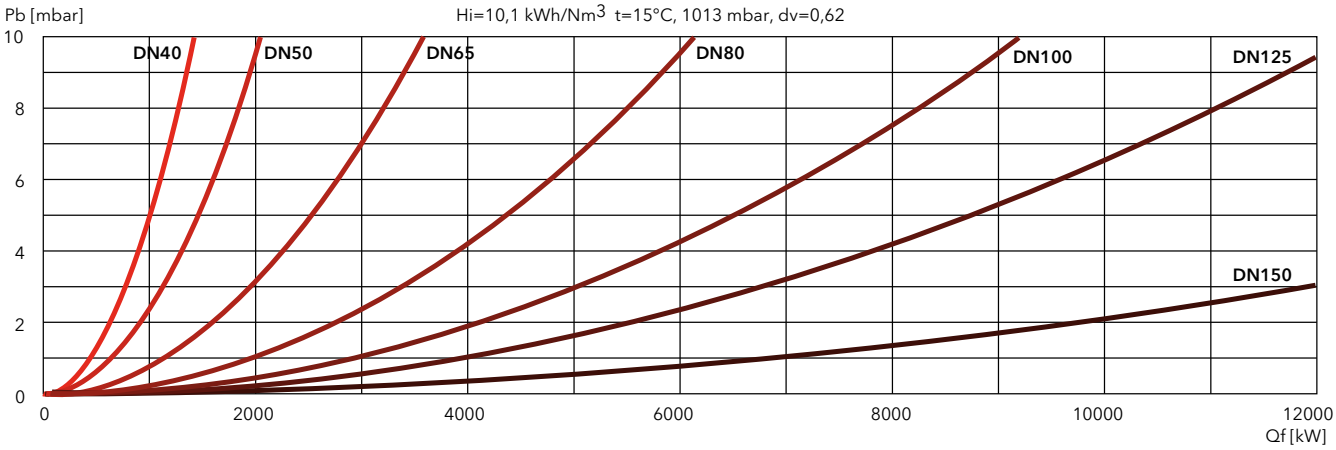


SIEMENS



- - -: streaming noises can increase

FILTERS



EK EVO

GAS

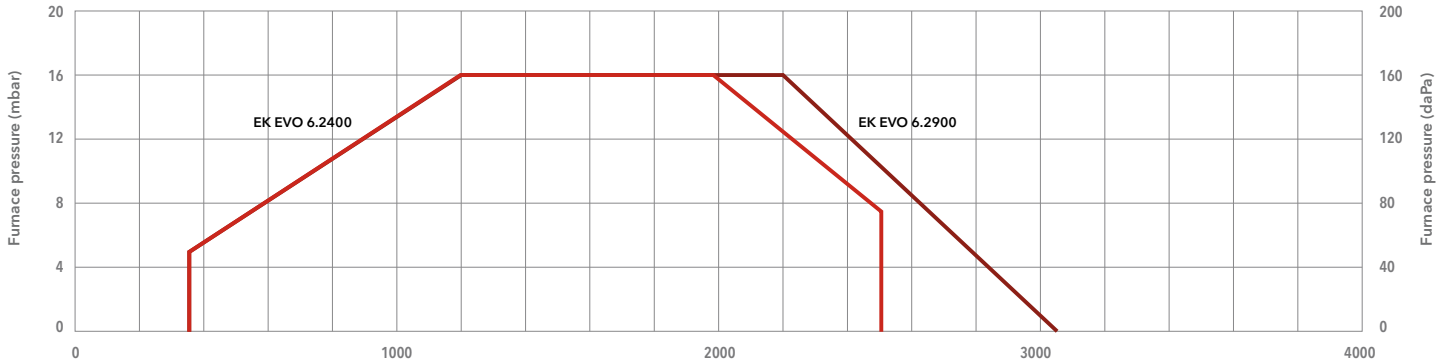
Low NOx Class 3

EK EVO 6 G-EU2

365 ... 3050 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
  Version with FGR System (≤30 mg/kWh) available on request
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 6.2400 G-EU2	EK EVO 6.2900 G-EU2
Operating range		365 – 2530 kW	365 – 3050 kW
Gas pressure		55 – 500 mbar (55 – 360 mbar for d452 and d453)	75 – 500 mbar (75 – 360 mbar for d452 and d453)
Gas connection		DN65	DN65
Control box / flame detector		BT300 / QRA 2	BT300 / QRA 2
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 3 kW	50 Hz – 4 kW
Acoustic level		<74 dB(A)	<77 dB(A)
CE certificate		0085CL0215	0085CL0215
Burner codes (body + head)	KN	**on request**	**on request**
	KM	**on request**	**on request**
	KL	**on request**	**on request**

GAS TRAINS

DUNGS

Model	Code
GT-d452-1"1/2 (*)	3750510
GT-d453-2" (*)	3750511
GT-d454-65	3750512
GT-d455-80	3750513

*: integrated filter

SIEMENS

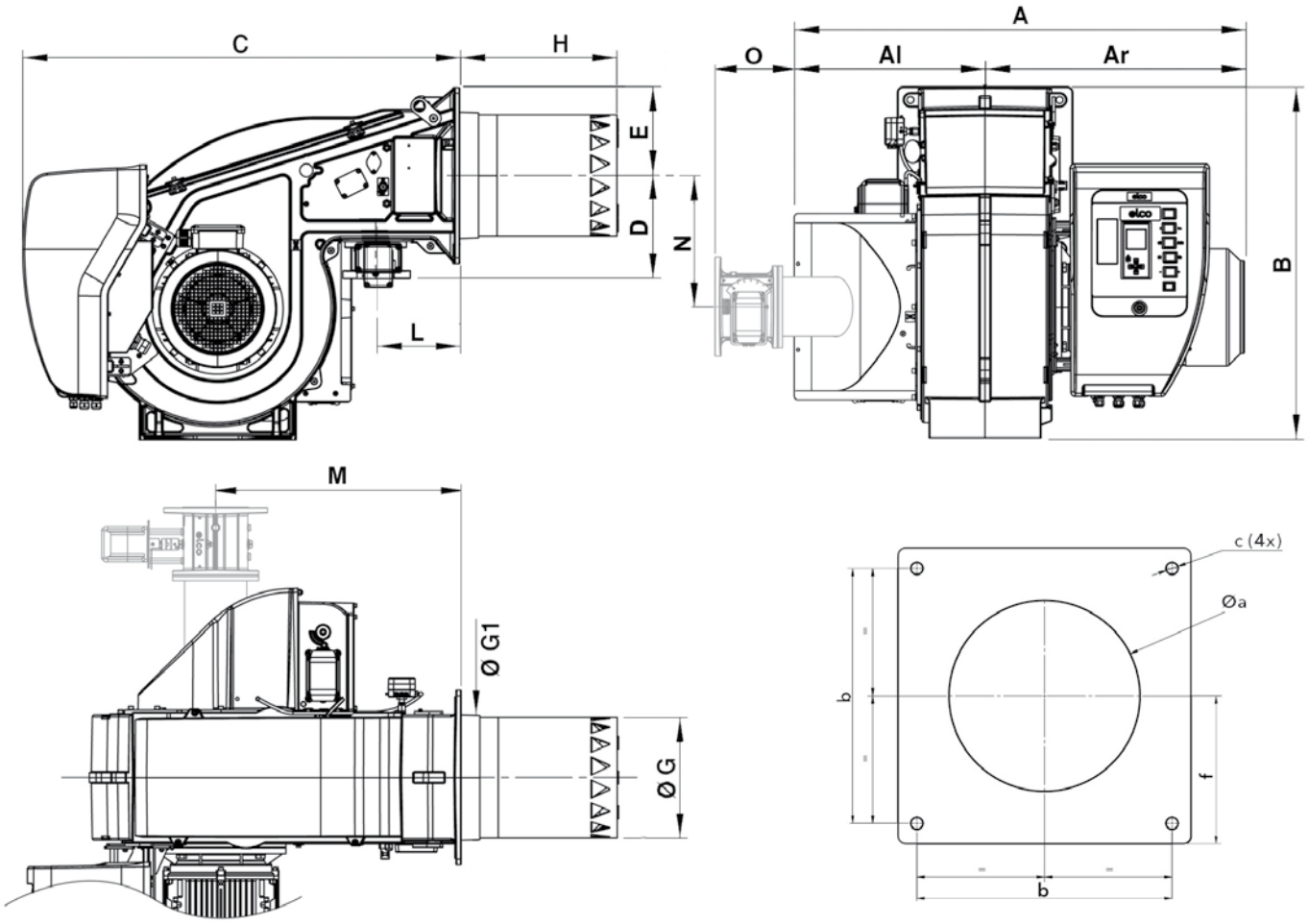
Model	Code
GT-s451-1"1/2	3750525
GT-s452-2"	3750526
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529

FILTERS

Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 246

DIMENSIONS (mm)

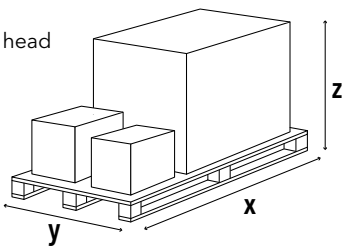


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	M*	N*	O*	Øa	b	c	f
										KN	KM	KL								
EK EVO 6... G-EU2	1035	479	556	812	1048	245	200	263	277	392	512	632	223	600	302	218	300-340	340	M16	200

*: in FGR configuration

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 6.2400 G-EU2	2046	1414	1233	300
EK EVO 6.2900 G-EU2	2046	1414	1233	350

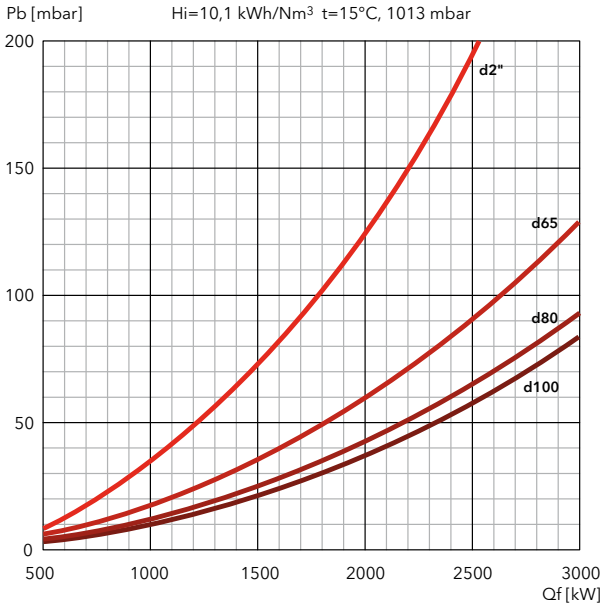
EK EVO 6 G-EU2

365 ... 3050 kW
Two stage progressive/modulating electronic

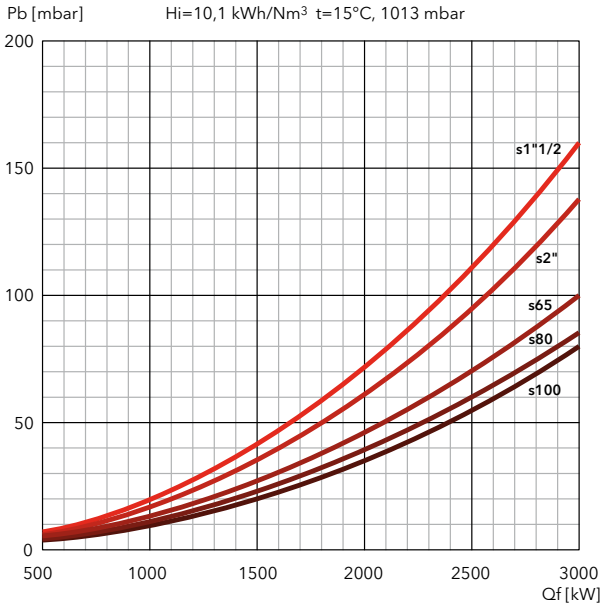
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 6.2400 G-EU2

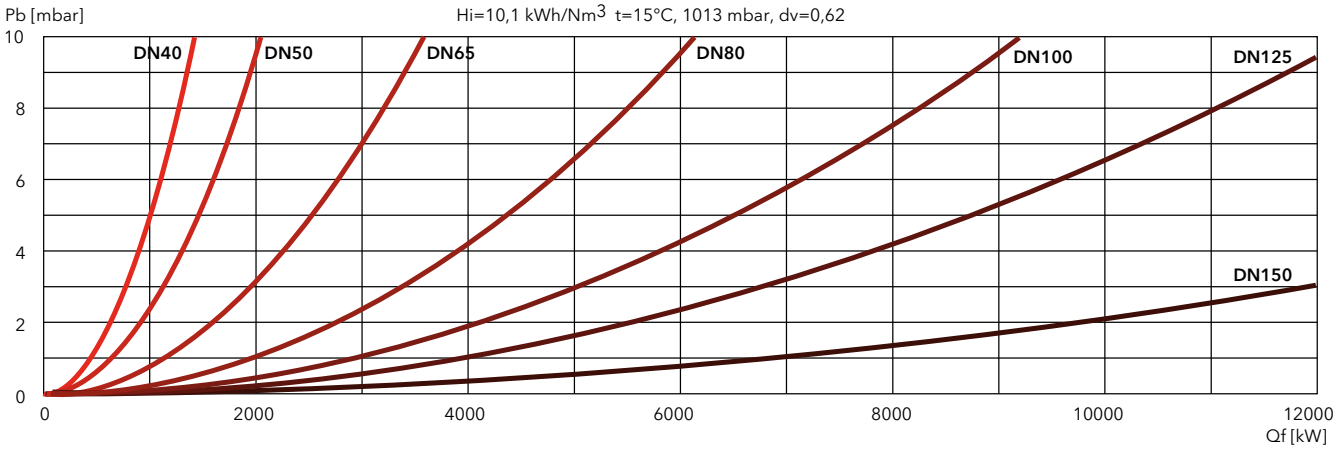
DUNGS



SIEMENS



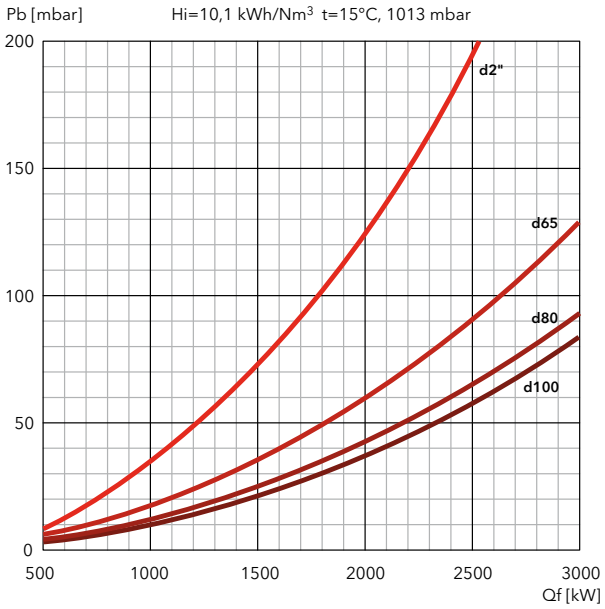
FILTERS



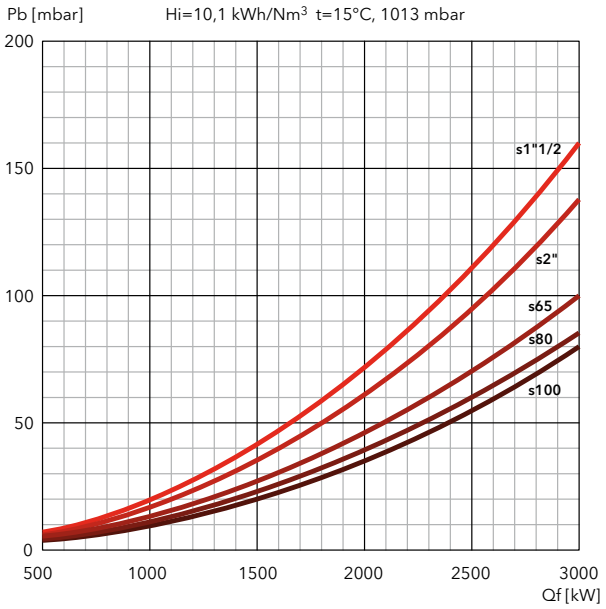
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 6.2900 G-EU2

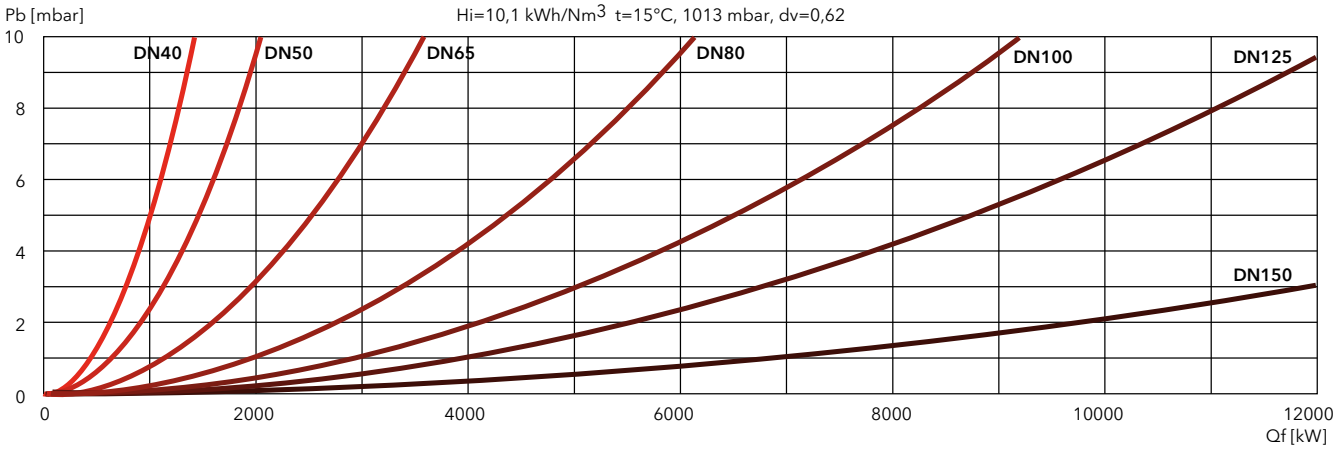
DUNGS



SIEMENS



FILTERS



EK EVO

GAS

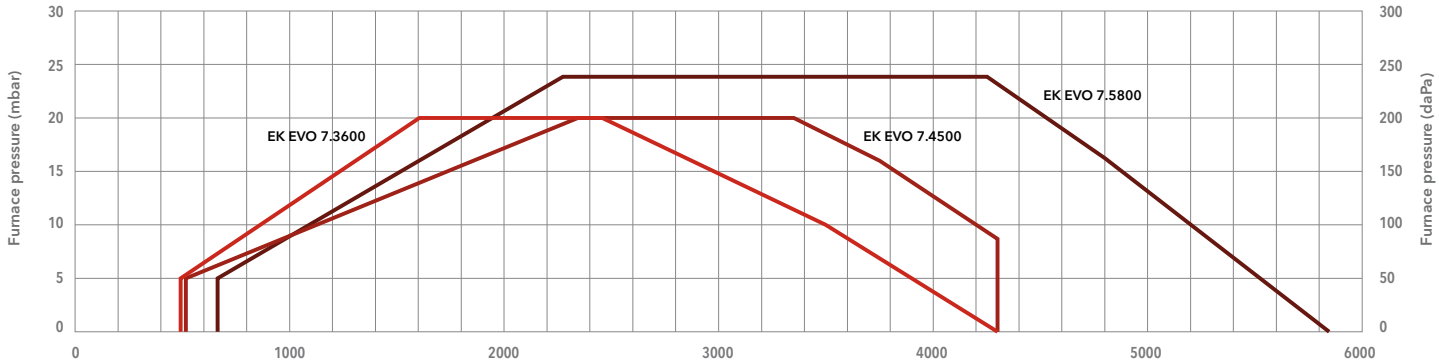
Low NOx Class 3

EK EVO 7 G-EU2

490 ... 5850 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
  Version with FGR System (≤30 mg/kWh) available on request
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 7.3600 G-EU2	EK EVO 7.4500 G-EU2	EK EVO 7.5800 G-EU2
Operating range		490 – 4290 kW	510 – 4290 kW	630 – 5850 kW
Gas pressure		75 – 500 mbar (75 – 360 mbar for d453)	75 – 500 mbar (75 – 360 mbar for d453)	105 – 500 mbar (105 – 360 mbar for d453)
Gas connection		DN65	DN65	DN65
Control box / flame detector		BT300 / QRA2	BT300 / QRA2	BT300 / QRA2
Auxiliary voltage		1NPE AC 230 V – 50 Hz	1NPE AC 230 V – 50 Hz	1NPE AC 230 V – 50 Hz
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 5,5 kW	50 Hz – 7,5 kW	50 Hz – 15 kW
Acoustic level		<81 dB(A)	<83 dB(A)	<85 dB(A)
CE certificate		0085CL0215	0085CL0215	0085CL0215
Burner codes (body + head)	KN	**on request**	**on request**	**3755338**
	KM	**on request**	**on request**	**3755339**
	KL	**on request**	**on request**	**3755340**

GAS TRAINS

DUNGS

Model	Code
GT-d453-2" (*)	3750511
GT-d454-65	3750512
GT-d455-80	3750513
GT-d456-100	3750514

*: integrated filter

SIEMENS

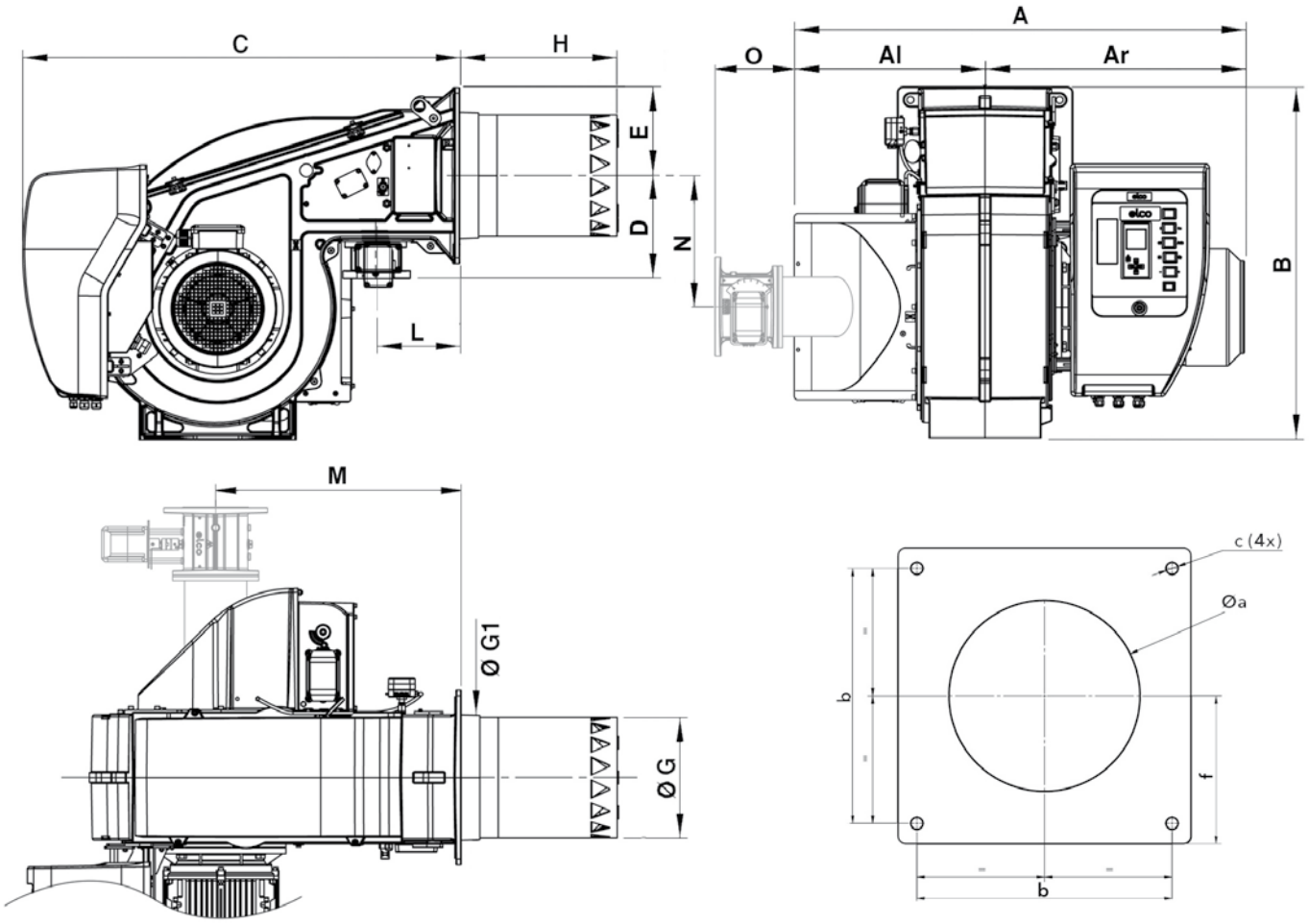
Model	Code
GT-s451-1"1/2	3750525
GT-s452-2"	3750526
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529
GT-s456-125	3750530

FILTERS

Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 246

DIMENSIONS (mm)

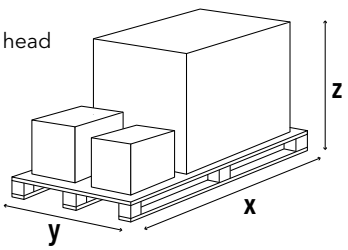


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	M*	N*	O*	Øa	b	c	f
										KN	KM	KL								
EK EVO 7.3600/4500	1107	510	597	941	1122	276	235	325	343	412	542	672	233	655	356	218	360-400	400	M16	235
EK EVO 7.5800	1205	510	695	941	1168	276	235	325	343	412	542	672	233	655	356	255	360-400	400	M16	235

*: in FGR configuration

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 7.3600 G-EU2	2046	1414	1233	350
EK EVO 7.4500 G-EU2	2046	1414	1233	350
EK EVO 7.5800 G-EU2	2046	1414	1233	350

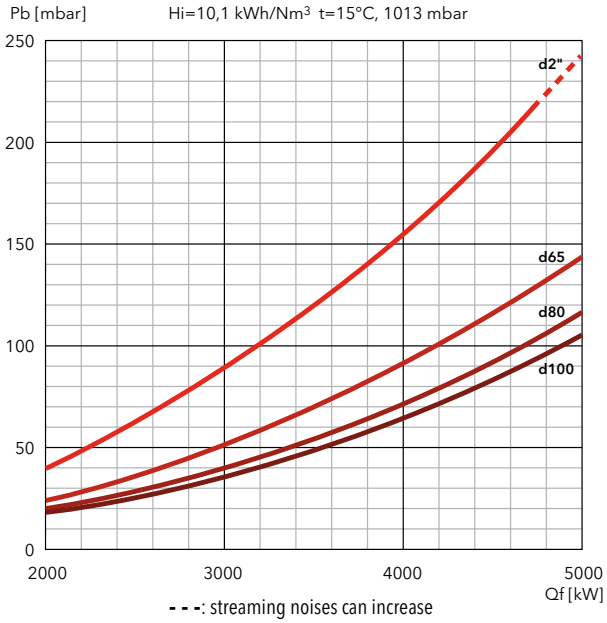
EK EVO 7 G-EU2

630 ... 5850 kW
Two stage progressive/modulating electronic

PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

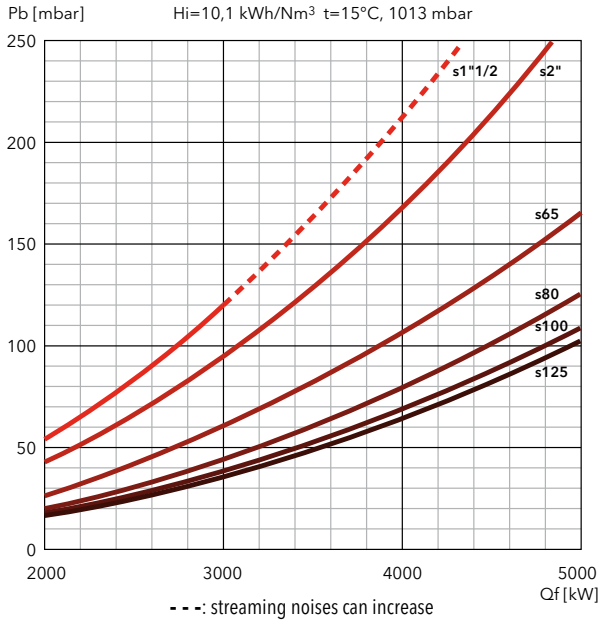
EK EVO 7.3600 G-EU2

DUNGS



- - -: streaming noises can increase

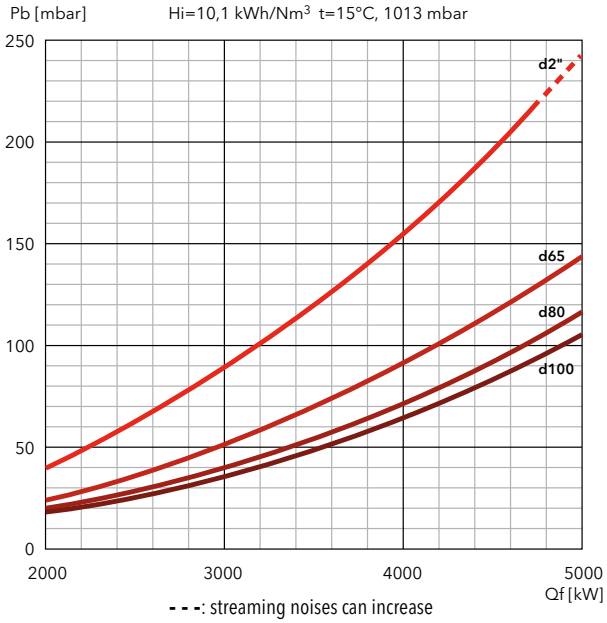
SIEMENS



- - -: streaming noises can increase

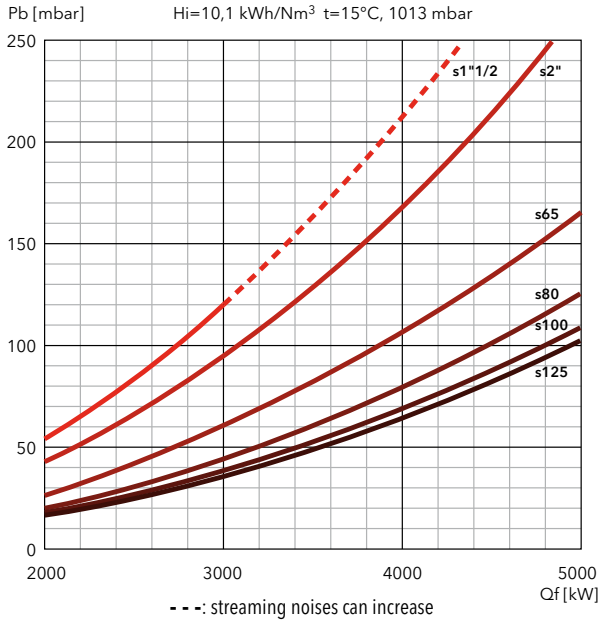
EK EVO 7.4500 G-EU2

DUNGS



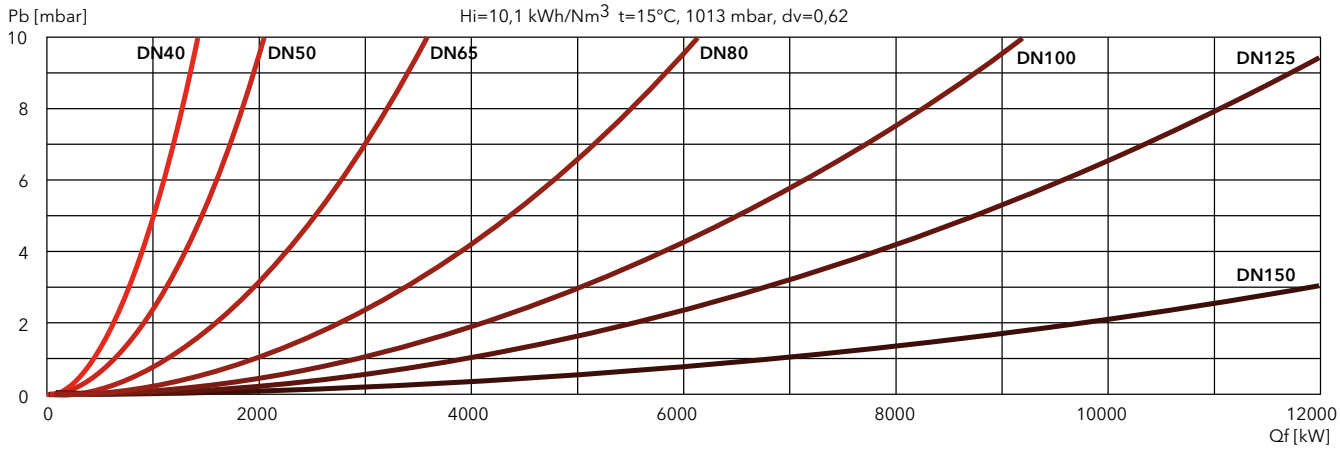
- - -: streaming noises can increase

SIEMENS



- - -: streaming noises can increase

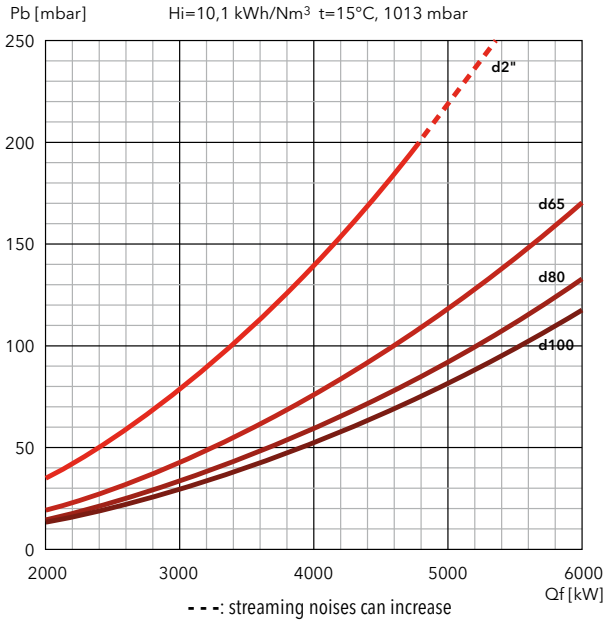
FILTERS



PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

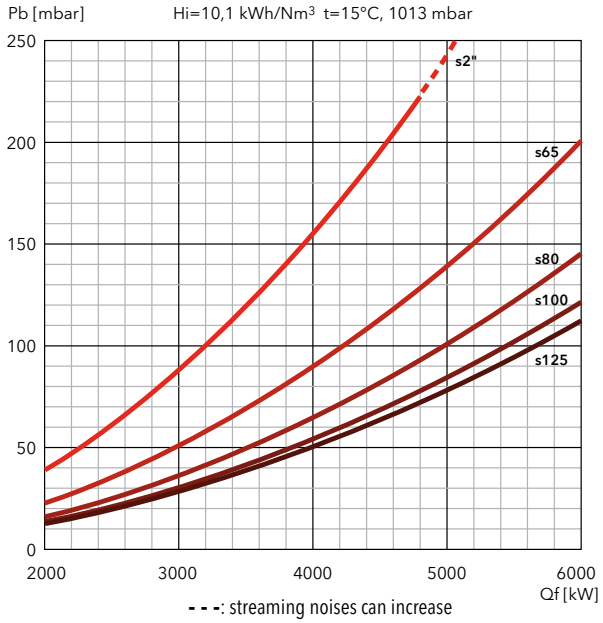
EK EVO 7.5800 G-EU2

DUNGS



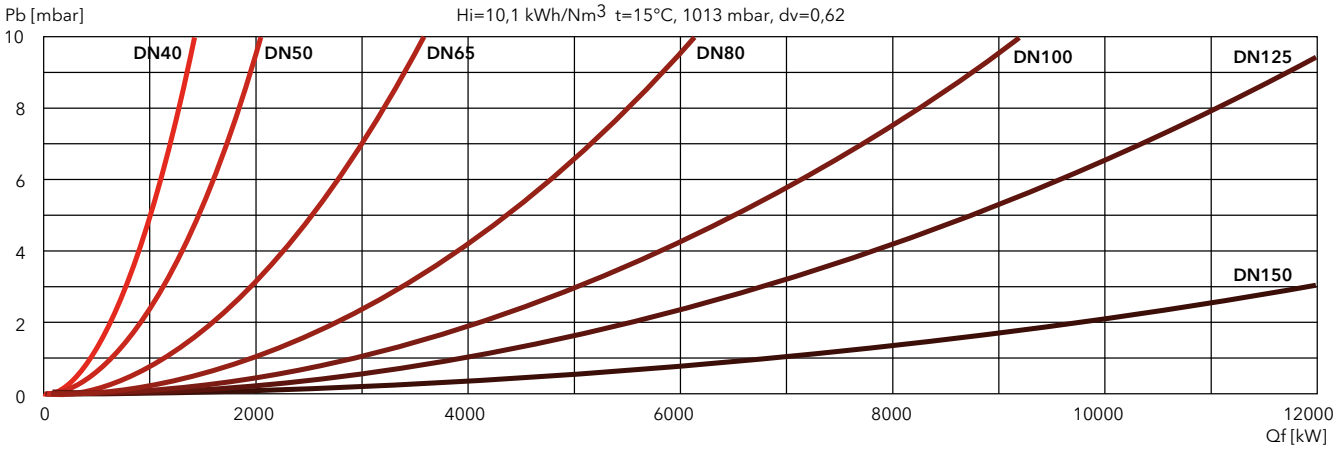
- - -: streaming noises can increase

SIEMENS



- - -: streaming noises can increase

FILTERS



EK EVO

GAS

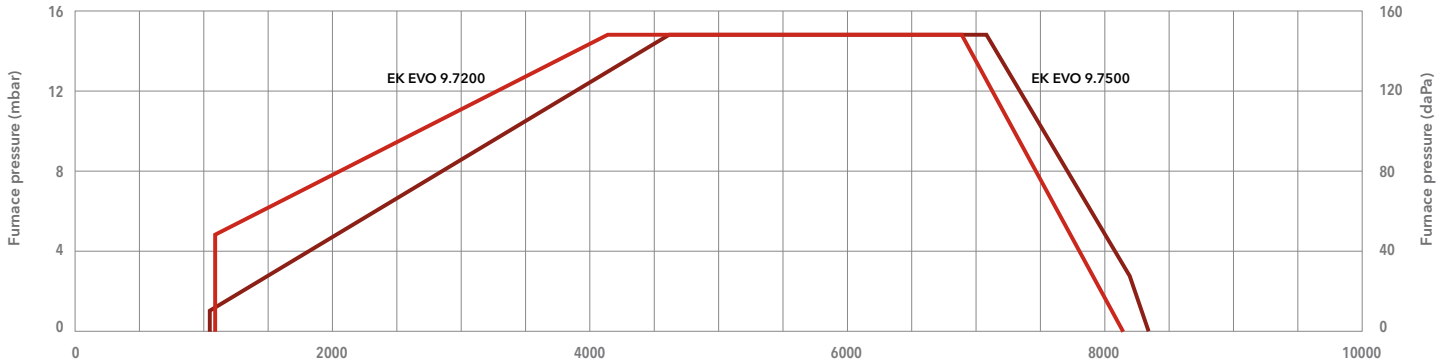
Low NOx Class 3

EK EVO 9 G-EU2N

1050 … 8300 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 … 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 9.7200 G-EU2N	EK EVO 9.7500 G-EU2N
Operating range		1070 – 8020 kW	1050 – 8300 kW
Gas pressure		150 – 500 mbar	120 – 500 mbar
Gas connection		DN100	DN100
Control box / flame detector		BT300 / QRA 2	BT300 / QRA 2
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 22 kW	50 Hz – 22 kW
Acoustic level		<86 dB(A)	<86 dB(A)
CE certificate		0085CL0215	0085CL0215
Burner codes (body + head)	KN	**3754690**	**3754699**
	KM	**3754691**	**3754700**
	KL	**3754692**	**3754701**

GAS TRAINS

DUNGS

Model	Code
GT-d454-65	3750512
GT-d455-80	3750513
GT-d456-100	3750514
GT-d457-125	on request

SIEMENS

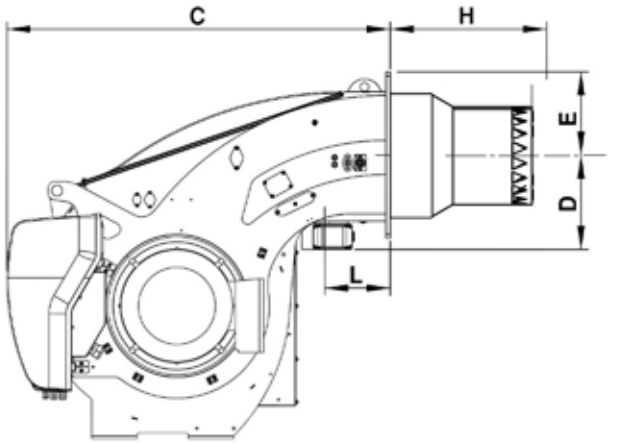
Model	Code
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529
GT-s456-125	3750530

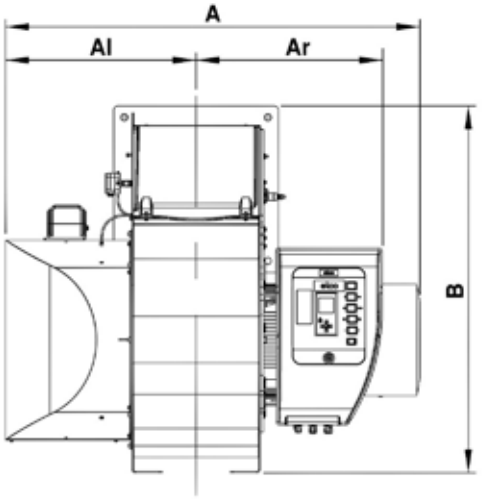
FILTERS

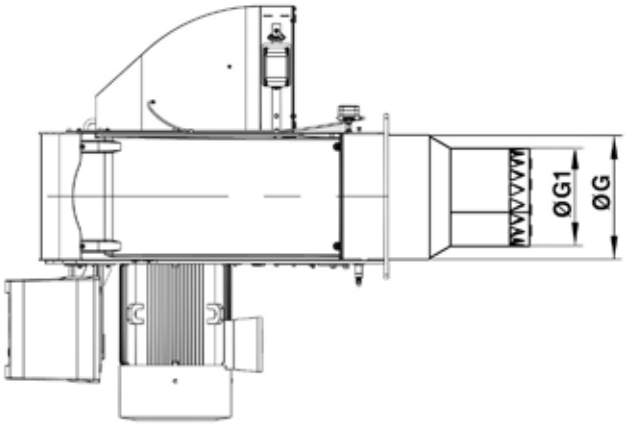
Model	Code
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

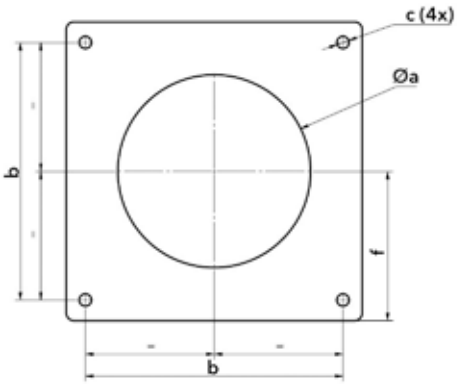
Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 247

DIMENSIONS (mm)





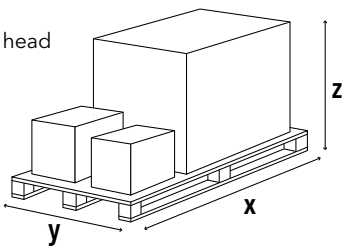




Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Øa	b	c	f
										KN	KM	KL					
EK EVO 9.7200 G-EU2N	1400	670	653	1291	1353	332	293	439	346	500	640	780	230	460-480	505	M20	293
EK EVO 9.7500 G-EU2N	1400	670	653	1291	1353	332	293	439	369	550	700	850	230	460-480	505	M20	293

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 9.7200 G-EU2N	2300	1500	1573	700
EK EVO 9.7500 G-EU2N	2300	1500	1573	700

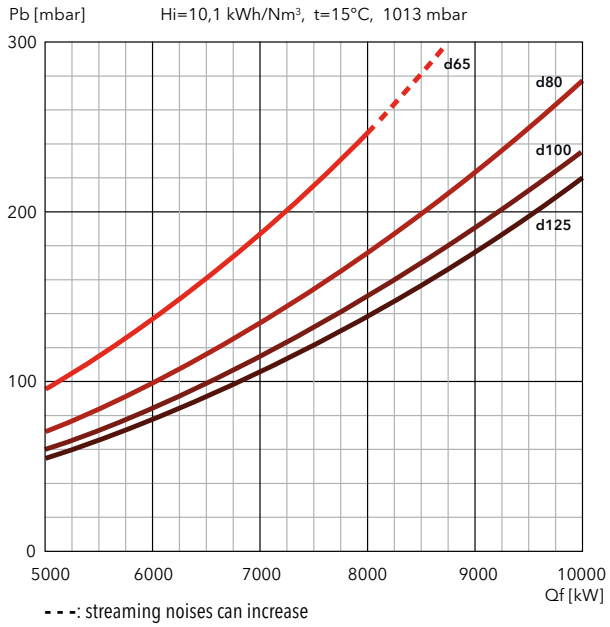
EK EVO 9 G-EU2N

1050 ... 8300 kW
Two stage progressive/modulating electronic

PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

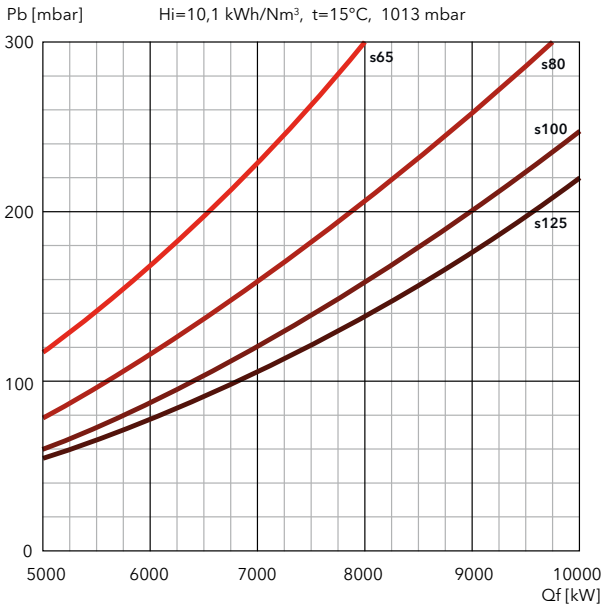
EK EVO 9.7200 G-EU2N

DUNGS

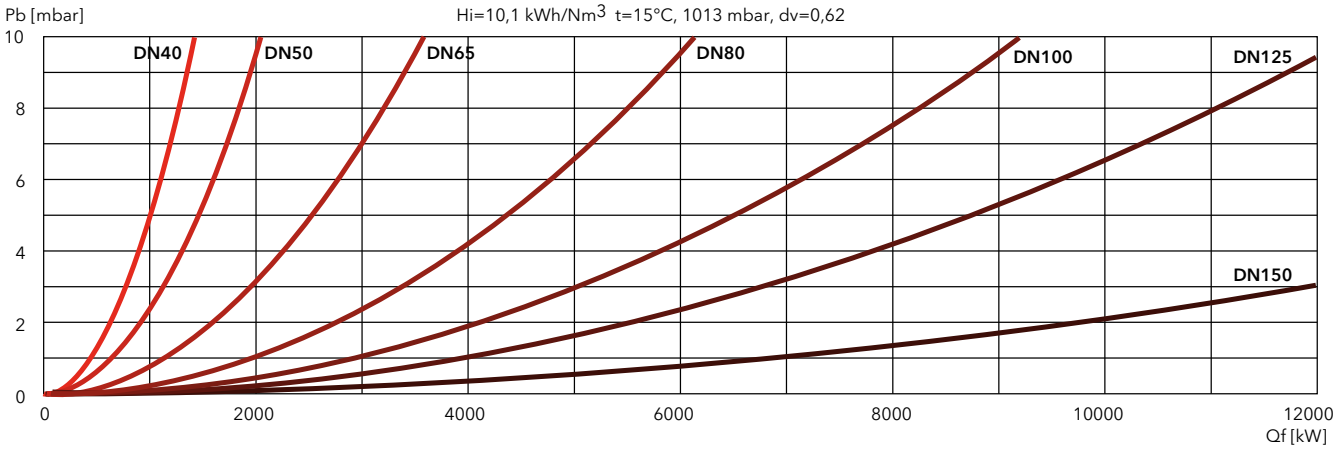


- - -: streaming noises can increase

SIEMENS



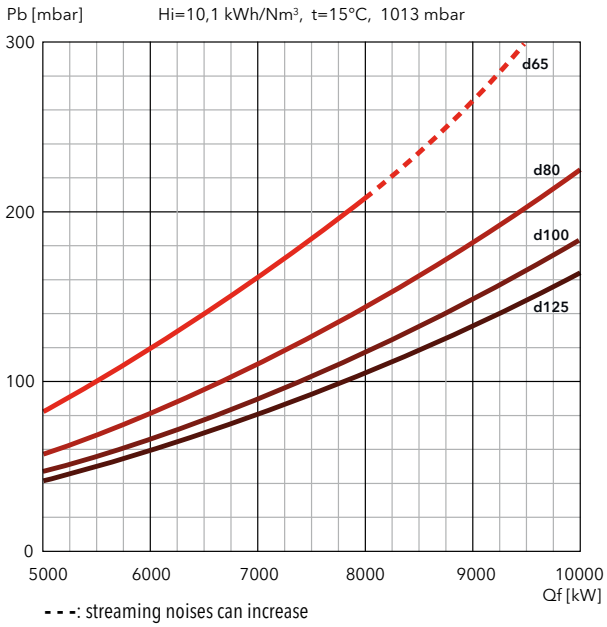
FILTERS



PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

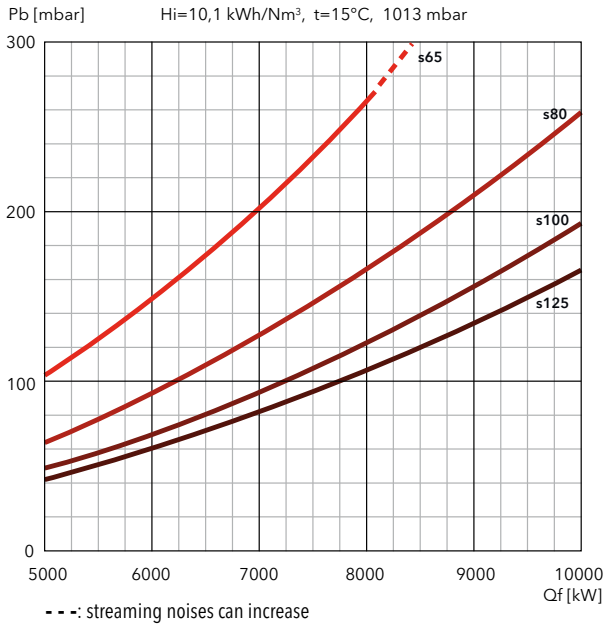
EK EVO 9.7500 G-EU2N

DUNGS



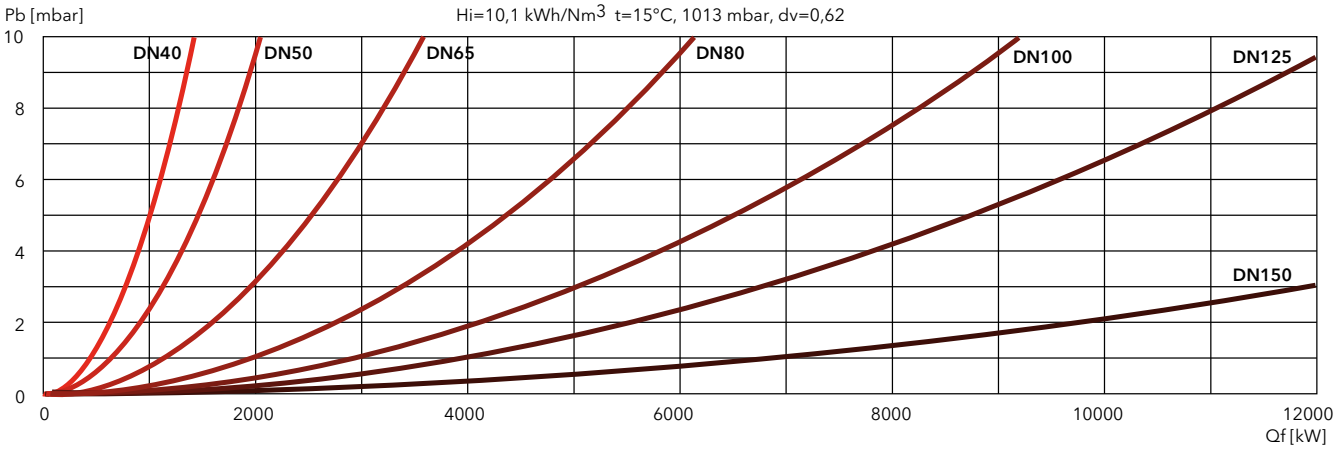
- - -: streaming noises can increase

SIEMENS



- - -: streaming noises can increase

FILTERS



EK EVO

GAS

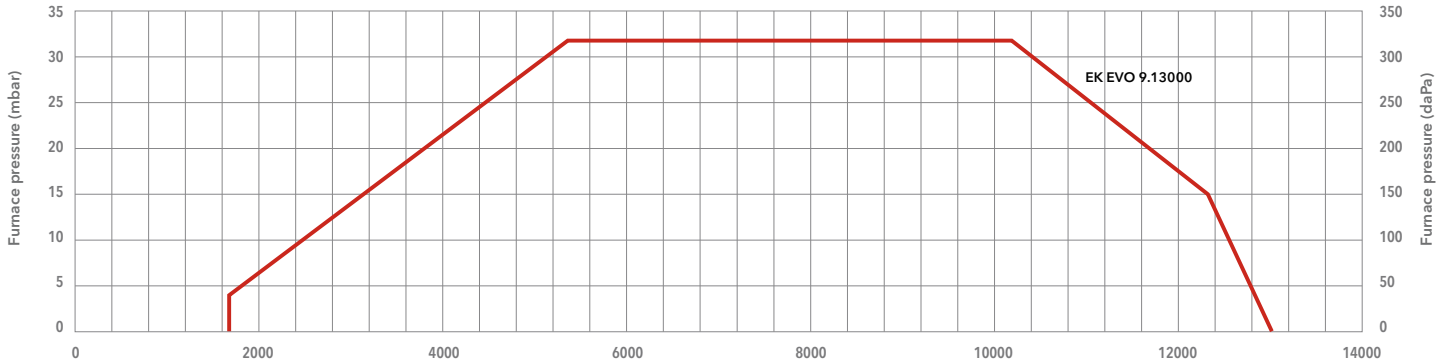
Low NOx Class 3

EK EVO 9 G-EU2

1700 ... 13000 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
  Version with FGR System (≤30 mg/kWh) available on request
- **Protection level:** IP 41

TECHNICAL DATA



		EK EVO 9.13000 G-EU2
Operating range		1700 – 13000 kW
Gas pressure		170 – 500 mbar
Gas connection		DN100
Control box / flame detector		BT300 / QRA2
Auxiliary voltage		1NPE AC 230 V – 50/60 Hz
Power supply		3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 37 kW
Acoustic level		<92 dB(A)
CE certificate		0085CL0215
Burner codes (body + head)	KN	**3755498**
	KM	**3755499**
	KL	**3755500**

GAS TRAINS

DUNGS

Model	Code
GT-d459-80	3750517
GT-d460-100	3750518
GT-d4...-125	on request

SIEMENS

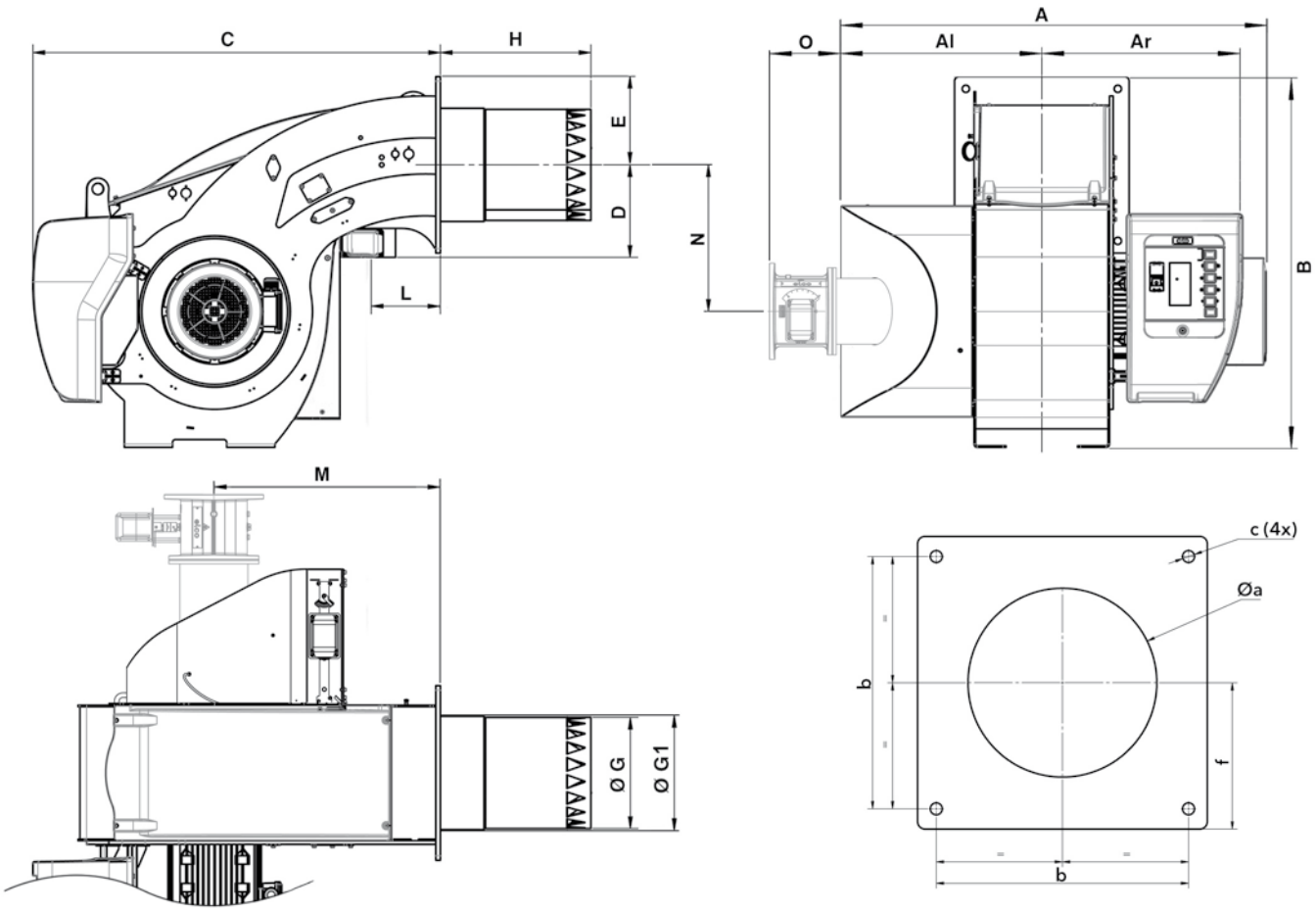
Model	Code
GT-s459-80	3750539
GT-s460-100	3750540
GT-s461-125	3750541
GT-s4...-150	on request

FILTERS

Model	Code
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209
FG-DN150	3757210

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 247

DIMENSIONS (mm)

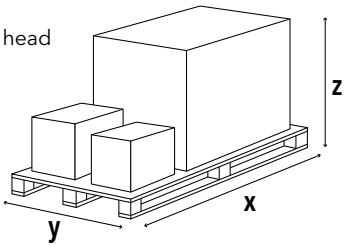


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	M*	N*	O*	Øa	b	c	f
										KN	KM	KL								
EK EVO 9.13000 G-EU2	1457	670	788	1291	1348	332	293	432	439	550	700	850	230	750	530	291	460-480	505	M20	293

*: in FGR configuration

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 9.13000 G-EU2	2300	1500	1573	700

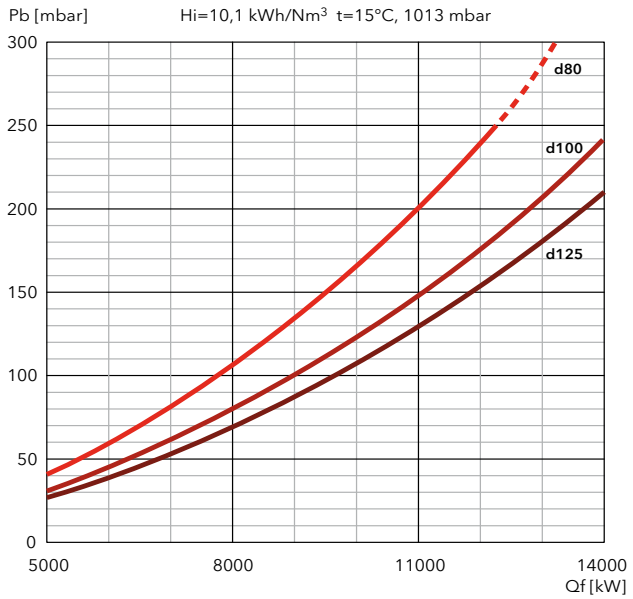
EK EVO 9 G-EU2

1700 ... 13000 kW
Two stage progressive/modulating electronic

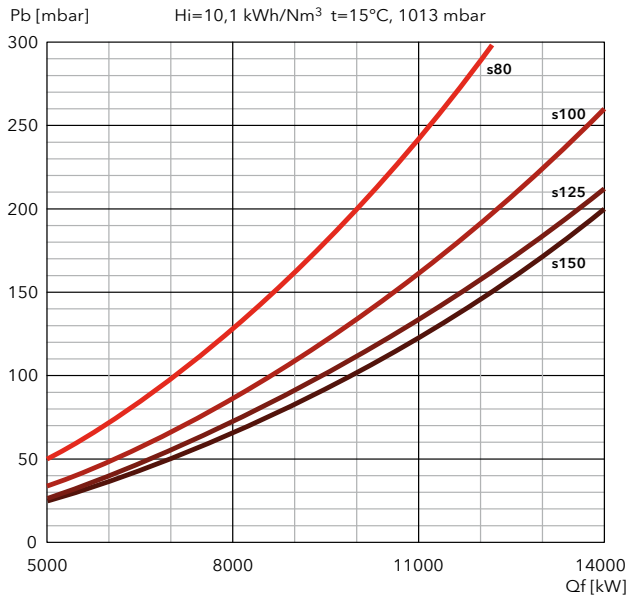
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 9.13000 G-EU2

DUNGS

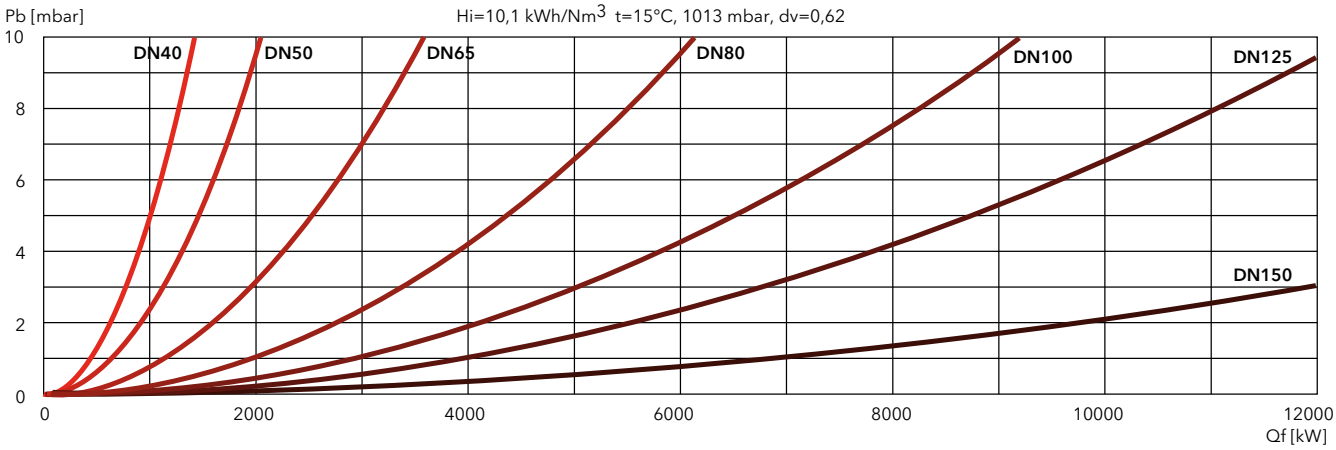


SIEMENS



PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

FILTERS



EK EVO

GAS

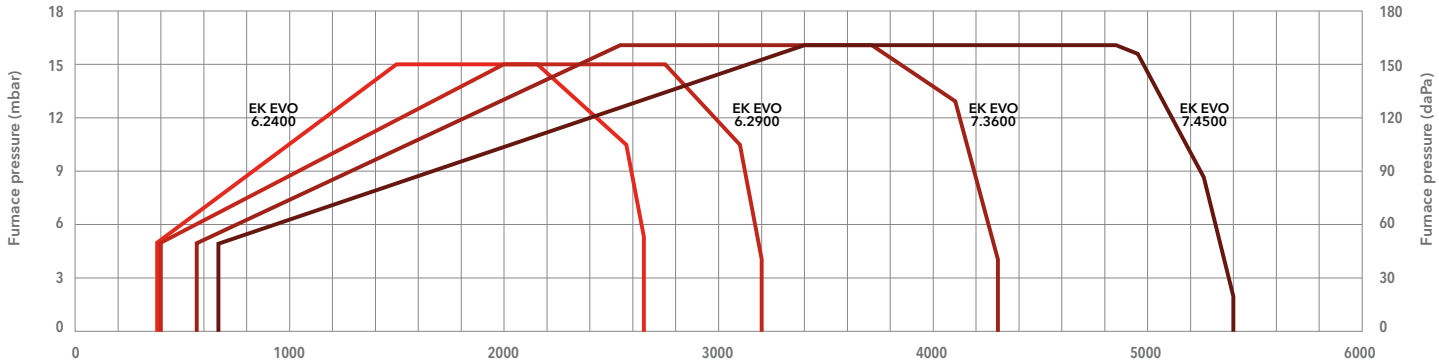
Low NOx Class 2

EK EVO 6 G-E / EK EVO 7 G-E

390 ... 5400 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 2 (≤120 mg/kWh) according to EN676
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 6.2400 G-E	EK EVO 6.2900 G-E	EK EVO 7.3600 G-E	EK EVO 7.4500 G-E
Operating range		390 – 2650 kW	400 – 3200 kW	580 – 4300 kW	680 – 5400 kW
Gas pressure		50 – 500 mbar (max 360 mbar for d452 and d453 gas train)	55 – 500 mbar (max 360 mbar for d452 and d453 gas train)	60 – 500 mbar (max 360 mbar for d452 and d453 gas train)	65 – 500 mbar (max 360 mbar for d452 and d453 gas train)
Gas connection		DN65	DN65	DN65	DN65
Control box / flame detector		BT300 / Ionisation	BT300 / Ionisation	BT300 / Ionisation	BT300 / Ionisation
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 3 kW	50 Hz – 4 kW	50 Hz – 5,5 kW	50 Hz – 7,5 kW
Acoustic level		<75 dB(A)	<77 dB(A)	<81 dB(A)	<82,5 dB(A)
CE certificate		0085CL0215	0085CL0215	0085CL0215	0085CL0215
Burner codes (body + head)	**KN**	**3752745**	**3752746**	**3752747**	**3752748**
	KM	**3752749**	**3752750**	**3752751**	**3752752**
	KL	**3752753**	**3752754**	**3752755**	**3752756**

GAS TRAINS

DUNGS

Model	Code
GT-d452-1"1/2 (*)	3750510
GT-d453-2" (*)	3750511
GT-d454-65	3750512
GT-d455-80	3750513
GT-d456-100	3750514

*: integrated filter

SIEMENS

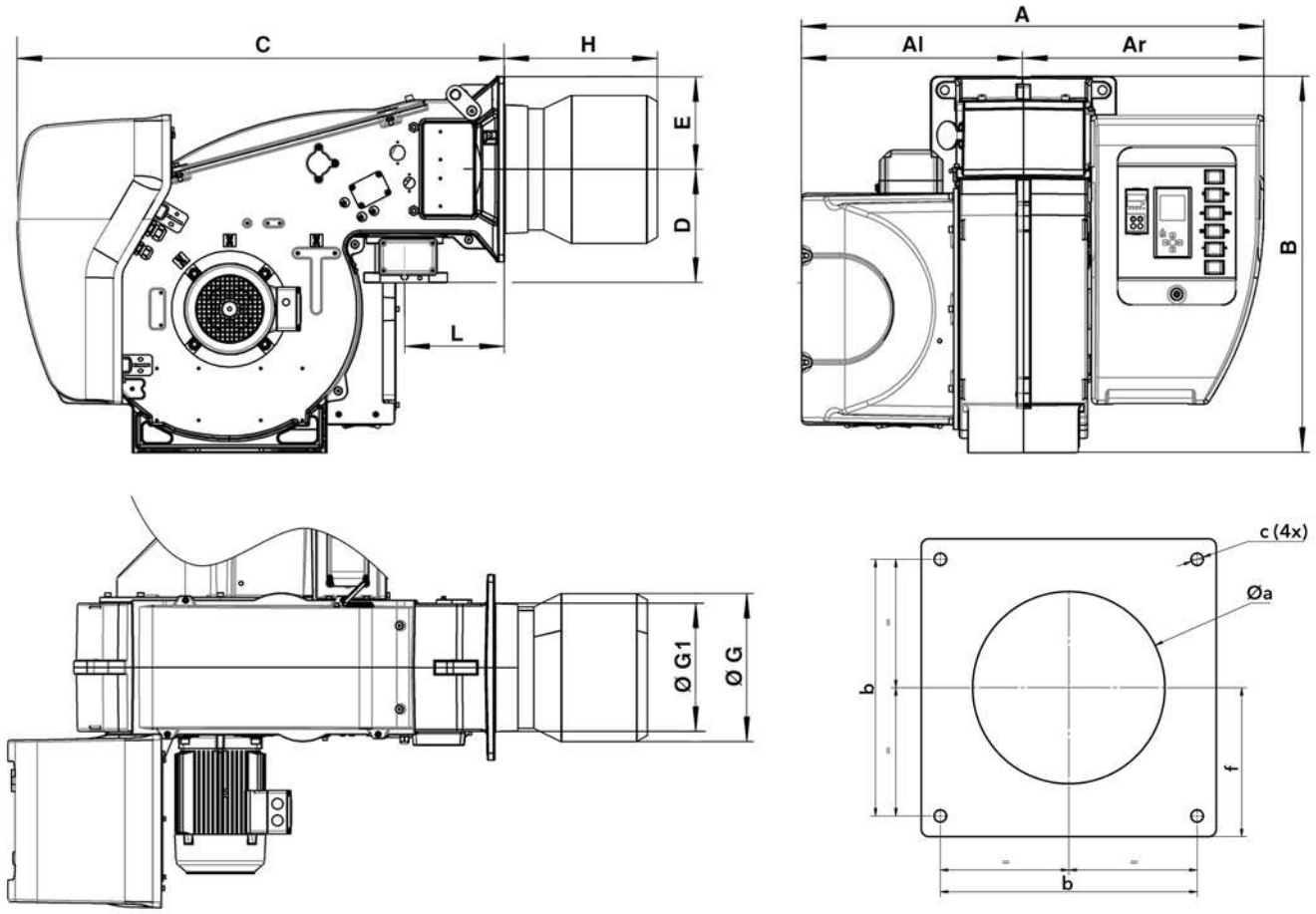
Model	Code
GT-s451-1"1/2	3750525
GT-s452-2"	3750526
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529
GT-s456-125	3750530

FILTERS

Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 246

DIMENSIONS (mm)

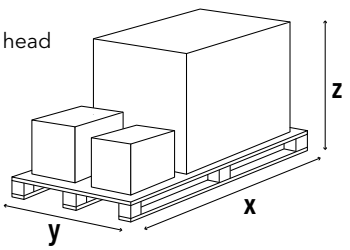


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L
										KN	KM	KL	
EK EVO 6... G-E	1035	479	556	812	1054	245	200	320	277	330	450	570	223
EK EVO 7... G-E	1107	510	597	941	1130	276	235	370	338	375	505	635	233

Øa	b	c	f
330-340	340	M16	200
380-400	400	M16	235

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 6.2400 G-E	2046	1414	1233	300
EK EVO 6.2900 G-E	2046	1414	1233	300
EK EVO 7.3600 G-E	2046	1414	1233	350
EK EVO 7.4500 G-E	2046	1414	1233	350

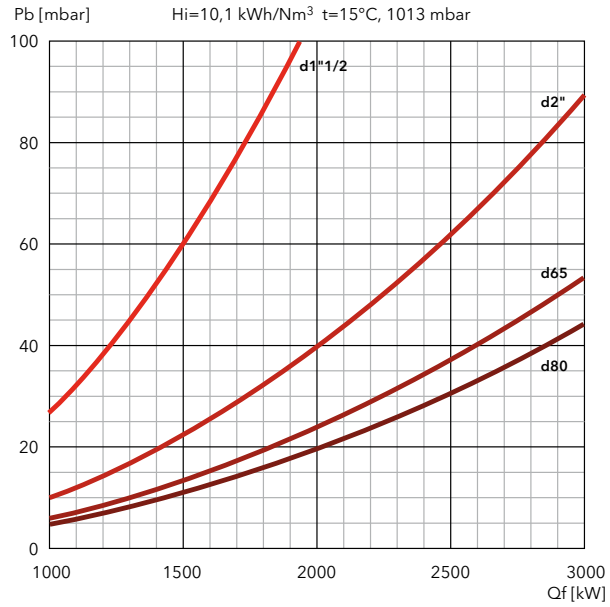
EK EVO 6 G-E / EK EVO 7 G-E

390 ... 5400 kW
Two stage progressive/modulating electronic

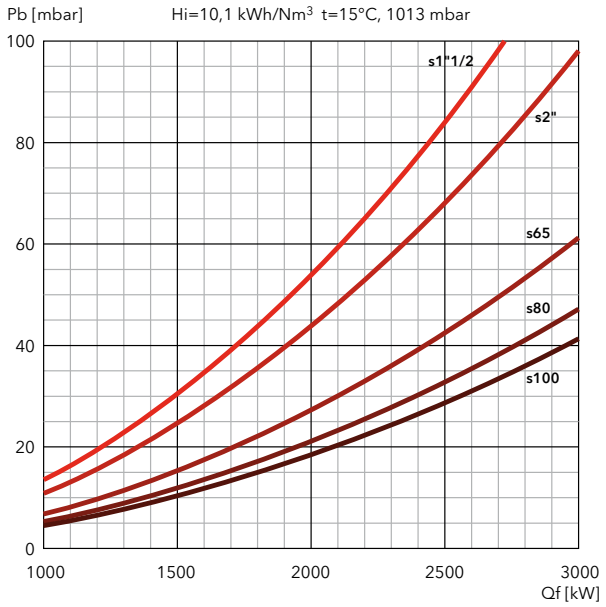
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 6.2400 G-E

DUNGS

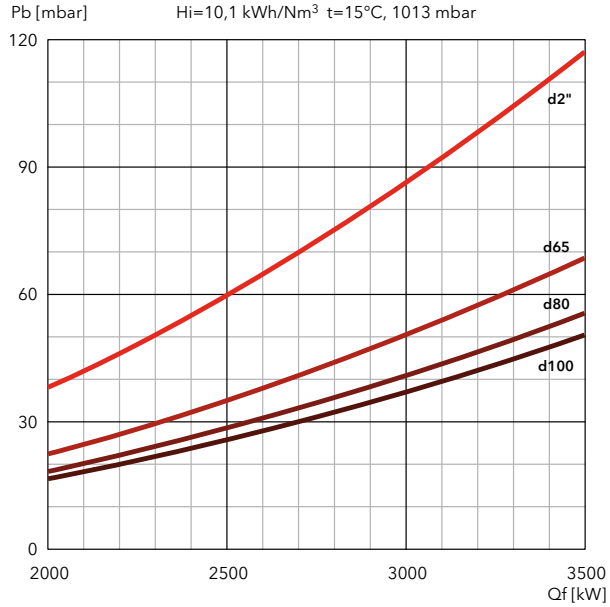


SIEMENS

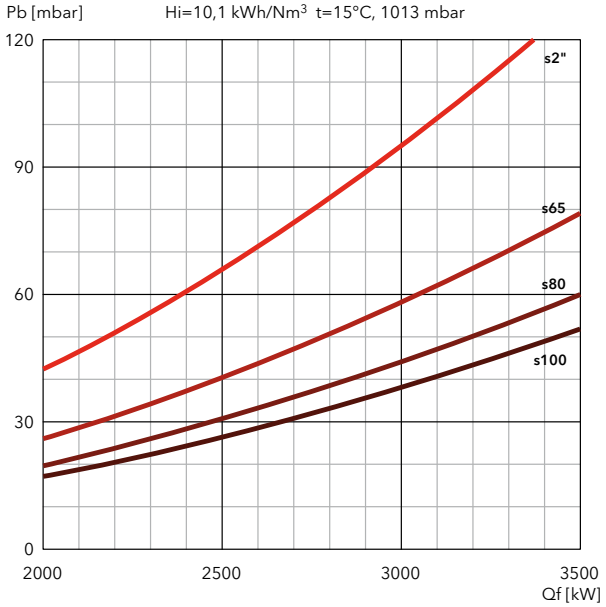


EK EVO 6.2900 G-E

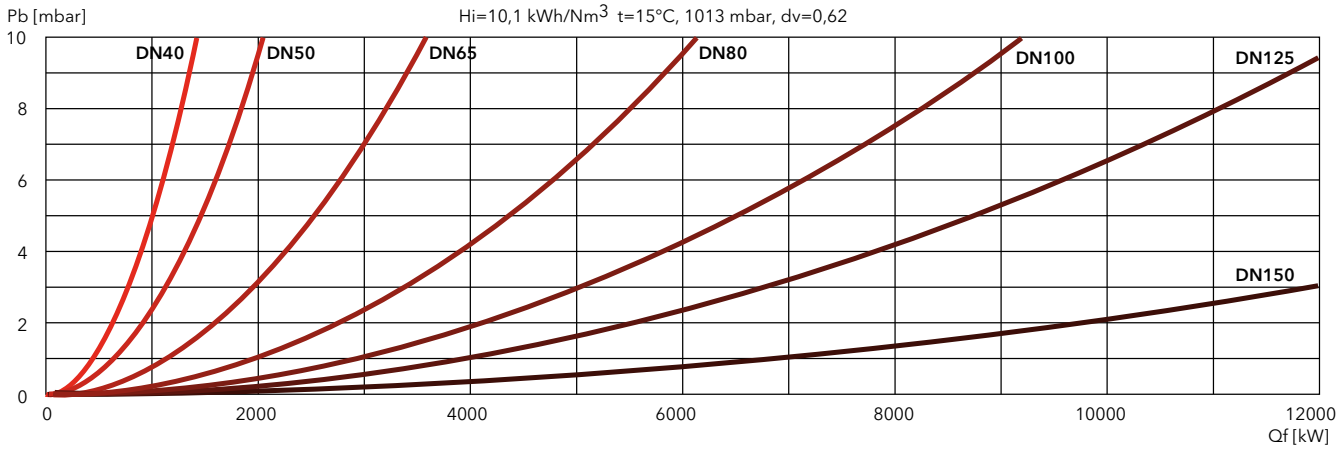
DUNGS



SIEMENS



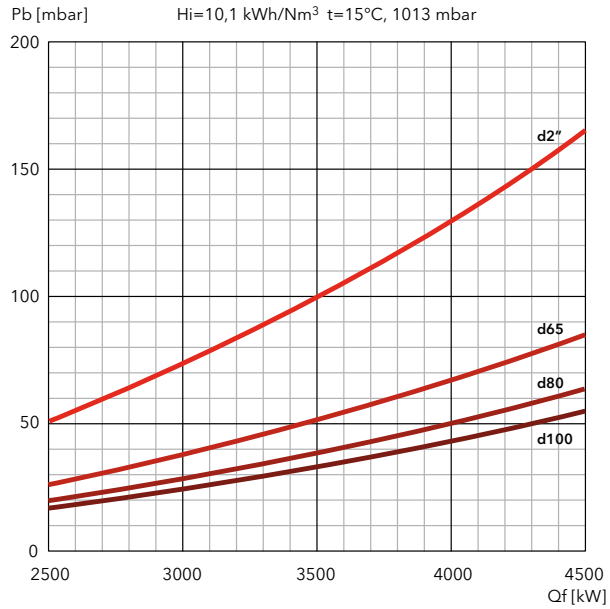
FILTERS



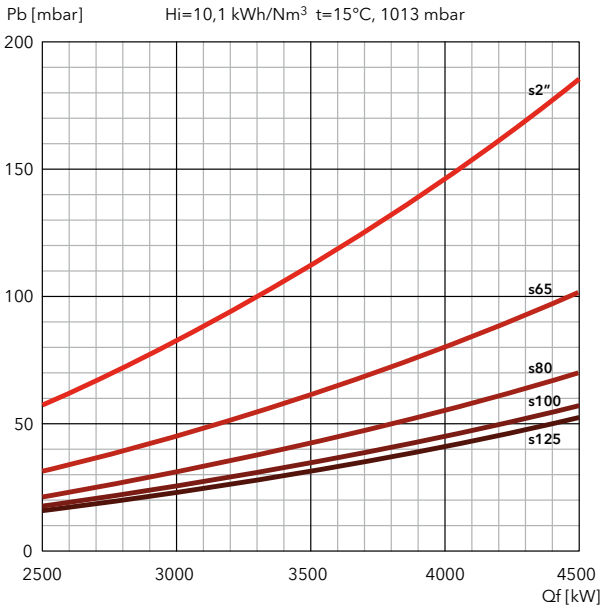
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 7.3600 G-E

DUNGS

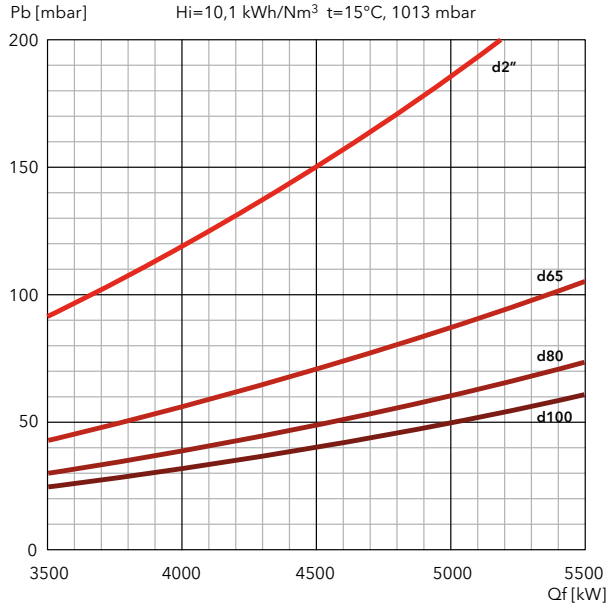


SIEMENS

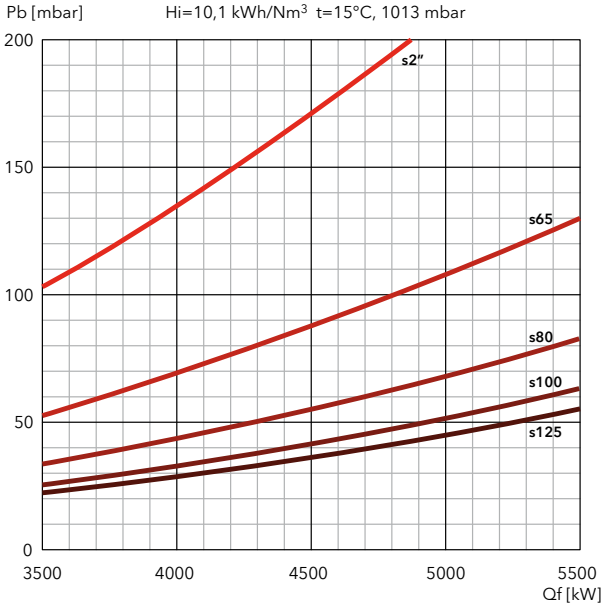


EK EVO 7.4500 G-E

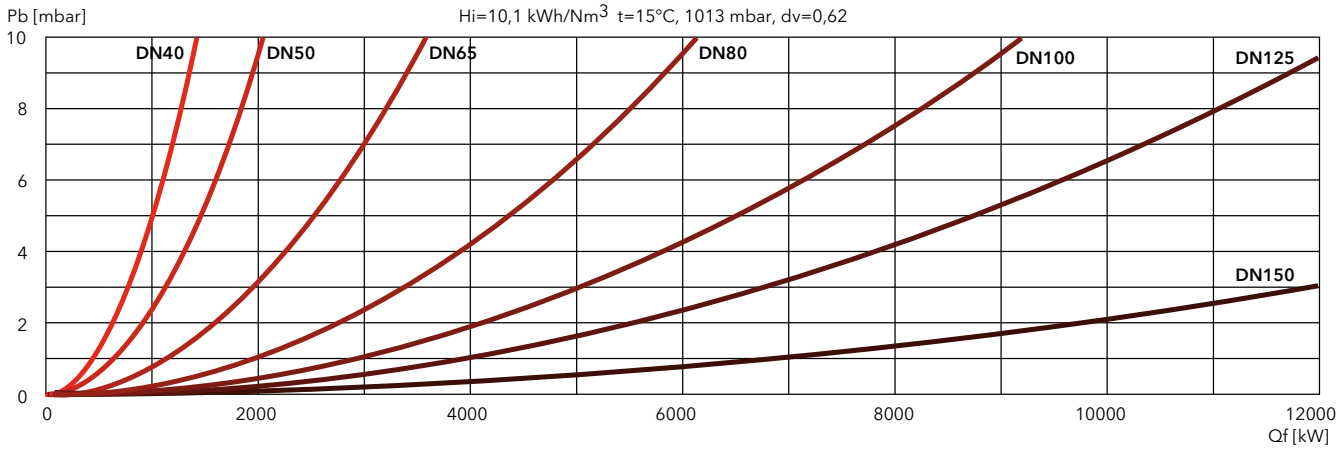
DUNGS



SIEMENS



FILTERS



EK EVO

GAS

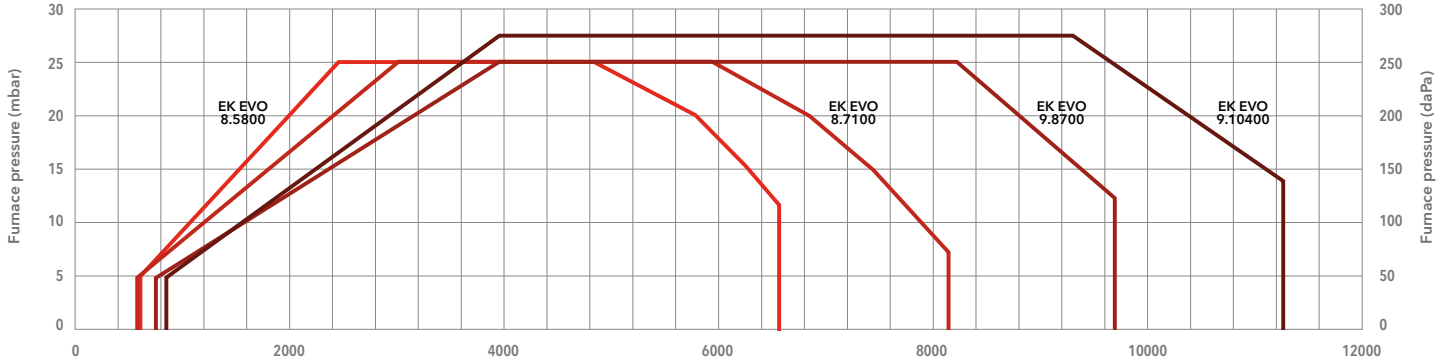
Low NOx Class 2

EK EVO 8 G-E / EK EVO 9 G-E

610 ... 11230 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 2 (≤120 mg/kWh) according to EN676
- **Modulating ratio:** 1:10
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 8.5800 G-E	EK EVO 8.7100 G-E	EK EVO 9.8700 G-E	EK EVO 9.10400 G-E
Operating range		620 – 6570 kW	610 – 8150 kW	780 – 9700 kW	850 – 11230 kW
Gas pressure		60 – 500 mbar (60 – 360 mbar for d457)		70 – 500 mbar (70 – 360 mbar for d457)	
Gas connection		DN100	DN100	DN100	DN100
Control box / flame detector		BT300 / Ionisation	BT300 / Ionisation	BT300 / Ionisation	BT300 / Ionisation
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 11 kW	50 Hz – 15 kW	50 Hz – 18,5 kW	50 Hz – 22 kW
Acoustic level		<80,3 dB(A)	<81 dB(A)	<84,8 dB(A)	<86,3 dB(A)
CE certificate		0085CL0215	0085CL0215	0085CL0215	0085CL0215
Burner codes (body + head)	**KN**	**3753965**	**3753966**	**3753967**	**3753968**
	KM	**3753974**	**3753975**	**3753976**	**3753977**
	KL	**3753982**	**3753983**	**3753984**	**3753985**

GAS TRAINS

DUNGS

Model	Code
GT-d457-2" (*)	3750515
GT-d458-65	3750516
GT-d459-80	3750517
GT-d460-100	3750518

*: integrated filter

SIEMENS

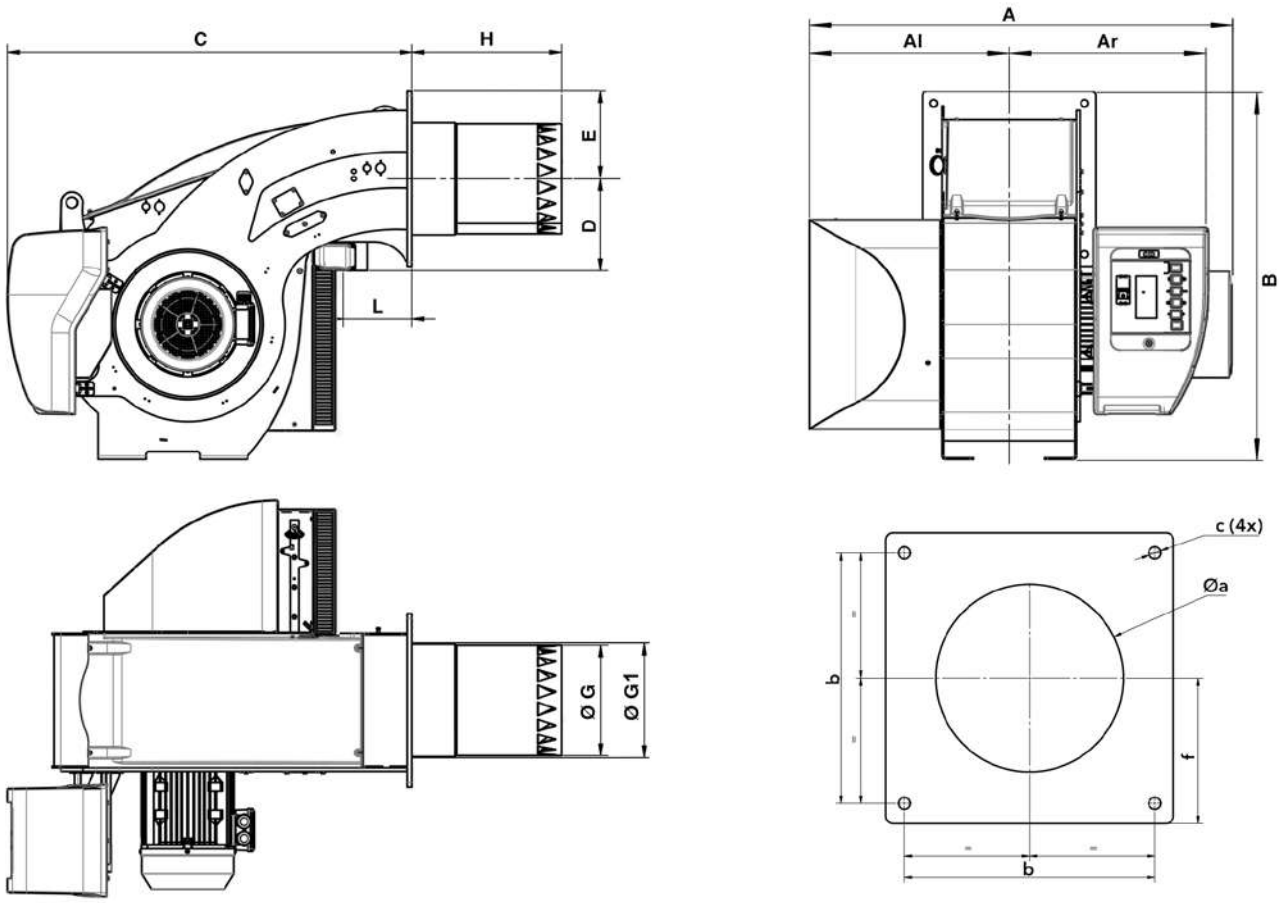
Model	Code
GT-s457-2"	3750537
GT-s458-65	3750538
GT-s459-80	3750539
GT-s460-100	3750540
GT-s461-125	3750541

FILTERS

Model	Code
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 247

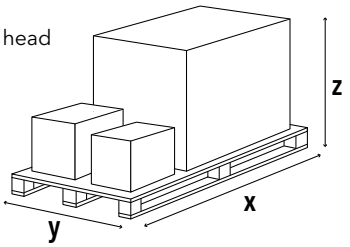
DIMENSIONS (mm)



Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Øa	b	c	f
										KN	KM	KL					
EK EVO 8.5800 G-E	1325	670	655	1231	1355	307	293	369	376	496	636	776	234	385-410	505	M20	293
EK EVO 8.7100 G-E	1325	670	655	1231	1355	307	293	369	376	496	636	776	234	385-410	505	M20	293
EK EVO 9.8700 G-E	1336	670	666	1291	1354	332	293	432	439	546	696	846	234	450-480	505	M20	293
EK EVO 9.10400 G-E	1400	670	730	1291	1354	332	293	432	439	546	696	846	234	450-480	505	M20	293

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 8.5800 G-E	2300	1500	1573	580
EK EVO 8.7100 G-E	2300	1500	1573	580
EK EVO 9.8700 G-E	2300	1500	1573	700
EK EVO 9.10400 G-E	2300	1500	1573	700

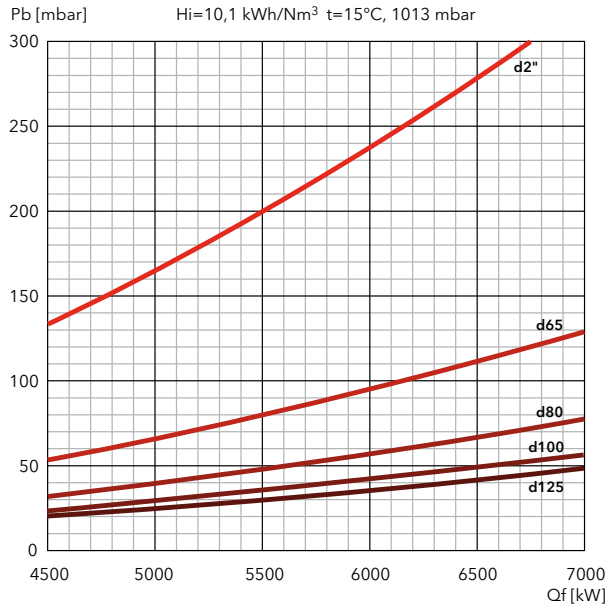
EK EVO 8 G-E / EK EVO 9 G-E

610 ... 11230 kW
Two stage progressive/modulating electronic

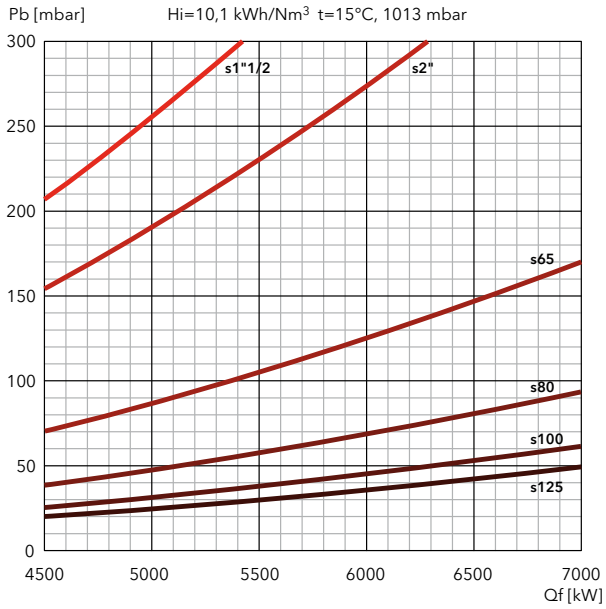
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 8.5800 G-E

DUNGS

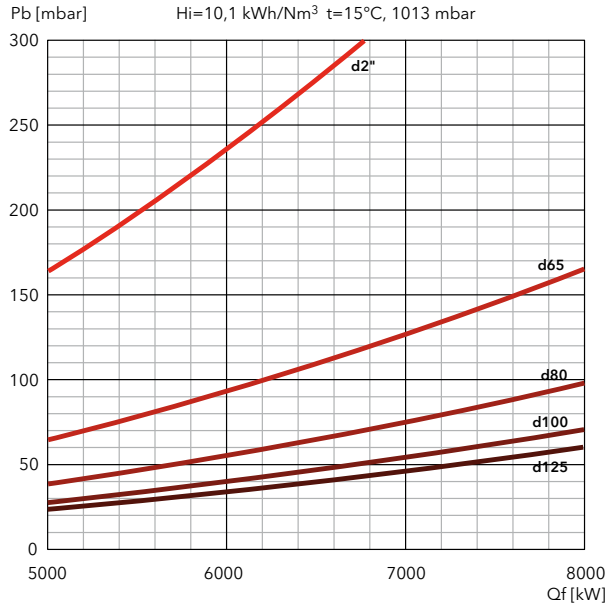


SIEMENS

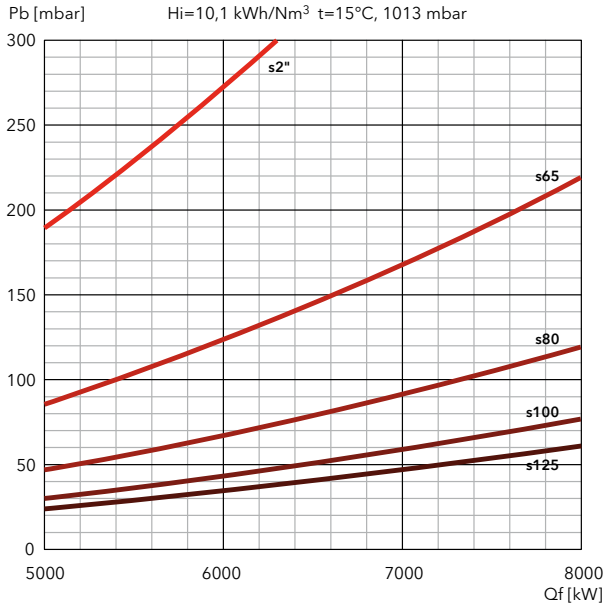


EK EVO 8.7100 G-E

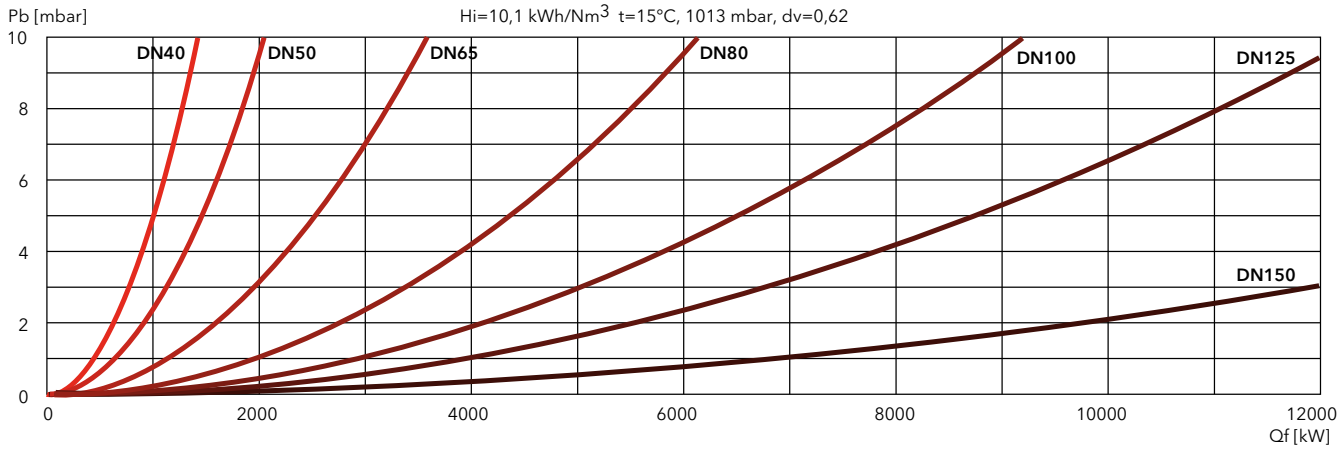
DUNGS



SIEMENS



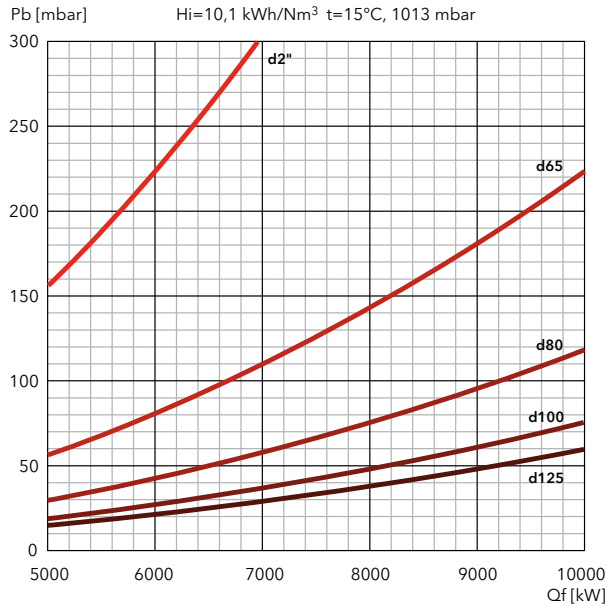
FILTERS



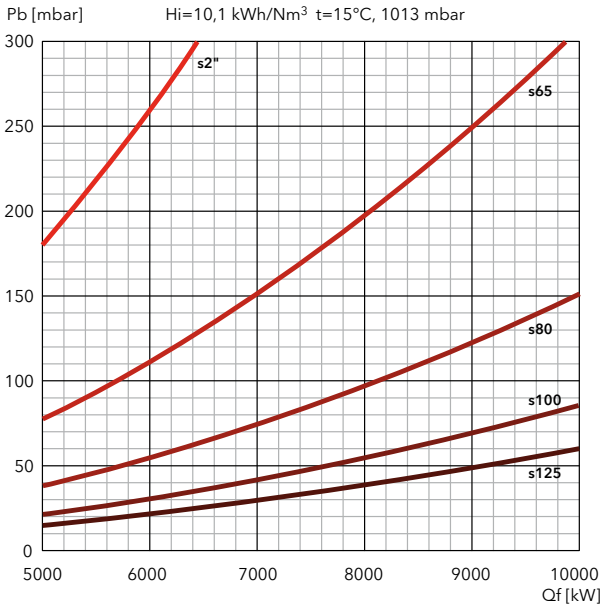
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 9.8700 G-E

DUNGS

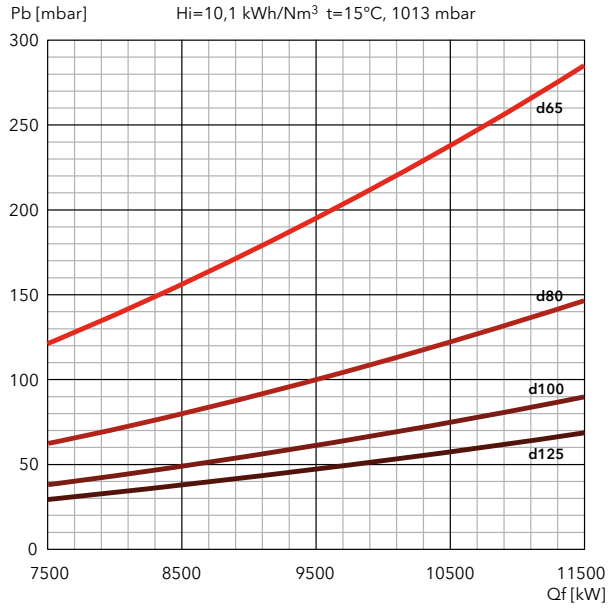


SIEMENS

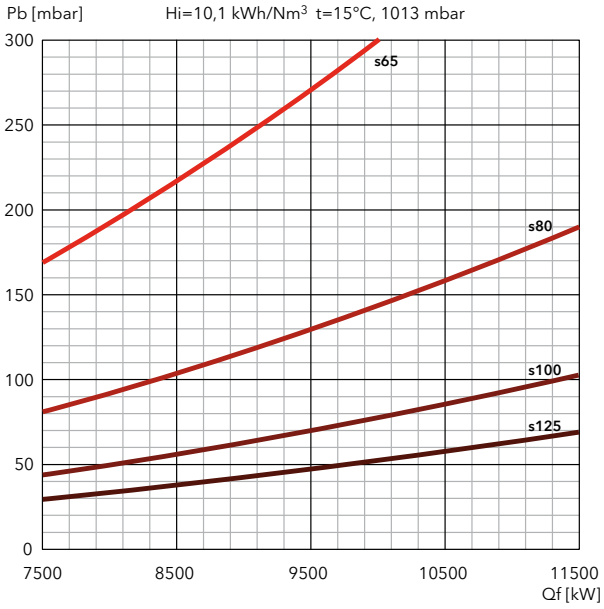


EK EVO 9.10400 G-E

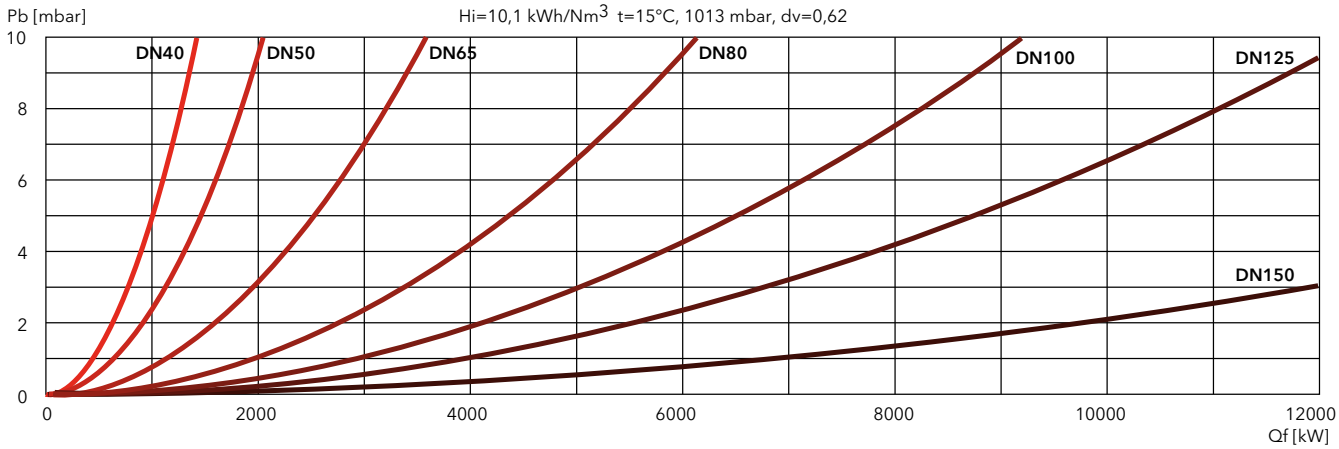
DUNGS



SIEMENS



FILTERS



EK EVO

GAS / LIGHT OIL

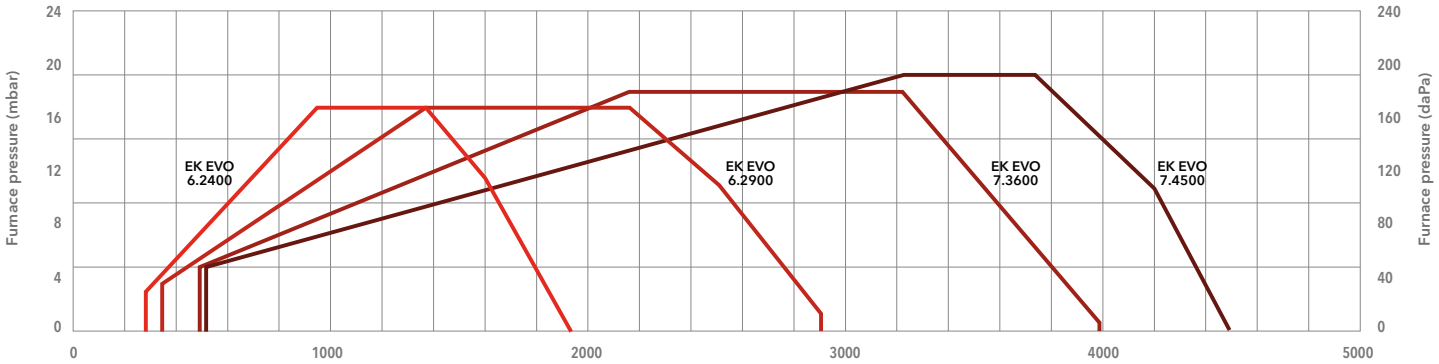
Low NOx Class 3

EK EVO 6 GL-EF3 / EK EVO 7 GL-EF3

280 ... 4500 kW
Two stage progressive/modulating electronic in gas and in light oil

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676 in gas
  Low NOx class 3 (≤120 mg/kWh) according to EN267 in light oil
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 and EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 6.2400 GL-EF3	EK EVO 6.2900 GL-EF3	EK EVO 7.3600 GL-EF3	EK EVO 7.4500 GL-EF3
Operating range gas		280 – 1920 kW	340 – 2890 kW	470 – 3980 kW	510 – 4500 kW
Operating range oil		360 – 1920 kW	480 – 2890 kW	680 – 3980 kW	740 – 4500 kW
Gas pressure		50 – 500 mbar (50 – 360 mbar for d452 and d453)			
Gas connection		DN65	DN65	DN65	DN65
Control box / flame detector		BT300 / FFS08	BT300 / FFS08	BT300 / FFS08	BT300 / FFS08
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 3 kW	50 Hz – 4 kW	50 Hz – 7,5 kW	50 Hz – 7,5 kW
Acoustic level		<76 dB(A)	<77 dB(A)	<83 dB(A)	<81 dB(A)
CE certificate		0085CL0215	0085CL0215	0085CL0215	0085CL0215
Burner codes (body + head)	KN	**3754521**	**3754522**	**3754523**	**3754524**
	KM	**3754525**	**3754526**	**3754527**	**3754528**
	KL	**3754529**	**3754530**	**3754531**	**3754532**

GAS TRAINS

DUNGS

Model	Code
GT-d452-1"1/2 (*)	3750510
GT-d453-2" (*)	3750511
GT-d454-65	3750512
GT-d455-80	3750513
GT-d456-100	3750514

*: integrated filter

SIEMENS

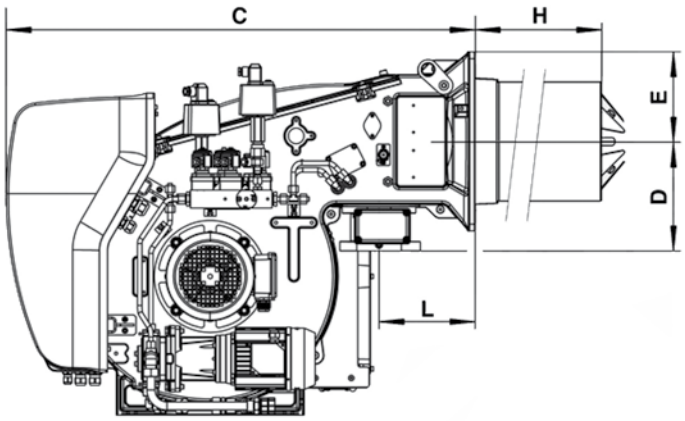
Model	Code
GT-s451-1"1/2	3750525
GT-s452-2"	3750526
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529
GT-s456-125	3750530

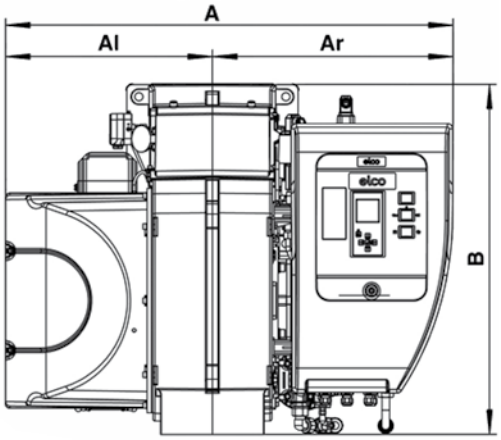
FILTERS

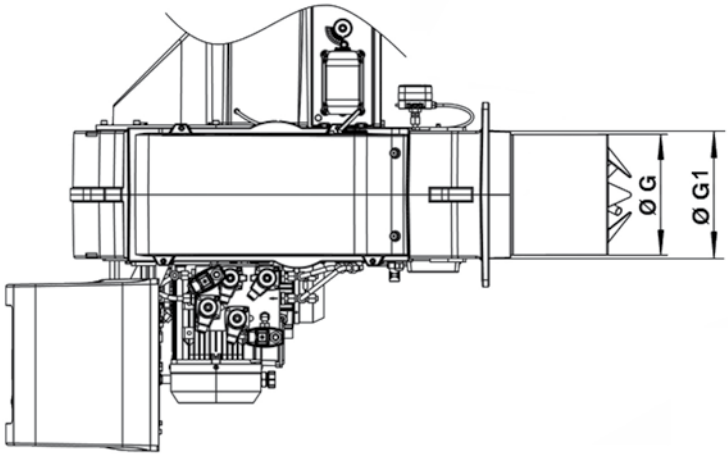
Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

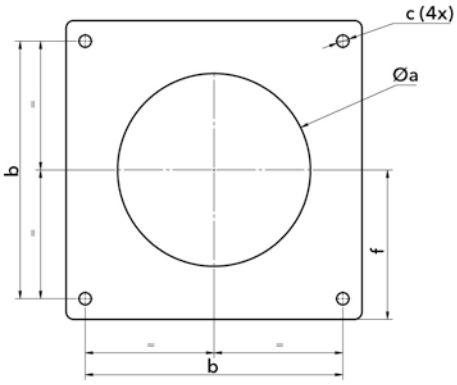
Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 246

DIMENSIONS (mm)





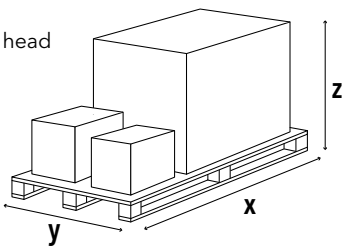




Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Øa	b	c	f
										KN	KM	KL					
EK EVO 6.2400 GL-EF3	1035	479	556	812	1056	245	200	227	277	392	512	632	223	300-340	340	M16	200
EK EVO 6.2900 GL-EF3	1035	479	556	812	1056	245	200	263	277	392	512	632	223	300-340	340	M16	200
EK EVO 7.3600 GL-EF3	1107	510	597	941	1130	276	235	325	339	412	542	672	233	360-400	400	M16	235
EK EVO 7.4500 GL-EF3	1107	510	597	941	1130	276	235	325	339	412	542	672	233	360-400	400	M16	235

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EKEVO 6.2400 GL-EF3	2046	1414	1233	300
EKEVO 6.2900 GL-EF3	2046	1414	1233	300
EKEVO 7.3600 GL-EF3	2046	1414	1233	350
EKEVO 7.4500 GL-EF3	2046	1414	1233	350

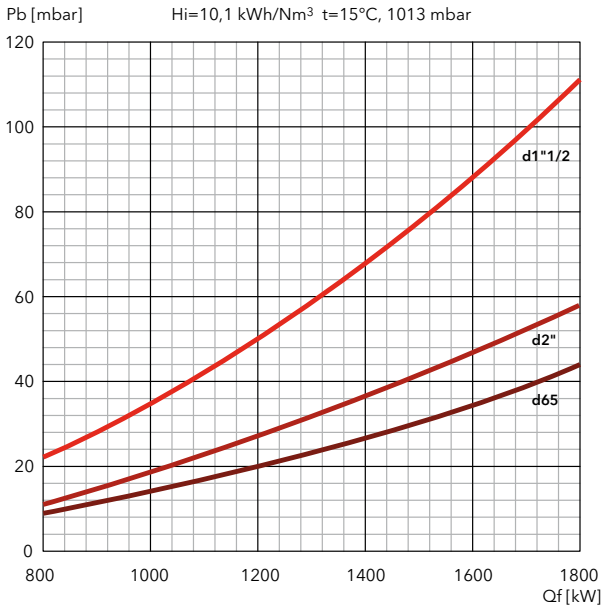
EK EVO 6 GL-EF3 / EK EVO 7 GL-EF3

280 ... 4500 kW
Two stage progressive/modulating electronic in gas and in light oil

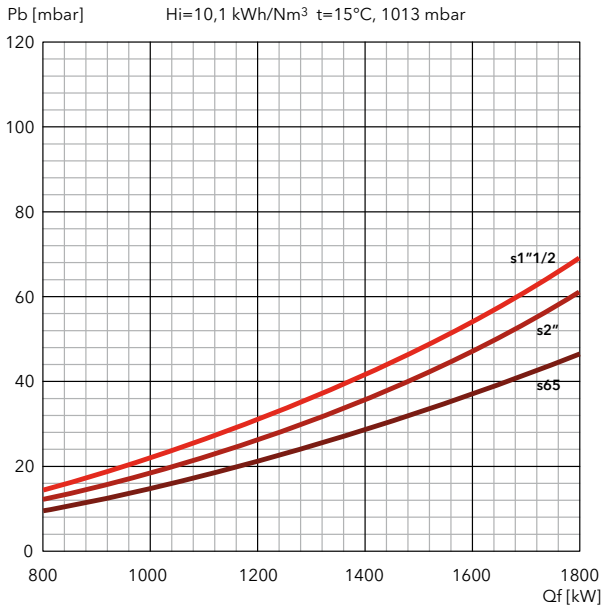
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 6.2400 GL-EF3

DUNGS

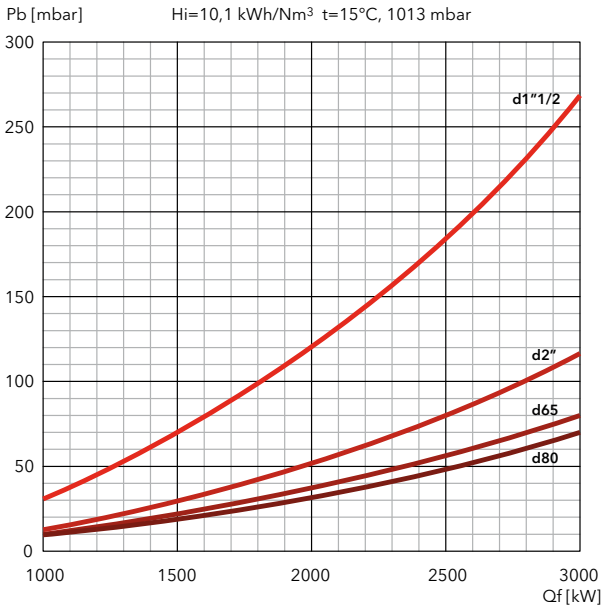


SIEMENS

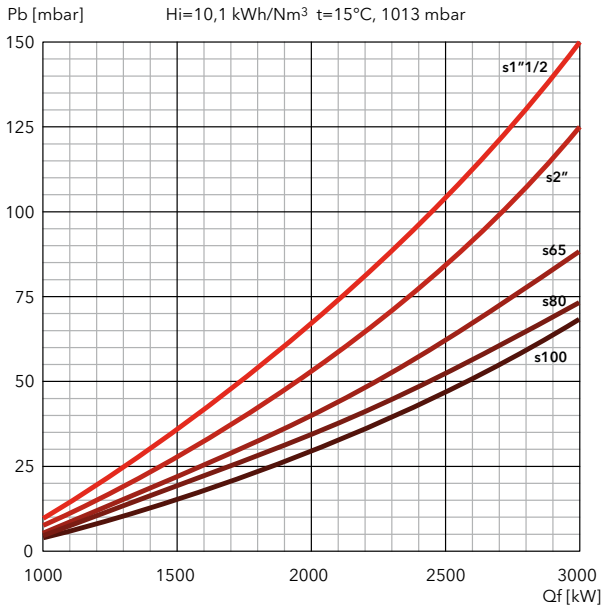


EK EVO 6.2900 GL-EF3

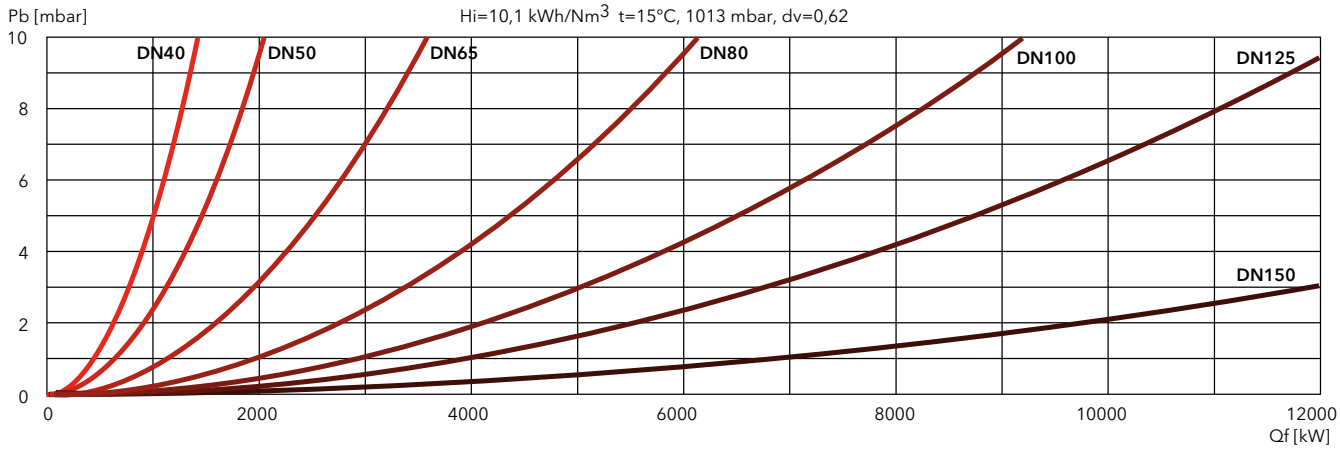
DUNGS



SIEMENS



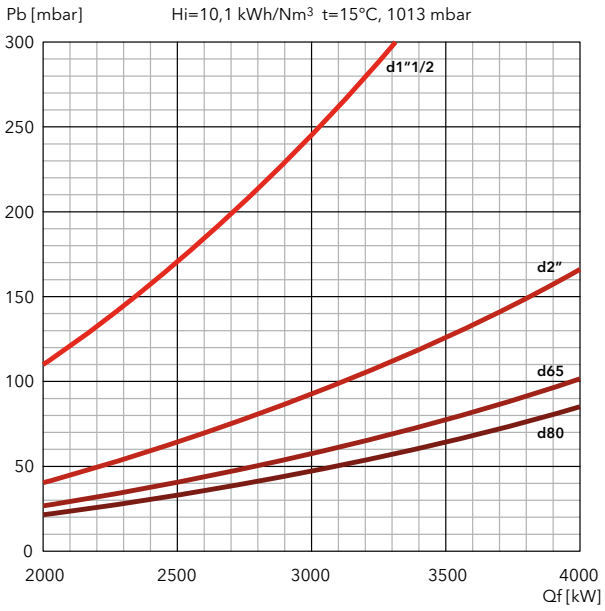
FILTERS



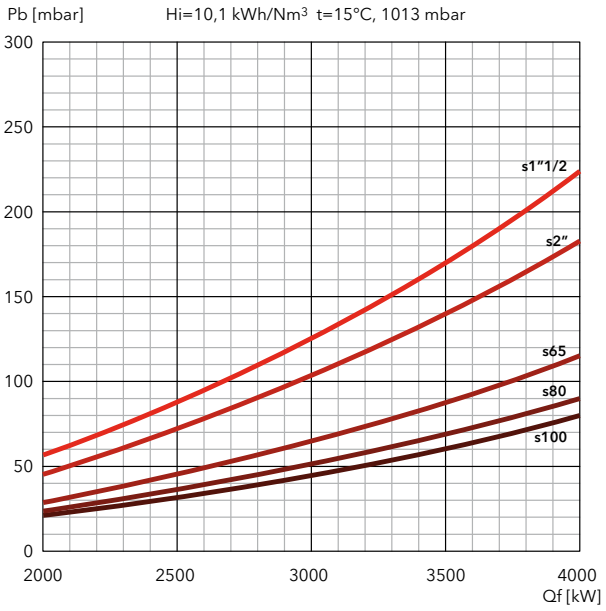
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 7.3600 GL-EF3

DUNGS

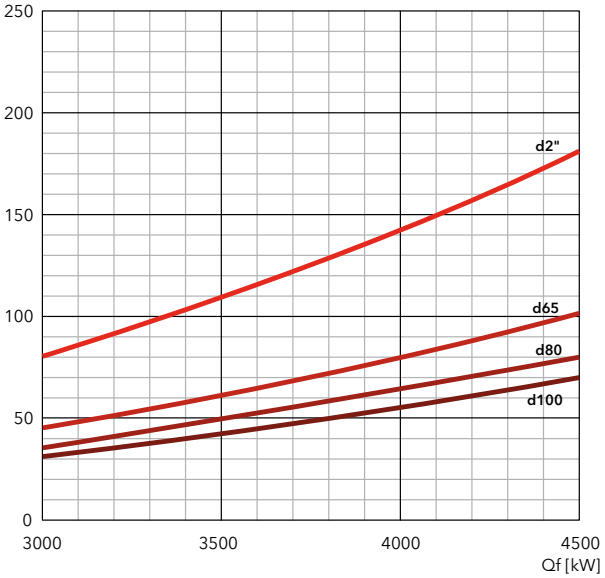


SIEMENS

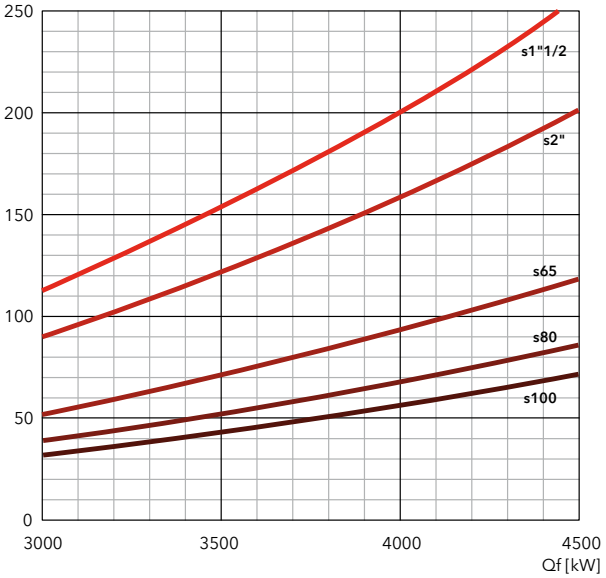


EK EVO 7.4500 GL-EF3

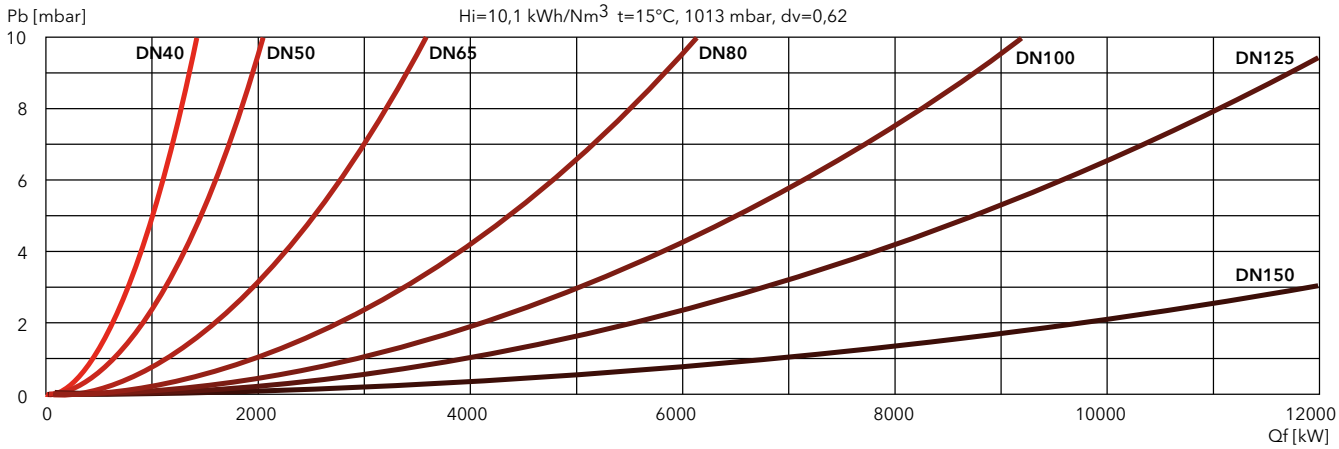
DUNGS



SIEMENS



FILTERS



EK EVO

GAS / LIGHT OIL

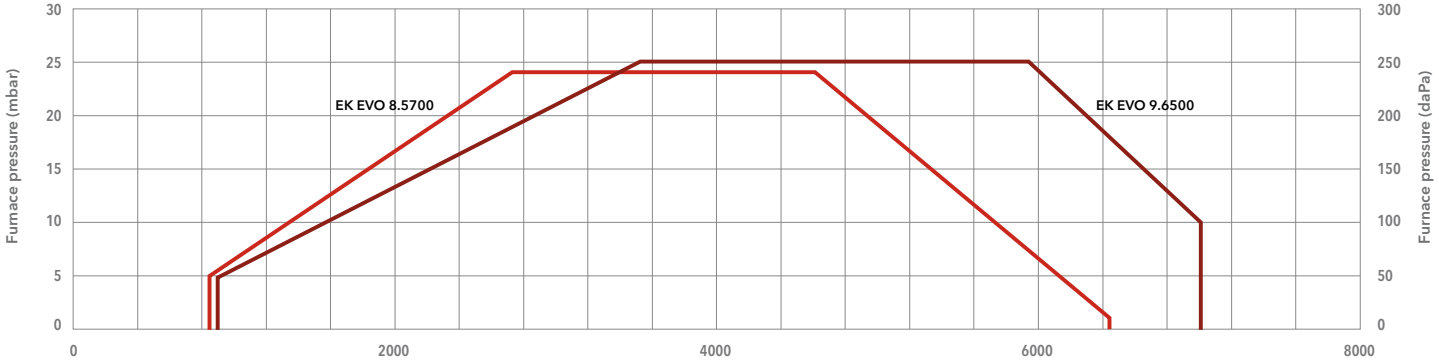
Low NOx Class 3

EK EVO 8 GL-EF3 / EK EVO 9 GL-EF3

830 ... 6950 kW
Two stage progressive/modulating electronic in gas and in light oil

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm^3;
  light oil, viscosity 6 mm^2/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676 in gas
  Low NOx class 3 (≤120 mg/kWh) according to EN267 in light oil
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 and EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 8.5700 GL-EF3	EK EVO 9.6500 GL-EF3
Operating range gas		830 – 6450 kW	860 – 6950 kW
Operating range oil		1100 – 6450 kW	1100 – 6600 kW
Gas pressure		100 – 500 mbar (100 – 360 mbar for d457)	100 – 500 mbar (100 – 360 mbar for d457)
Gas connection		DN100	DN100
Control box / flame detector		BT300 / FFS08	BT300 / FFS08
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 15 kW	50 Hz – 22 kW
Acoustic level		<80,2 dB(A)	<82,9 dB(A)
CE certificate		0085CL0215	0085CL0215
Burner codes (body + head)	KN	**3754825**	**3754826**
	KM	**3754829**	**3754830**
	KL	**3754833**	**3754834**

GAS TRAINS

DUNGS

Model	Code
GT-d457-2" (*)	3750515
GT-d458-65	3750516
GT-d459-80	3750517
GT-d460-100	3750518
GT-d4...-125	on request

*: integrated filter

SIEMENS

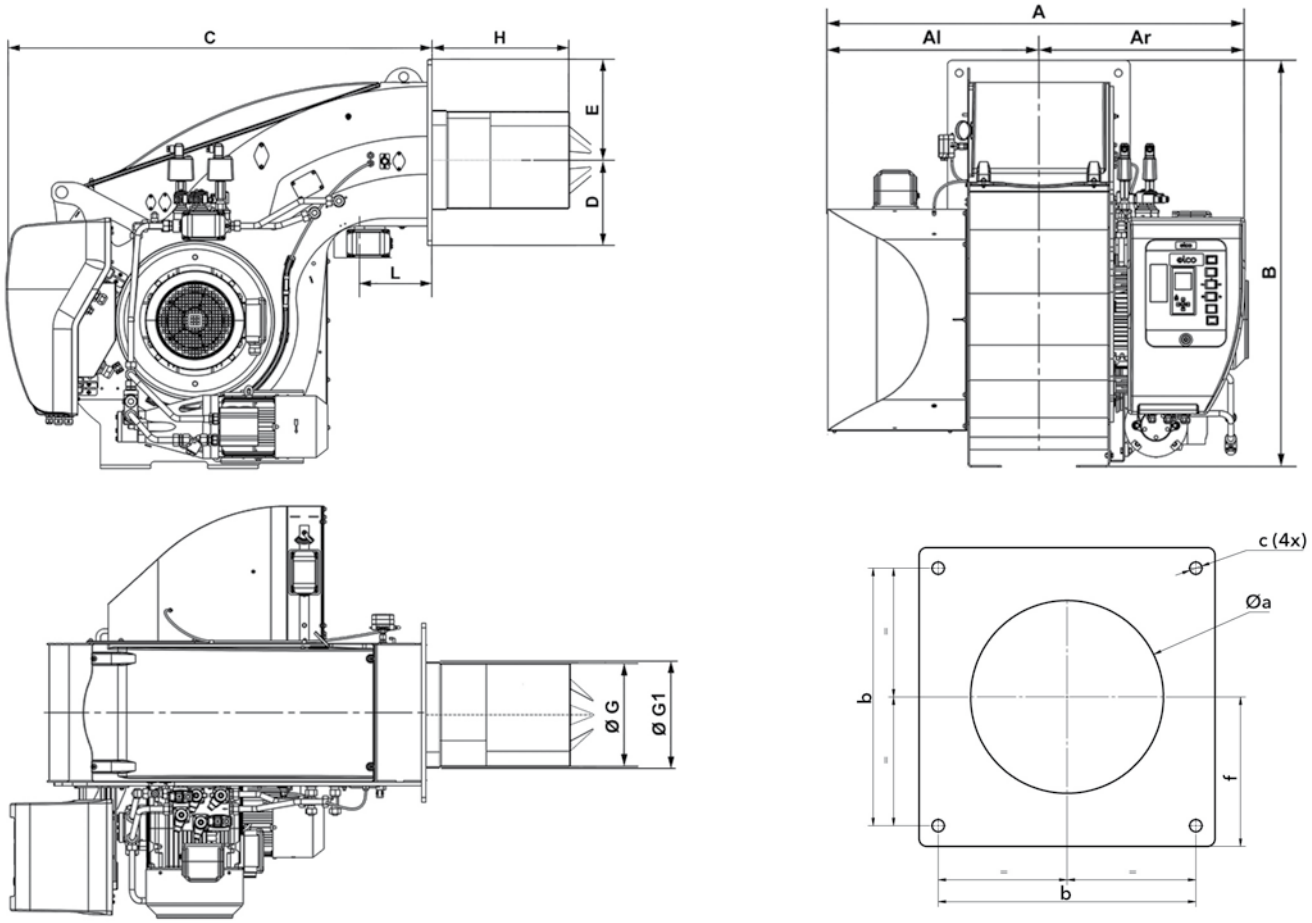
Model	Code
GT-s456-1"1/2	3750536
GT-s457-2"	3750537
GT-s458-65	3750538
GT-s459-80	3750539
GT-s460-100	3750540
GT-s461-125	3750541

FILTERS

Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 247

DIMENSIONS (mm)

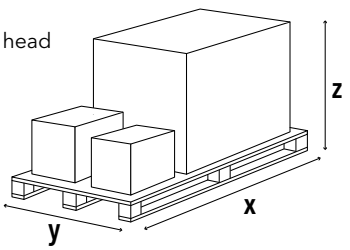


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L
										KN	KM	KL	
EK EVO 8.5700 GL-EF3	1325	670	655	1231	1355	307	293	369	376	524	664	804	234
EK EVO 9.6500 GL-EF3	1400	670	730	1291	1354	332	293	369	439	539	689	839	234

Øa	b	c	f
385-410	505	M20	293
450-480	505	M20	293

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 8.5700 GL-EF3	2300	1500	1573	580
EK EVO 9.6500 GL-EF3	2300	1500	1573	700

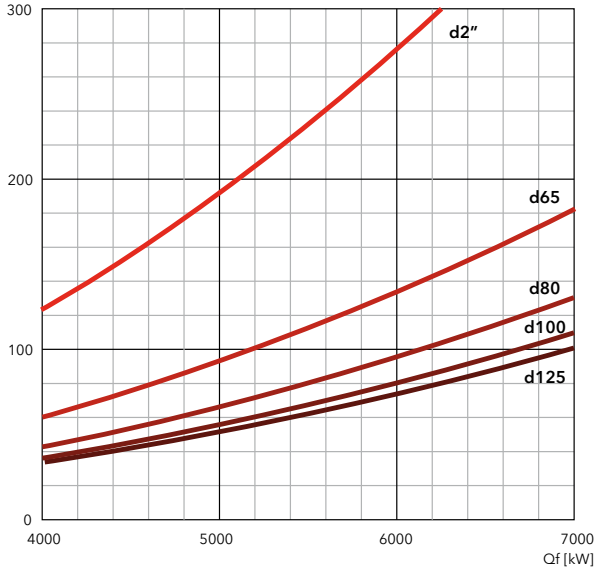
EK EVO 8 GL-EF3 / EK EVO 9 GL-EF3

830 ... 6950 kW
Two stage progressive/modulating electronic in gas and in light oil

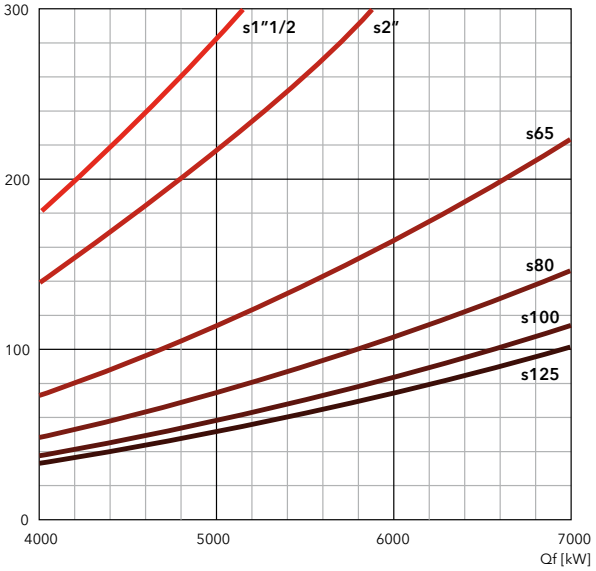
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 8.5700 GL-EF3

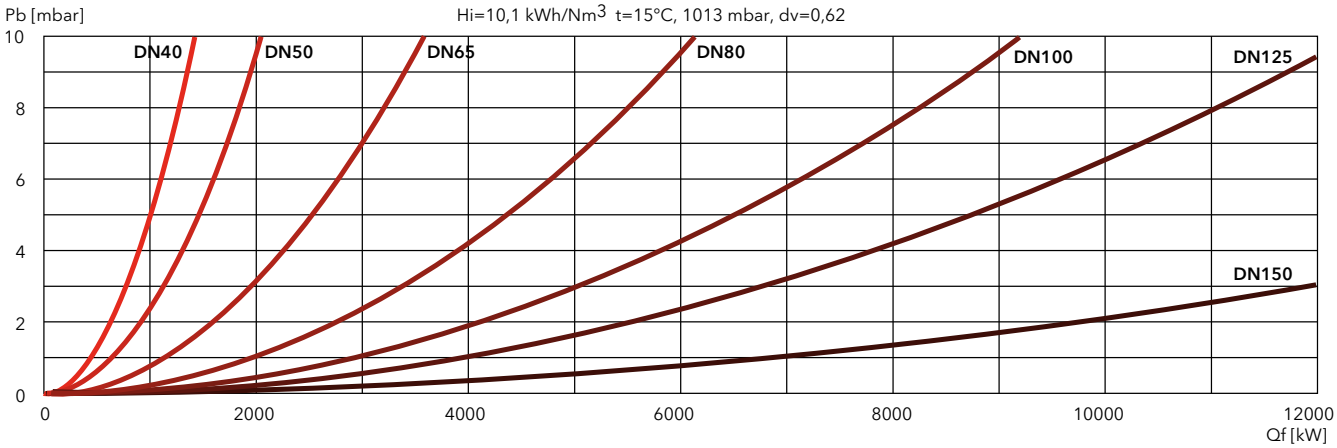
DUNGS



SIEMENS



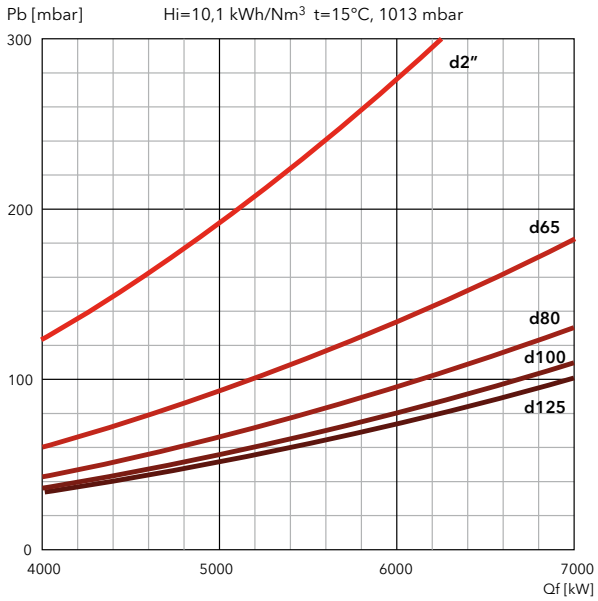
FILTERS



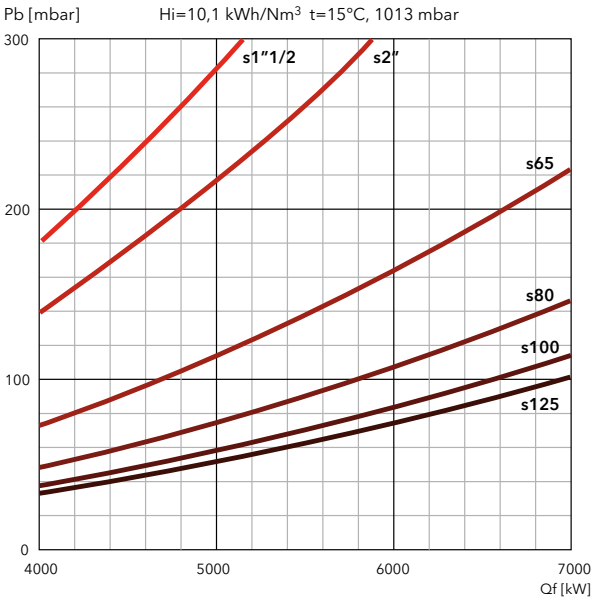
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 9.6500 GL-EF3

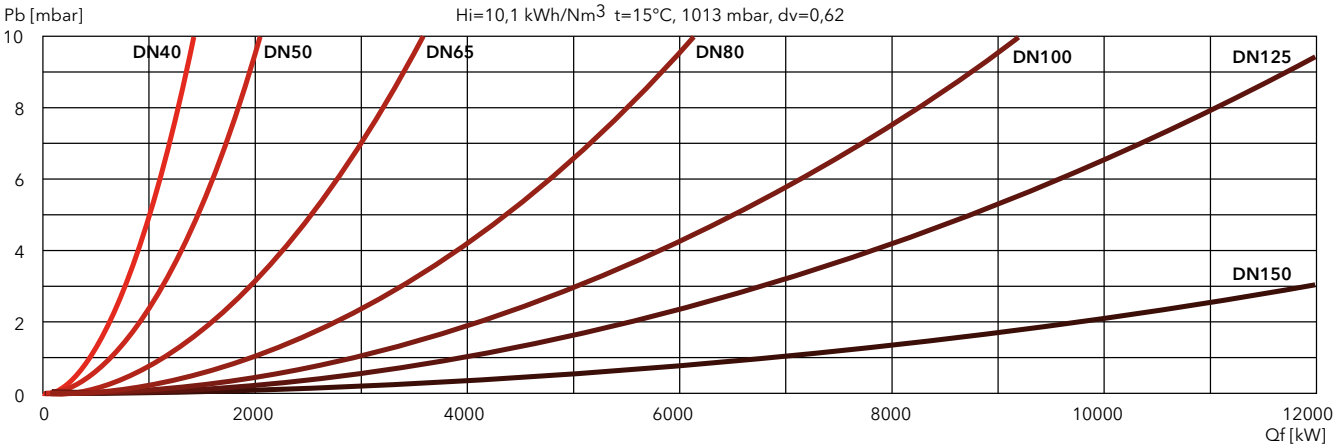
DUNGS



SIEMENS



FILTERS



EK EVO

GAS / LIGHT OIL

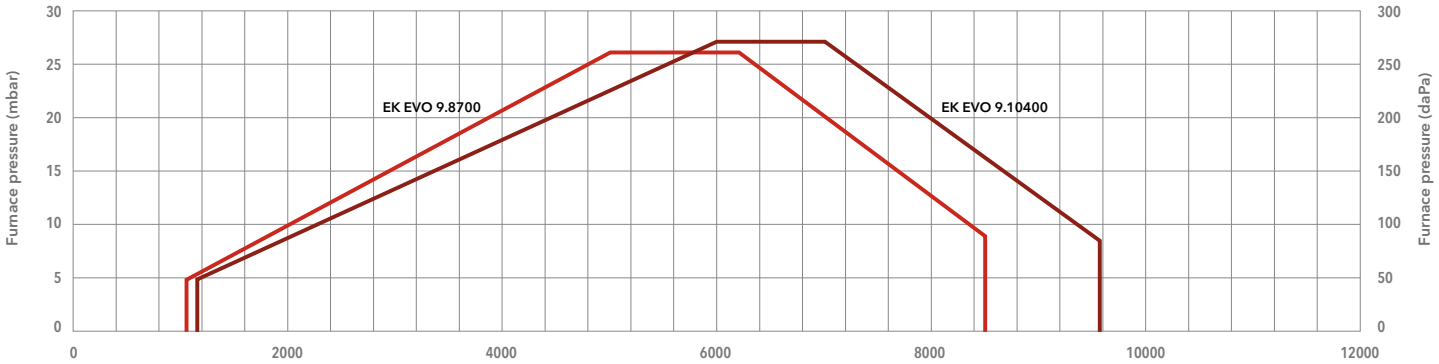
Low NOx Class 3

EK EVO 9 GL-EUF

1040 ... 9570 kW
Two stage progressive/modulating electronic in gas and in light oil

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm^3;
  light oil, viscosity 6 mm^2/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676 in gas
  Low NOx class 3 (≤120 mg/kWh) according to EN267 in light oil
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 and EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 9.8700 GL-EUF	EK EVO 9.10400 GL-EUF
Operating range gas		1040 – 8500 kW	1160 – 9570 kW
Operating range oil		1800 – 8500 kW	2550 – 9570 kW
Gas pressure		100 – 500 mbar (100 – 360 mbar for d457)	100 – 500 mbar (100 – 360 mbar for d457)
Gas connection		DN100	DN100
Control box / flame detector		BT300 / FFS08	BT300 / FFS08
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 18,5 kW	50 Hz – 22 kW
Acoustic level		<85,9 dB(A)	<86,6 dB(A)
CE certificate		0085CL0215	0085CL0215
Burner codes (body + head)	KN	**3754827**	**3754828**
	KM	**3754831**	**3754832**
	KL	**3754835**	**3754836**

GAS TRAINS

DUNGS

Model	Code
GT-d457-2" (*)	3750515
GT-d458-65	3750516
GT-d459-80	3750517
GT-d460-100	3750518

*: integrated filter

SIEMENS

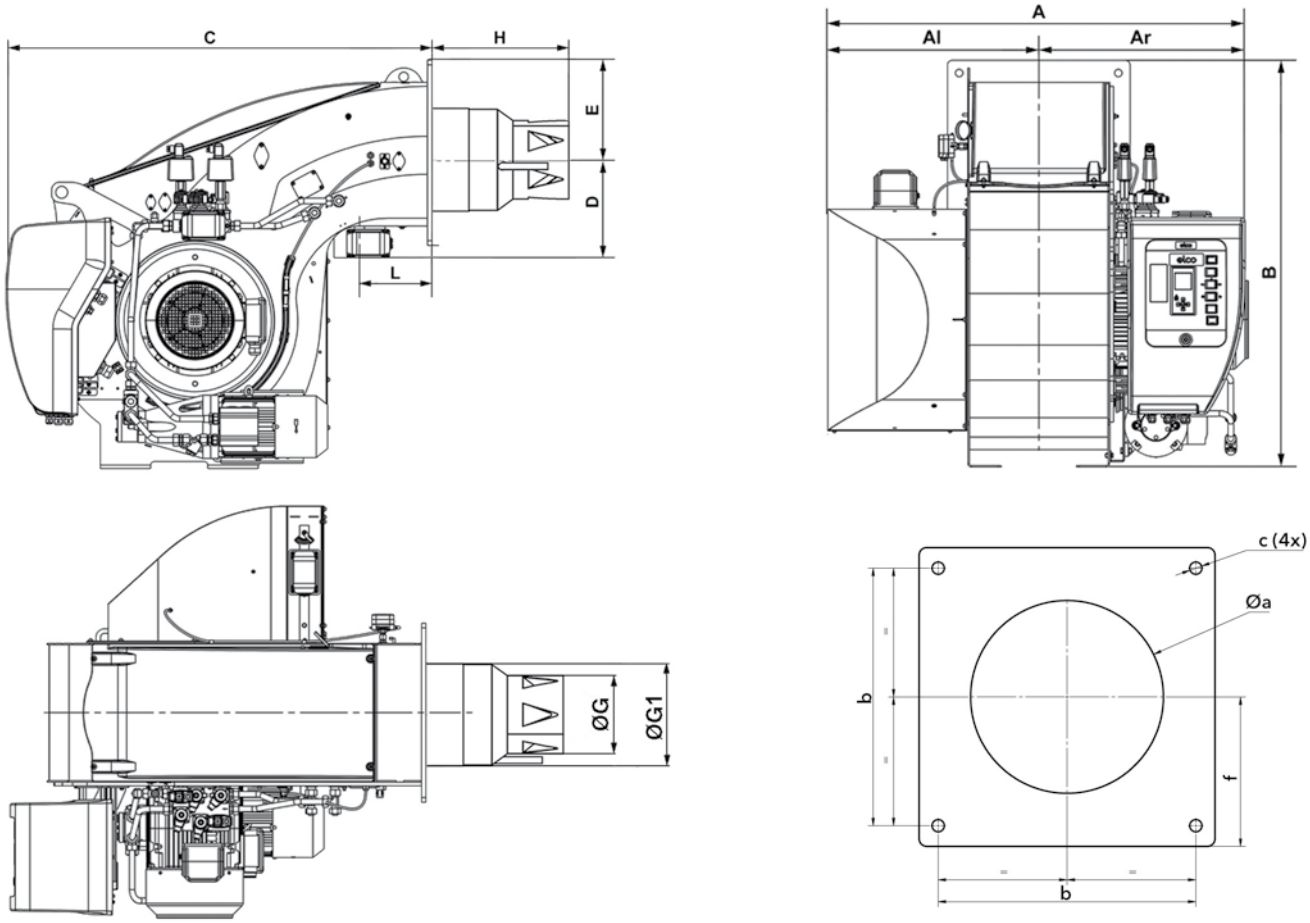
Model	Code
GT-s457-2"	3750537
GT-s458-65	3750538
GT-s459-80	3750539
GT-s460-100	3750540
GT-s461-125	3750541

FILTERS

Model	Code
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 247

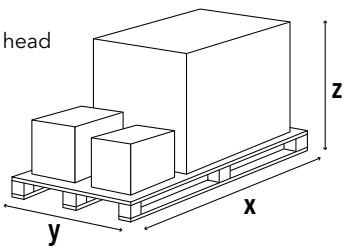
DIMENSIONS (mm)



Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Øa	b	c	f
										KN	KM	KL					
EK EVO 9.8700 GL-EUF	1336	670	666	1291	1354	332	293	325	439	571	721	871	234	450-480	505	M20	293
EK EVO 9.10400 GL-EUF	1400	670	730	1291	1354	332	293	335	439	571	721	871	234	450-480	505	M20	293

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 9.8700 GL-EUF	2300	1500	1573	700
EK EVO 9.10400 GL-EUF	2300	1500	1573	700

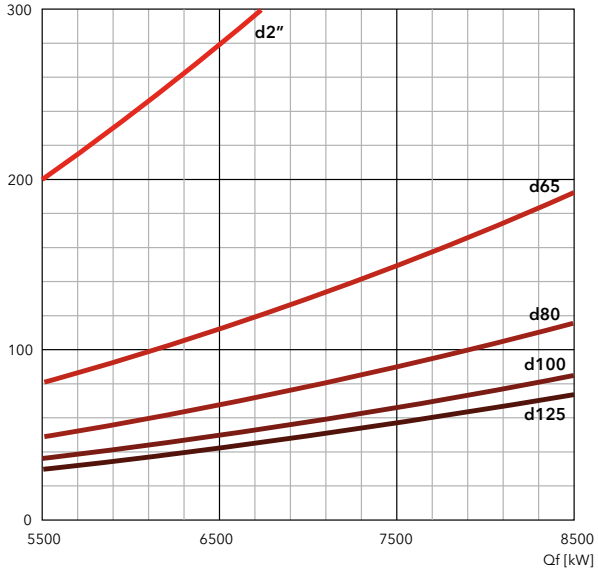
EK EVO 9 GL-EUF

1040 ... 9570 kW
Two stage progressive/modulating electronic in gas and in light oil

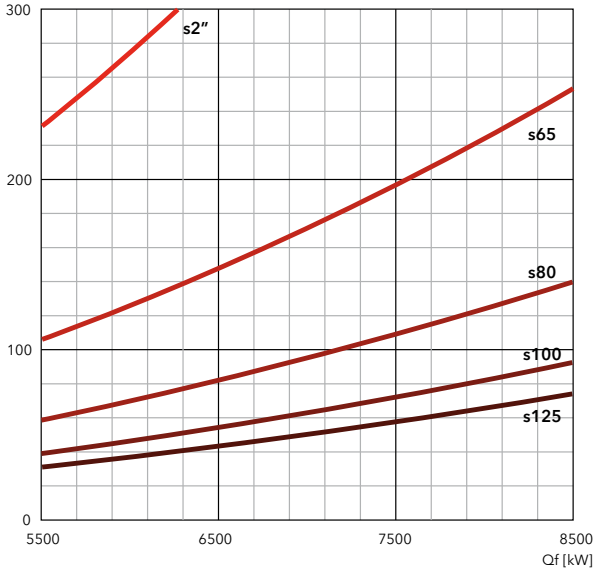
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 9.8700 GL-EUF

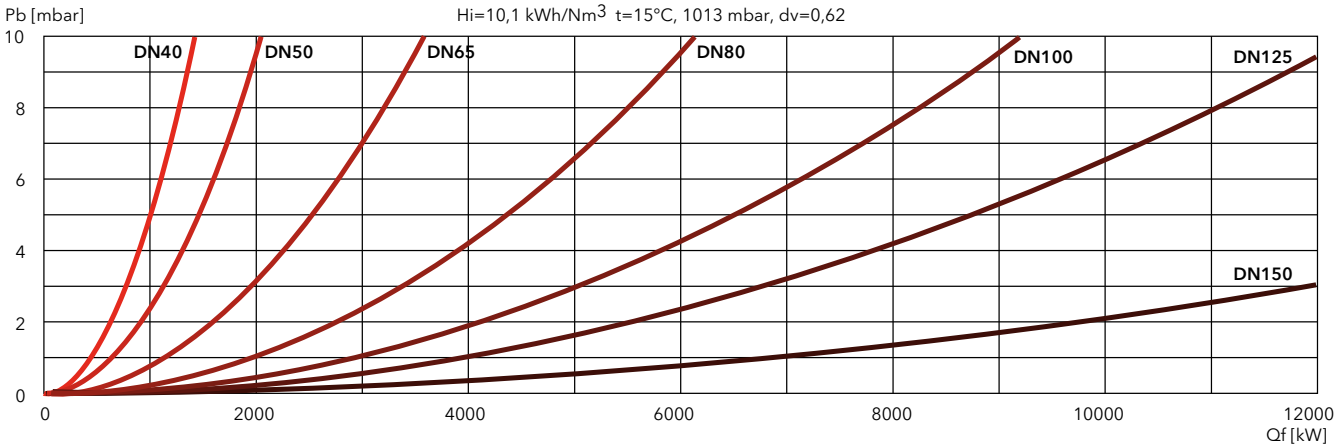
DUNGS



SIEMENS



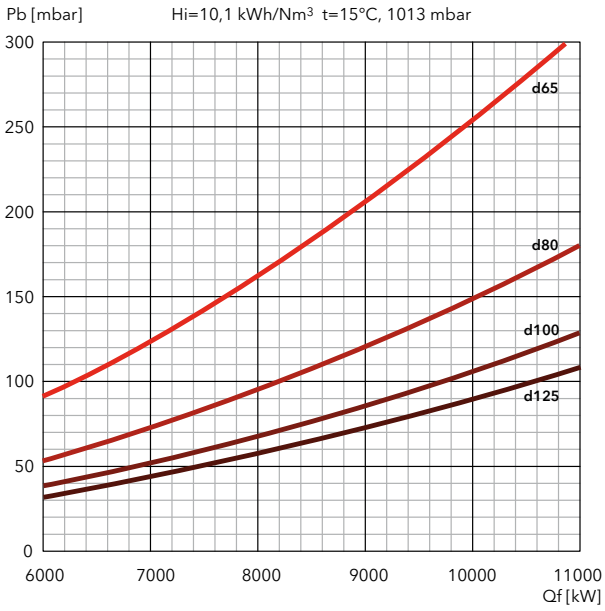
FILTERS



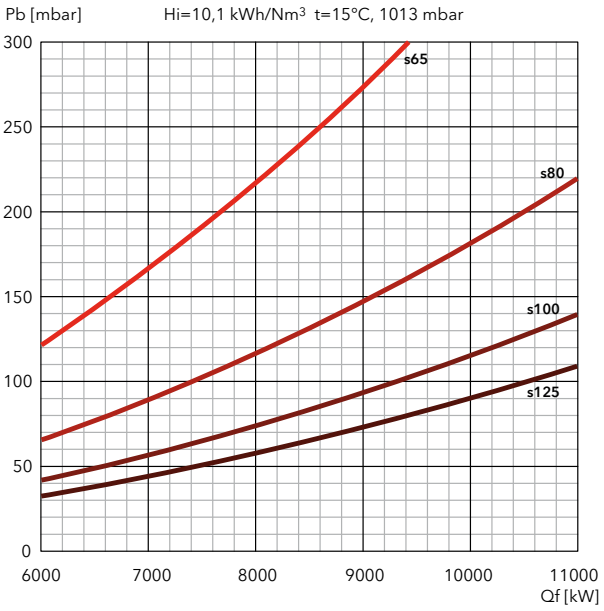
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 9.10400 GL-EUF

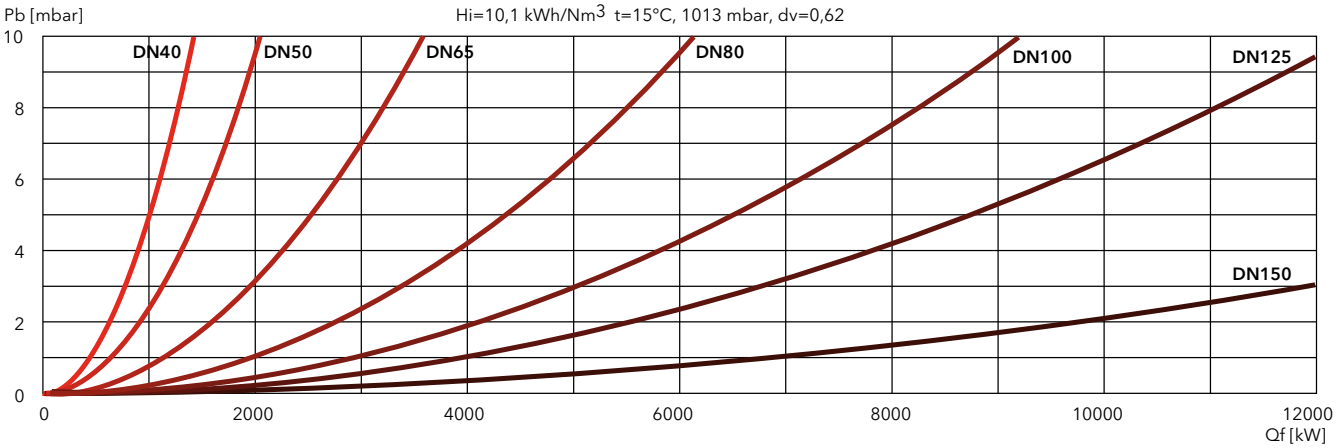
DUNGS



SIEMENS



FILTERS



EK EVO

GAS / LIGHT OIL

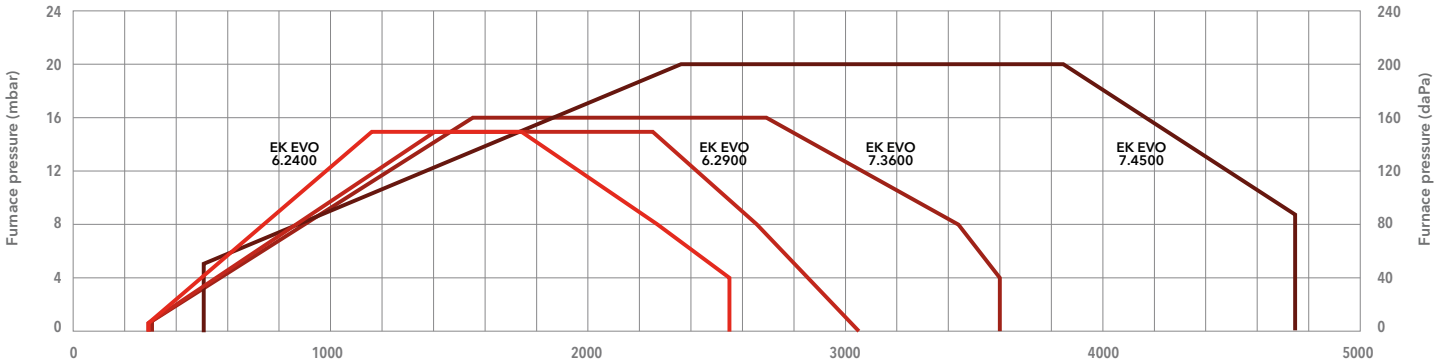
Low NOx Class 2

EK EVO 6 GL-EZ3 / EK EVO 7 GL-EZ3

290 ... 4740 kW
Two stage progressive/modulating electronic in gas / Three stages in light oil

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas
  Low NOx class 2 (≤185 mg/kWh) according to EN267 in light oil
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 and EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 6.2400 GL-EZ3	EK EVO 6.2900 GL-EZ3	EK EVO 7.3600 GL-EZ3	EK EVO 7.4500 GL-EZ3
Operating range gas		290 – 2550 kW	290 – 3050 kW	300 – 3600 kW	510 – 4740 kW
Operating range oil		730 – 2470 kW	730 – 2790 kW	1090 – 3600 kW	1300 – 4740 kW
Gas pressure		50 – 500 mbar (50 – 360 mbar for d452 and d453)		50 – 500 mbar (50 – 360 mbar for d452 and d453)	
Gas connection		DN65	DN65	DN65	DN65
Control box / flame detector		BT300 / QRA2	BT300 / QRA2	BT300 / QRA2	BT300 / QRA2
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 3 kW	50 Hz – 4 kW	50 Hz – 5,5 kW	50 Hz – 7,5 kW
Acoustic level		<75 dB(A)	<77 dB(A)	<81 dB(A)	<82,5 dB(A)
CE certificate		0085CL0215	0085CL0215	0085CL0215	0085CL0215
Burner codes (body + head)	KN	**3760186**	**3760189**	**3760192**	**3760195**
	KM	**3760187**	**3760190**	**3760193**	**3760196**
	KL	**3760188**	**3760191**	**3760194**	**3760197**

GAS TRAINS

DUNGS

Model	Code
GT-d452-1"1/2 (*)	3750510
GT-d453-2" (*)	3750511
GT-d454-65	3750512
GT-d455-80	3750513
GT-d456-100	3750514

*: integrated filter

SIEMENS

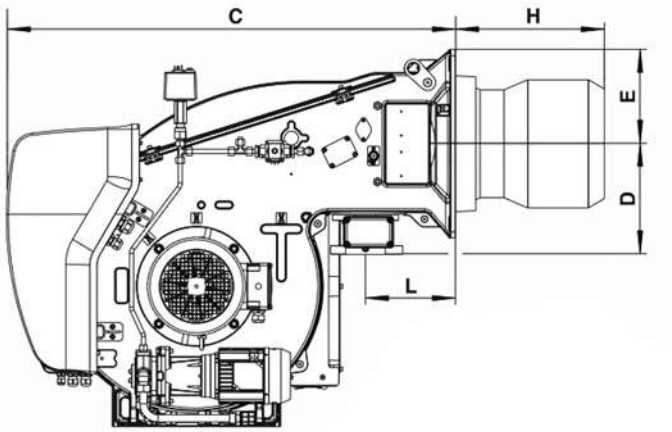
Model	Code
GT-s451-1"1/2	3750525
GT-s452-2"	3750526
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529
GT-s456-125	3750530

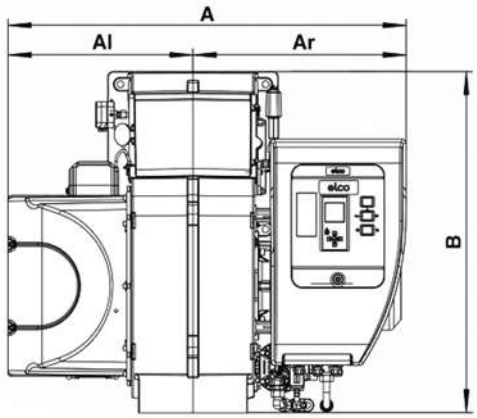
FILTERS

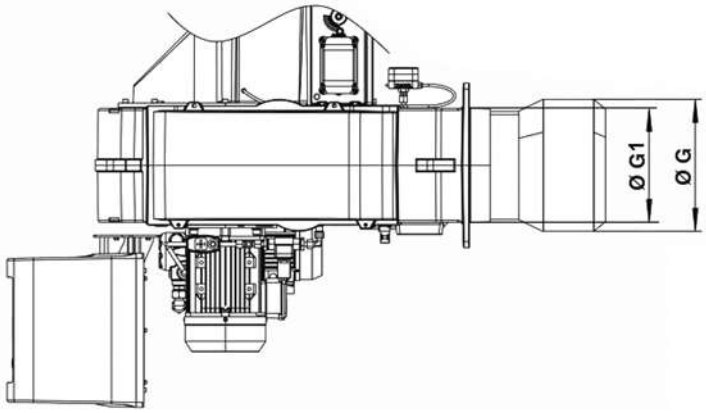
Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

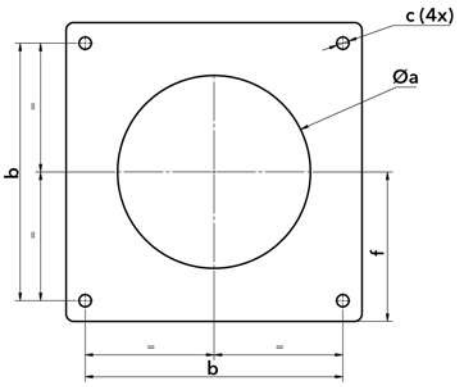
Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 246

DIMENSIONS (mm)





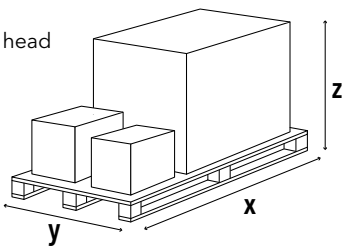




Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Øa	b	c	f
										KN	KM	KL					
EK EVO 6.2400 GL-EZ3	1035	479	556	812	1056	245	200	320	277	322	442	562	223	330-340	340	M16	200
EK EVO 6.2900 GL-EZ3	1035	479	556	812	1056	245	200	320	277	322	442	562	223	330-340	340	M16	200
EK EVO 7.3600 GL-EZ3	1107	510	597	941	1130	276	235	320	339	363	493	623	233	330-400	400	M16	235
EK EVO 7.4500 GL-EZ3	1107	510	597	941	1130	276	235	370	339	363	493	623	233	380-400	400	M16	235

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 6.2400 GL-EZ3	2046	1414	1233	300
EK EVO 6.2900 GL-EZ3	2046	1414	1233	300
EK EVO 7.3600 GL-EZ3	2046	1414	1233	350
EK EVO 7.4500 GL-EZ3	2046	1414	1233	350

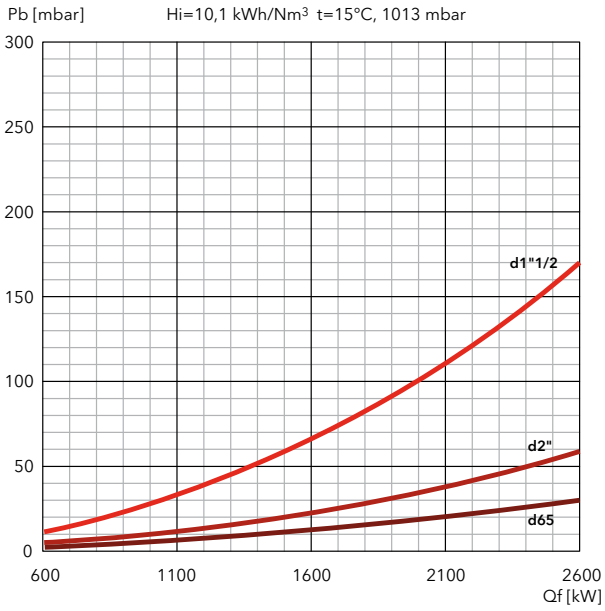
EK EVO 6 GL-EZ3 / EK EVO 7 GL-EZ3

290 ... 4740 kW
Two stage progressive/modulating electronic in gas / Three stages in light oil

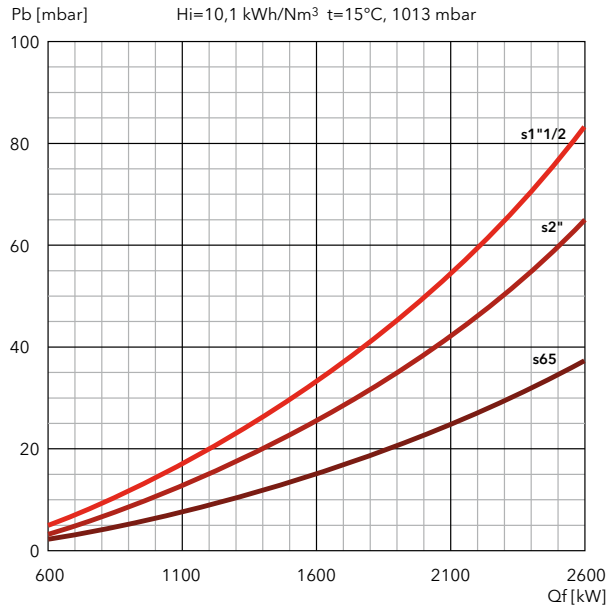
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 6.2400 GL-EZ3

DUNGS

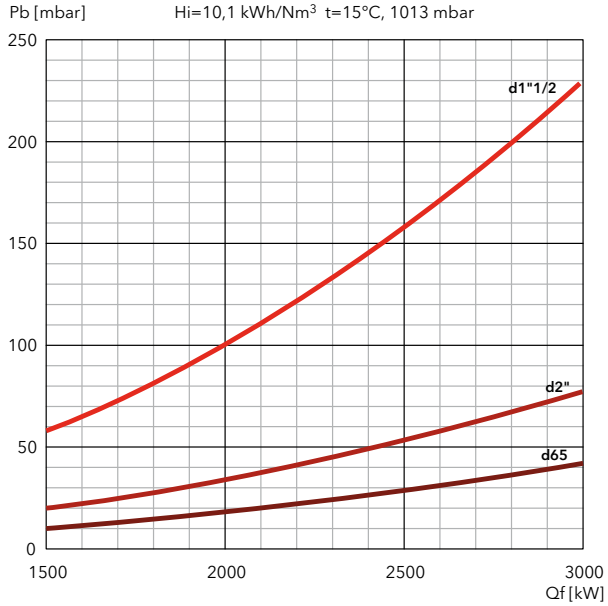


SIEMENS

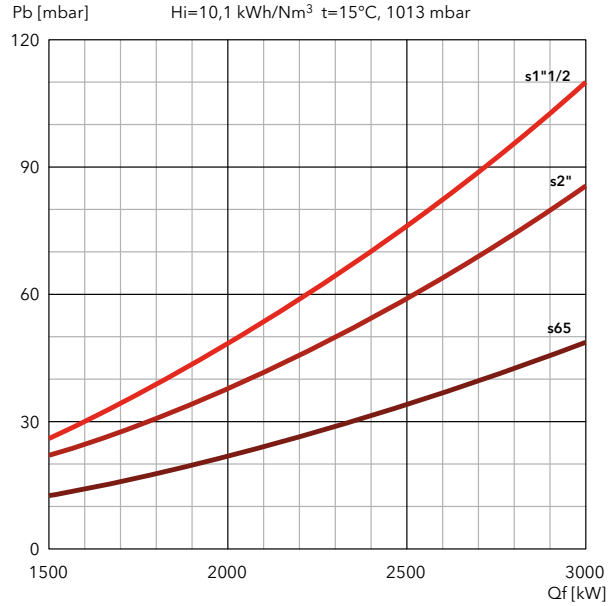


EK EVO 6.2900 GL-EZ3

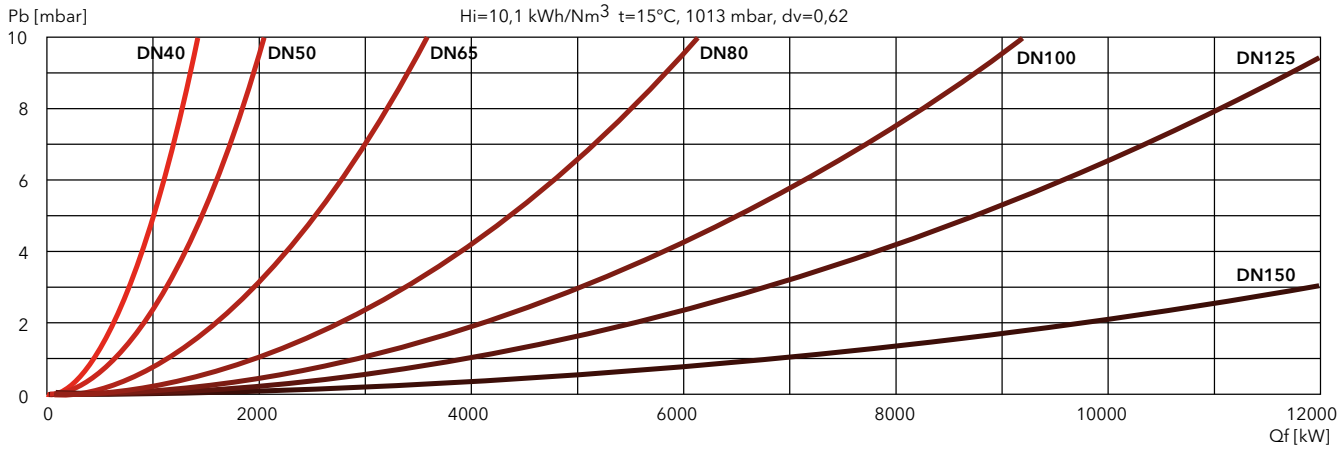
DUNGS



SIEMENS



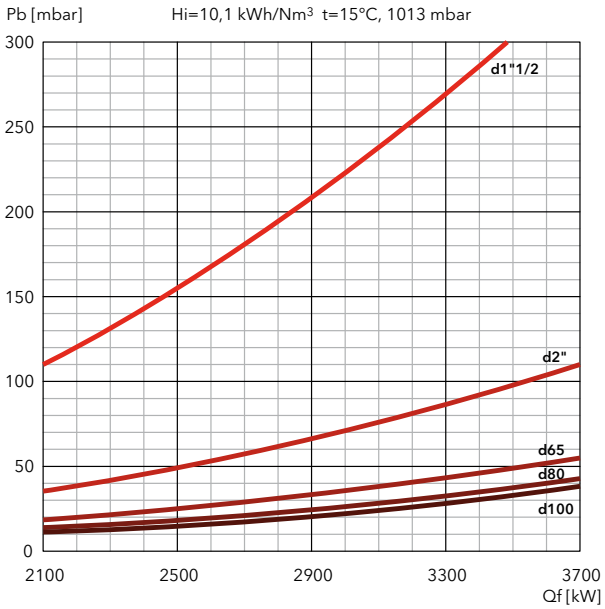
FILTERS



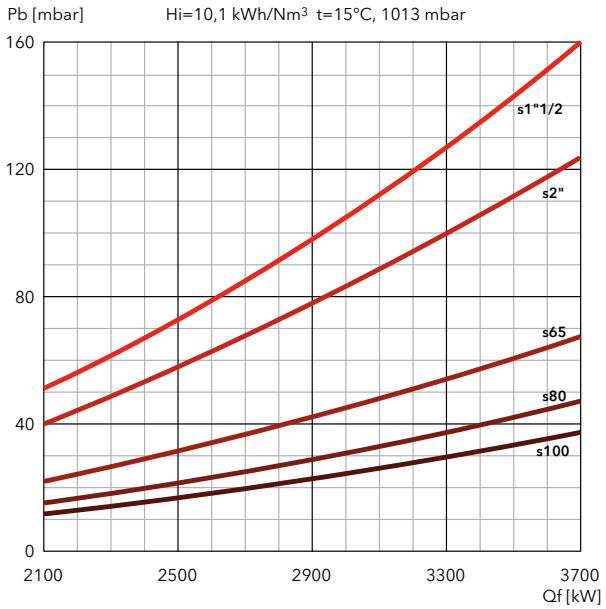
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 7.3600 GL-EZ3

DUNGS

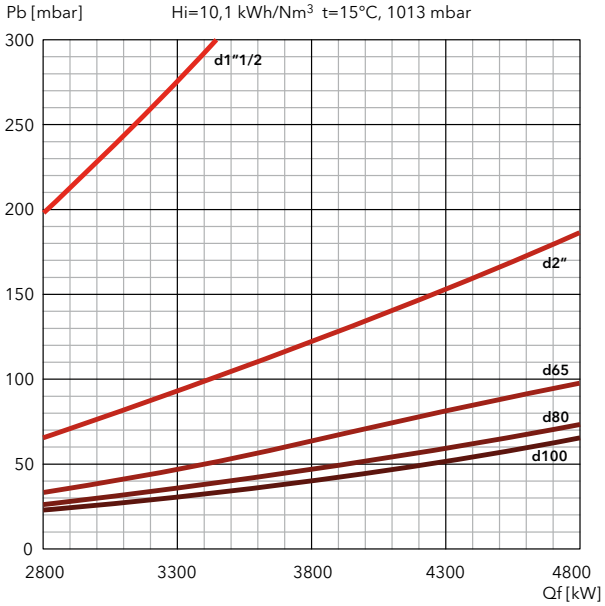


SIEMENS

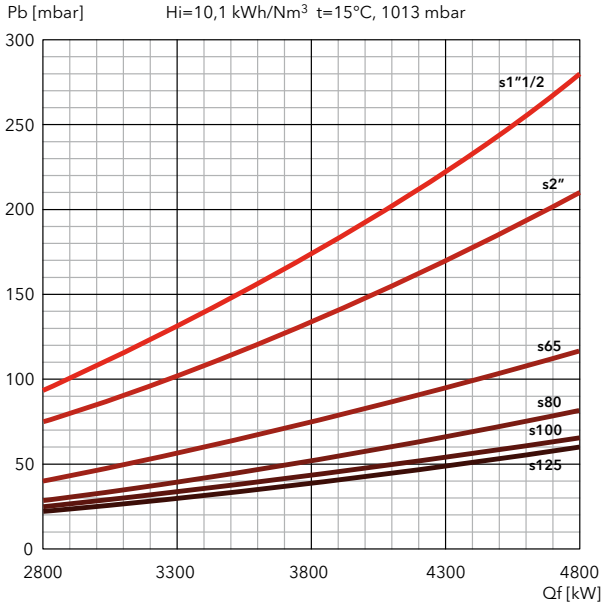


EK EVO 7.4500 GL-EZ3

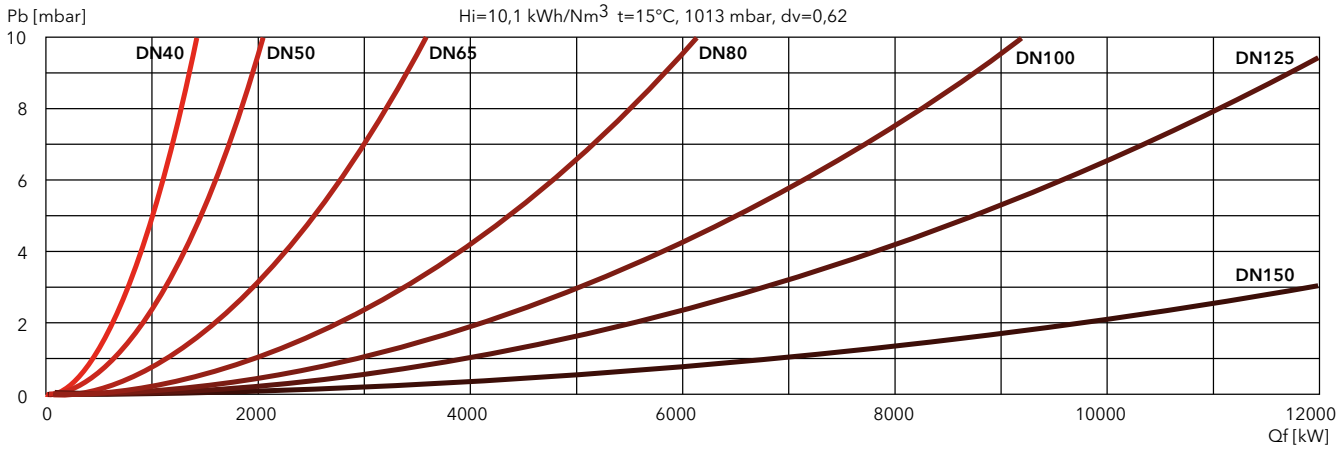
DUNGS



SIEMENS



FILTERS



EK EVO

GAS / LIGHT OIL

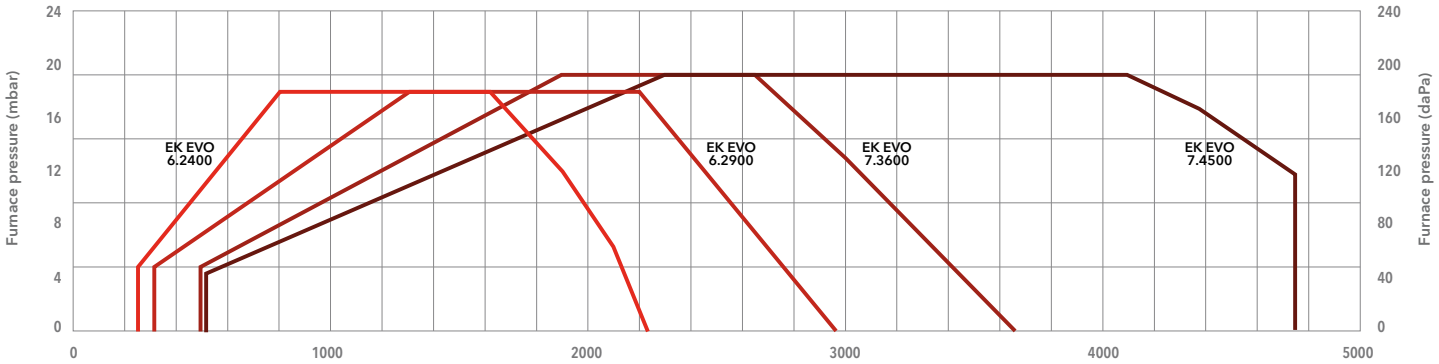
Low NOx Class 2

EK EVO 6 GL-E / EK EVO 7 GL-E

250 ... 4740 kW
Two stage progressive/modulating electronic in gas and in light oil

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas
  Low NOx class 2 (≤185 mg/kWh) according to EN267 in light oil
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 and EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 6.2400 GL-E	EK EVO 6.2900 GL-E	EK EVO 7.3600 GL-E	EK EVO 7.4500 GL-E
Operating range gas		250 – 2230 kW	320 – 2970 kW	490 – 3650 kW	510 – 4740 kW
Operating range oil		510 – 2030 kW	650 – 2970 kW	900 – 3650 kW	1300 – 4740 kW
Gas pressure		50 – 500 mbar (50 – 360 mbar for d452 and d453)		50 – 500 mbar (50 – 360 mbar for d452 and d453)	
Gas connection		DN65	DN65	DN65	DN65
Control box / flame detector		BT300 / QRA2	BT300 / QRA2	BT300 / QRA2	BT300 / QRA2
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 3 kW	50 Hz – 4 kW	50 Hz – 5,5 kW	50 Hz – 7,5 kW
Acoustic level		<77 dB(A)	<77 dB(A)	<81 dB(A)	<82,5 dB(A)
CE certificate		0085CL0215	0085CL0215	0085CL0215	0085CL0215
Burner codes (body + head)	KN	**3754276**	**3754277**	**3754278**	**3754279**
	KM	**3754280**	**3754281**	**3754282**	**3754283**
	KL	**3754284**	**3754285**	**3754286**	**3754287**

GAS TRAINS

DUNGS

Model	Code
GT-d452-1"1/2 (*)	3750510
GT-d453-2" (*)	3750511
GT-d454-65	3750512
GT-d455-80	3750513
GT-d456-100	3750514

*: integrated filter

SIEMENS

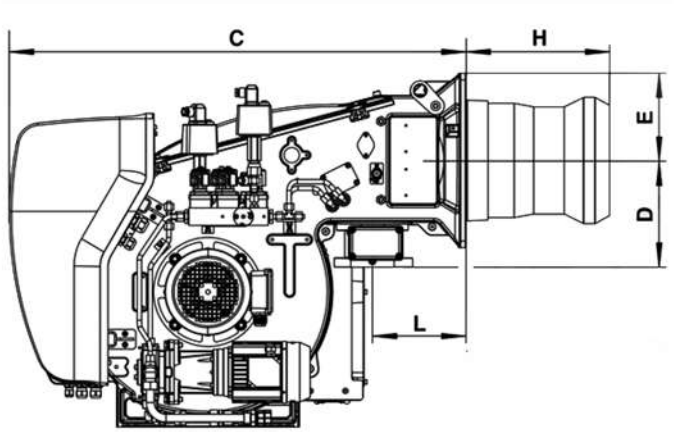
Model	Code
GT-s451-1"1/2	3750525
GT-s452-2"	3750526
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529
GT-s456-125	3750530

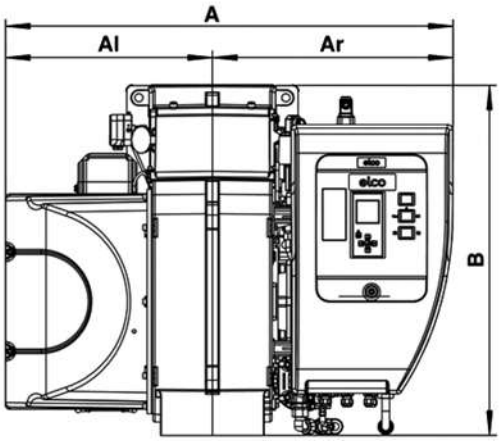
FILTERS

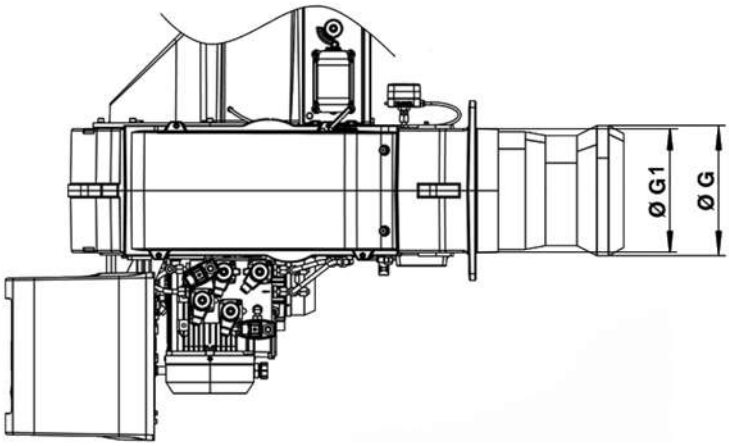
Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

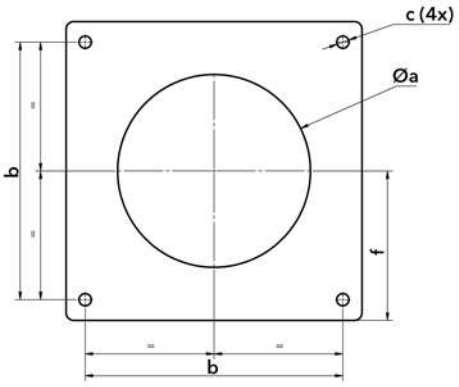
Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 246

DIMENSIONS (mm)







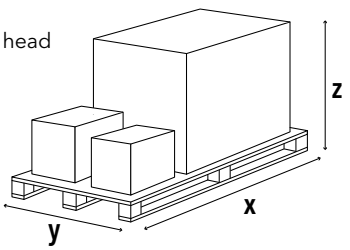


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L
										KN	KM	KL	
EK EVO 6.2400 GL-E	1035	479	556	812	1056	245	200	290	277	322	442	562	223
EK EVO 6.2900 GL-E	1035	479	556	812	1056	245	200	310	277	322	442	562	223
EK EVO 7.3600 GL-E	1107	510	597	941	1130	276	235	340	339	363	493	623	233
EK EVO 7.4500 GL-E	1107	510	597	941	1130	276	235	370	339	363	493	623	233

Øa	b	c	f
300-340	340	M16	200
320-340	340	M16	200
350-400	400	M16	235
380-400	400	M16	235

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 6.2400 GL-E	2046	1414	1233	300
EK EVO 6.2900 GL-E	2046	1414	1233	300
EK EVO 7.3600 GL-E	2046	1414	1233	350
EK EVO 7.4500 GL-E	2046	1414	1233	350

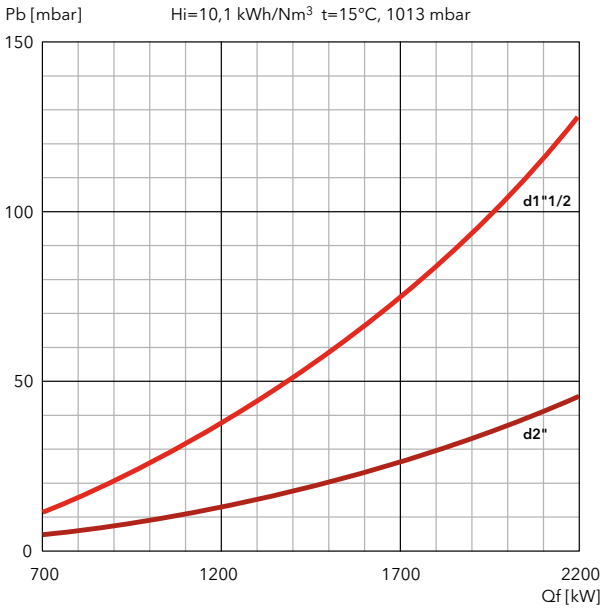
EK EVO 6 GL-E / EK EVO 7 GL-E

250 ... 4740 kW
Two stage progressive/modulating electronic in gas and in light oil

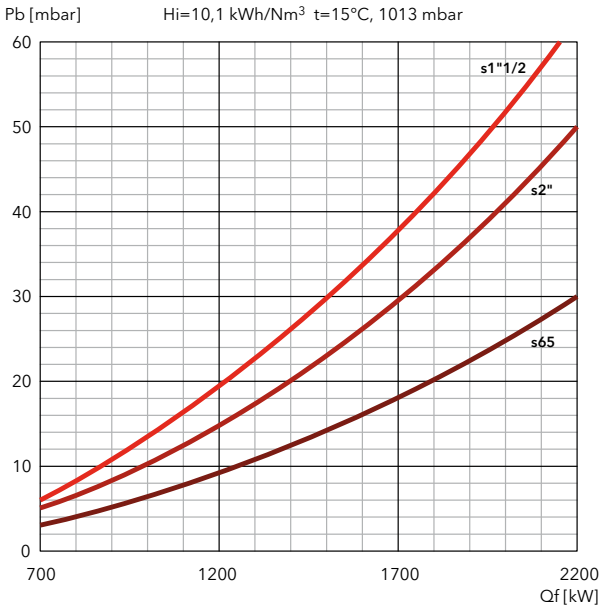
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 6.2400 GL-E

DUNGS

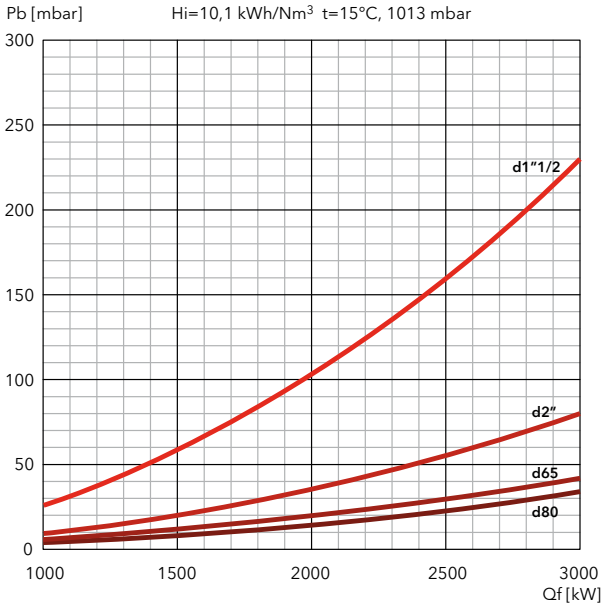


SIEMENS

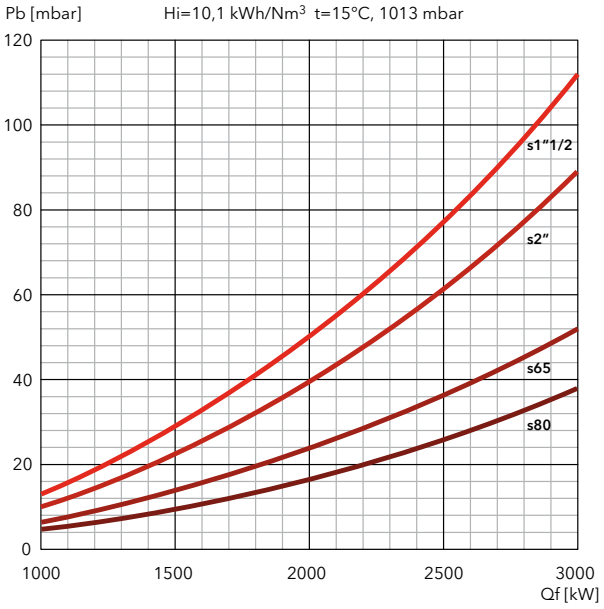


EK EVO 6.2900 GL-E

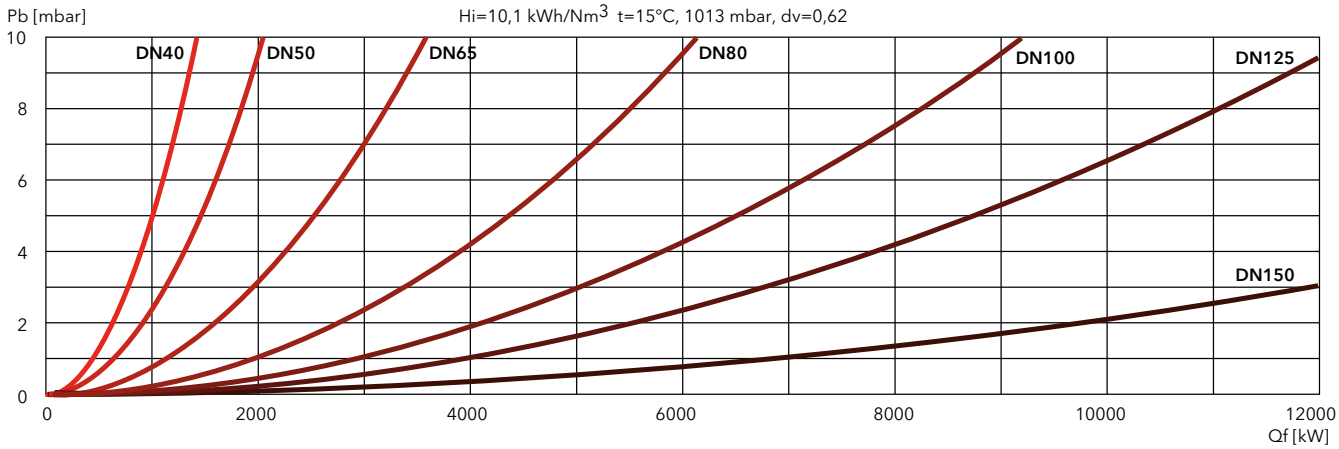
DUNGS



SIEMENS



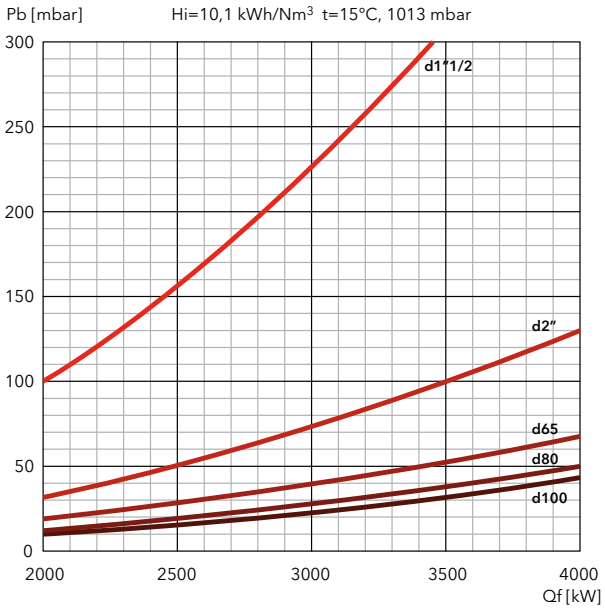
FILTERS



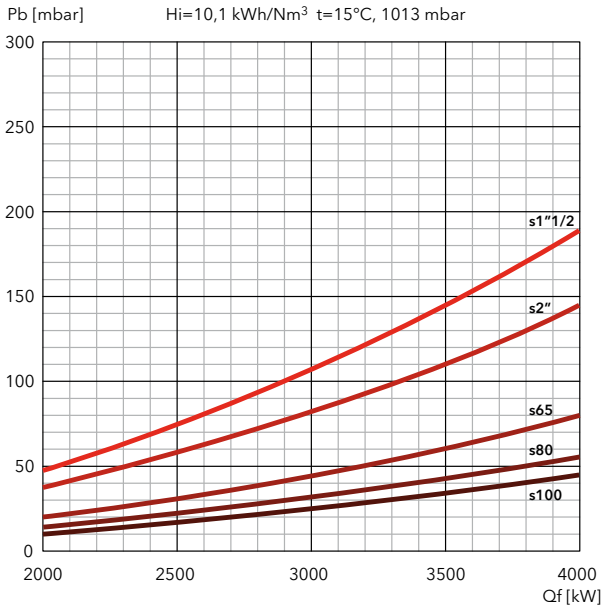
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 7.3600 GL-E

DUNGS

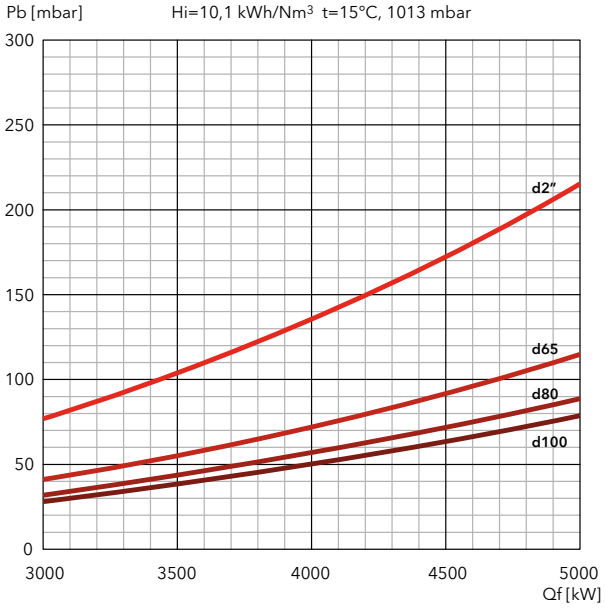


SIEMENS

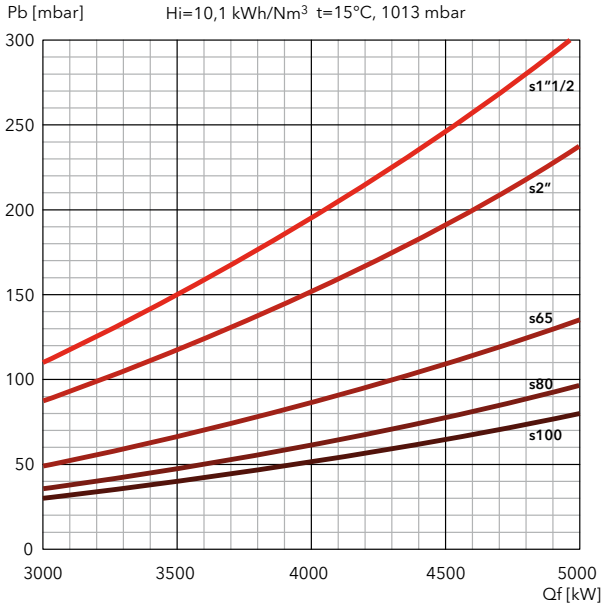


EK EVO 7.4500 GL-E

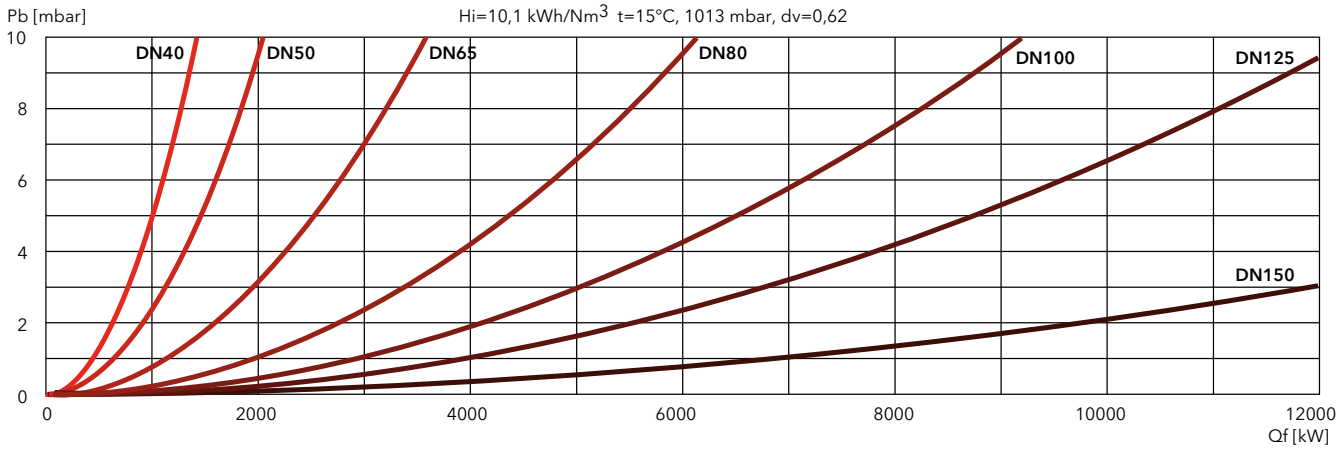
DUNGS



SIEMENS



FILTERS



EK EVO

GAS / LIGHT OIL

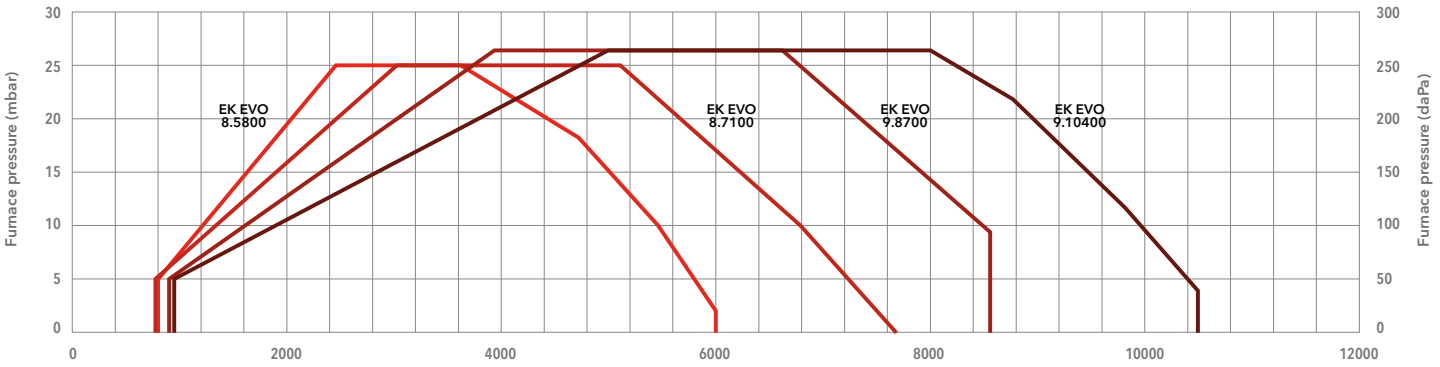
Low NOx Class 2

EK EVO 8 GL-E / EK EVO 9 GL-E

790 ... 10620 kW
Two stage progressive/modulating electronic in gas and in light oil

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm^3;
  light oil, viscosity 6 mm^2/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas
  Low NOx class 2 (≤185 mg/kWh) according to EN267 in light oil
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 and EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 8.5800 GL-E	EK EVO 8.7100 GL-E	EK EVO 9.8700 GL-E	EK EVO 9.10400 GL-E
Operating range gas		800 – 6000 kW	790 – 7700 kW	880 – 8530 kW	910 – 10620 kW
Operating range oil		1210 – 6000 kW	1450 – 7700 kW	2400 – 8530 kW	2820 – 10620 kW
Gas pressure		100 – 500 mbar (100 – 360 mbar for d457)		100 – 500 mbar (100 – 360 mbar for d457)	
Gas connection		DN100	DN100	DN100	DN100
Control box / flame detector		BT300 / QRA2	BT300 / QRA2	BT300 / QRA2	BT300 / QRA2
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor		50 Hz – 11 kW	50 Hz – 15 kW	50 Hz – 18,5 kW	50 Hz – 22 kW
Acoustic level		<80,5 dB(A)	<82,6 dB(A)	<85,5 dB(A)	<86,2 dB(A)
CE certificate		0085CL0215	0085CL0215	0085CL0215	0085CL0215
Burner codes (body + head)	KN	**3754601**	**3754602**	**3754603**	**3754604**
	KM	**3754605**	**3754606**	**3754607**	**3754608**
	KL	**3754609**	**3754610**	**3754611**	**3754612**

GAS TRAINS

DUNGS

Model	Code
GT-d457-2" (*)	3750515
GT-d458-65	3750516
GT-d459-80	3750517
GT-d460-100	3750518
GT-d4...-125	on request

*: integrated filter

SIEMENS

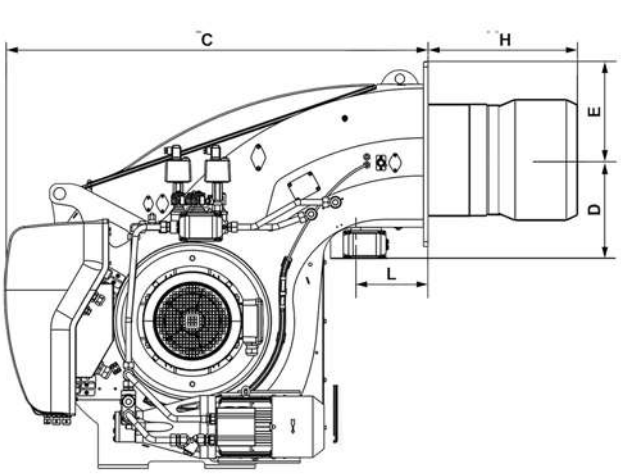
Model	Code
GT-s456-1"1/2	3750536
GT-s457-2"	3750537
GT-s458-65	3750538
GT-s459-80	3750539
GT-s460-100	3750540
GT-s461-125	3750541

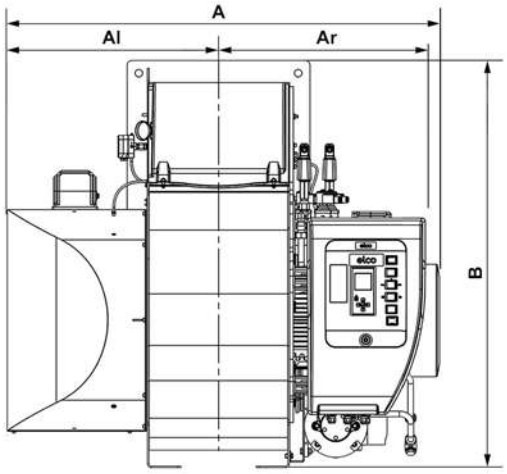
FILTERS

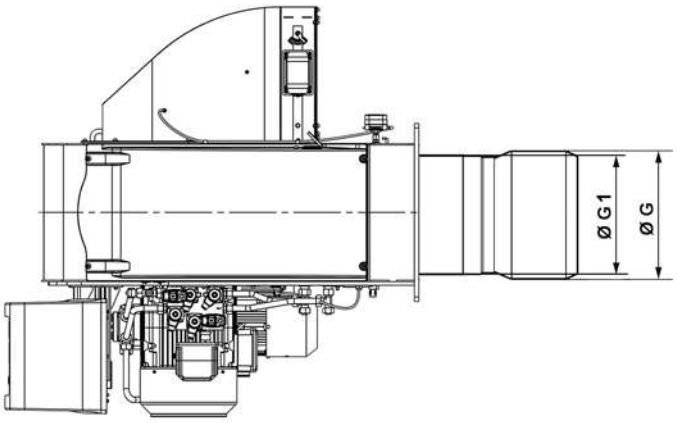
Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

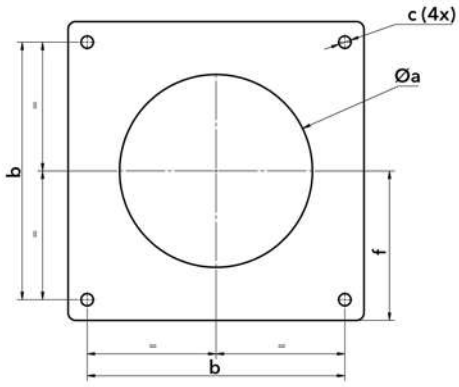
Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 247

DIMENSIONS (mm)





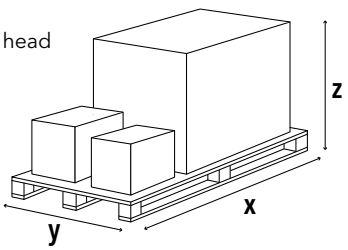




Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Øa	b	c	f
										KN	KM	KL					
EK EVO 8.5800 GL-E	1325	670	655	1231	1351	391	307	400	369	562	702	842	230	430-480	505	M20	293
EK EVO 8.7100 GL-E	1325	670	655	1231	1351	391	307	415	369	583	723	863	230	445-480	505	M20	293
EK EVO 9.8700 GL-E	1336	670	666	1291	1348	332	288	431,5	438,5	355	505	655	230	445-480	505	M20	293
EK EVO 9.10400 GL-E	1400	670	731	1291	1348	332	293	431,5	438,5	355	505	655	230	445-480	505	M20	293

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EKEVO 8.5800 GL-E	2300	1500	1573	580
EKEVO 8.7100 GL-E	2300	1500	1573	580
EKEVO 9.8700 GL-E	2300	1500	1573	700
EKEVO 9.10400 GL-E	2300	1500	1573	700

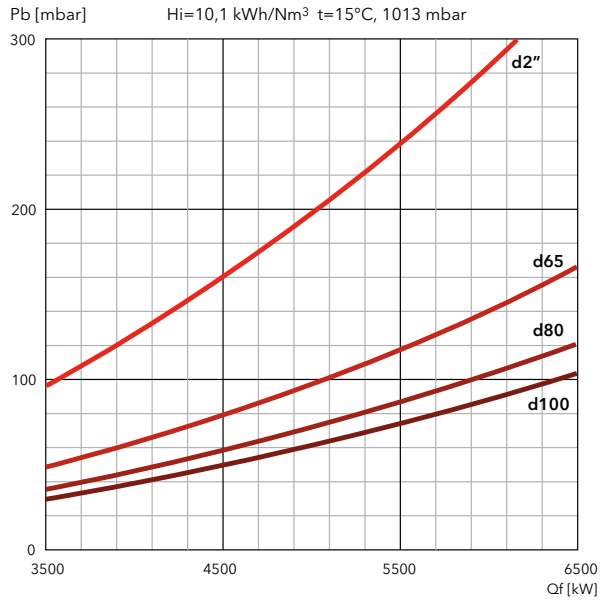
EK EVO 8 GL-E / EK EVO 9 GL-E

790 ... 10620 kW
Two stage progressive/modulating electronic in gas and in light oil

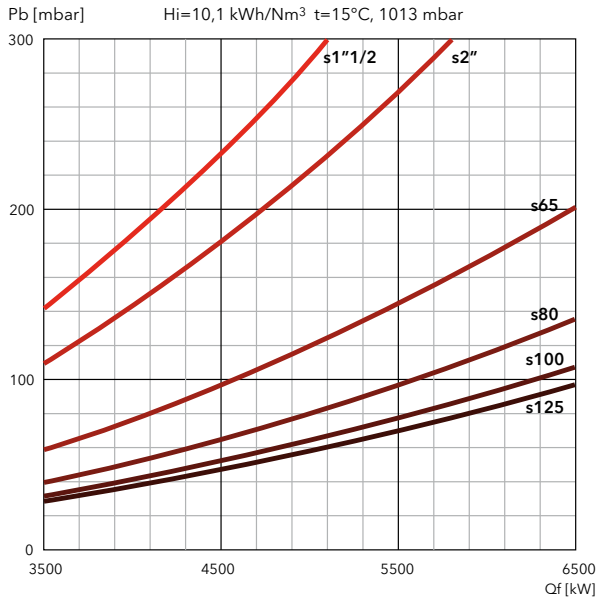
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 8.5800 GL-E

DUNGS

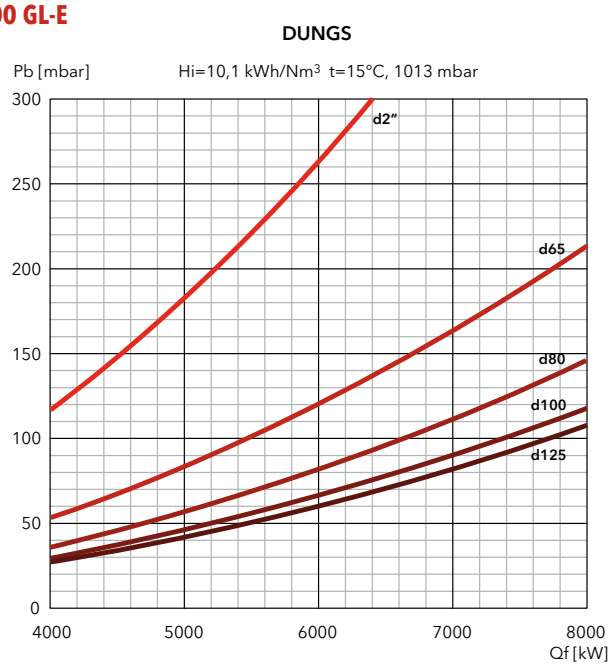


SIEMENS

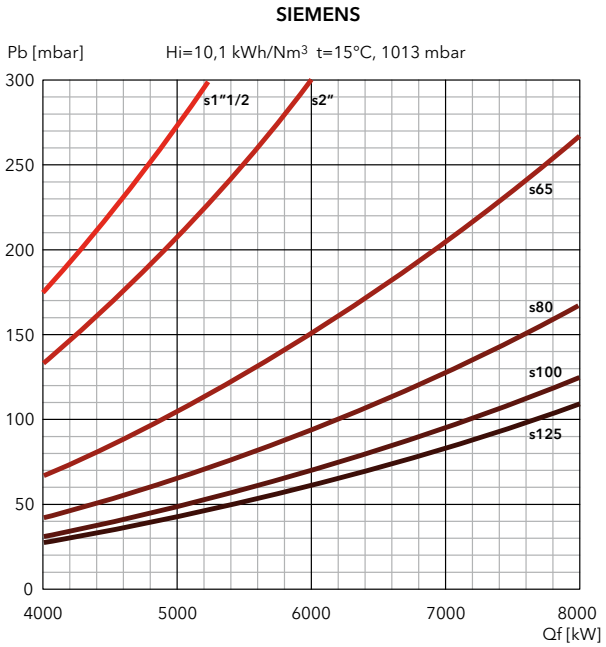


EK EVO 8.7100 GL-E

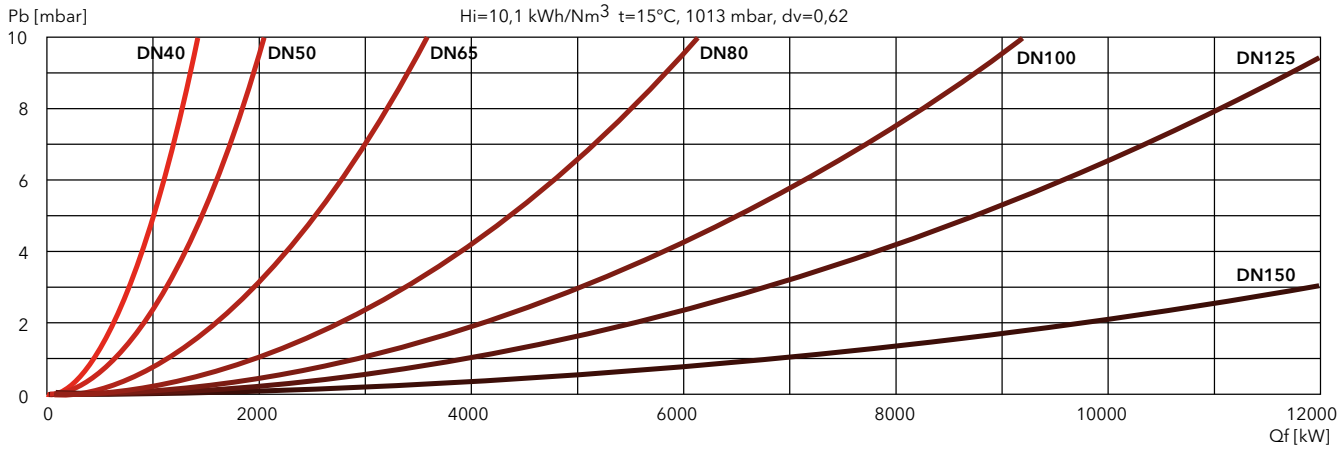
DUNGS



SIEMENS



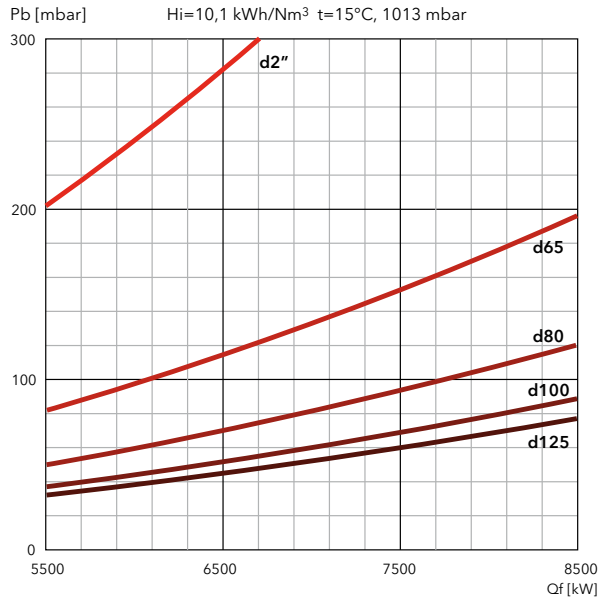
FILTERS



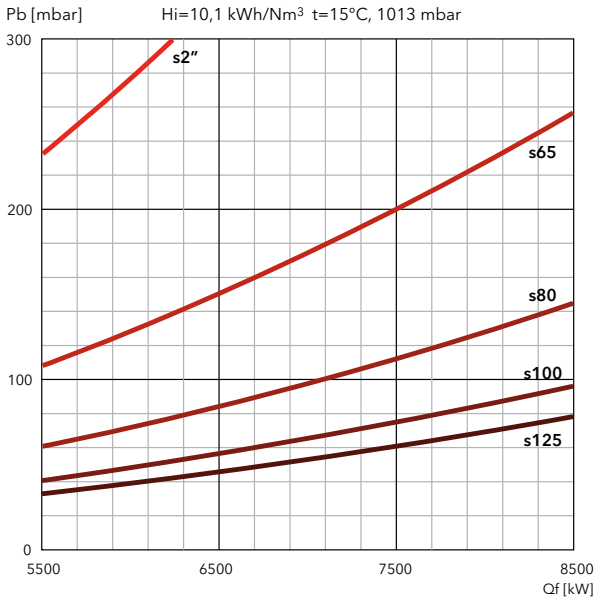
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

EK EVO 9.8700 GL-E

DUNGS

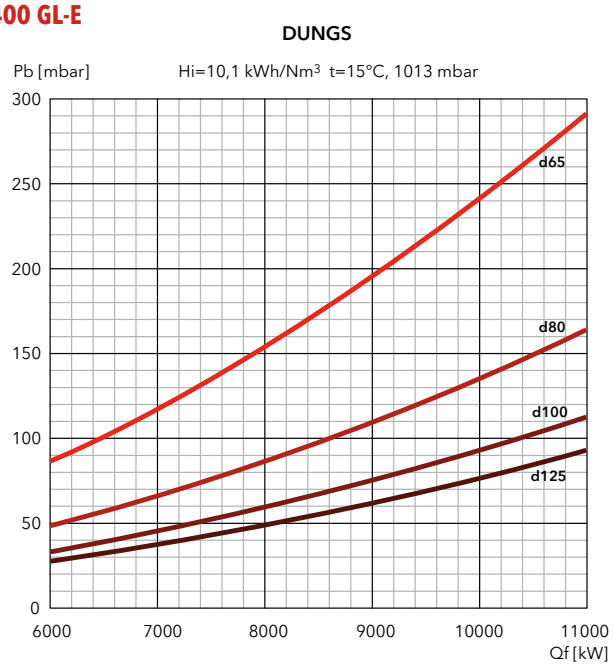


SIEMENS

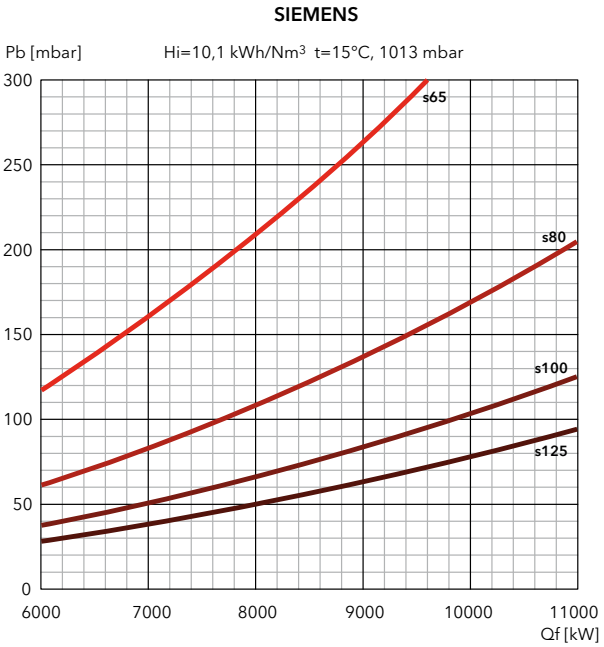


EK EVO 9.10400 GL-E

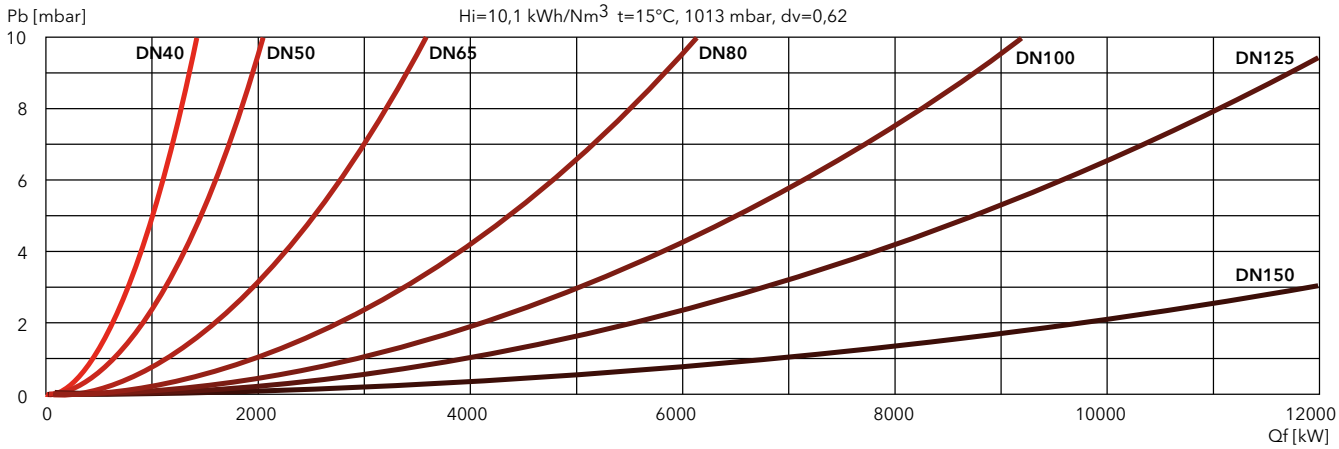
DUNGS



SIEMENS



FILTERS



EK EVO

LIGHT OIL

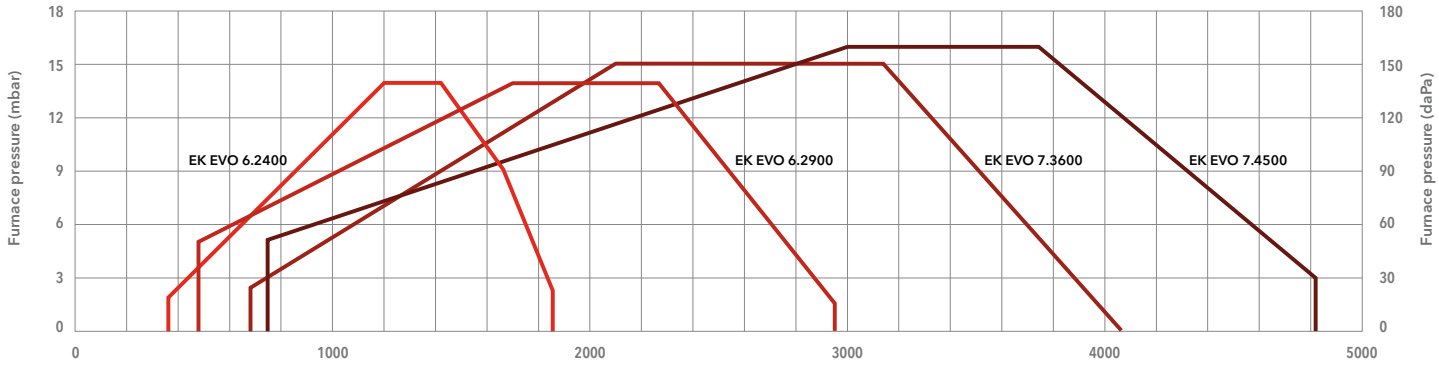
Low NOx Class 3

EK EVO 6 L-EF3 / EK EVO 7 L-EF3

360 ... 4820 kW
Two stage progressive/modulating electronic

- **Fuels:** light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 3 (≤120 mg/kWh) according to EN267
- **Protection level:** IP 41

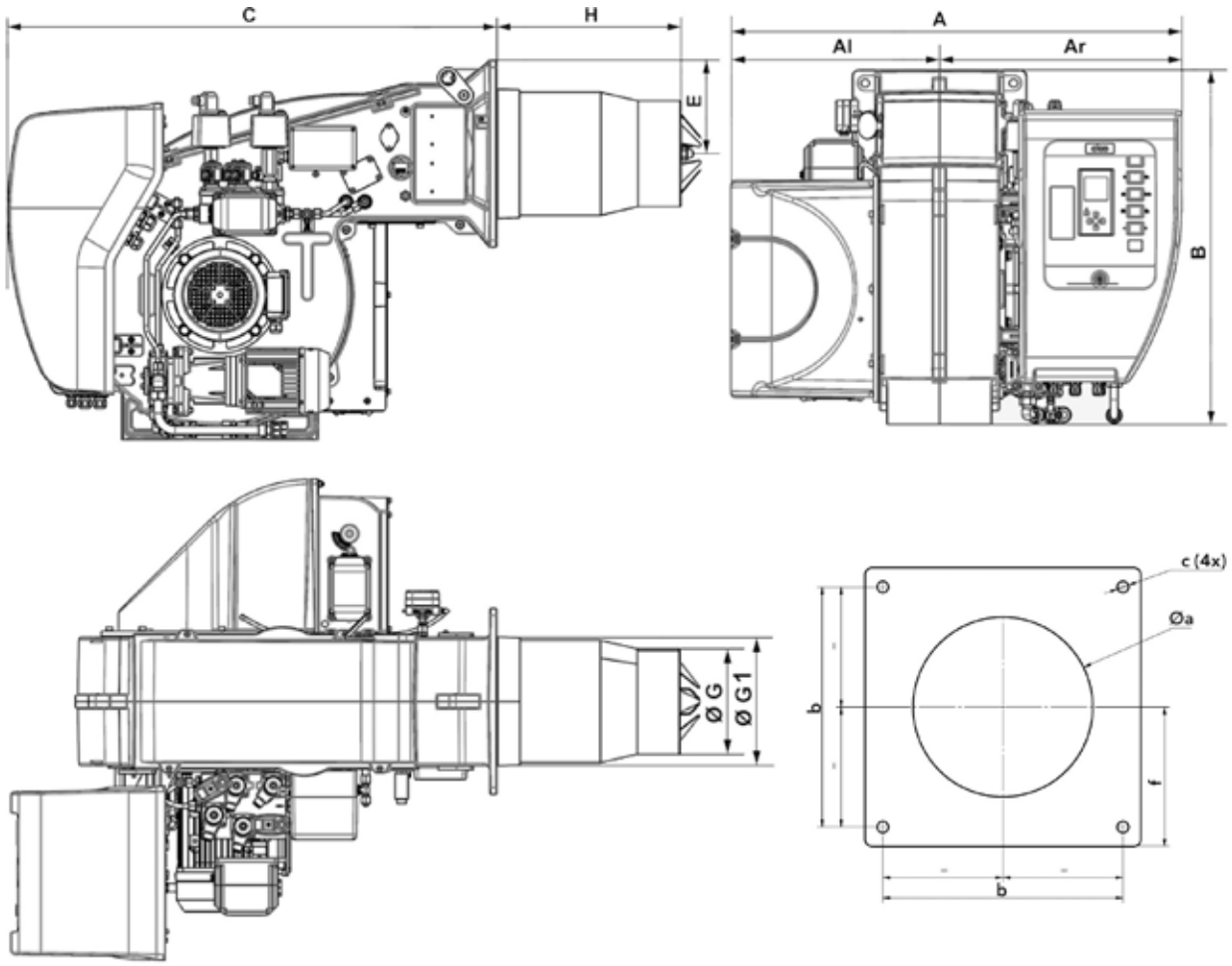
TECHNICAL DATA



Test conditions conforming to EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 6.2400 L-EF3	EK EVO 6.2900 L-EF3	EK EVO 7.3600 L-EF3	EK EVO 7.4500 L-EF3
Operating range		360 – 1850 kW	480 – 2950 kW	680 – 4070 kW	740 – 4820 kW
Fuel connection		DN20 x 1500 mm / R 1/2"	DN20 x 1500 mm / R 1/2"	DN20 x 1500 mm / R 3/4"	DN20 x 1500 mm / R 3/4"
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Control box / flame detector		BT300 / KLC20	BT300 / KLC20	BT300 / KLC20	BT300 / KLC20
Fan motor		50 Hz – 3 kW	50 Hz – 4 kW	50 Hz – 7,5 kW	50 Hz – 7,5 kW
Pump		SUNTEC TA3	SUNTEC TA3	SUNTEC TA4	SUNTEC TA5
Motor pump		50 Hz – 0,75 kW	50 Hz – 0,75 kW	50 Hz – 1,1 kW	50 Hz – 1,5 kW
Acoustic level		<76 dB(A)	<77 dB(A)	<83 dB(A)	<81 dB(A)
CE certificate		0085CL0215	0085CL0215	0085CL0215	0085CL0215
Burner codes (body + head)	KN	**3756774**	**3756775**	**3756776**	**3756777**
	KM	**3756779**	**3756780**	**3756781**	**3756782**
	KL	**3756783**	**3756784**	**3756785**	**3756786**

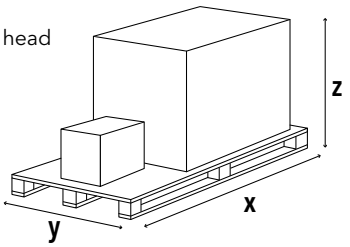
DIMENSIONS (mm)



Model	A	Al	Ar	B	C	E	ØG	ØG1	H			Øa	b	c	f
									KN	KM	KL				
EK EVO 6.2400 L-EF3	1035	479	556	812	1046	200	227	290	400	520	640	300-340	340	M16	200
EK EVO 6.2900 L-EF3	1035	479	556	812	1046	200	263	290	400	520	640	300-340	340	M16	200
EK EVO 7... L-EF3	1107	510	597	941	1121	255	325	325	375	505	635	360-400	400	M16	235

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 6.2400 L-EF3	2046	1414	1233	300
EK EVO 6.2900 L-EF3	2046	1414	1233	300
EK EVO 7.3600 L-EF3	2046	1414	1233	350
EK EVO 7.4500 L-EF3	2046	1414	1233	350

EK EVO

LIGHT OIL

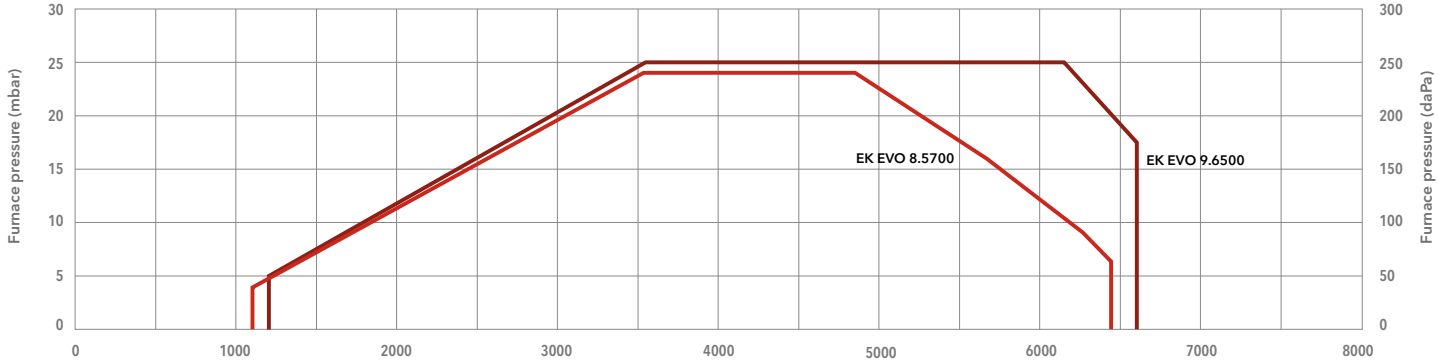
Low NOx Class 3

EK EVO 8 L-EF3 / EK EVO 9 L-EF3

1100 ... 6600 kW
Two stage progressive/modulating electronic

- **Fuels:** light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 3 (≤120 mg/kWh) according to EN267
- **Protection level:** IP 41

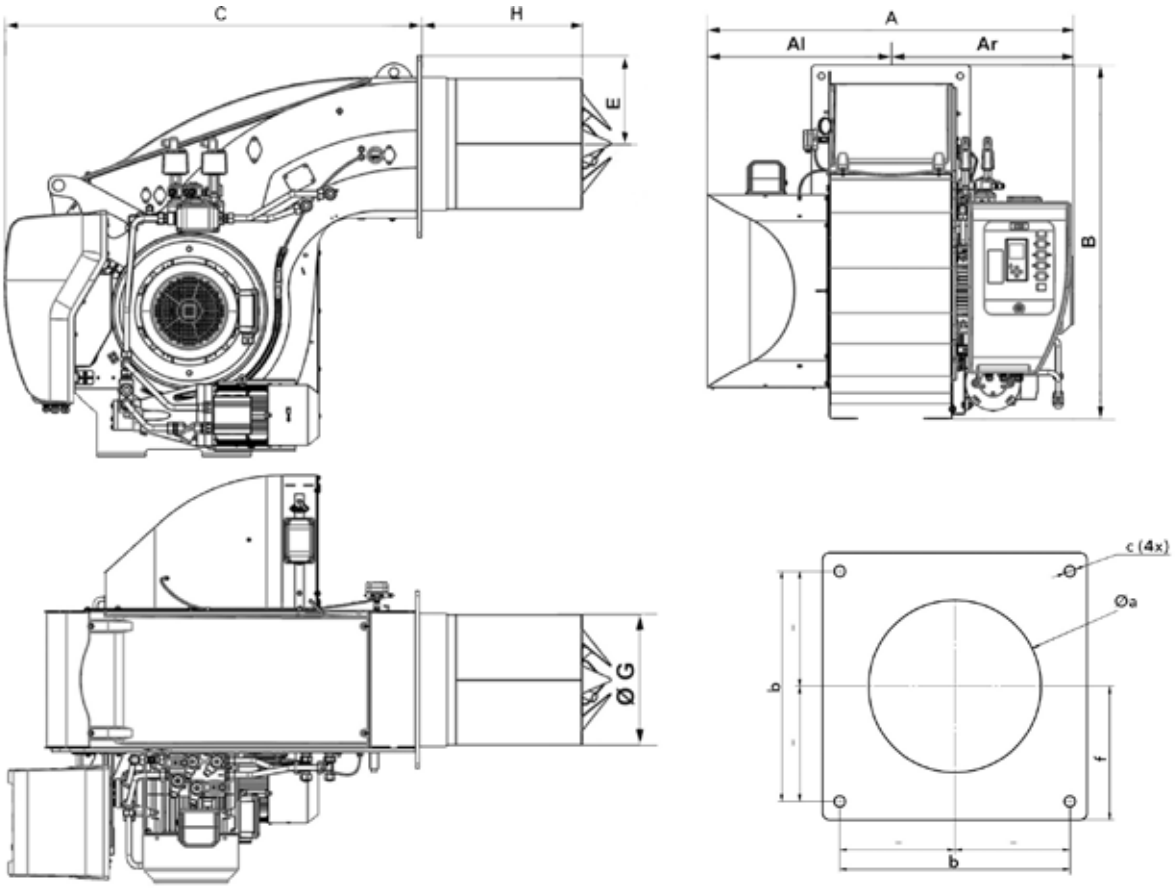
TECHNICAL DATA



Test conditions conforming to EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 8.5700 L-EF3	EK EVO 9.6500 L-EF3
Operating range		1100 – 6450 kW	1200 – 6600 kW
Fuel connection		DN20 x 1500 mm / R 3/4"	DN20 x 1500 mm / R 3/4"
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Control box / flame detector		BT300 / KLC20	BT300 / KLC20
Fan motor		50 Hz – 15 kW	50 Hz – 22 kW
Pump		SMG1630 – 1700 l/h	SMG1630 – 1700 l/h
Motor pump		50 Hz – 3 kW	50 Hz – 3 kW
Acoustic level		<83,9 dB(A)	<87,9 dB(A)
CE certificate		0085CL0215	0085CL0215
Burner codes (body + head)	KN	**3756799**	**3756800**
	KM	**3756803**	**3756804**
	KL	**3756807**	**3756808**

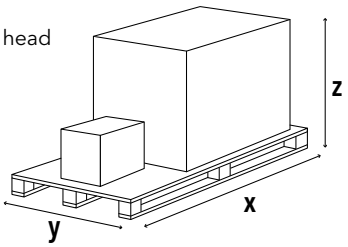
DIMENSIONS (mm)



Model	A	Al	Ar	B	C	E	ØG	H			Øa	b	c	f
								KN	KM	KL				
EK EVO 8.5700 L-EF3	1325	670	655	1231	1351	293	369	528	668	808	380-410	505	M20	293
EK EVO 9.6500 L-EF3	1400	670	730	1291	1348	293	431,5	543	693	843	445-480	505	M20	293

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 8.5700 L-EF3	2300	1500	1573	580
EK EVO 9.6500 L-EF3	2300	1500	1573	700

EK EVO

LIGHT OIL

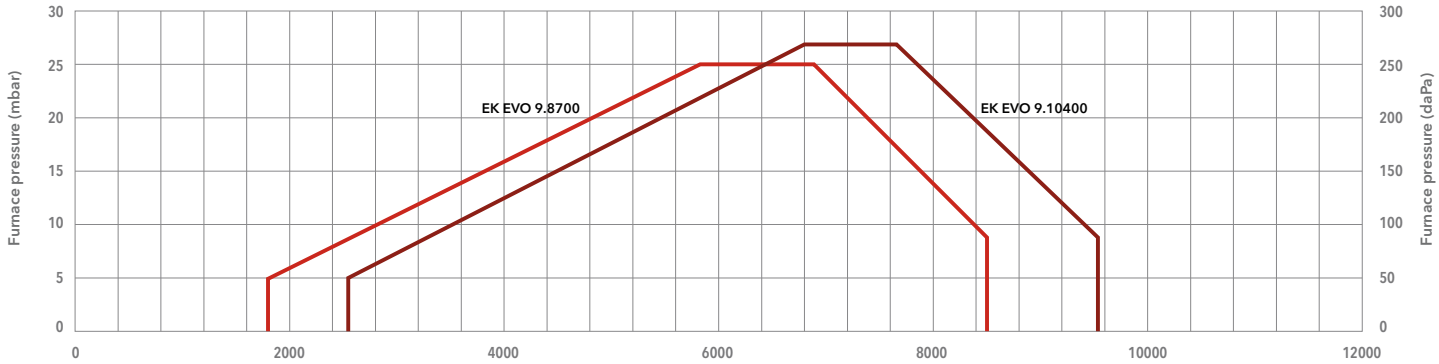
Low NOx Class 3

EK EVO 9 L-EUF

1800 ... 9570 kW
Two stage progressive/modulating electronic

- **Fuels:** light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 3 (≤120 mg/kWh) according to EN267
- **Protection level:** IP 41

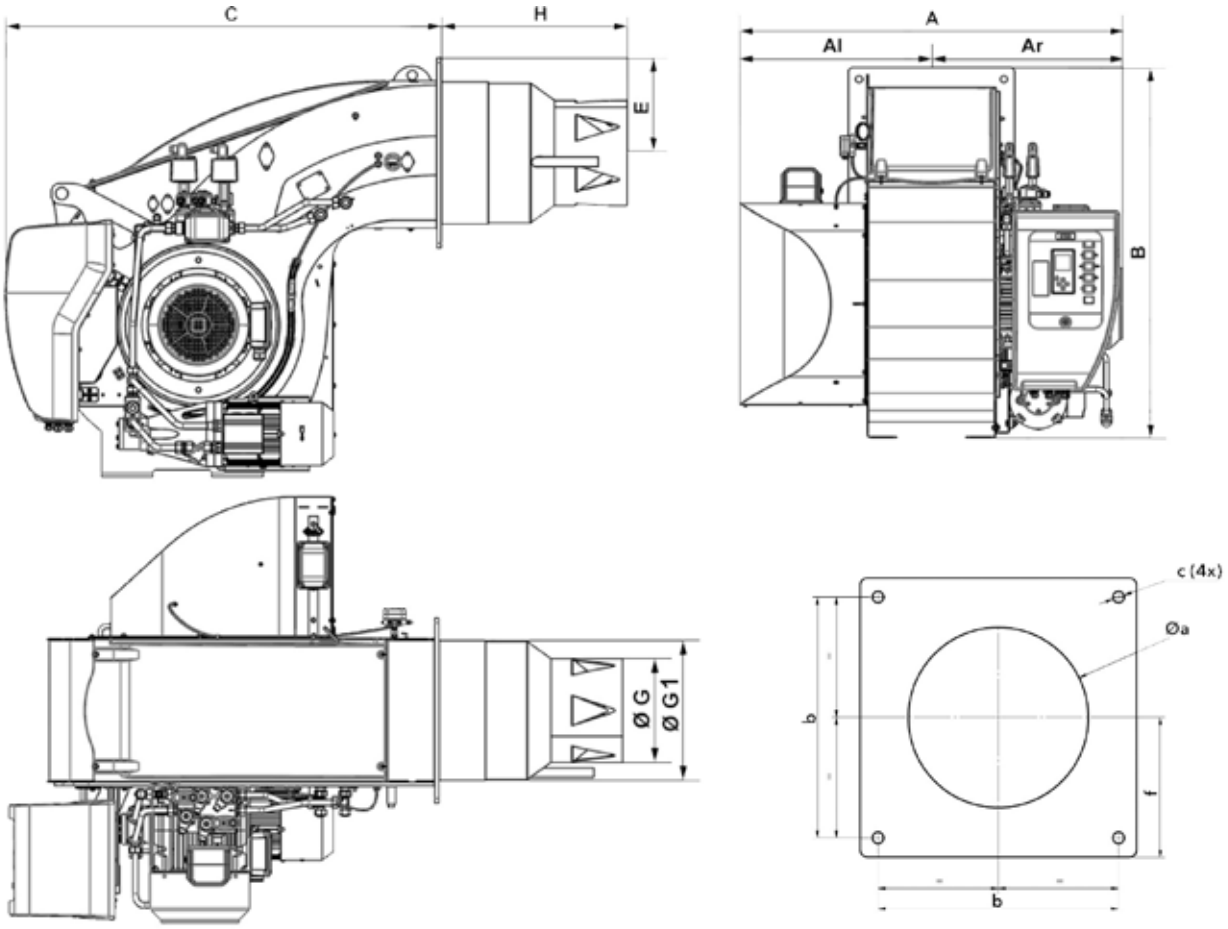
TECHNICAL DATA



Test conditions conforming to EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 9.8700 L-EUF	EK EVO 9.10400 L-EUF
Operating range		1800 – 8500 kW	2550 – 9570 kW
Fuel connection		DN20 x 1500 mm / R 3/4"	DN25 x 1500 mm / R 1"
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Control box / flame detector		BT300 / KLC20	BT300 / KLC20
Fan motor		50 Hz – 18,5 kW	50 Hz – 22 kW
Pump		SMG1630 – 1700 l/h	SMG1631 – 2200 l/h
Motor pump		50 Hz – 3 kW	50 Hz – 4 kW
Acoustic level		<85,9 dB(A)	<86,6 dB(A)
CE certificate		0085CL0215	0085CL0215
Burner codes (body + head)	**KN**	**3756801**	**3756802**
	KM	**3756805**	**3756806**
	KL	**3756809**	**3756810**

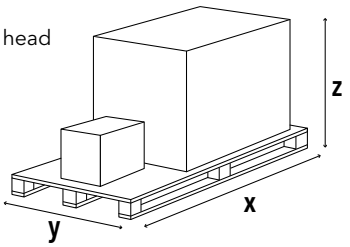
DIMENSIONS (mm)



Model	A	Al	Ar	B	C	E	ØG	ØG1	H			Øa	b	c	f
									KN	KM	KL				
EK EVO 9.8700 L-EUF	1336	670	666	1291	1348	293	320	431,5	575	725	875	445-480	505	M20	293
EK EVO 9.10400 L-EUF	1400	670	730	1291	1348	293	330	431,5	575	725	875	445-480	505	M20	293

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 9.8700 L-EUF	2300	1500	1573	700
EK EVO 9.10400 L-EUF	2300	1500	1573	700

EK EVO

LIGHT OIL

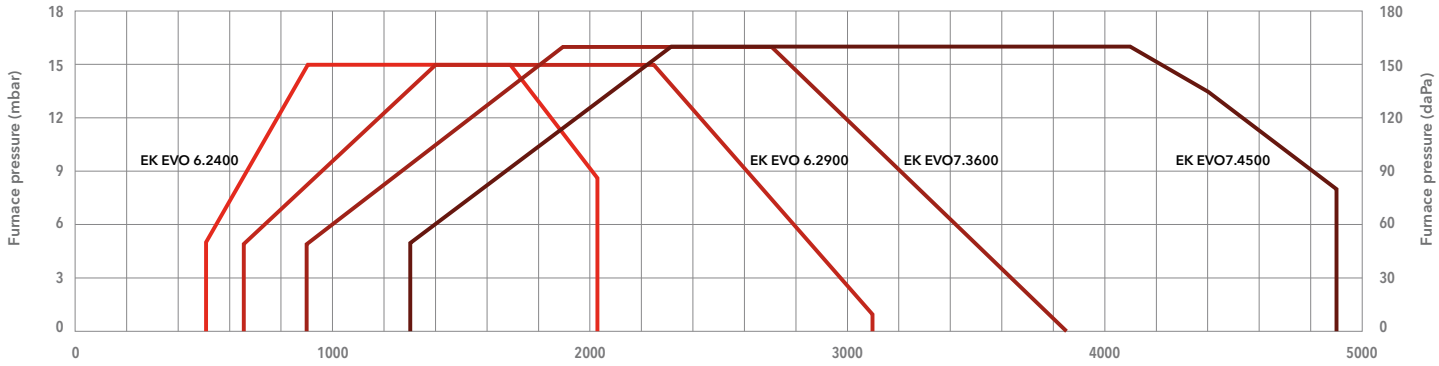
Low NOx Class 2

EK EVO 6 L-E / EK EVO 7 L-E

510 ... 4900 kW
Two stage progressive/modulating electronic

- **Fuels:** light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 2 (≤185 mg/kWh) according to EN267
- **Protection level:** IP 41

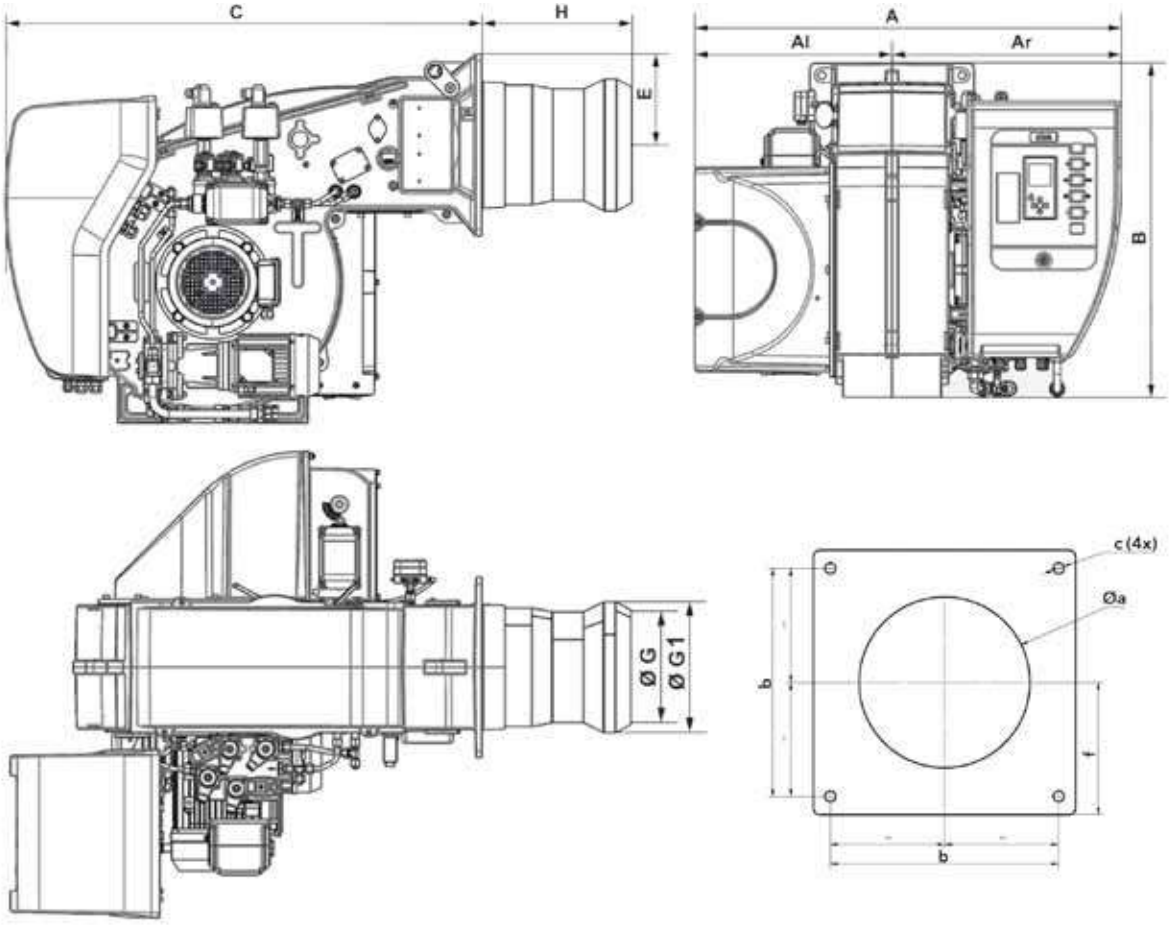
TECHNICAL DATA



Test conditions conforming to EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 6.2400 L-E	EK EVO 6.2900 L-E	EK EVO 7.3600 L-E	EK EVO 7.4500 L-E
Operating range		510 – 2030 kW	650 – 3100 kW	900 – 3850 kW	1300 – 4900 kW
Fuel connection		DN20 x 1500 mm / R 1/2"	DN20 x 1500 mm / R 1/2"	DN20 x 1500 mm / R 3/4"	DN20 x 1500 mm / R 3/4"
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Control box / flame detector		BT300 / KLC20	BT300 / KLC20	BT300 / KLC20	BT300 / KLC20
Fan motor		50 Hz – 3 kW	50 Hz – 4 kW	50 Hz – 5,5 kW	50 Hz – 7,5 kW
Pump		SUNTEC TA3	SUNTEC TA3	SUNTEC TA4	SUNTEC TA5
Motor pump		50 Hz – 0,75 kW	50 Hz – 0,75 kW	50 Hz – 1,1 kW	50 Hz – 1,5 kW
Acoustic level		<77 dB(A)	<77 dB(A)	<81 dB(A)	<82,5 dB(A)
CE certificate		0085CL0215	0085CL0215	0085CL0215	0085CL0215
Burner codes (body + head)	**KN**	**3756752**	**3756755**	**3756758**	**3756761**
	KM	**3756751**	**3756754**	**3756757**	**3756760**
	KL	**3756750**	**3756753**	**3756756**	**3756759**

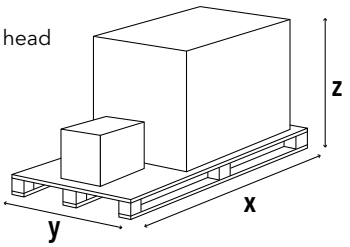
DIMENSIONS (mm)



Model	A	Al	Ar	B	C	E	ØG	ØG1	H			Øa	b	c	f
									KN	KM	KL				
EK EVO 6.2400 L-E	1035	479	556	812	1046	200	250	290	330	450	570	300-340	340	M16	200
EK EVO 6.2900 L-E	1035	479	556	812	1046	200	265	310	330	450	570	320-340	340	M16	200
EK EVO 7.3600 L-E	1107	510	597	941	1121	235	280	340	375	505	635	340-400	400	M16	235
EK EVO 7.4500 L-E	1107	510	597	941	1121	235	310	370	375	505	635	380-400	400	M16	235

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 6.2400 L-E	2046	1414	1233	300
EK EVO 6.2900 L-E	2046	1414	1233	300
EK EVO 7.3600 L-E	2046	1414	1233	350
EK EVO 7.4500 L-E	2046	1414	1233	350

EK EVO

LIGHT OIL

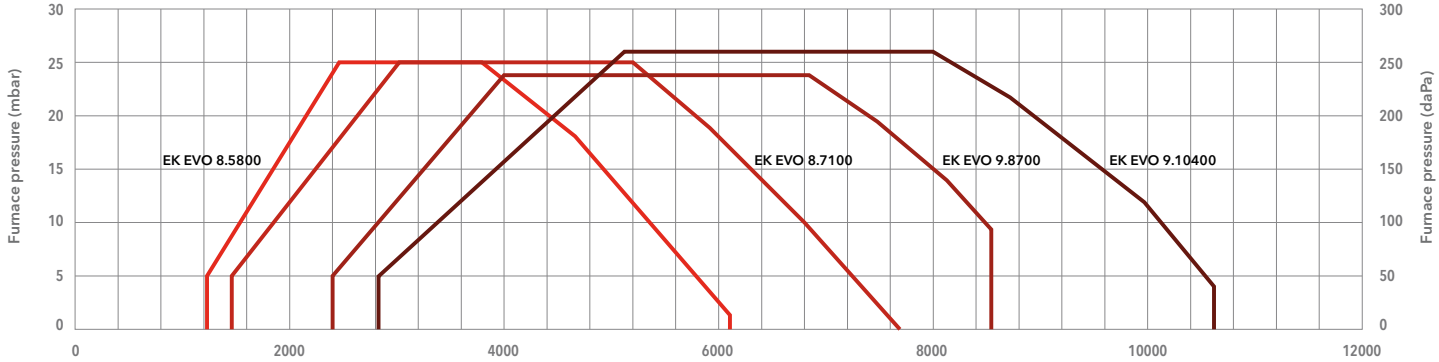
Low NOx Class 2

EK EVO 8 L-E / EK EVO 9 L-E

1210 ... 10620 kW
Two stage progressive/modulating electronic

- **Fuels:** light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 2 (≤185 mg/kWh) according to EN267
- **Protection level:** IP 41

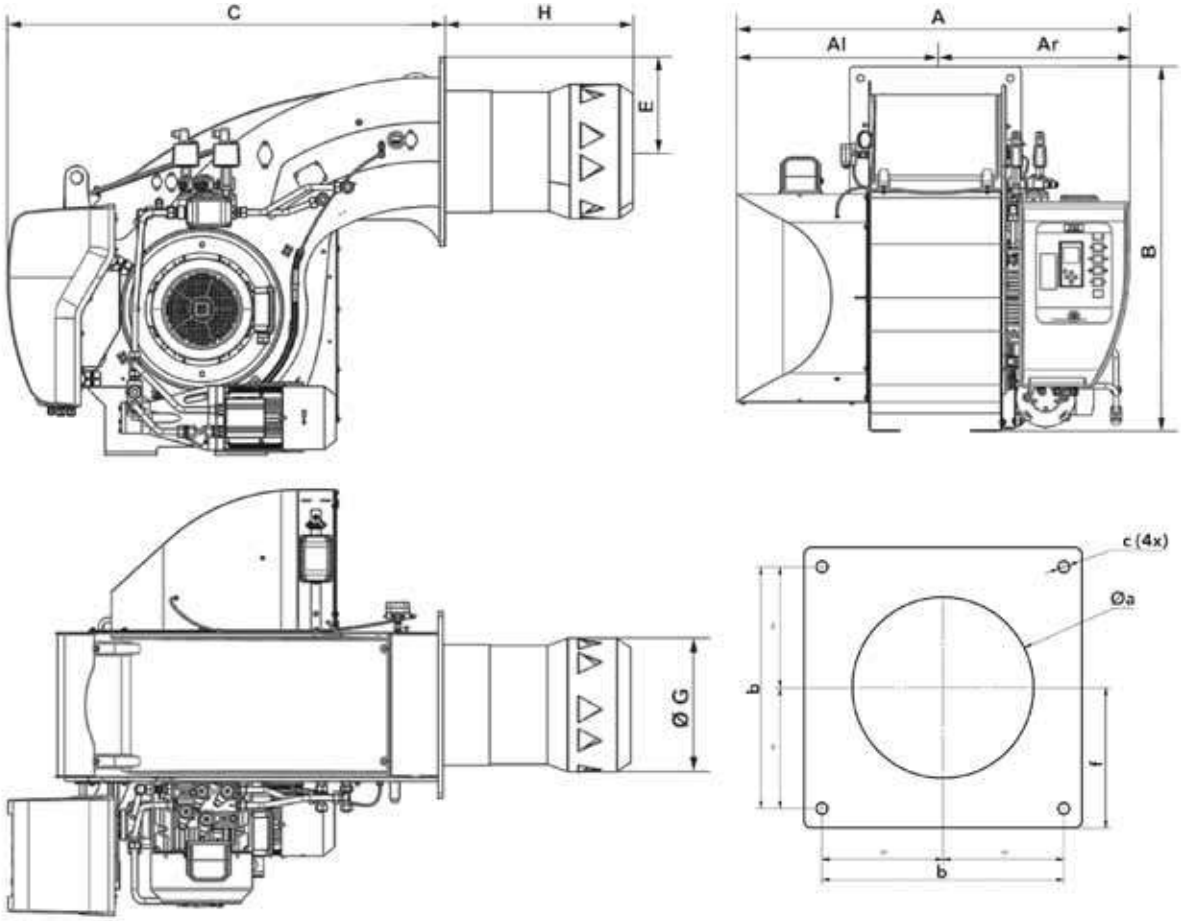
TECHNICAL DATA



Test conditions conforming to EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

		EK EVO 8.5800 L-E	EK EVO 8.7100 L-E	EK EVO 9.8700 L-E	EK EVO 9.10400 L-E
Operating range		1210 – 6100 kW	1450 – 7700 kW	2400 – 8530 kW	2820 – 10620 kW
Fuel connection		DN20 x 1500 mm / R 3/4"	DN20 x 1500 mm / R 3/4"	DN20 x 1500 mm / R 3/4"	DN25 x 1500 mm / R 1"
Auxiliary voltage		1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply		3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Control box / flame detector		BT300 / KLC20	BT300 / KLC20	BT300 / KLC20	BT300 / KLC20
Fan motor		50 Hz – 11 kW	50 Hz – 15 kW	50 Hz – 18,5 kW	50 Hz – 22 kW
Pump		SMG1630 – 1700 l/h	SMG1630 – 1700 l/h	SMG1630 – 1700 l/h	SMG1631 – 2200 l/h
Motor pump		50 Hz – 3 kW	50 Hz – 3 kW	50 Hz – 3 kW	50 Hz – 4 kW
Acoustic level		<80,5 dB(A)	<82,6 dB(A)	<85,5 dB(A)	<86,2 dB(A)
CE certificate		0085CL0215	0085CL0215	0085CL0215	0085CL0215
Burner codes (body + head)	**KN**	**3756764**	**3756767**	**3756770**	**3756773**
	KM	**3756763**	**3756766**	**3756769**	**3756772**
	KL	**3756762**	**3756765**	**3756768**	**3756771**

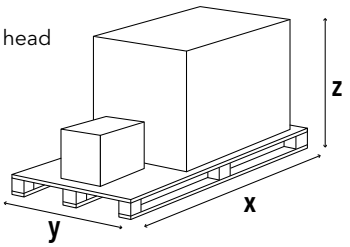
DIMENSIONS (mm)



Model	A	Al	Ar	B	C	E	ØG	H			Øa	b	c	f
								KN	KM	KL				
EK EVO 8.5800 L-E	1325	670	655	1231	1351	293	400	562	702	842	430-480	505	M20	293
EK EVO 8.7100 L-E	1325	670	655	1231	1351	293	415	583	723	863	445-480	505	M20	293
EK EVO 9.8700 L-E	1325	670	655	1291	1348	293	431,5	355	505	655	445-480	505	M20	293
EK EVO 9.10400 L-E	1400	670	730	1291	1348	293	431,5	355	505	655	445-480	505	M20	293

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
EK EVO 8.5800 L-E	2300	1500	1573	580
EK EVO 8.7100 L-E	2300	1500	1573	580
EK EVO 9.8700 L-E	2300	1500	1573	700
EK EVO 9.10400 L-E	2300	1500	1573	700

LCM MODULE (for communication, O_2 control, frequency converter)

Module mounted in factory, requested for O_2 control, Variatron and communication buses connections (the module is available also on request as a separate kit) Note: only one LCM module is necessary for these 3 options For all dual fuel models the LCM module is already included	**3751645**

MODULATING OPERATION

RS55 (Regulator RWF55 + instruction manual), mounted in factory on the switch cabinet – to be connected to the appropriate probe (see "BURNER KITS" session)	for all models except EK EVO 6/7 GL-EZ3	**3751646**
	for EK EVO 6/7 GL-EZ3	**3751647**

FREQUENCY CONVERTER ARRANGEMENT

Burner prepared to be connected to an external frequency converter; this variant includes the VSM module to control the frequency converter.
NOTE: one LCM module is required and must be ordered separately

EK EVO 6.2400 G-E/G-EF3/G-EU2 prepared for an external frequency converter of **3 kW**	**3751673**
EK EVO 6.2900 G-E/G-EF3/G-EU2 and EK EVO 6.2200 G-EU2N prepared for an external frequency converter of **4 kW**	**3751674**
EK EVO 7.3600 G-E/G-EU2 prepared for an external frequency converter of **5,5 kW**	**3751675**
EK EVO 7.3600 G-EF3, EK EVO 7.4500 G-E/G-EF3/G-EU2 and EK EVO 7.3400 G-EU2N prepared for an external frequency converter of **7,5 kW**	**3751676**
EK EVO 7.5800 G-EF3 prepared for an external frequency converter of **11 kW**	**3757370**
EK EVO 7.5800 G-EU2 and EK EVO 7.7000 G-EU2/G-EU3 prepared for an external frequency converter of **15 kW**	**3756304**
EK EVO 8.5800 G-E/G-EU3 prepared for an external frequency converter of **11 kW**	**3754025**
EK EVO 8.7100 G-E/G-EU3 prepared for an external frequency converter of **15 kW**	**3754026**
EK EVO 9.8700 G-E/G-EU3 prepared for an external frequency converter of **18,5 kW**	**3754027**
EK EVO 9.10400 G-E/G-EU3 and EK EVO 9.7200/7500 G-EU2N prepared for an external frequency converter of **22 kW**	**3754028**
EK EVO 9.13000 G-EU2/G-EU3 prepared for an external frequency converter of **37 kW**	**3756303**
EK EVO 6.2400 GL-... prepared for an external frequency converter of **3 kW**	**3751677**
EK EVO 6.2900 GL-... prepared for an external frequency converter of **4 kW**	**3751678**
EK EVO 7.3600 GL-E/GL-EZ3 prepared for an external frequency converter of **5,5 kW**	**3751679**
EK EVO 7.4500 GL-E/GL-EZ3 and EKEVO 7.3600/4500 GL-EF3 prepared for an external frequency converter of **7,5 kW**	**3751680**
EK EVO 8.5800 GL-E prepared for an external frequency converter of **11 kW**	**3755057**
EK EVO 8.7100 GL-E and EK EVO 8.5700 GL-EF3 prepared for an external frequency converter of **15 kW**	**3755058**
EK EVO 9.8700 GL-E/GL-EUF prepared for an external frequency converter of **18,5 kW**	**3755059**
EK EVO 9.10400 GL-E/GL-EUF and EK EVO 9.6500 GL-EF3 prepared for an external frequency converter of **22 kW**	**3755060**

MAX GAS PRESSURE SWITCH (mounted on the gas train)

EK EVO 6/7	with Siemens threaded gas trains	**3751669**
	with Siemens flanged gas trains	**3751670**
	with Dungs threaded gas trains	**3751671**
	with Dungs flanged gas trains	**3751672**
EK EVO 8/9	with Siemens threaded gas trains	**3754021**
	with Siemens flanged gas trains	**3754022**
	with Dungs threaded gas trains	**3754023**
	with Dungs flanged gas trains	**3754024**

STAR/DELTA MOTOR STARTER

Star/Delta 4,0 G/BT3 for EK EVO 6.2200 G-EU2N and EK EVO 6.2900 G-.../GL-.../L-...	**3751650**
Star/Delta 5,5 G/BT3 for EK EVO 7.3600 G-E, GL-EZ3, GL-E and L-E	**3751651**
Star/Delta 7,5 G/BT3 for EK EVO 7.3400 G-EU2N, EK EVO 7.3600 G-EF3, GL-EF3, L-EF3 and EK EVO 7.4500 G-.../GL-.../L-...	**3751652**

PED EQUIPMENT

Equipment of the gas train and the burner body for continuous operation (PED):
- controller and flame sensor approved for continuous operation,
- maximum gas pressure switch on the gas train,
- test burner (to bleed the gas train),
- PED Conformity Declaration.

Note: if required, the antivibrating coupling (to avoid mechanical tension) has to be selected as option

PED for EK EVO 6/7 G-E	with Siemens threaded gas trains	**3751653**
	with Siemens flanged gas trains	**3751654**
	with Dungs threaded gas trains	**3751655**
	with Dungs flanged gas trains	**3751656**
PED for EK EVO 6/7 G-EF3	with Siemens threaded gas trains	**3751665**
	with Siemens flanged gas trains	**3751666**
	with Dungs threaded gas trains	**3751667**
	with Dungs flanged gas trains	**3751668**
PED for EK EVO 8/9 G-E and EK EVO 8/9 G-EU3 (except for model 9.13000)	with Siemens threaded gas trains	**3754010**
	with Siemens flanged gas trains	**3754011**
	with Dungs threaded gas trains	**3754019**
	with Dungs flanged gas trains	**3754020**
PED for EK EVO 6...9 G-EU2/-EU2N and EK EVO 9.13000 G-EU2/-EU3	with Siemens threaded gas trains	**3756265**
	with Siemens flanged gas trains	**3756264**
	with Dungs threaded gas trains	**3756263**
	with Dungs flanged gas trains	**3756262**
PED for EK EVO 6/7 GL-EZ3 and EK EVO 6/7 GL-E	with Siemens threaded gas trains	**3751657**
	with Siemens flanged gas trains	**3751658**
	with Dungs threaded gas trains	**3751659**
	with Dungs flanged gas trains	**3751660**
PED for EK EVO 8/9 GL-E	with Siemens threaded gas trains	**3755055**
	with Siemens flanged gas trains	**3755056**
	with Dungs threaded gas trains	**3755053**
	with Dungs flanged gas trains	**3755054**
PED for EK EVO 6/7 GL-EF3	with Siemens threaded gas trains	**3755067**
	with Siemens flanged gas trains	**3755068**
	with Dungs threaded gas trains	**3755065**
	with Dungs flanged gas trains	**3755066**
PED for EK EVO 8/9 GL-EU3/GL-EUF	with Siemens threaded gas trains	**3755063**
	with Siemens flanged gas trains	**3755064**
	with Dungs threaded gas trains	**3755061**
	with Dungs flanged gas trains	**3755062**
PED for EK EVO 6...9 L-E		**3757269**
PED for EK EVO 6...9 L-EU3/L-EUF		**3757270**
PED for EK EVO 6...9 G-... equipped with FGR System	with Siemens threaded gas trains	**3756269**
	with Siemens flanged gas trains	**3756268**
	with Dungs threaded gas trains	**3756267**
	with Dungs flanged gas trains	**3756266**

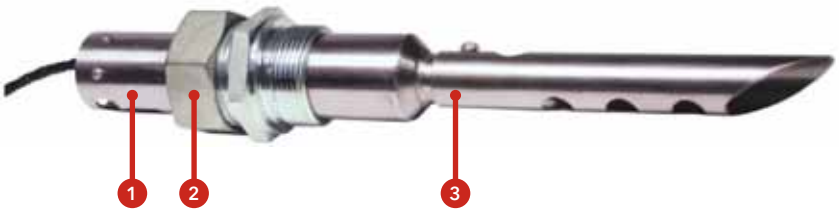
O_2 TRIM FOR BT300, ETAMATIC AND ETAMATIC OEM, FMS/VMS

This kit is used to optimize the combustion in order to keep the air excess as much stable as possible irrespective of the changes that can occur during operations, for instance slight calorific value variations, combustion air temperature and pressure. This improves the seasonal efficiency and therefore reduces the fuel consumption.

The kit includes the following components:
- Lambda transmitter LT3
- Lambda probe LS2
- Probe installation fitting (PIF)
- Gas extraction device (GED)

The control unit has to be installed close to the probe (max 25 m of cable)
The probe needs a calibration but no reference gas is necessary.
The display shows the O_2 content.
Maximum distance between the LT3 and the burner control panel is 500 m.

	Additional LSB modules installed at LT3	GED length	Code
Kit for O_2 trim (LT3 + LS2) **Flue temp max 300 °C – Display for O_2 visualization** (Note: for models equipped with BT3xx this kit needs a LCM module installed in the burner control panel)	none	150 mm	**3759296**
		300 mm	**3759297**
		450 mm	**3759298**
	4x 0/4-20 mA output	150 mm	**3759299**
		300 mm	**3759300**
		450 mm	**3759301**
	4x 0/4-20 mA output + 4x digital output	150 mm	**3759302**
		300 mm	**3759303**
		450 mm	**3759304**



1. Lambda Probe LS2 in standard housing up to 300°C (572°F); default cable length is 2 m (6.5 ft), FEP, with connecting plug
2. Probe installation fitting (PIF)
3. Gas extraction device (GED)

The lambda probe LS2 is equipped with a 2 m long connection cable to connect the probe to the transmitter (LT3).
The standard connection cable can be extended thanks to ready-made cables as well as the probe connection box (PCB) up to a total maximum distance between LS2 and LT3 of 25 m.

The PCB is a small terminal box that is connected to the 2 m cable already existing on the probe. The wiring between the PCB and the transmitter must be carried out at the intsallation site with suitable cables and trained personnel.

Description	Code
Extension LS2 cable 5m	**3759314**
Extension LS2 cable 10m	**3759315**
Extension LS2 cable 20m	**3759316**
Extension LS2 PCB	**3759317**

O_2/CO_e TRIM FOR BT300, ETAMATIC AND ETAMATIC OEM, FMS/VMS

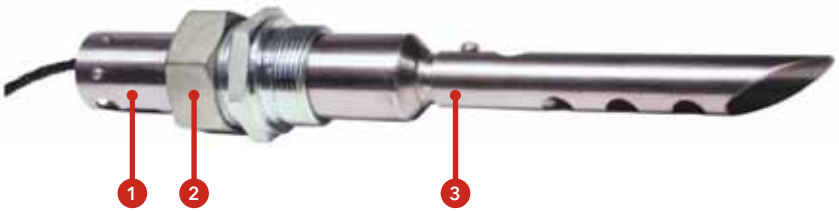
This kit is used for optimizing the combustion in order to keep the air excess as low as possible in order to maximize the seasonal efficiency and therefore minimize the fuel consumption.
In addition to the features of the O_2 trim only, this kit reduces the air excess to its minimum because this system continuously measures the content of unburned fuel (CO_e) in the flue: should the air excess be reduced too much, the CO_e raises and the system reacts by increasing the air excess in order to keep firing in safe conditions.

The kit includes the following components:
- Lambda transmitter LT3-F
- Lambda probe KS1D
- Probe installation fitting (PIF)
- Gas extraction device (GED)

The control unit has to be installed close to the probe (max 10 m of cable).
The probe needs a calibration but no reference gas is necessary.
The display shows the O_2 and CO_e content.
Maximum distance between the LT3-F and the burner control panel is 500 m.

Note: this system is not suitable for GL-EUF and L-EUF burners

	Additional LSB modules installed at LT3-F	GED length	Code
Kit for O_2 trim and CO control (LT3-F + KS1D) **Flue temp max 300 °C** (Note: for models equipped with BT3xx this kit needs a LCM module installed in the burner control panel)	none	150 mm	**3759305**
		300 mm	**3759306**
		450 mm	**3759307**
	4x 0/4-20 mA output	150 mm	**3759308**
		300 mm	**3759309**
		450 mm	**3759310**
	4x 0/4-20 mA output + 4x digital output	150 mm	**3759311**
		300 mm	**3759312**
		450 mm	**3759313**



1. Lambda Probe KS1D in standard housing up to 300°C (572°F); default cable length is 2 m (6.5 ft), FEP, with connecting plug
2. Probe installation fitting (PIF)
3. Gas extraction device (GED)

The lambda probe KS1D is equipped with a 2 m long connection cable to connect the probe to the transmitter (LT3-F).
The standard connection cable can be extended thanks to a 5 m ready-made cable as well as the probe connection box (PCB) up to a total maximum distance between KS1D and LT3-F of 10 m.

The PCB is a small terminal box that is connected to the 2 m cable already existing on the probe. The wiring between the PCB and the transmitter must be carried out at the installation site with suitable cables and trained personnel.

Description	Code
Extension KS1D cable 5m	**3759318**
Extension KS1D PCB	**3759319**

REMOTE SOFTWARE

Kit to connect a PC laptop to the BT300 for its parametrization	LSA100 + USB/CAN + CD-Rom	**3751130**

COMMUNICATION MODULES

Modules for external installation Note: LCM module is required	ModBus/BT3 (EBM100)	**3754456**
	ProfiBus/BT3 (PBM100)	**3752986**
	Profinet/BT3 (EBM112)	**3758317**
	Ethernet/BT3	**on request**

POWER REGULATOR

Power regulator RWF55 stand-alone and kit wiring	**3753358**

PROBES

Immersion probes	PT 100: –50°/+400°C (100 mm) + pocket tube (76 mm)	**3750070**
	PT 100: 400°C (160 mm)	**1758574269**
	PT 100: 480°C (250 mm)	**3751009**
Pressure probes	0…1,6 bar	**3752217**
	0…2,5 bar	**1758713722**
	0…6 bar	**1758640660**
	0…10 bar	**1758577280**
	0…16 bar	**1758577291**
	0…25 bar	**3751015**

EXTERNAL AIR INLET CONNECTION KIT

Connection for external air channel for EK EVO 6/7	**3752987**
Connection for external air channel for EK EVO 8/9	**3754031**

MAX GAS PRESSURE SWITCH KIT

Kit for EK EVO 6/7	with Siemens threaded gas trains	**3754457**
	with Siemens flanged gas trains	**3754458**
	with Dungs threaded gas trains	**3754457**
	with Dungs flanged gas trains	**3754458**
Kit for EK EVO 8/9	with Siemens threaded gas trains	**3755095**
	with Siemens flanged gas trains	**3755096**
	with Dungs threaded gas trains	**3755095**
	with Dungs flanged gas trains	**3755096**

HYDRAULIC MANOMETER KIT

Kit for EK EVO 6/7 GL-EZ3	**3754440**
Kit for EK EVO 6/7 GL-E/-EF3 and L-E/-EF3	**3754634**
Kit for EK EVO 8/9 GL-.../L-...	**3754613**

SPECIAL PACKAGING KIT (WOODEN BOX)

Wooden Box for EK EVO 6/7	3755020
Wooden Box for EK EVO 8	3754029
Wooden Box for EK EVO 9	on request

ACOUSTIC SHROUDS

See page 257 for sizes and information

- Equipment according EN746-2
- Permanent ventilation
- 60 Hz versions
- Remote display (BT3xx)
- Separate switch box / terminal strip version (Etamatic OEM)
- LPG firing
- Hinge flange
- "Burner ON" feedback signal

Other special requests can be submitted to your Sales Reference for feasibility evaluation

NEXTRON

MONOBLOCK BURNERS
FROM 250 TO 11200 kW
GAS, LIGHT OIL AND DUAL FUEL

DESIGN: SMOOTH AND INTEGRAL

The original design of NEXTRON range is the result of a successful integration between burner and ELCO technologies.
NEXTRON burners are able to perfectly integrate themselves in any installation and professionals will appreciate the innovative construction structure that ease maintenance.

UNIQUE LOW NOx PERFORMANCE

Developed and improved by ELCO R&D department, the Free Flame and the Diamond Head technologies are unique combustion processes.
These ELCO technologies are capable to reach the NOx levels required by the most severe standards for all types of combustion chambers, whether they are 3-pass or reverse pass boilers.

HIGH ACOUSTIC COMFORT

The NEXTRON burner range offers a high acoustic comfort thanks to the Low Noise System.
The unique air intake channel is carefully designed to achieve an acoustic level significantly lower than 80 dB(A) up to 10 MW.
This integrated and patented system on all NEXTRON burners is definitely a good replacement of the traditional bulky sound proofing box.

BUILT-IN AND MODULAR SWITCH CABINET

All the NEXTRON burners feature integrated switch cabinet, the ISC System, with modular concept for control devices and accessories:
- adjusting and safety control box;
- EMC protected power circuit of fan motor;
- display with keyboard in front of the control panel.

The ISC System houses options and accessories, such as the power regulator and the frequency inverter Variatron, and customizes each burner according to the installation needs.

RANGE OVERVIEW

/ GAS RANGE
340 / 11200 kW

/ DUAL FUEL RANGE
250 / 10620 kW

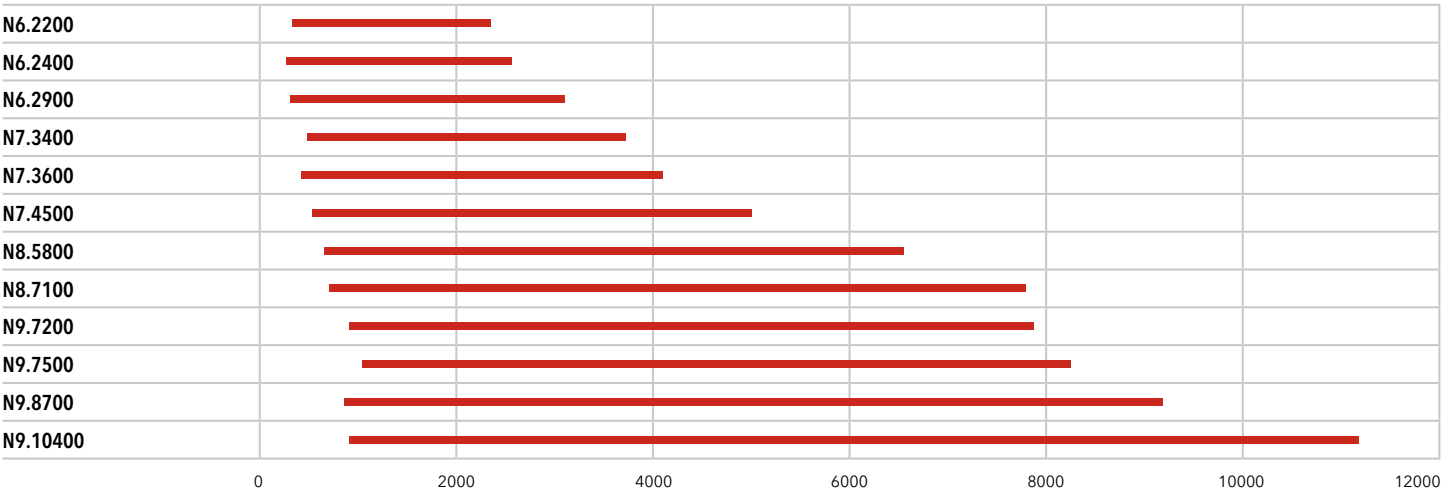
/ LIGHT OIL RANGE
360 / 10620 kW

/ LOW NOx
up to 10200 kW

MAIN TECHNICAL FEATURES

- Two stage progressive/modulating forced draught burner.
- Fuels:
  - natural gas, Hi = 6,99 … 11,39 kWh/Nm^3
  - LPG, Hi = 25,89 kWh/Nm^3
  - light oil, viscosity 6 mm^2/s at 20°C, Hi = 11,86 kWh/kg
- Combustion technology:
  - Low NOx class 2 (≤120 mg/kWh) and class 3 (≤80 mg/kWh) in gas operation acccording to EN676
  - Low NOx class 2 (≤185 mg/kWh) and class 3 (≤120 mg/kWh) in light oil operation according to EN267
- Integrated switch cabinet (ISC System) with modular concept complete for an easy installation with:
  - BT300 control box (MDE2 System and display);
  - fan motor direct start-up;
  - enumarated connection terminals;
  - power regulator (option);
  - speed controller Variatron (option);
  - O_2 control (option);
  - Bus interface (option)
- Innovative design allowing easy access to burner components for fast start-up and reduced maintenance time and space
- Three flame tube lengths available
- Secured burner head adjustments during maintenance (RTC System)
- Unique air intake channel design (patented) to reduce acoustic levels (Low Noise System)
- Closing of the air damper on burner shut-down
- Multiple gas train matching according to the inlet gas pressure
- Gas train factory assembled and tested for tightness and electrical security
- Products are in compliance with EN676 and EN267 European standards and with the following directives:
  - 2014/35/UE Low Voltage Directive
  - 2014/30/UE EMC Directive
  - 2016/426/UE Gas Appliances Regulation
  - 2006/42/EC Machinery Directive
  - 2011/65/EU RoHS2 Directive

PRODUCT LIST



NEXTRON

GAS

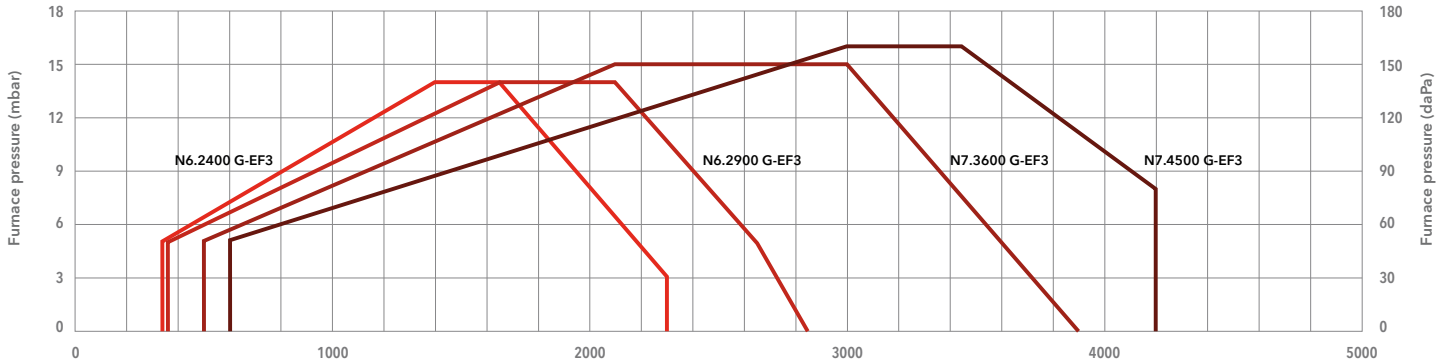
Low NOx Class 3

N6 G-EF3 / N7 G-EF3

340 ... 4200 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

	N6.2400 G-EF3	N6.2900 G-EF3	N7.3600 G-EF3	N7.4500 G-EF3
Operating range	340 – 2300 kW	360 – 2850 kW	500 – 3900 kW	600 – 4200 kW
Gas pressure	50 – 500 mbar (50 – 360 mbar for d452 and d453 gas train)		50 – 500 mbar (50 – 360 mbar for d452 and d453 gas train)	
Gas connection	DN65	DN65	DN65	DN65
Control box / flame detector	BT300 / QRA2	BT300 / QRA2	BT300 / QRA2	BT300 / QRA2
Auxiliary voltage	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor	50 Hz – 3 kW	50 Hz – 4 kW	50 Hz – 7,5 kW	50 Hz – 7,5 kW
Acoustic level	<70 dB(A)	<71 dB(A)	<74 dB(A)	<75 dB(A)
CE certificate	0085CL0215	0085CL0215	0085CL0215	0085CL0215
Complete burner codes	**on request**	**on request**	**on request**	**on request**

GAS TRAINS

DUNGS

Model	Code
GT-d452-1"1/2 (*)	3750510
GT-d453-2" (*)	3750511
GT-d454-65	3750512
GT-d455-80	3750513
GT-d456-100	3750514

*: integrated filter

SIEMENS

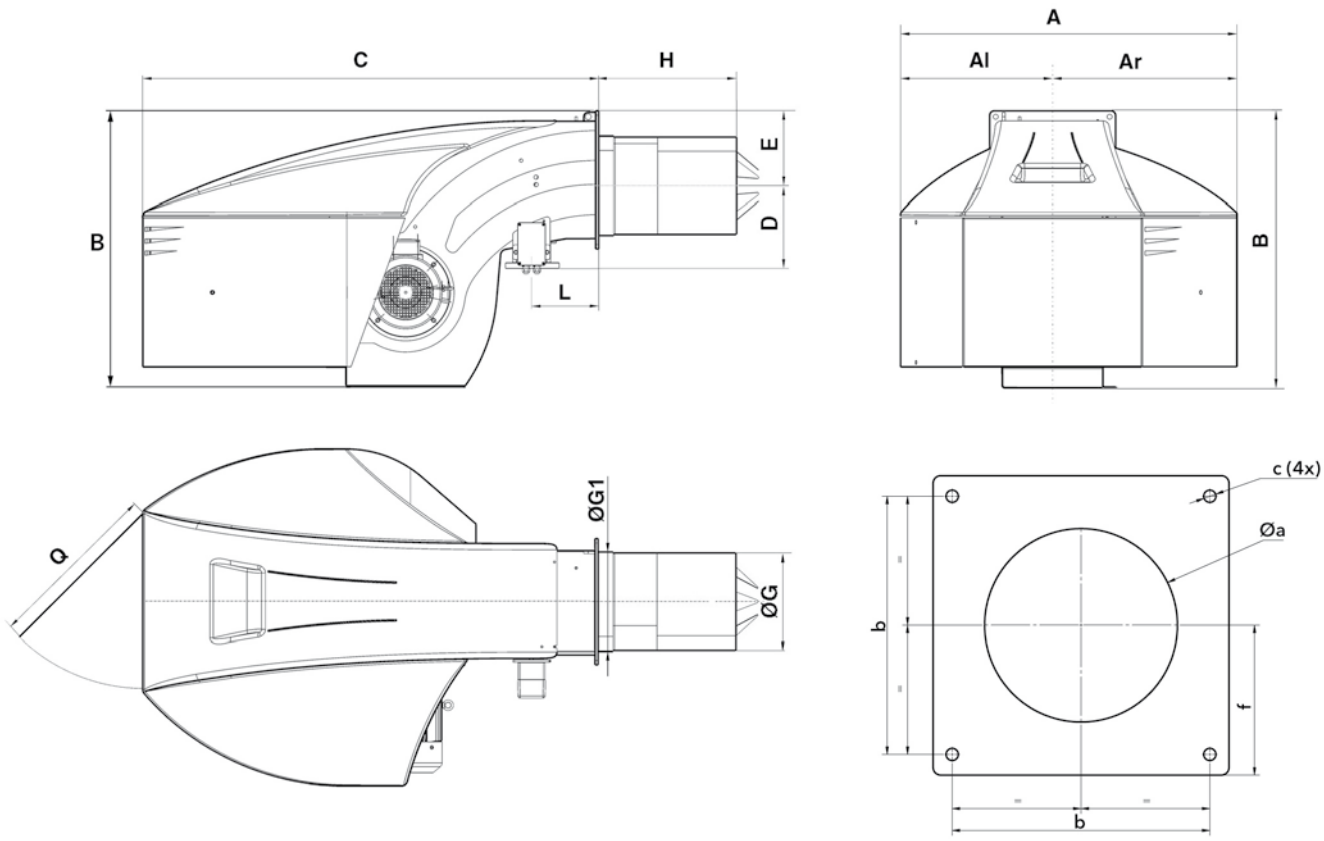
Model	Code
GT-s451-1"1/2	3750525
GT-s452-2"	3750526
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529
GT-s456-125	3750530

FILTERS

Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 246

DIMENSIONS (mm)

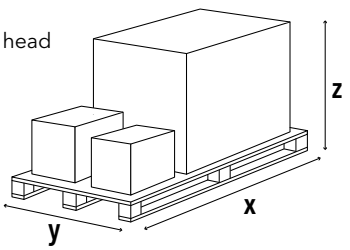


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Q
										KN	KM	KL		
N6... G-EF3	990	479	510	837	1361	245	225	264	270	400	520	640	215	600
N7... G-EF3	1128	511	618	961	1529	276	255	326	332	420	550	680	225	600

Øa	b	c	f
330-340	340	M16	200
380-400	400	M16	235

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N6.2400 G-EF3	2300	1500	1573	360
N6.2900 G-EF3	2300	1500	1573	360
N7.3600 G-EF3	2300	1500	1573	450
N7.4500 G-EF3	2300	1500	1573	450

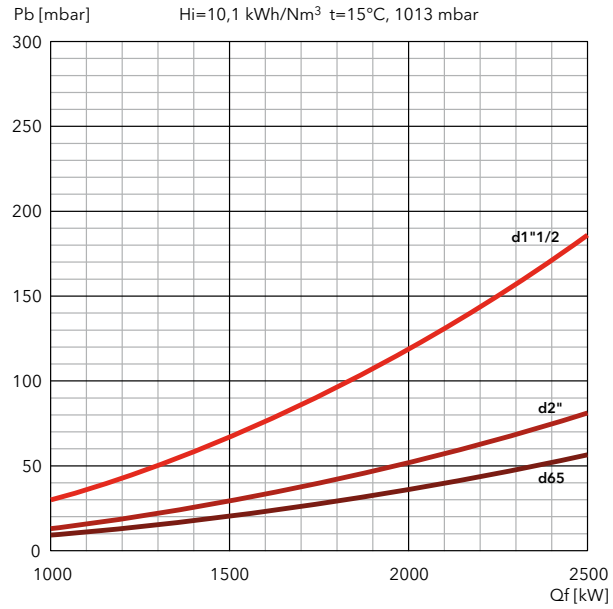
N6 G-EF3 / N7 G-EF3

340 ... 4200 kW
Two stage progressive/modulating electronic

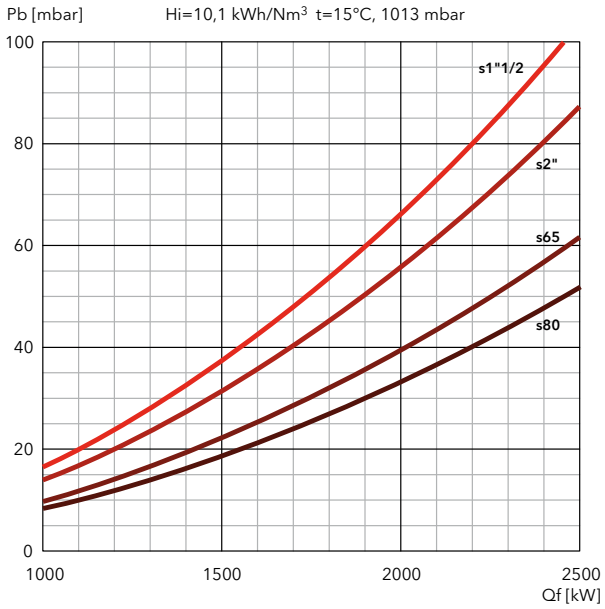
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N6.2400 G-EF3

DUNGS

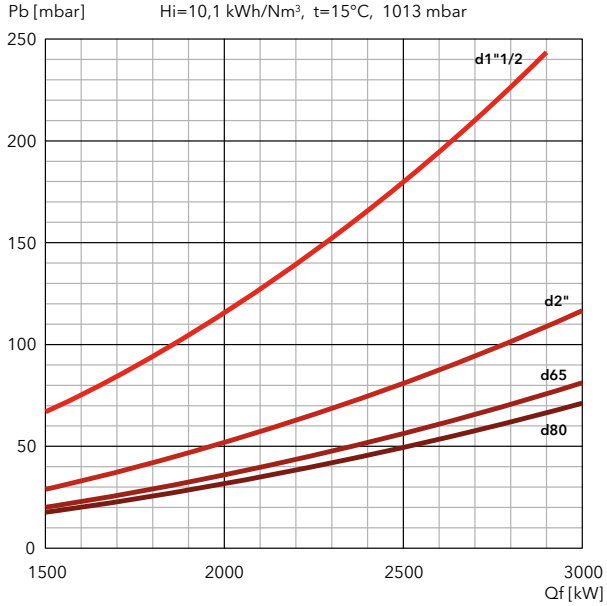


SIEMENS

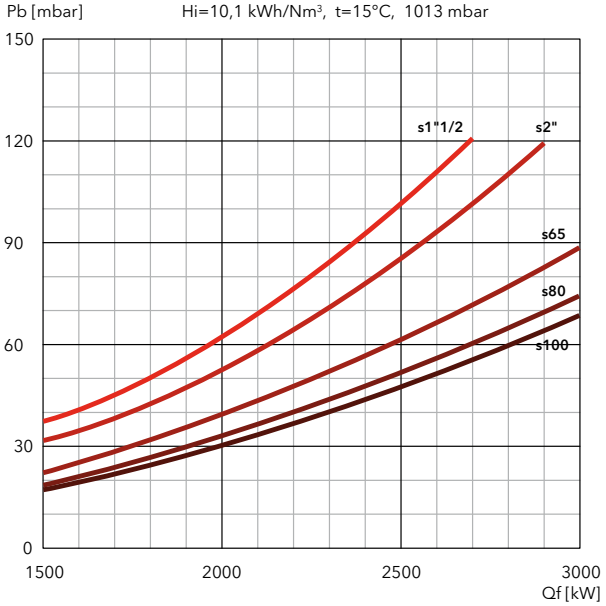


N6.2900 G-EF3

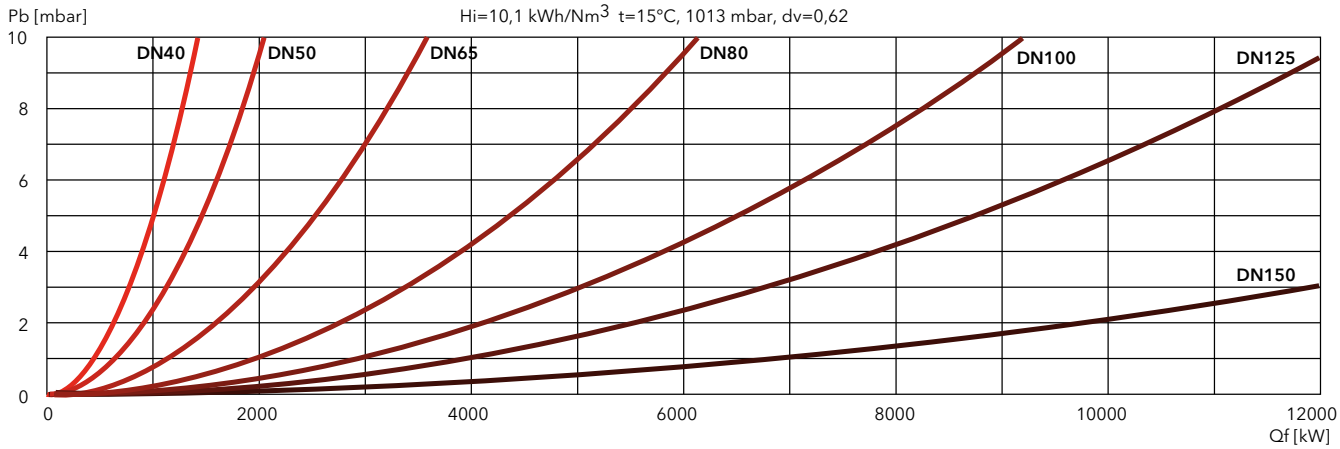
DUNGS



SIEMENS



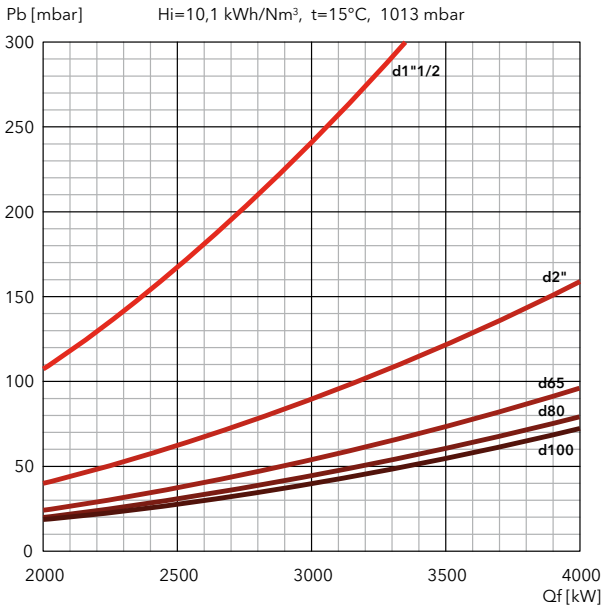
FILTERS



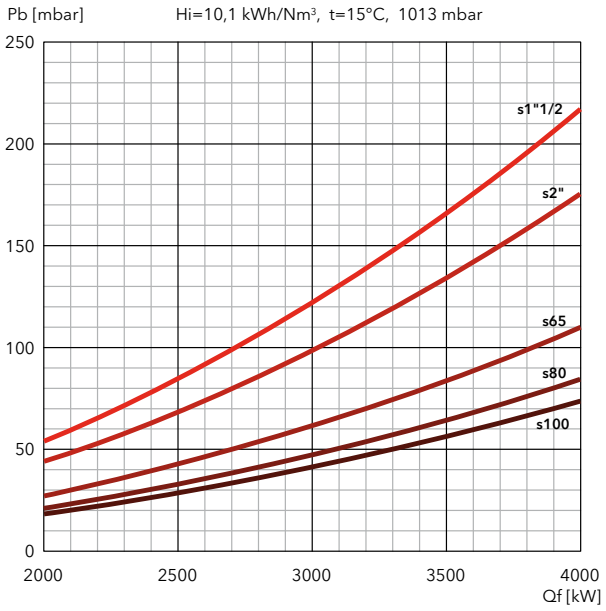
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N7.3600 G-EF3

DUNGS

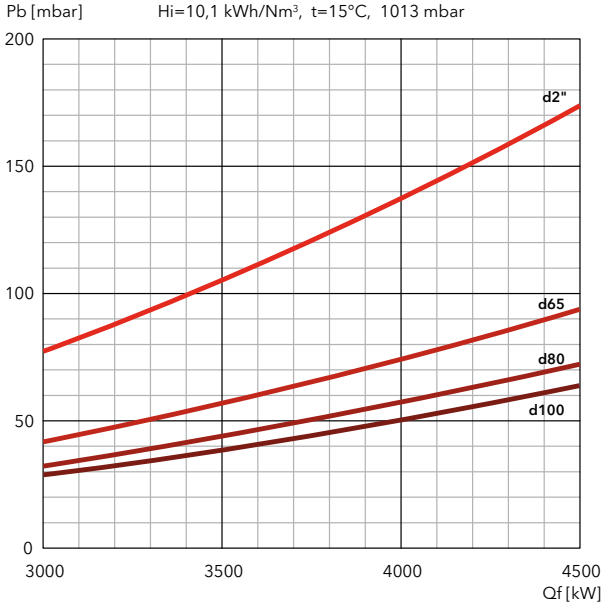


SIEMENS

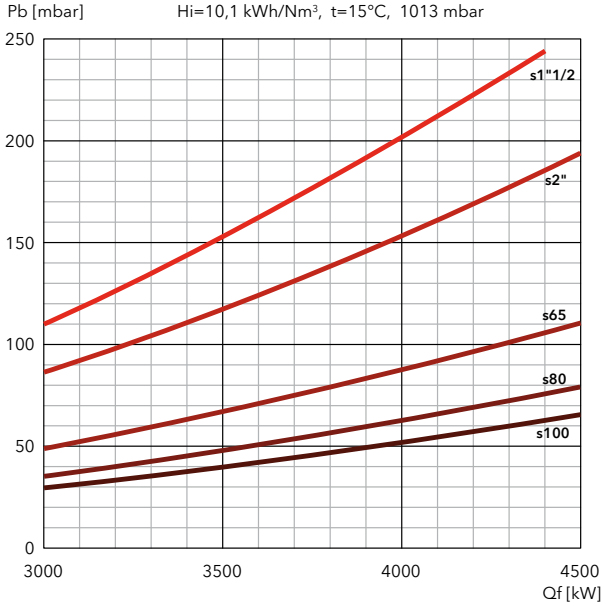


N7.4500 G-EF3

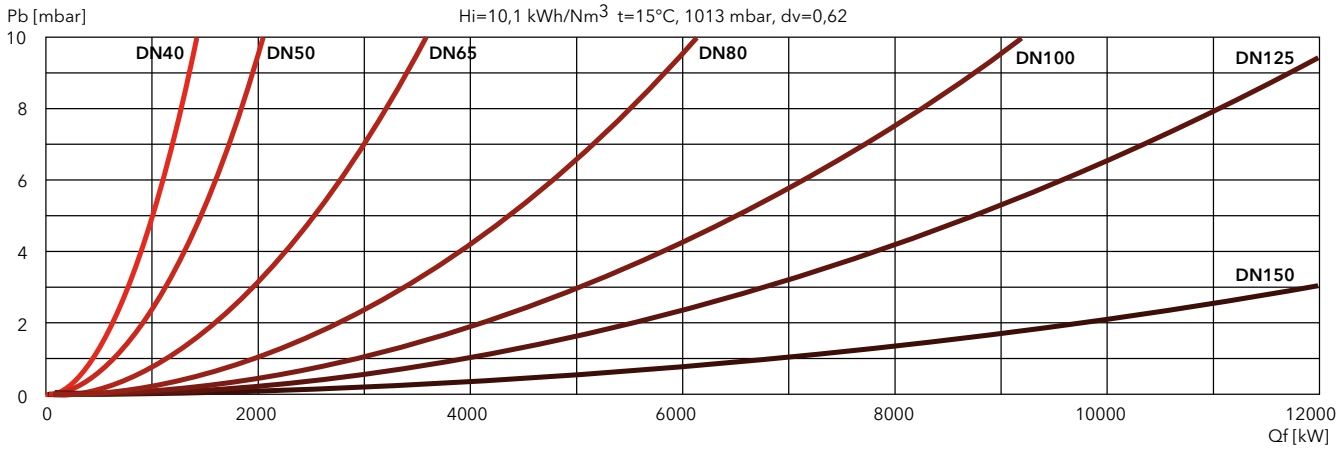
DUNGS



SIEMENS



FILTERS



NEXTRON

GAS

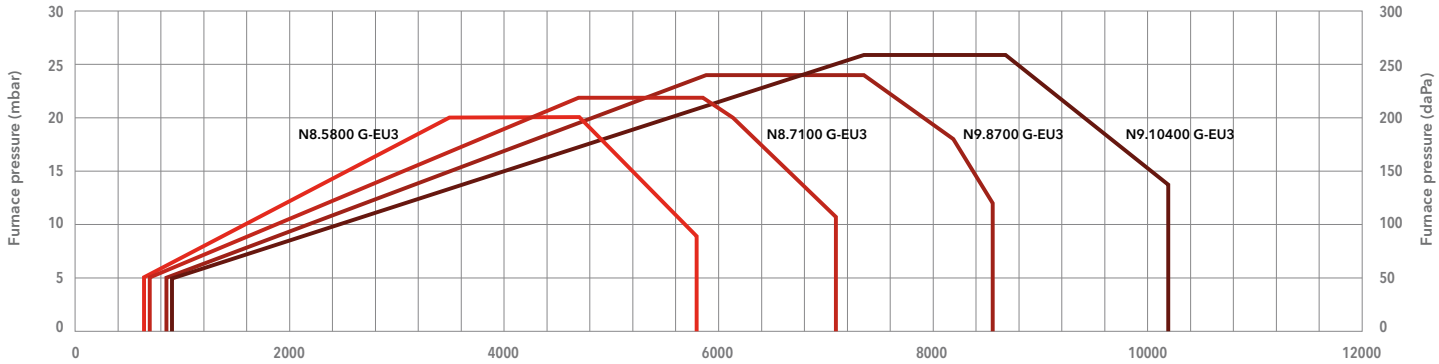
Low NOx Class 3

N8 G-EU3 / N9 G-EU3

640 ... 10200 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

	N8.5800 G-EU3	N8.7100 G-EU3	N9.8700 G-EU3	N9.10400 G-EU3
Operating range	640 – 5800 kW	700 – 7100 kW	850 – 8530 kW	900 – 10200 kW
Gas pressure	70 – 500 mbar (70 – 360 mbar for d457 gas train)		80 – 500 mbar (80 – 360 mbar for d457 gas train)	
Gas connection	DN100	DN100	DN100	DN100
Control box / flame detector	BT300 / Ionisation	BT300 / Ionisation	BT300 / Ionisation	BT300 / Ionisation
Auxiliary voltage	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor	50 Hz – 11 kW	50 Hz – 15 kW	50 Hz – 18,5 kW	50 Hz – 22 kW
Acoustic level	<78 dB(A)	<78 dB(A)	<80 dB(A)	<81 dB(A)
CE certificate	0085CL0215	0085CL0215	0085CL0215	0085CL0215
Complete burner codes	**on request**	**on request**	**on request**	**on request**

GAS TRAINS

DUNGS

Model	Code
GT-d457-2" (*)	3750515
GT-d458-65	3750516
GT-d459-80	3750517
GT-d460-100	3750518

*: integrated filter

SIEMENS

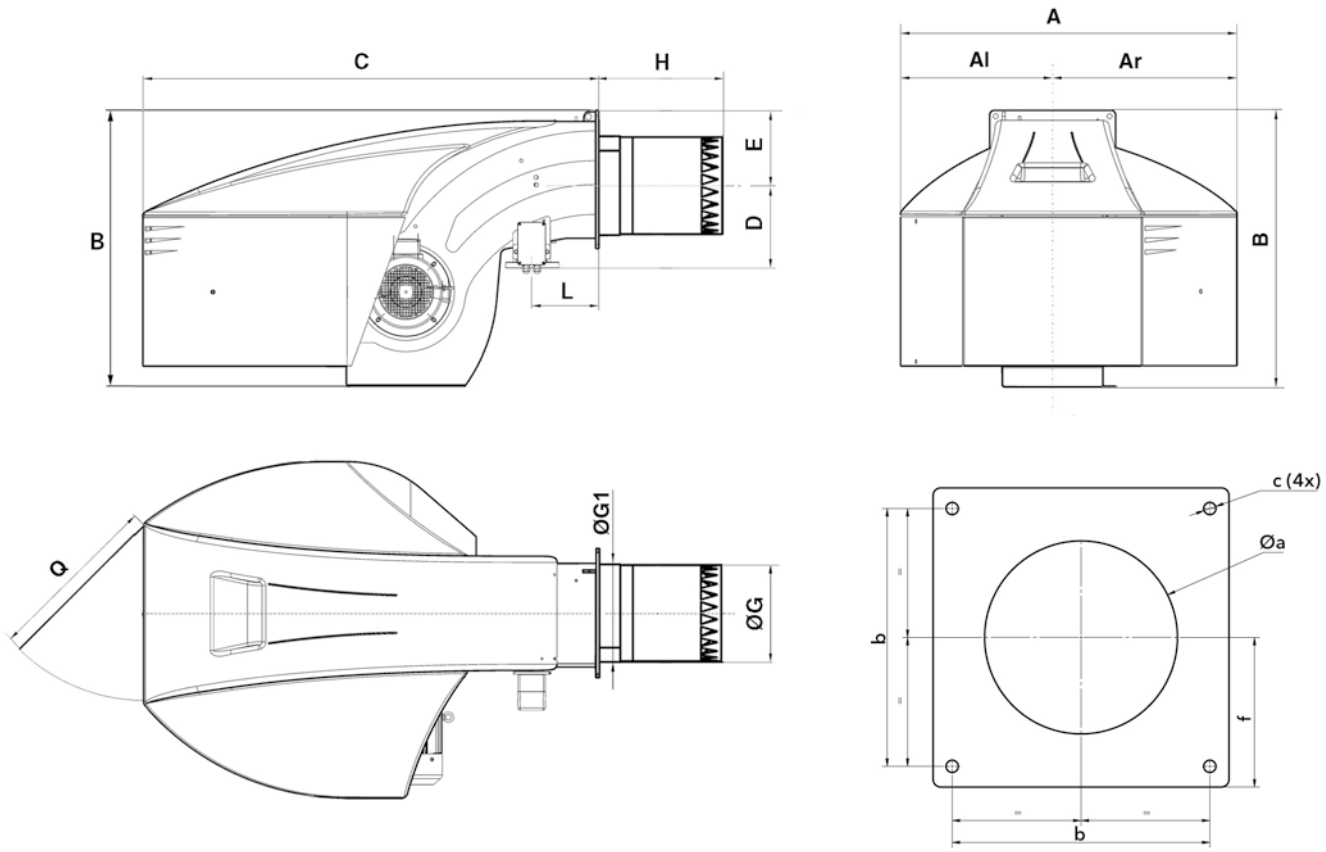
Model	Code
GT-s457-2"	3750537
GT-s458-65	3750538
GT-s459-80	3750539
GT-s460-100	3750540
GT-s461-125	3750541

FILTERS

Model	Code
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 247

DIMENSIONS (mm)

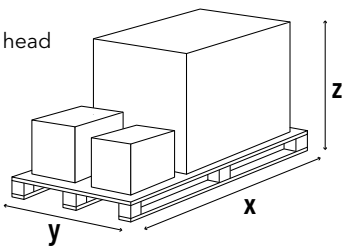


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Q
										KN	KM	KL		
N8... G-EU3	1414	669	745	1231	1930	344	293	369	377	500	640	780	230	800
N9... G-EU3	1414	669	745	1291	1928	369	293	431,5	439,5	550	700	850	230	800

Øa	b	c	f
390-410	505	M20	293
460-480	505	M20	293

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N8.5800 G-EU3	2900	1600	1573	700
N8.7100 G-EU3	2900	1600	1573	700
N9.8700 G-EU3	2900	1600	1573	760
N9.10400 G-EU3	2900	1600	1573	760

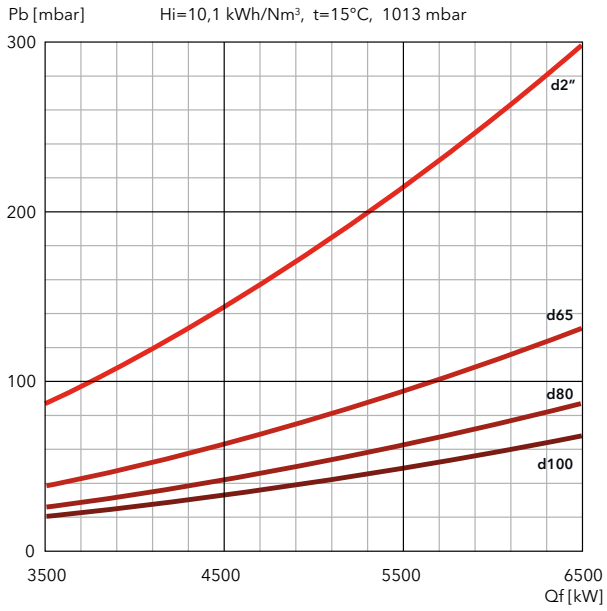
N8 G-EU3 / N9 G-EU3

640 ... 10200 kW
Two stage progressive/modulating electronic

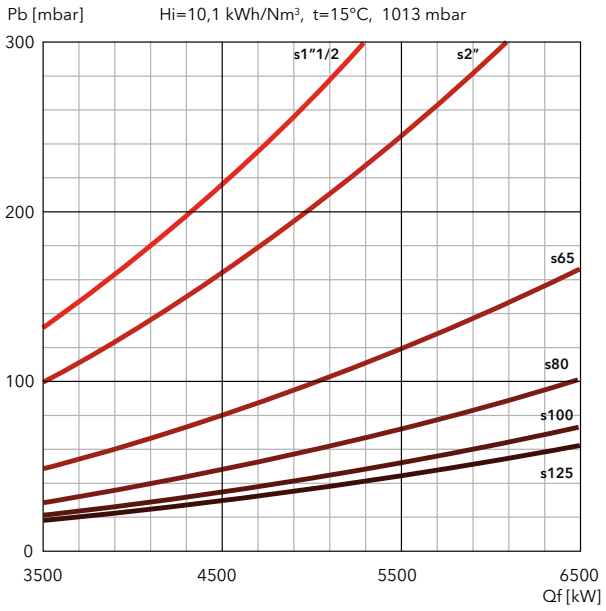
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N8.5800 G-EU3

DUNGS

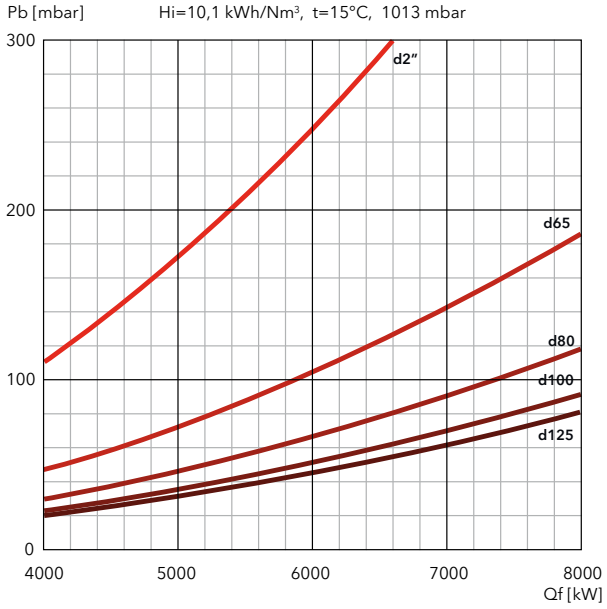


SIEMENS

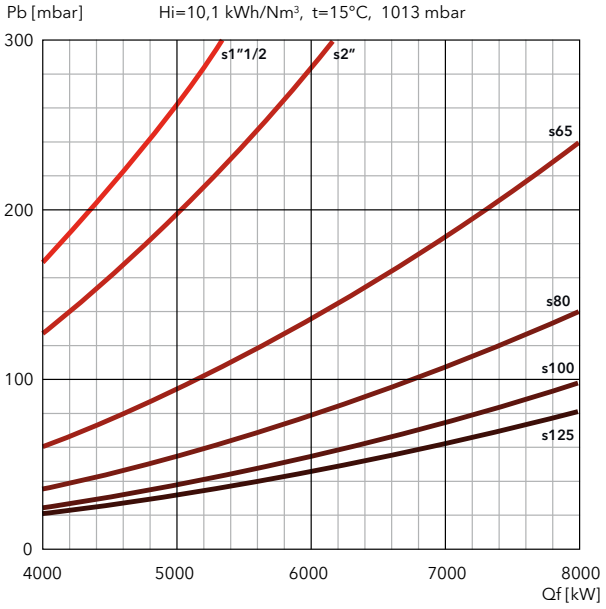


N8.7100 G-EU3

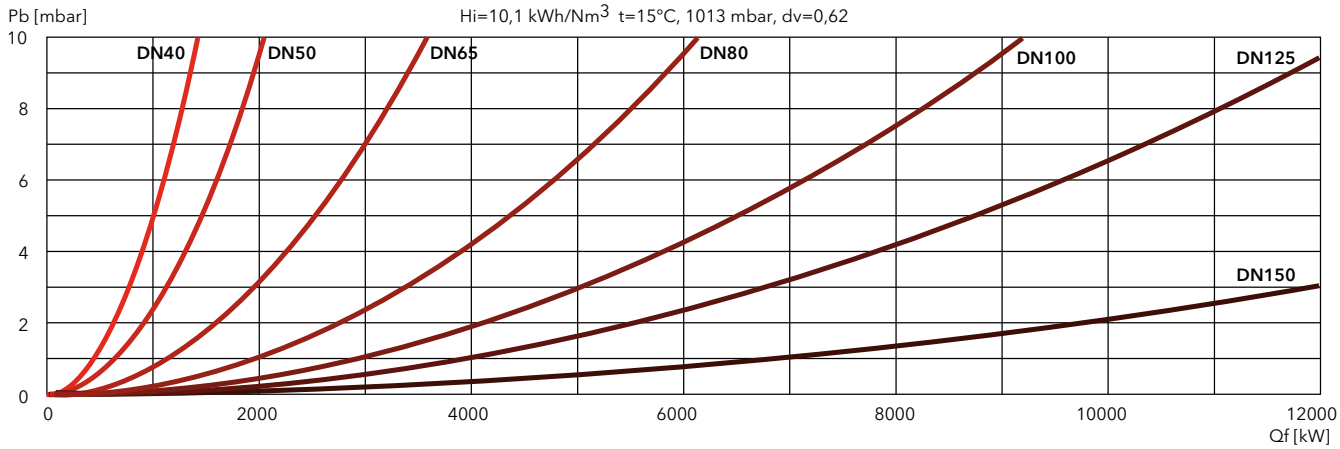
DUNGS



SIEMENS



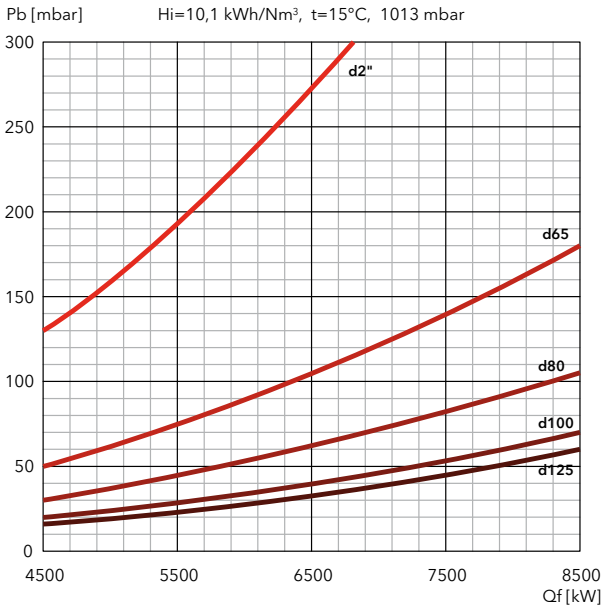
FILTERS



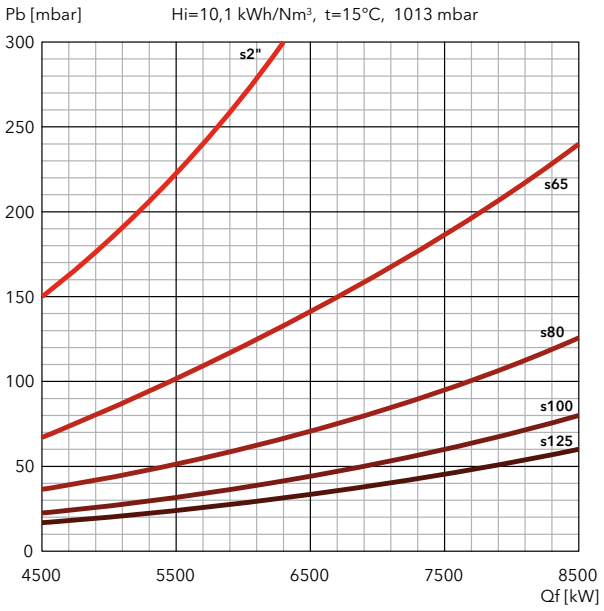
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N9.8700 G-EU3

DUNGS

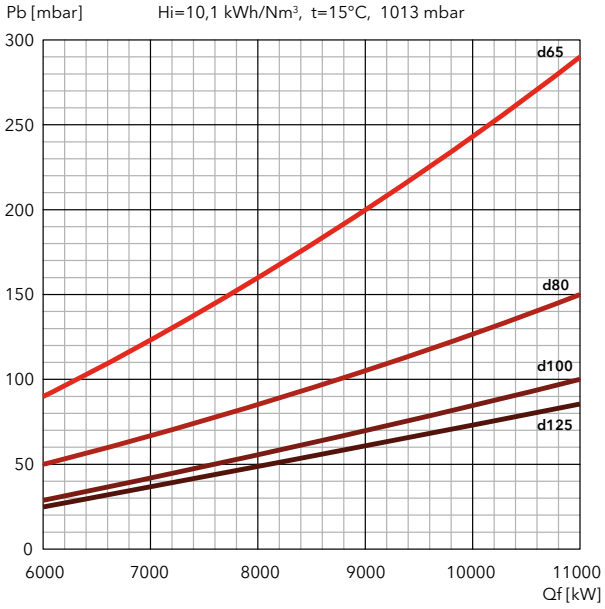


SIEMENS

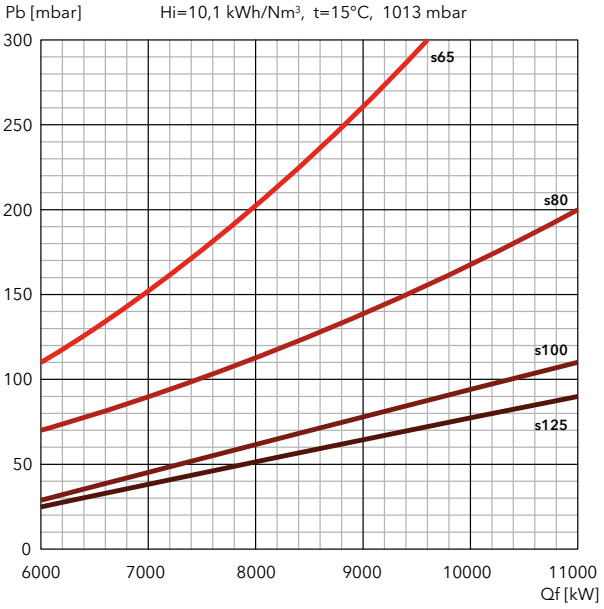


N9.10400 G-EU3

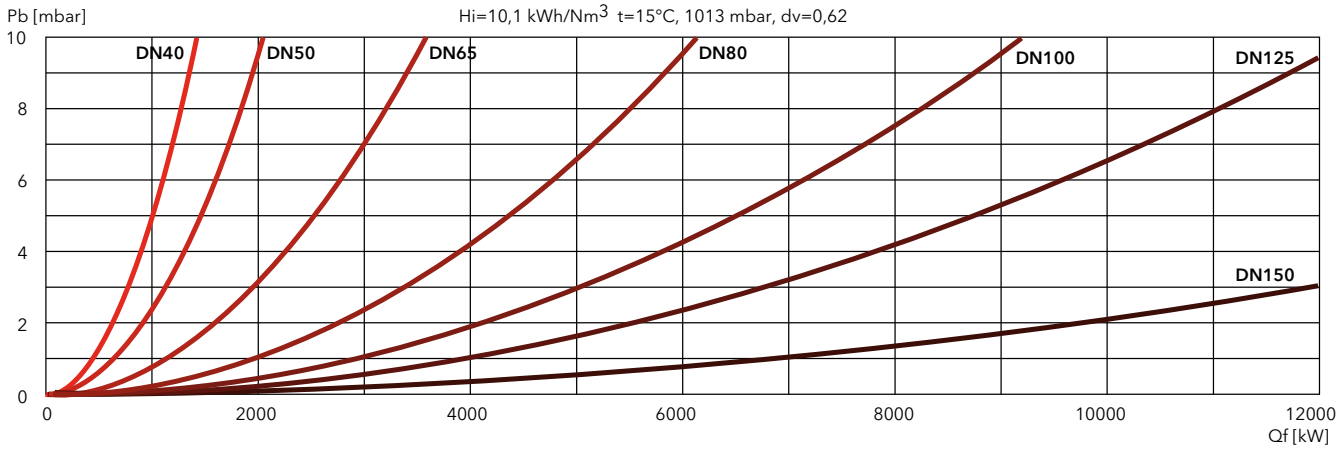
DUNGS



SIEMENS



FILTERS



NEXTRON

GAS

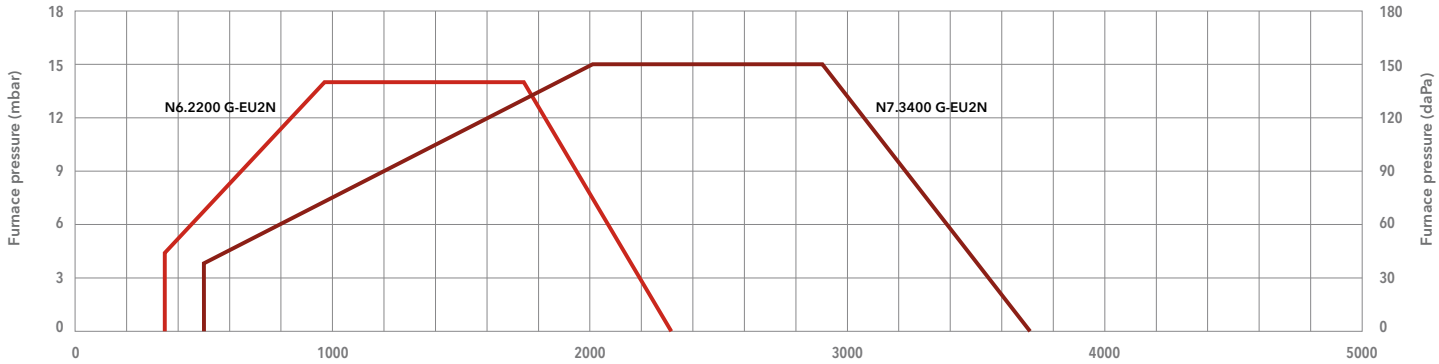
Low NOx Class 3

N6 G-EU2N / N7 G-EU2N

350 ... 3700 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

	N6.2200 G-EU2N	N7.3400 G-EU2N
Operating range	350 – 2300 kW	490 – 3700 kW
Gas pressure	75 – 500 mbar (75 – 360 mbar for d452 and d453 gas train)	80 – 500 mbar (80 – 360 mbar for d452 and d453 gas train)
Gas connection	DN65	DN80
Control box / flame detector	BT300 / QRA2	BT300 / QRA2
Auxiliary voltage	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor	50 Hz – 4 kW	50 Hz – 7,5 kW
Acoustic level	<71 dB(A)	<76 dB(A)
CE certificate	0085CL0215	0085CL0215
Complete burner codes	**on request**	**on request**

GAS TRAINS

DUNGS

Model	Code
GT-d452-1"1/2 (*)	3750510
GT-d453-2" (*)	3750511
GT-d454-65	3750512
GT-d455-80	3750513
GT-d456-100	3750514

SIEMENS

Model	Code
GT-s451-1"1/2	3750525
GT-s452-2"	3750526
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529

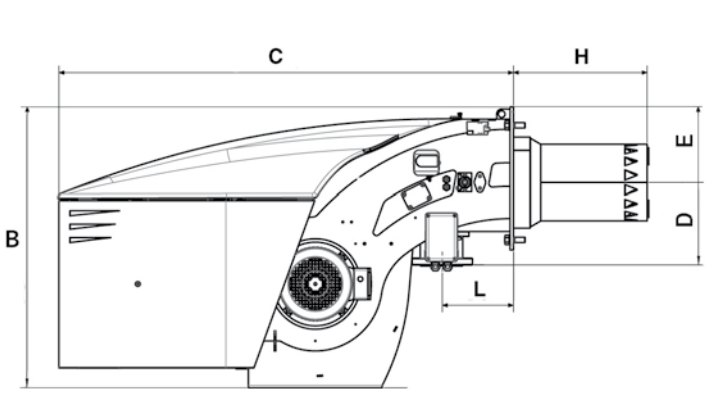
FILTERS

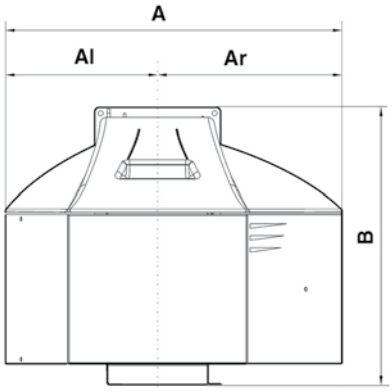
Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195

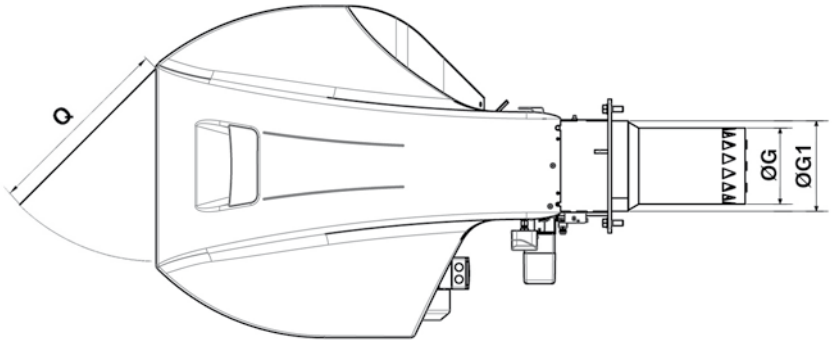
*: integrated filter

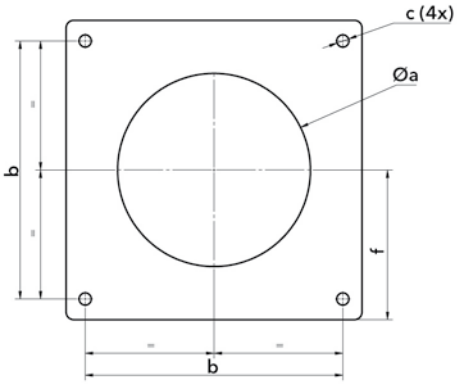
Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 246

DIMENSIONS (mm)







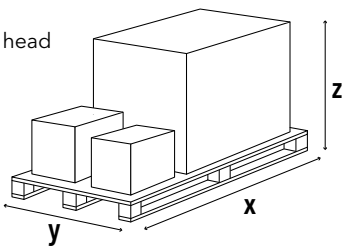


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Q
										KN	KM	KL		
N6.2200 G-EU2N	990	479	511	837	1358	245	225	227	270	400	520	640	213	600
N7.3400 G-EU2N	1127	509	618	961	1527	276	255	263	332	420	550	680	223	600

Øa	b	c	f
300-340	340	M16	200
370-400	400	M16	235

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N6.2200 G-EU2N	2300	1500	1573	360
N7.3400 G-EU2N	2300	1500	1573	450

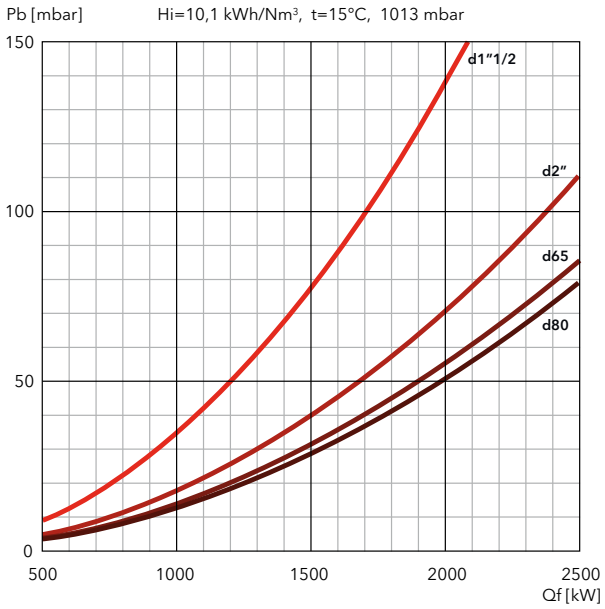
N6 G-EU2N / N7 G-EU2N

350 ... 3700 kW
Two stage progressive/modulating electronic

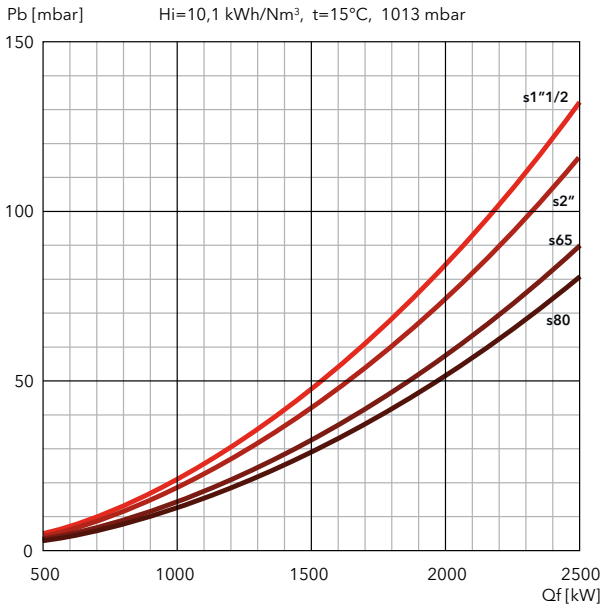
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N6.2200 G-EU2N

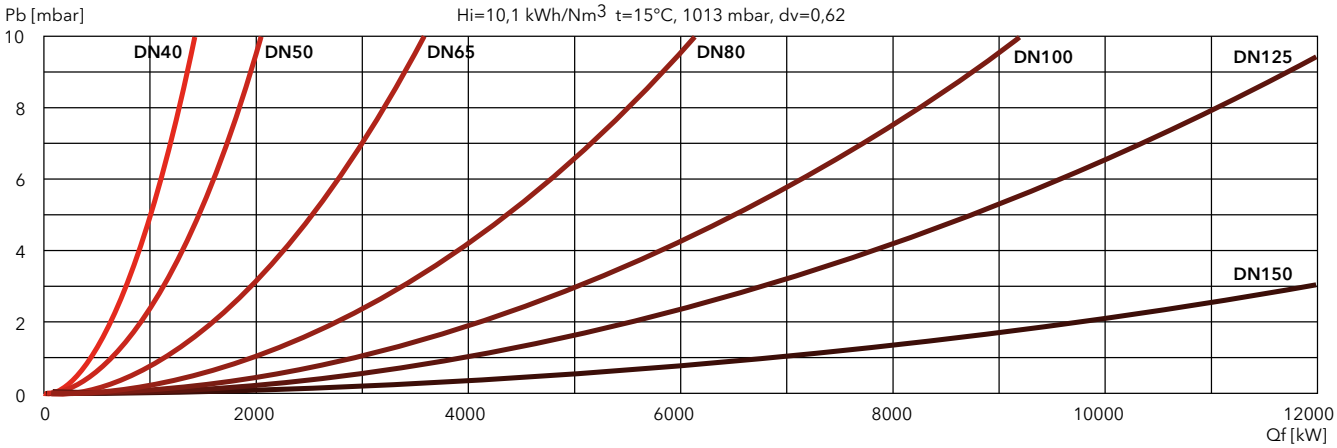
DUNGS



SIEMENS



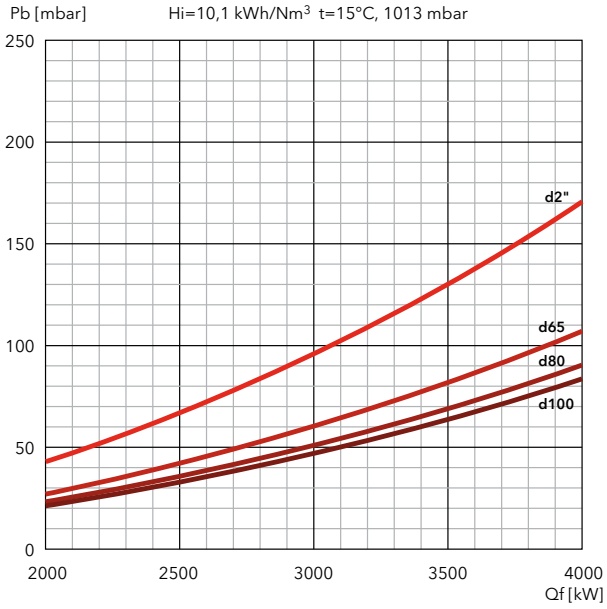
FILTERS



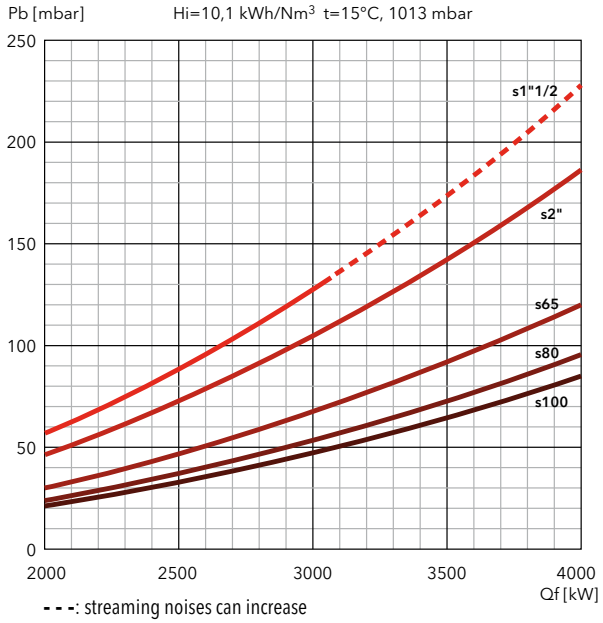
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N7.3400 G-EU2N

DUNGS

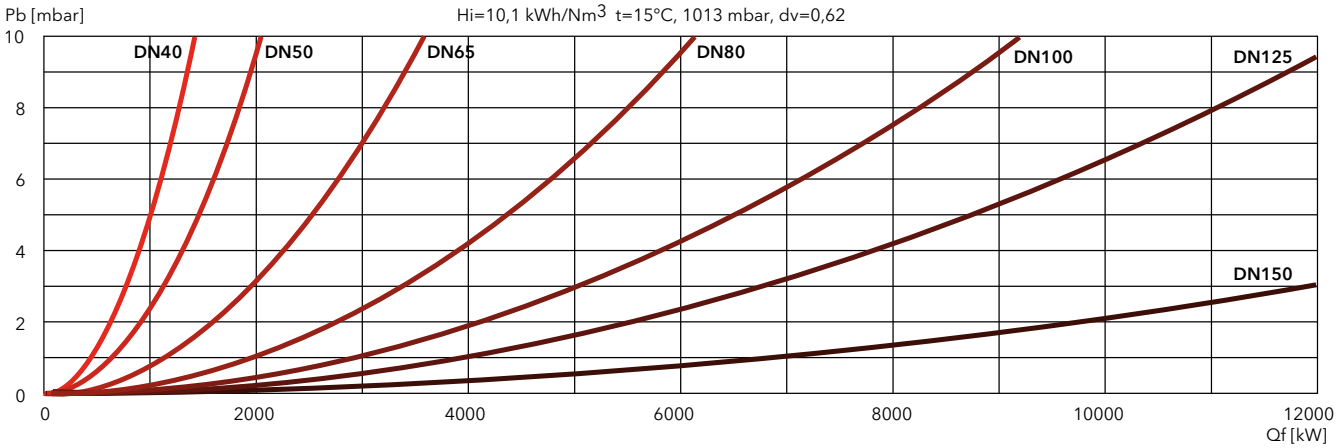


SIEMENS



- - -: streaming noises can increase

FILTERS



NEXTRON

GAS

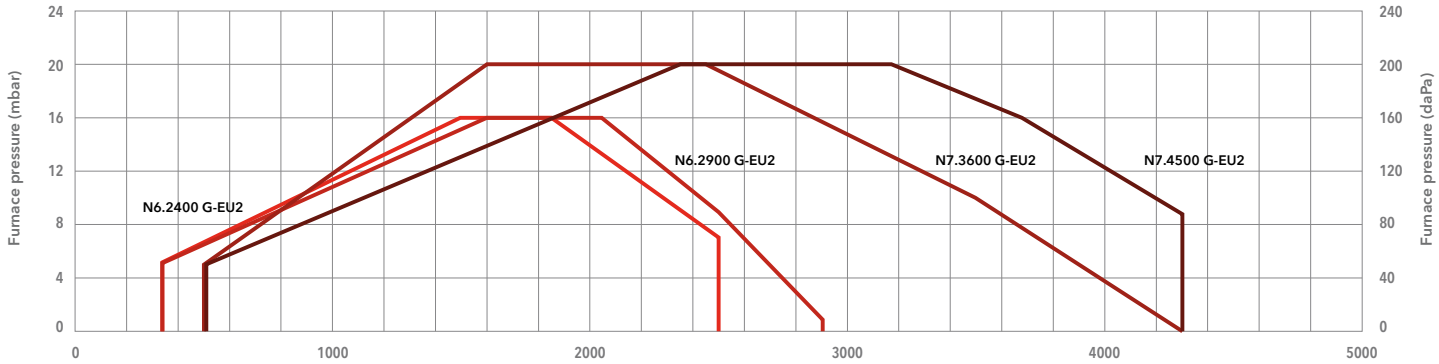
Low NOx Class 3

N6 G-EU2 / N7 G-EU2

340 ... 4290 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

	N6.2400 G-EU2	N6.2900 G-EU2	N7.3600 G-EU2	N7.4500 G-EU2
Operating range	340 – 2500 kW	360 – 2900 kW	490 – 4290 kW	510 – 4290 kW
Gas pressure	55 – 500 mbar (55 – 360 mbar for d452 and d453 gas train)	75 – 500 mbar (75 – 360 mbar for d452 and d453 gas train)	75 – 500 mbar (75 – 360 mbar for d452 and d453 gas train)	75 – 500 mbar (75 – 360 mbar for d452 and d453 gas train)
Gas connection	DN65	DN65	DN65	DN65
Control box / flame detector	BT300 / QRA2	BT300 / QRA2	BT300 / QRA2	BT300 / QRA2
Auxiliary voltage	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor	50 Hz – 3 kW	50 Hz – 4 kW	50 Hz – 5,5 kW	50 Hz – 7,5 kW
Acoustic level	<80 dB(A)	<80,5 dB(A)	<81,5 dB(A)	<84 dB(A)
CE certificate	0085CL0215	0085CL0215	0085CL0215	0085CL0215
Complete burner codes	**on request**	**on request**	**on request**	**on request**

GAS TRAINS

DUNGS

Model	Code
GT-d452-1"1/2 (*)	3750510
GT-d453-2" (*)	3750511
GT-d454-65	3750512
GT-d455-80	3750513
GT-d456-100	3750514

*: integrated filter

SIEMENS

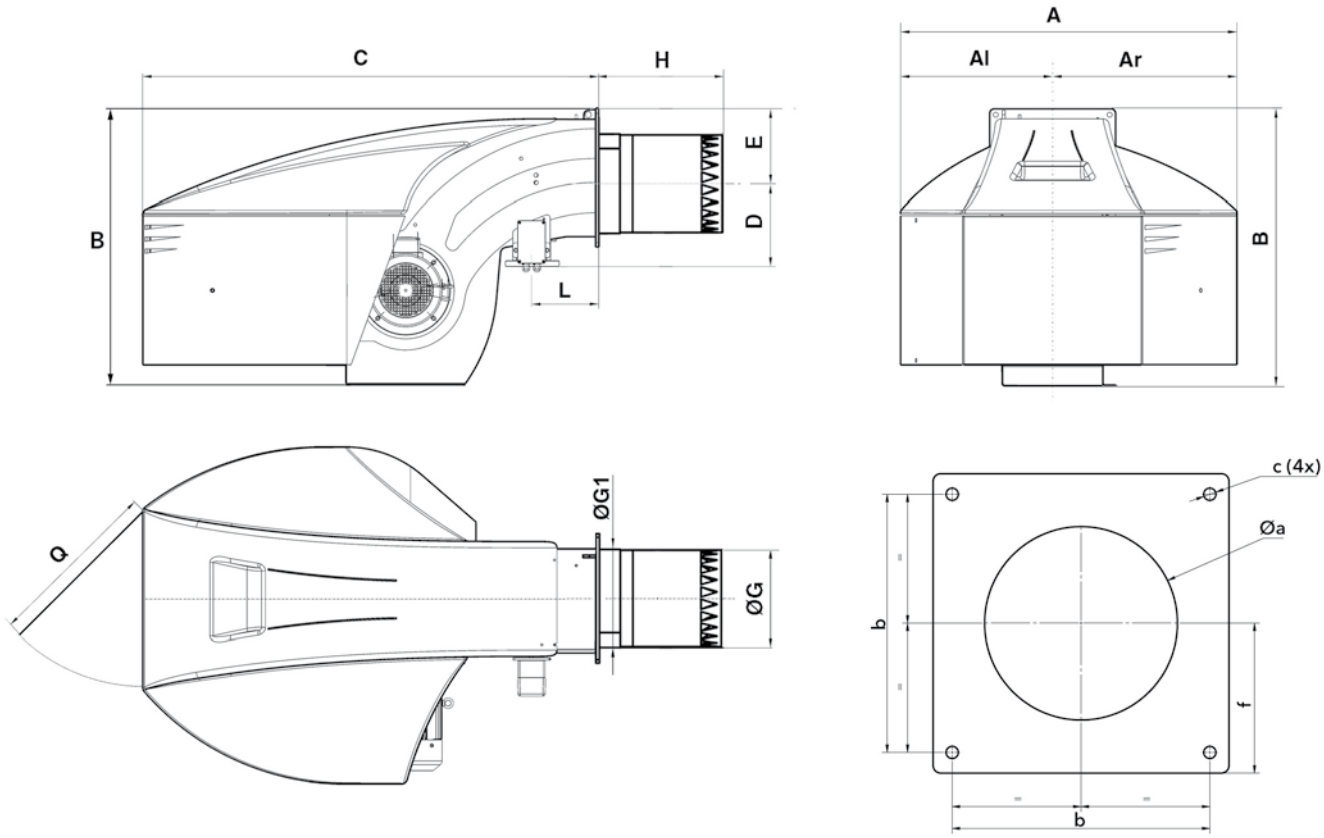
Model	Code
GT-s451-1"1/2	3750525
GT-s452-2"	3750526
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529
GT-s456-125	3750530

FILTERS

Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 246

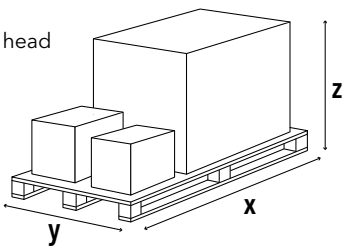
DIMENSIONS (mm)



Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Q	Øa	b	c	f
										KN	KM	KL						
N6... G-EU2	990	479	511	837	1358	245	225	263	277	400	520	640	213	600	330-340	340	M16	200
N7... G-EU2	1127	509	618	961	1527	276	255	325	343	420	550	680	223	600	360-400	400	M16	235

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N6.2400 G-EU2	2300	1500	1573	360
N6.2900 G-EU2	2300	1500	1573	360
N7.3600 G-EU2	2300	1500	1573	450
N7.4500 G-EU2	2300	1500	1573	450

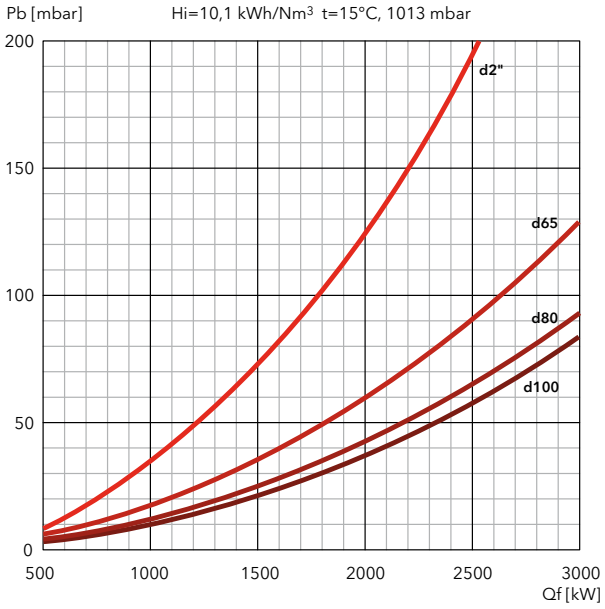
N6 G-EU2 / N7 G-EU2

340 ... 4290 kW
Two stage progressive/modulating electronic

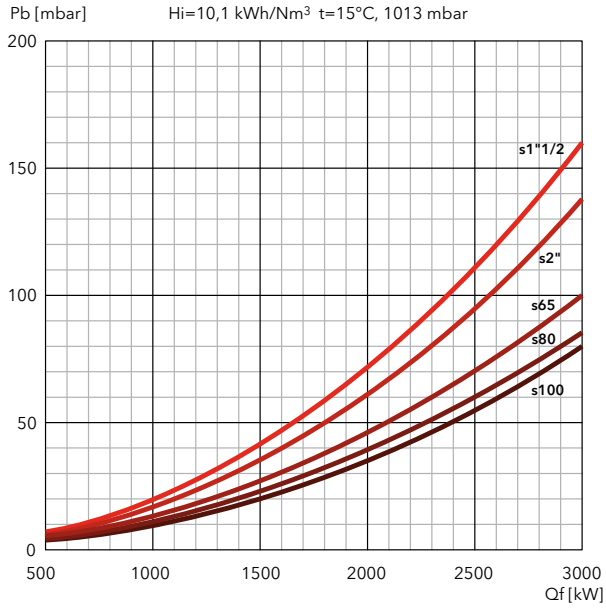
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N6.2400 G-EU2

DUNGS

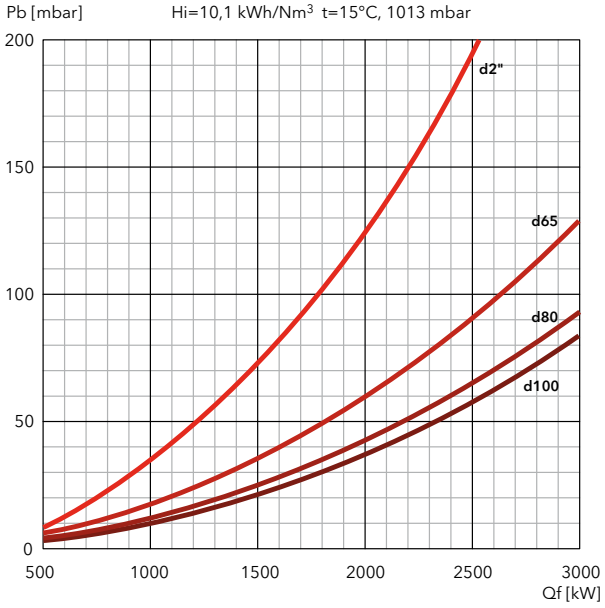


SIEMENS

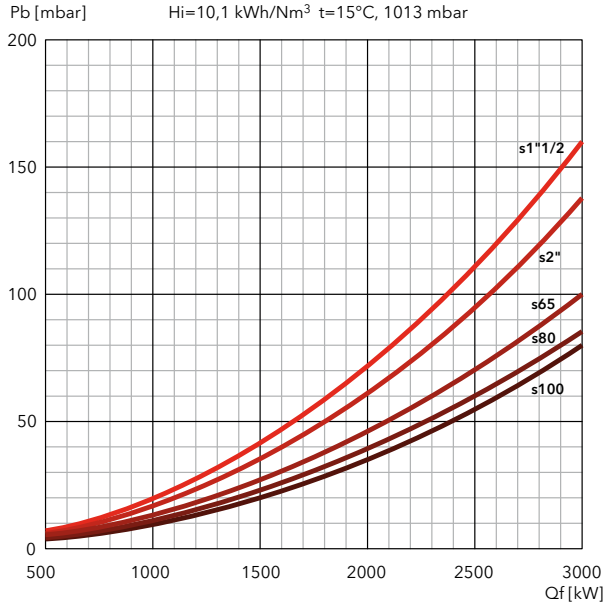


N6.2900 G-EU2

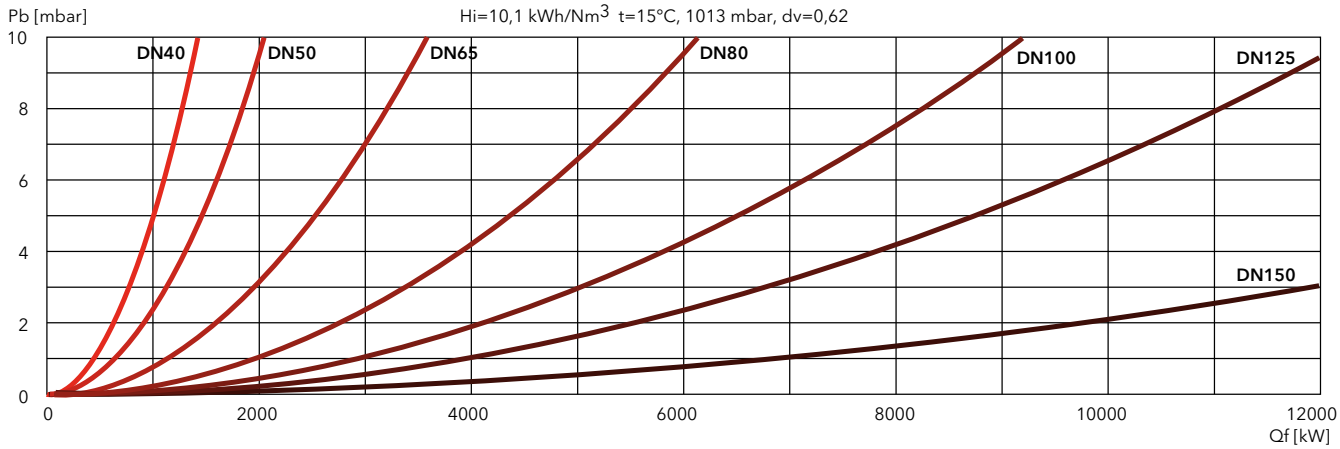
DUNGS



SIEMENS



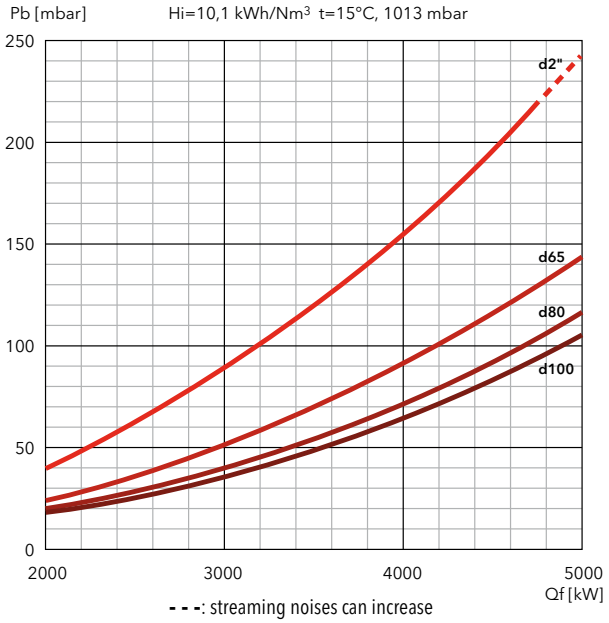
FILTERS



PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

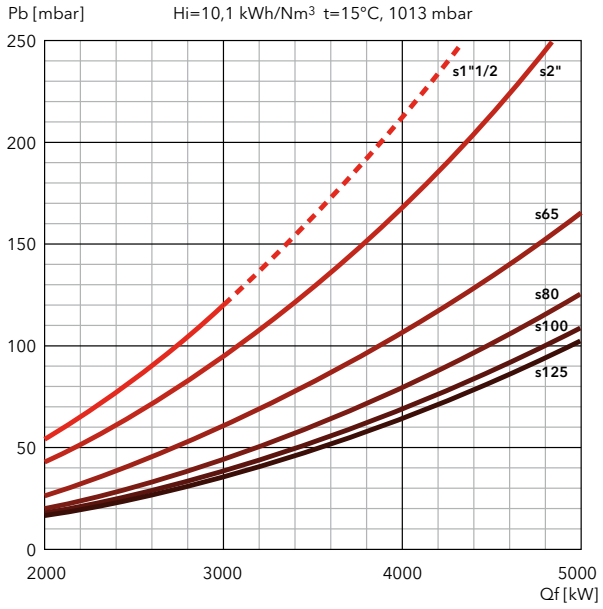
N7.3600 G-EU2

DUNGS



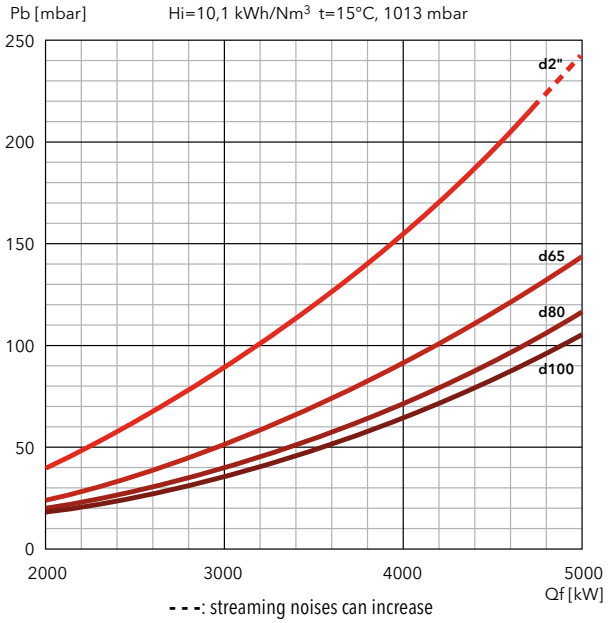
- - -: streaming noises can increase

SIEMENS



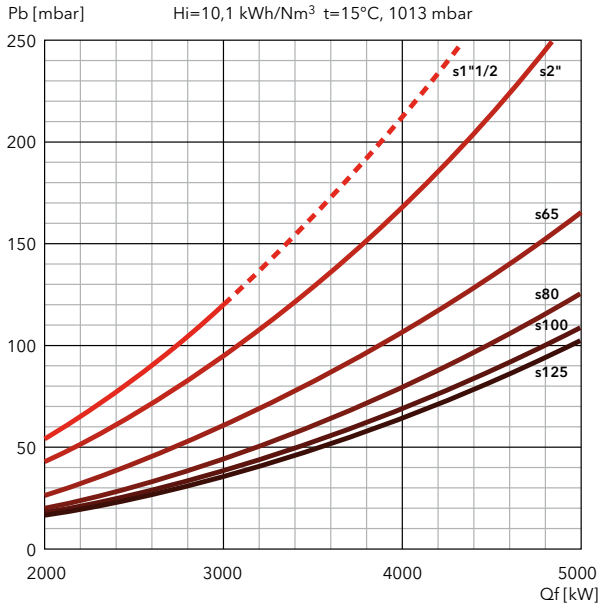
N7.4500 G-EU2

DUNGS

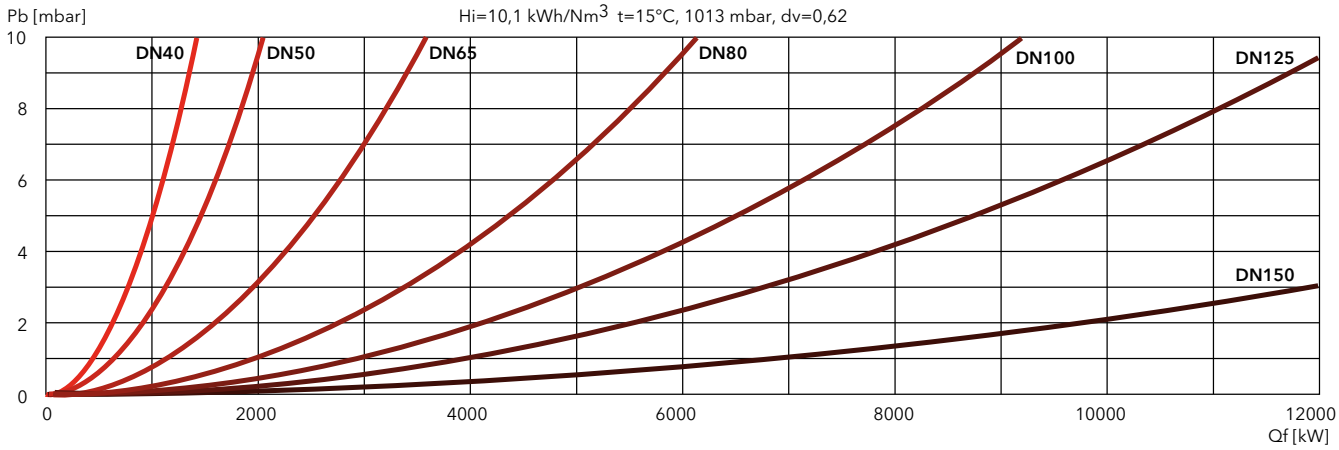


- - -: streaming noises can increase

SIEMENS



FILTERS



NEXTRON

GAS

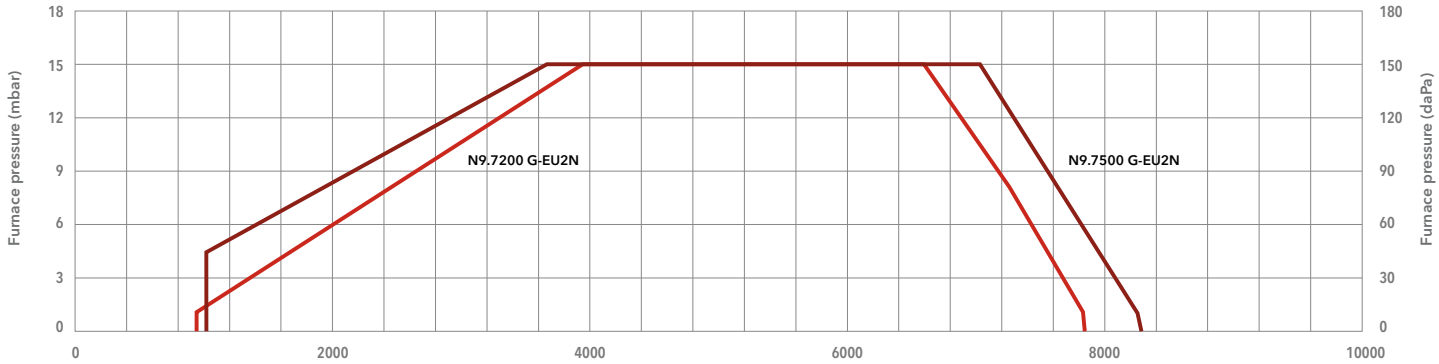
Low NOx Class 3

N9 G-EU2N

970 ... 8250 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

	N9.7200 G-EU2N	N9.7500 G-EU2N
Operating range	970 – 7840 kW	1020 – 8250 kW
Gas pressure	150 – 500 mbar (150 – 360 mbar for d457 gas train)	120 – 500 mbar (120 – 360 mbar for d457 gas train)
Gas connection	DN100	DN100
Control box / flame detector	BT300 / QRA2	BT300 / QRA2
Auxiliary voltage	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor	50 Hz – 22 kW	50 Hz – 22 kW
Acoustic level	<81,7 dB(A)	<81,7 dB(A)
CE certificate	0085CL0215	0085CL0215
Complete burner codes	**on request**	**on request**

GAS TRAINS

DUNGS

Model	Code
GT-d457-2" (*)	3750515
GT-d458-65	3750516
GT-d459-80	3750517
GT-d460-100	3750518

SIEMENS

Model	Code
GT-s458-65	3750538
GT-s459-80	3750539
GT-s460-100	3750540
GT-s461-125	3750541

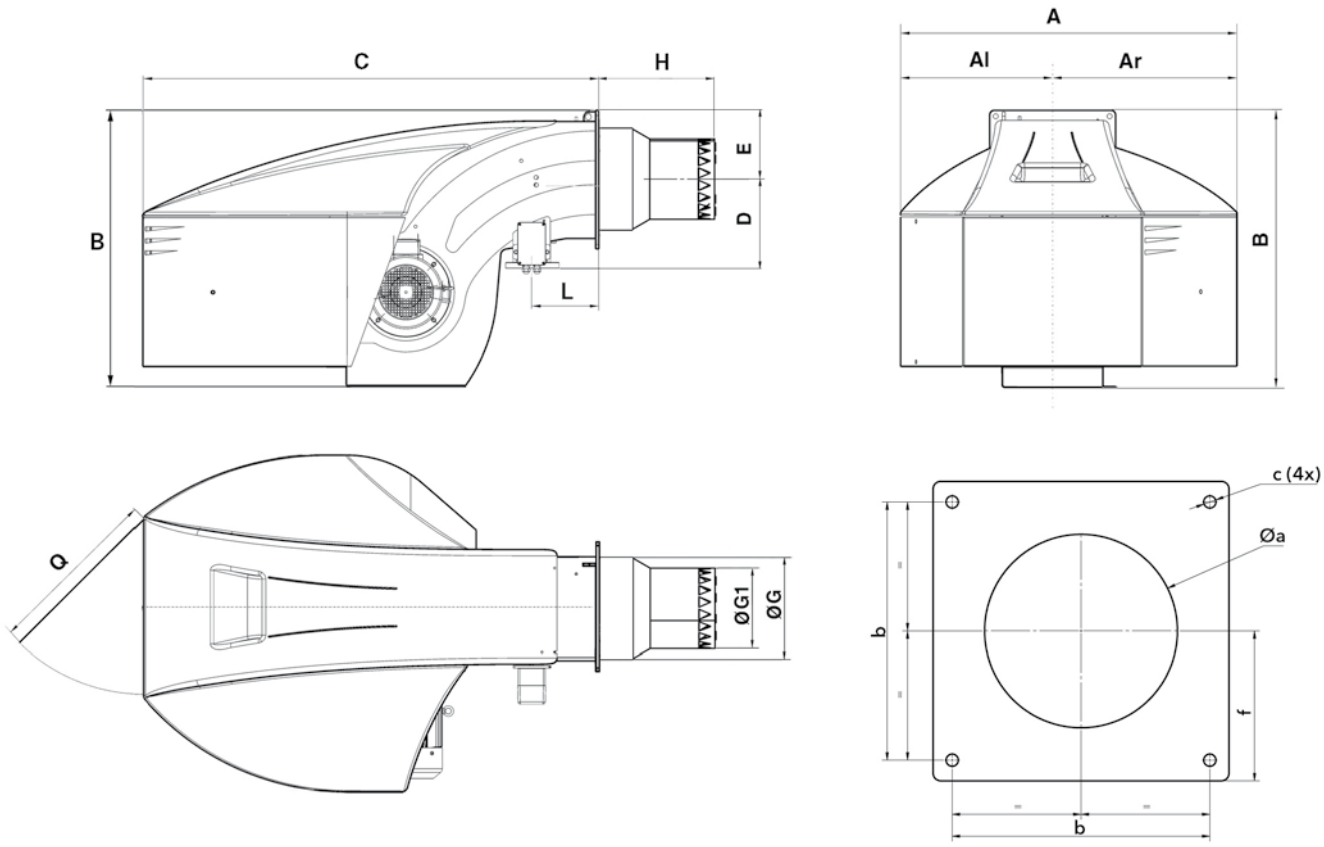
FILTERS

Model	Code
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

*: integrated filter

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 247

DIMENSIONS (mm)

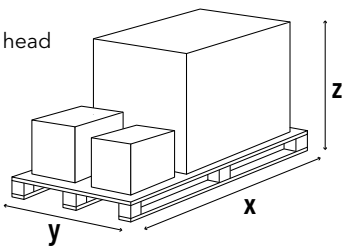


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Q
										KN	KM	KL		
N9.7200 G-EU2N	1414	669	745	1291	1928	369	293	439	346	500	640	780	230	800
N9.7500 G-EU2N	1414	669	745	1291	1928	369	293	439	369	550	700	850	230	800

Øa	b	c	f
460-480	505	M20	293
460-480	505	M20	293

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N9.7200 G-EU2N	2900	1600	1573	760
N9.7500 G-EU2N	2900	1600	1573	760

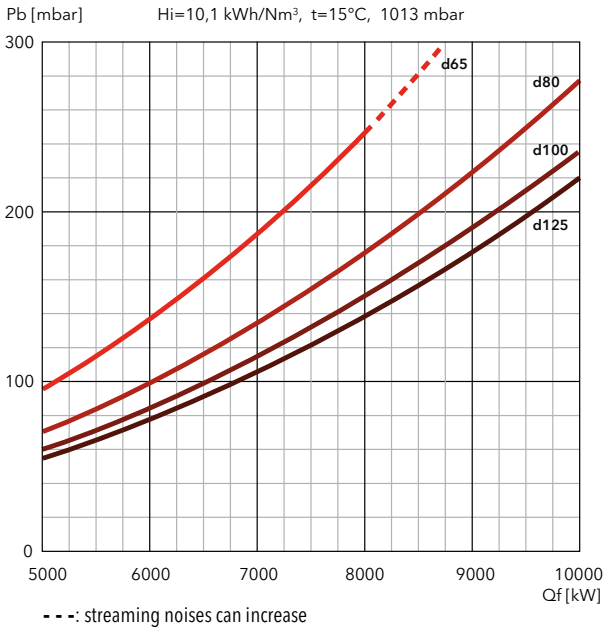
N9 G-EU2N

970 ... 8250 kW
Two stage progressive/modulating electronic

PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

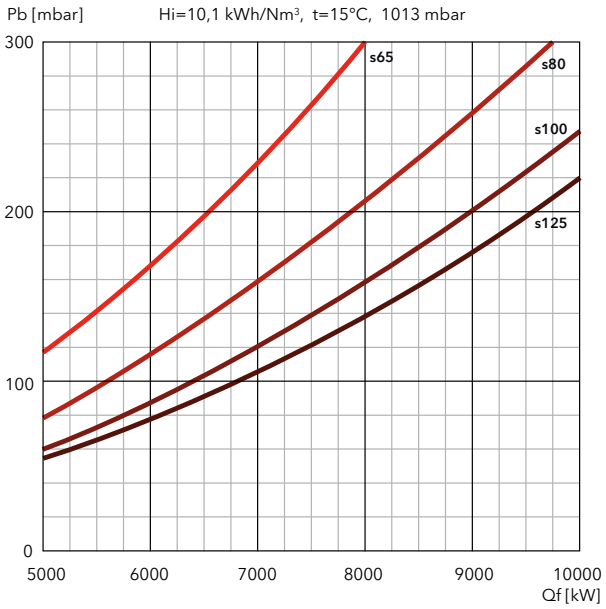
N9.7200 G-EU2N

DUNGS

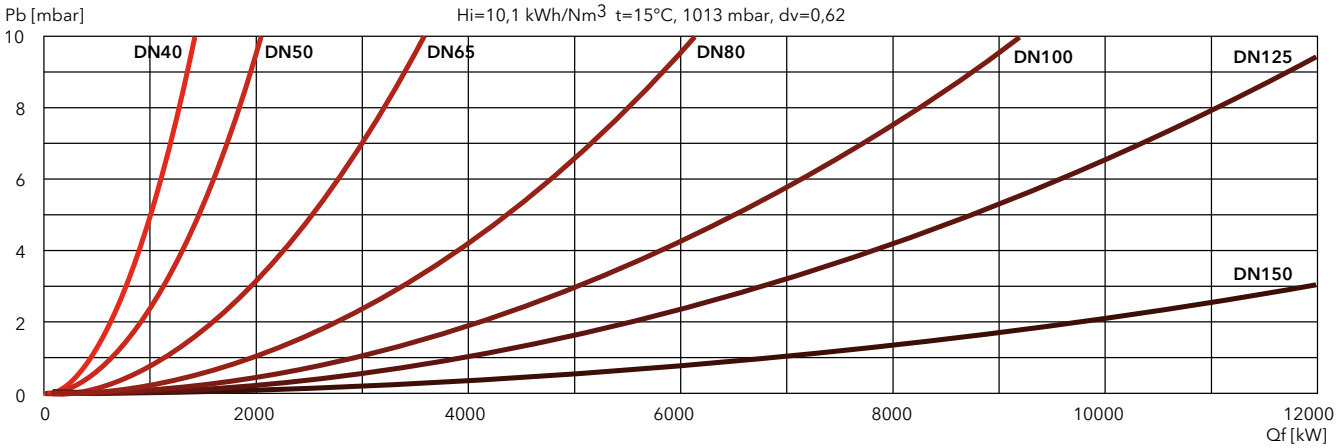


- - -: streaming noises can increase

SIEMENS



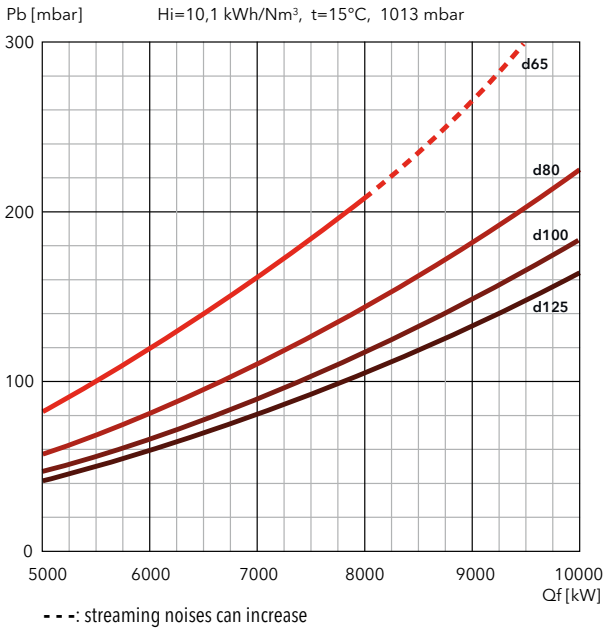
FILTERS



PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

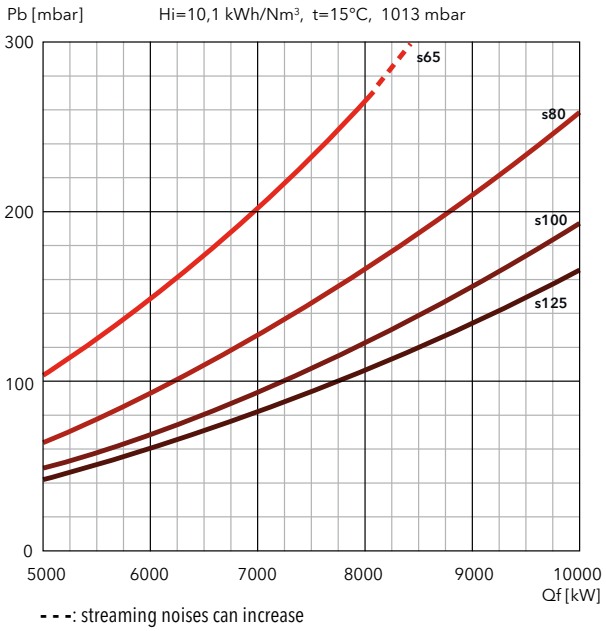
N9.7500 G-EU2N

DUNGS



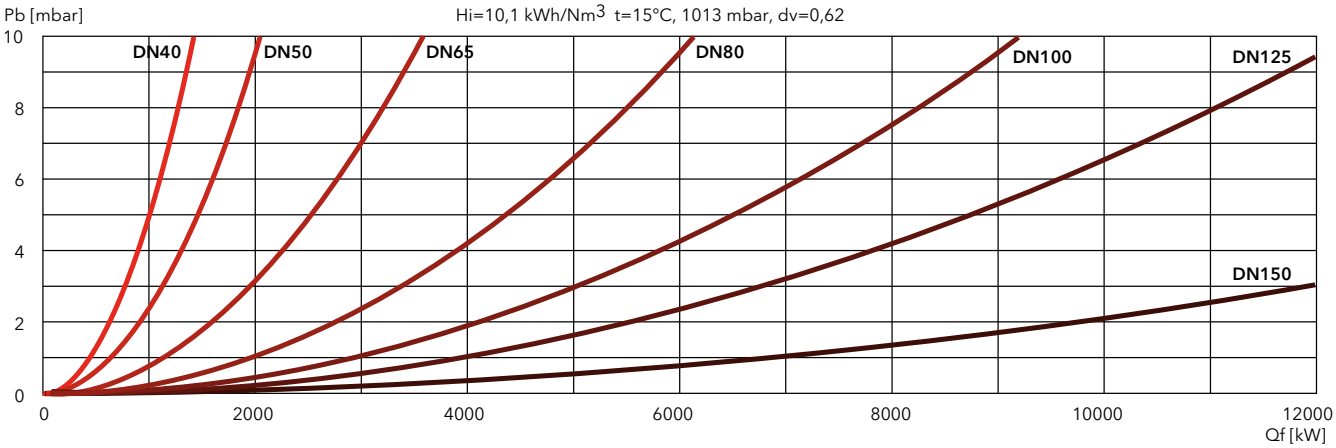
- - -: streaming noises can increase

SIEMENS



- - -: streaming noises can increase

FILTERS



NEXTRON

GAS

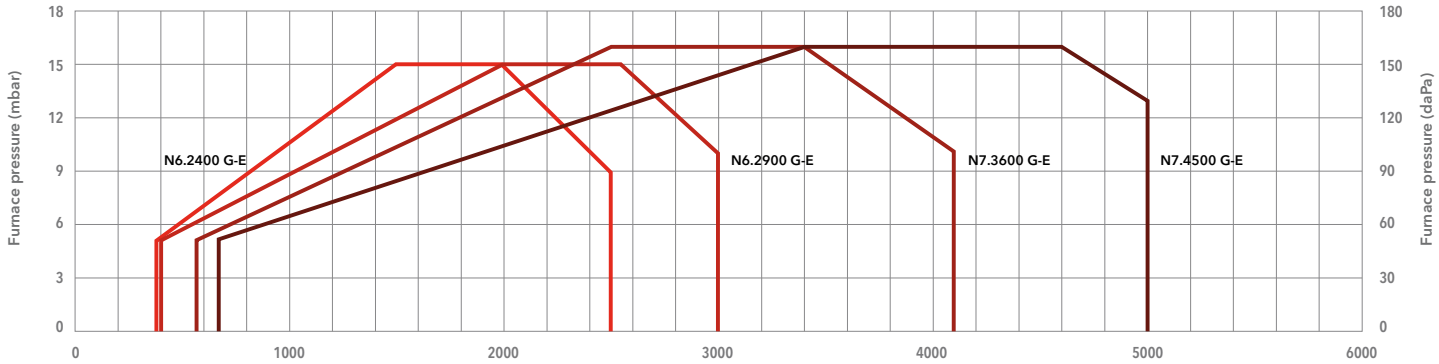
Low NOx Class 2

N6 G-E / N7 G-E

390 ... 5000 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 2 (≤120 mg/kWh) according to EN676
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

Power (kW)

	N6.2400 G-E	N6.2900 G-E	N7.3600 G-E	N7.4500 G-E
Operating range	390 – 2500 kW	400 – 3000 kW	580 – 4100 kW	680 – 5000 kW
Gas pressure	50 – 500 mbar (50 – 360 mbar for d452 and d453 gas train)		50 – 500 mbar (50 – 360 mbar for d452 and d453 gas train)	
Gas connection	DN65	DN65	DN65	DN65
Control box / flame detector	BT300 / Ionisation	BT300 / Ionisation	BT300 / Ionisation	BT300 / Ionisation
Auxiliary voltage	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor	50 Hz – 3 kW	50 Hz – 4 kW	50 Hz – 5,5 kW	50 Hz – 7,5 kW
Acoustic level	<70 dB(A)	<71 dB(A)	<74 dB(A)	<75 dB(A)
CE certificate	0085CL0215	0085CL0215	0085CL0215	0085CL0215
Complete burner codes	**on request**	**on request**	**on request**	**on request**

GAS TRAINS

DUNGS

Model	Code
GT-d452-1"1/2 (*)	3750510
GT-d453-2" (*)	3750511
GT-d454-65	3750512
GT-d455-80	3750513
GT-d456-100	3750514

*: integrated filter

SIEMENS

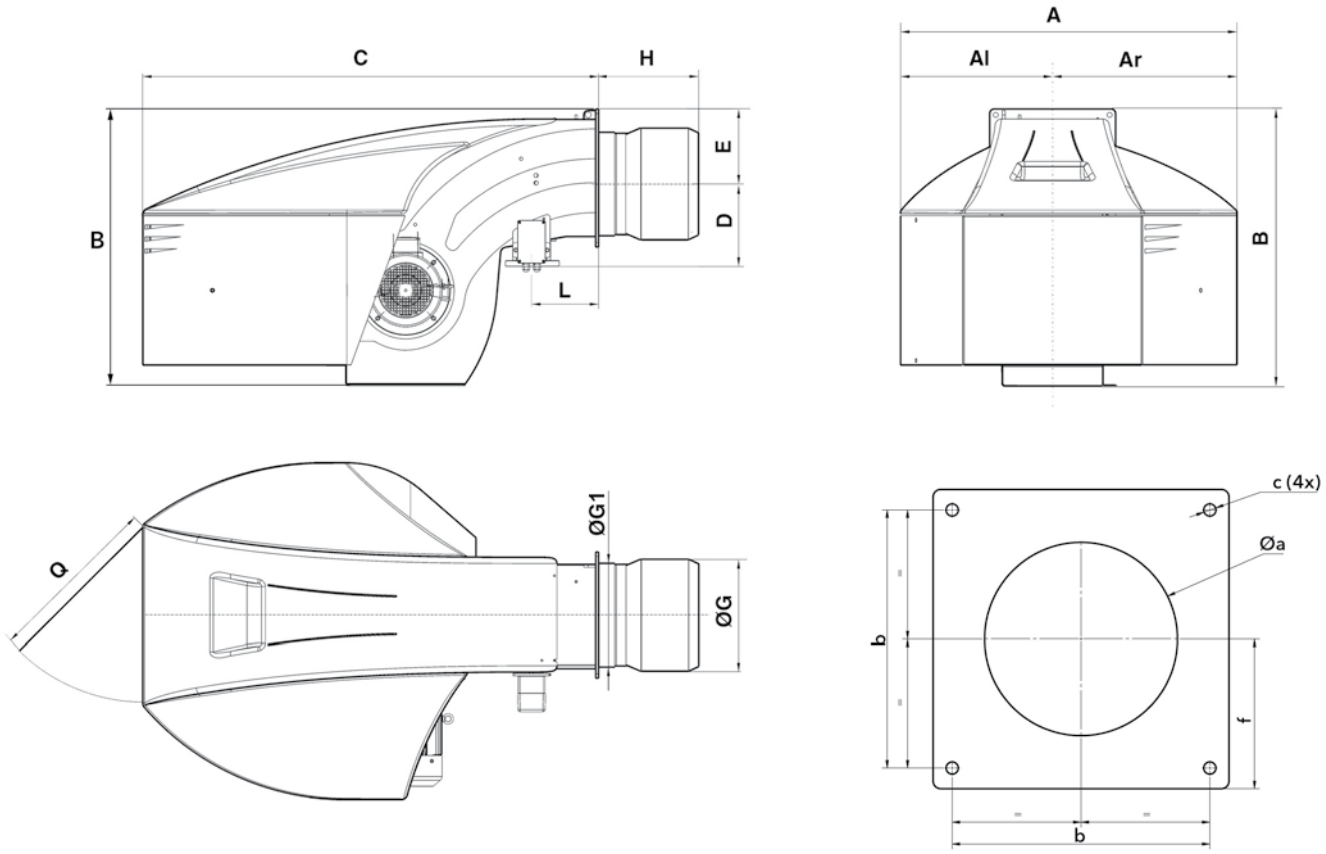
Model	Code
GT-s451-1"1/2	3750525
GT-s452-2"	3750526
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529
GT-s456-125	3750530

FILTERS

Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 246

DIMENSIONS (mm)

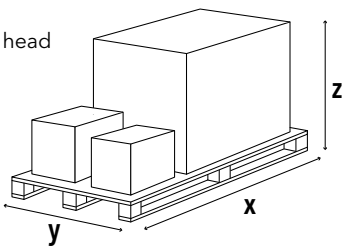


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Q
										KN	KM	KL		
N6... G-E	990	479	510	837	1361	245	225	320	270	330	450	570	215	600
N7... G-E	1128	511	618	961	1529	276	255	370	332	375	505	635	225	600

Øa	b	c	f
330-340	340	M16	200
380-400	400	M16	235

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N6.2400 G-E	2300	1500	1573	360
N6.2900 G-E	2300	1500	1573	360
N7.3600 G-E	2300	1500	1573	450
N7.4500 G-E	2300	1500	1573	450

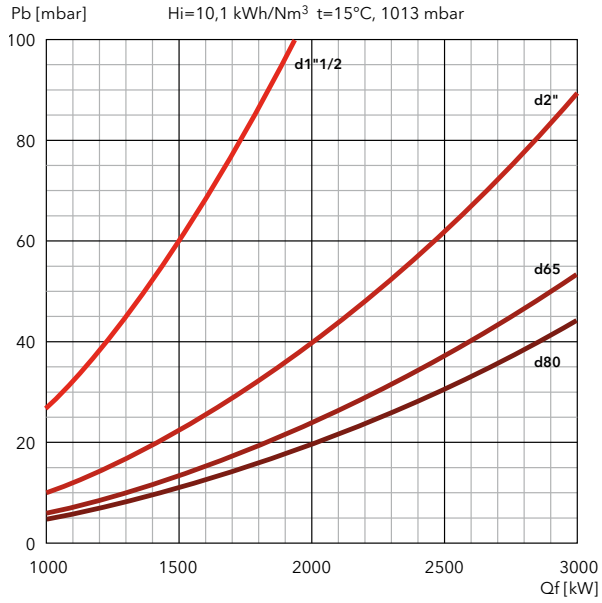
N6 G-E / N7 G-E

390 ... 5000 kW
Two stage progressive/modulating electronic

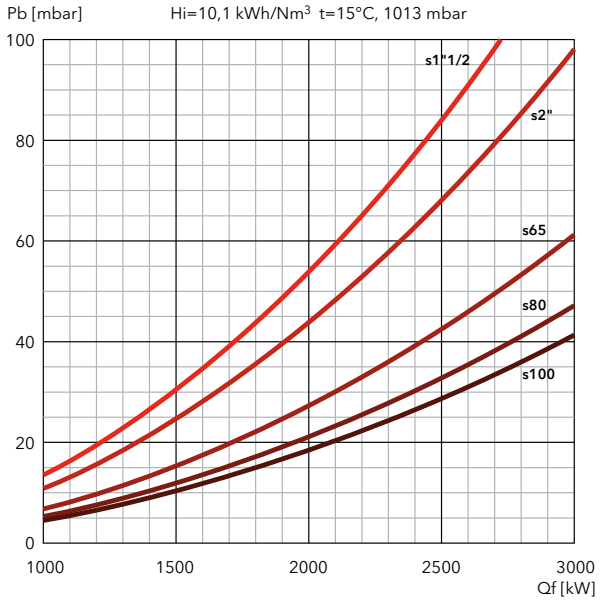
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N6.2400 G-E

DUNGS

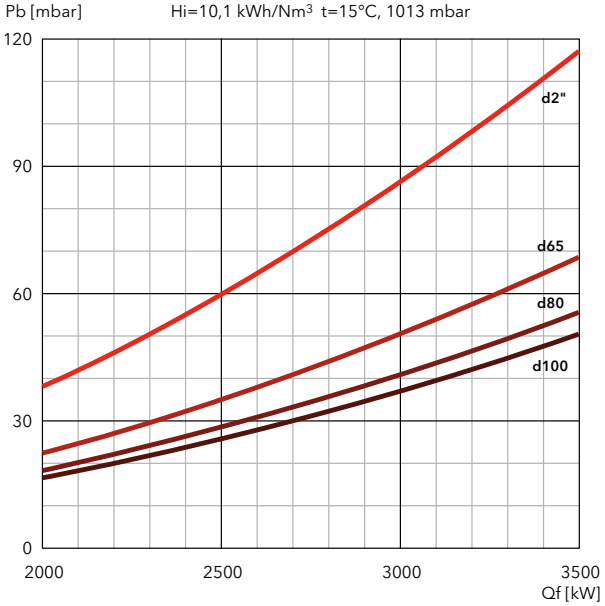


SIEMENS

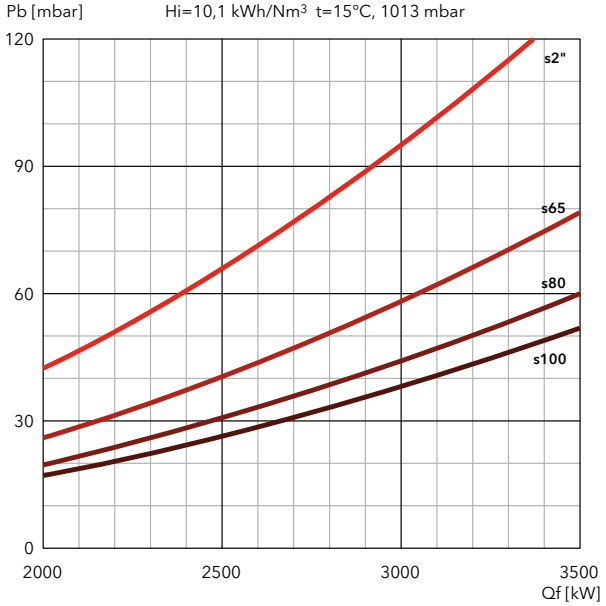


N6.2900 G-E

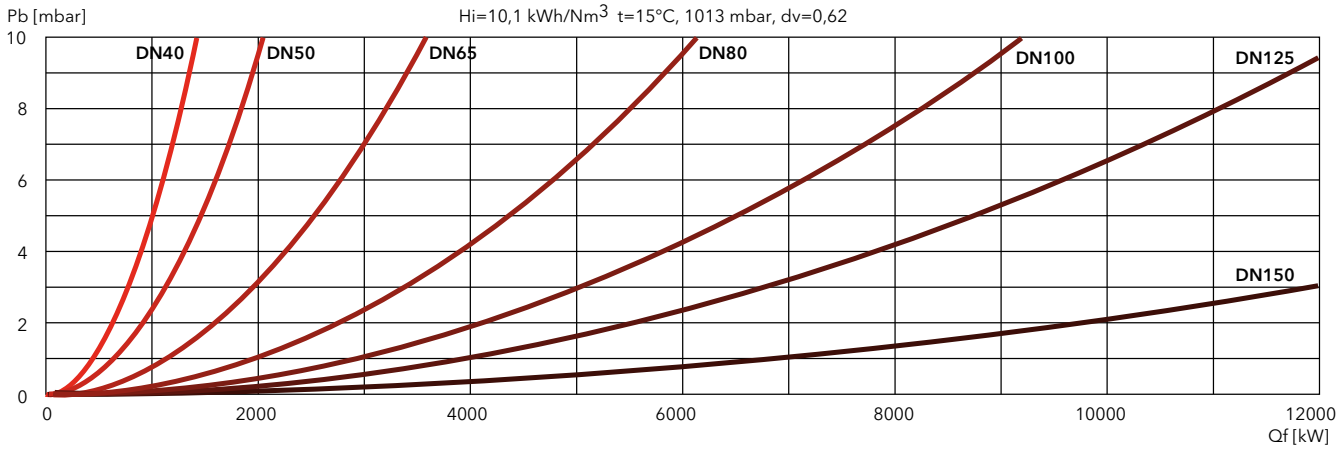
DUNGS



SIEMENS



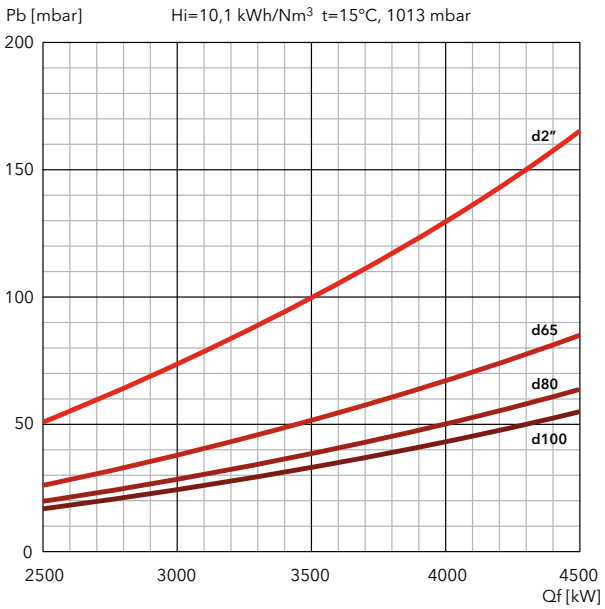
FILTERS



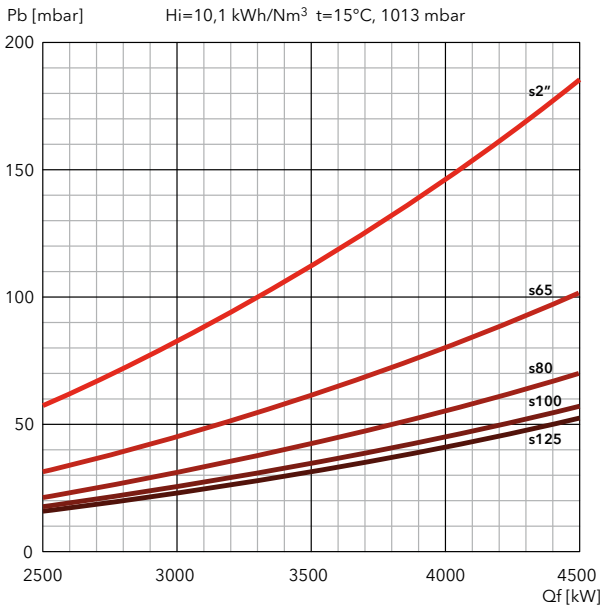
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N7.3600 G-E

DUNGS

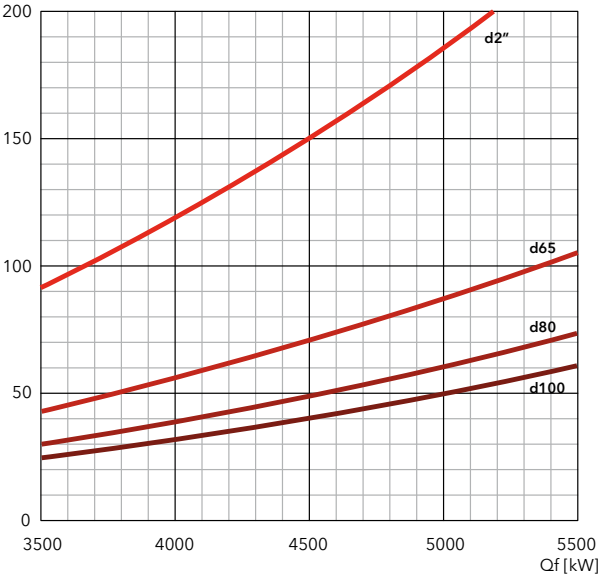


SIEMENS

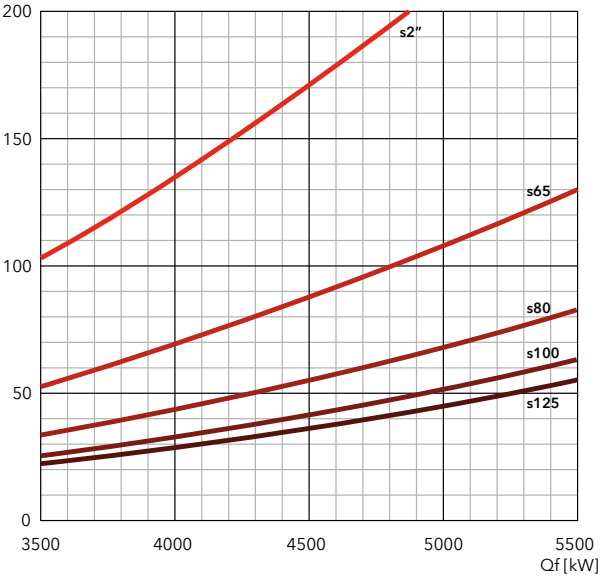


N7.4500 G-E

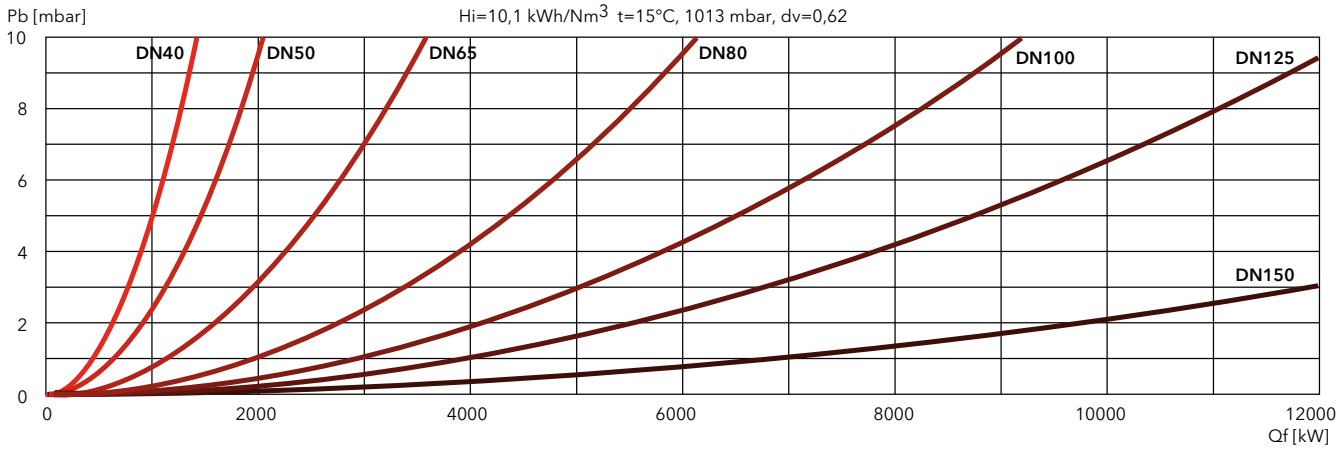
DUNGS



SIEMENS



FILTERS



NEXTRON

GAS

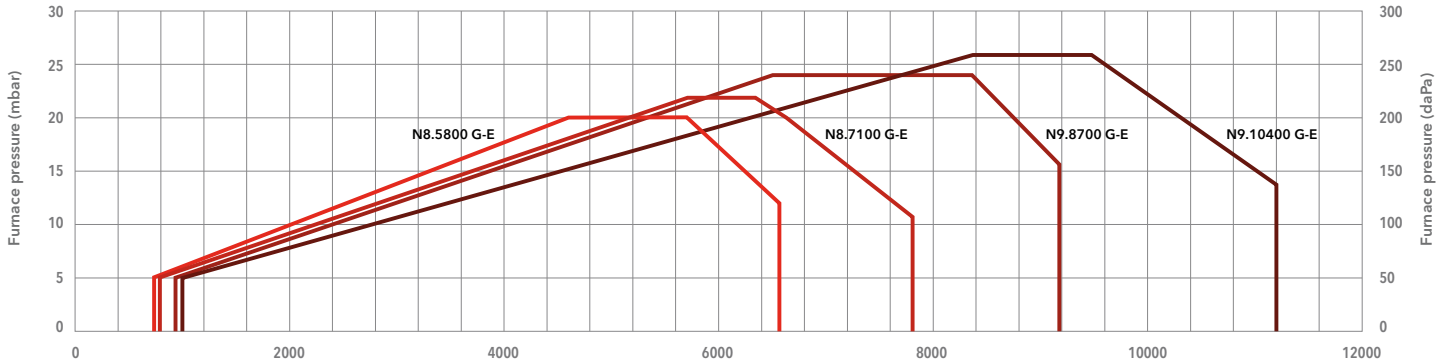
Low NOx Class 2

N8 G-E / N9 G-E

740 ... 11200 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  LPG, Hi = 25,89 kWh/Nm³
- **Emission class:** Low NOx class 2 (≤120 mg/kWh) according to EN676
- **Modulating ratio:** 1:10
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

	N8.5800 G-E	N8.7100 G-E	N9.8700 G-E	N9.10400 G-E
Operating range	740 – 6570 kW	800 – 7800 kW	880 – 9200 kW	960 – 11200 kW
Gas pressure	60 – 500 mbar (60 – 360 mbar for d457 gas train)		70 – 500 mbar (70 – 360 mbar for d457 gas train)	
Gas connection	DN100	DN100	DN100	DN100
Control box / flame detector	BT300 / Ionisation	BT300 / Ionisation	BT300 / Ionisation	BT300 / Ionisation
Auxiliary voltage	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Fan motor	50 Hz – 11 kW	50 Hz – 15 kW	50 Hz – 18,5 kW	50 Hz – 22 kW
Acoustic level	<78 dB(A)	<78 dB(A)	<80 dB(A)	<81 dB(A)
CE certificate	0085CL0215	0085CL0215	0085CL0215	0085CL0215
Complete burner codes	**on request**	**on request**	**on request**	**on request**

GAS TRAINS

DUNGS

Model	Code
GT-d457-2" (*)	3750515
GT-d458-65	3750516
GT-d459-80	3750517
GT-d460-100	3750518

*: integrated filter

SIEMENS

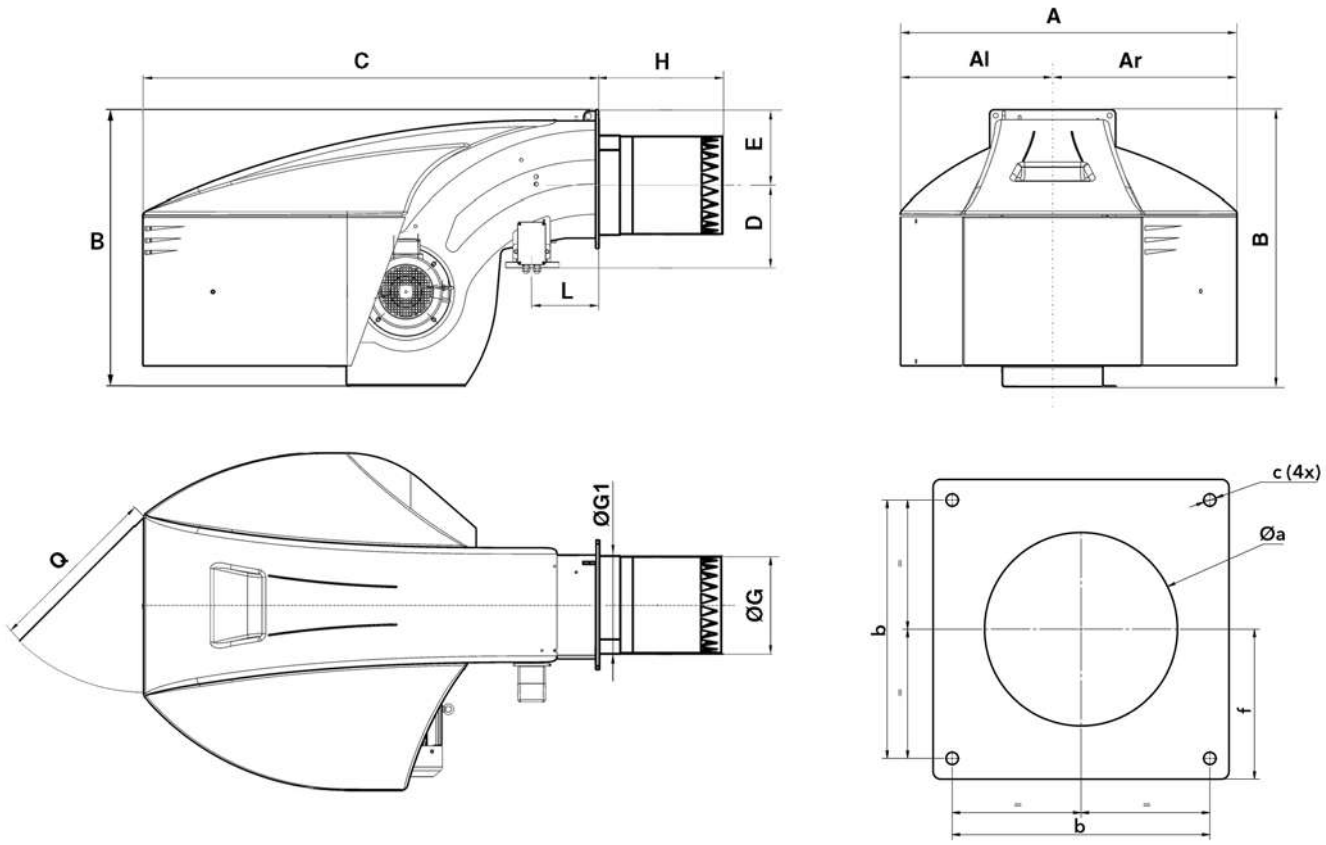
Model	Code
GT-s457-2"	3750537
GT-s458-65	3750538
GT-s459-80	3750539
GT-s460-100	3750540
GT-s461-125	3750541

FILTERS

Model	Code
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 247

DIMENSIONS (mm)

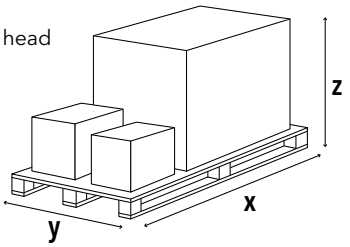


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Q
										KN	KM	KL		
N8... G-E	1414	669	745	1231	1930	344	293	369	377	500	640	780	230	800
N9... G-E	1414	669	745	1291	1928	369	293	431,5	439,5	550	700	850	230	800

Øa	b	c	f
390-410	505	M20	293
460-480	505	M20	293

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N8.5800 G-E	2900	1600	1573	700
N8.7100 G-E	2900	1600	1573	700
N9.8700 G-E	2900	1600	1573	760
N9.10400 G-E	2900	1600	1573	760

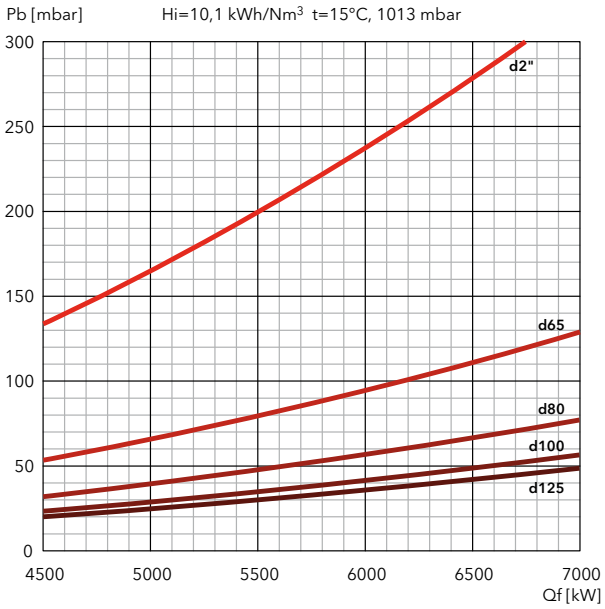
N8 G-E / N9 G-E

740 ... 11200 kW
Two stage progressive/modulating electronic

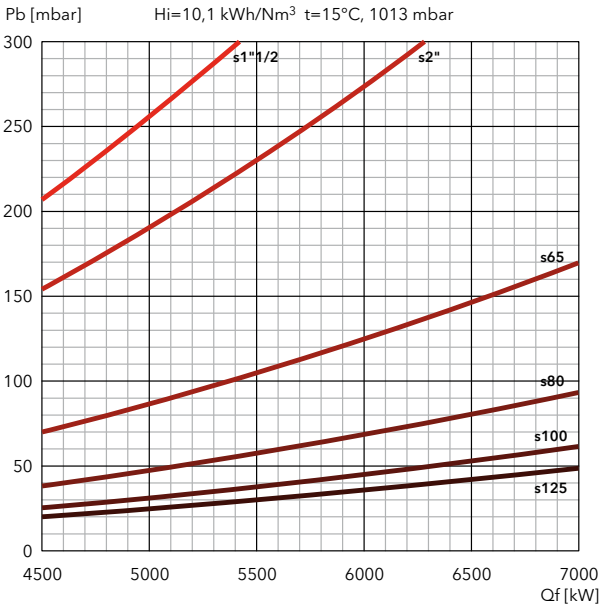
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N8.5800 G-E

DUNGS

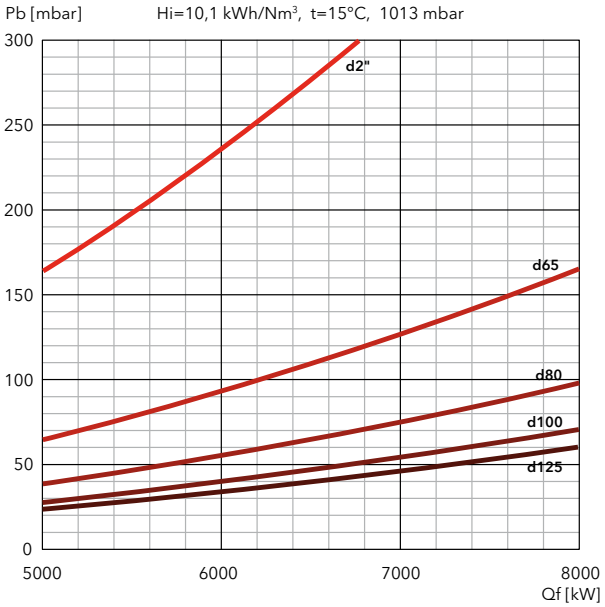


SIEMENS

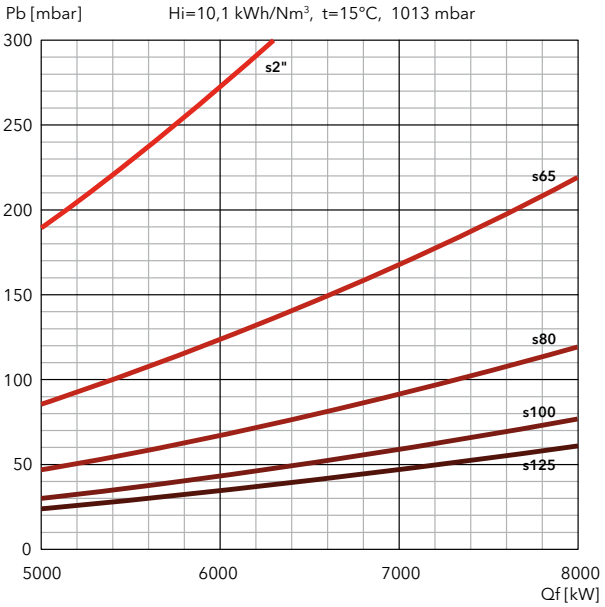


N8.7100 G-E

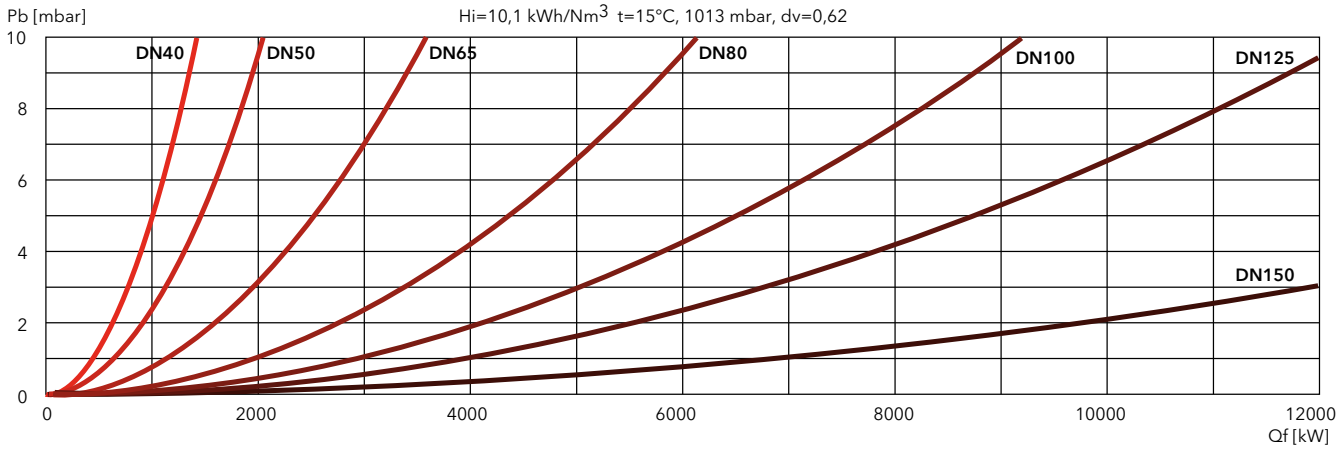
DUNGS



SIEMENS



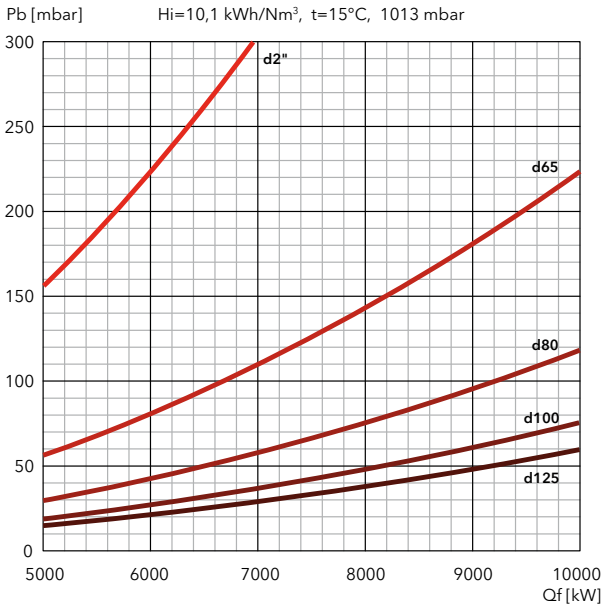
FILTERS



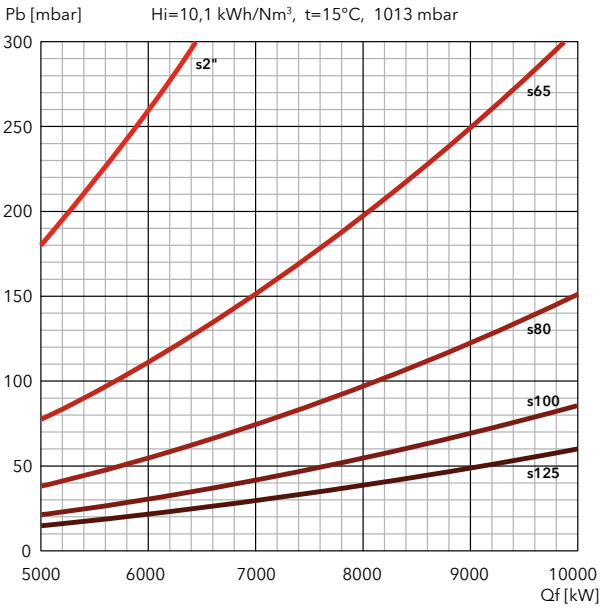
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N9.8700 G-E

DUNGS

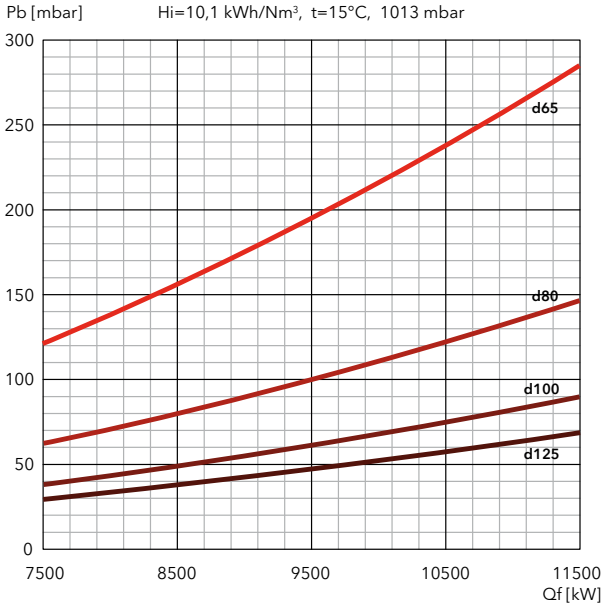


SIEMENS

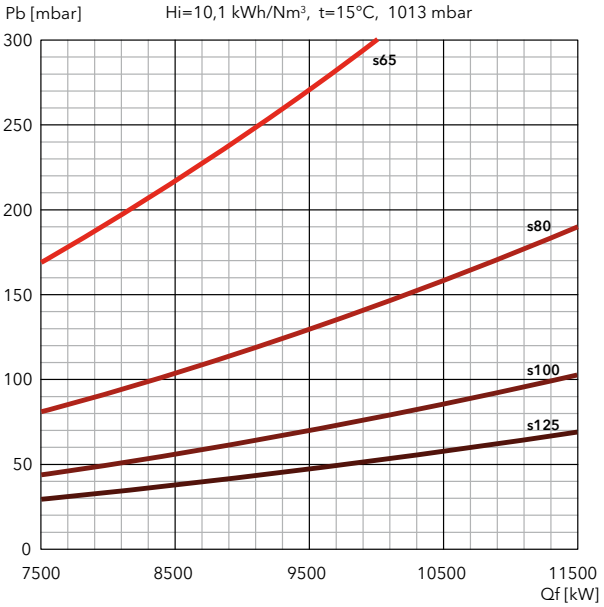


N9.10400 G-E

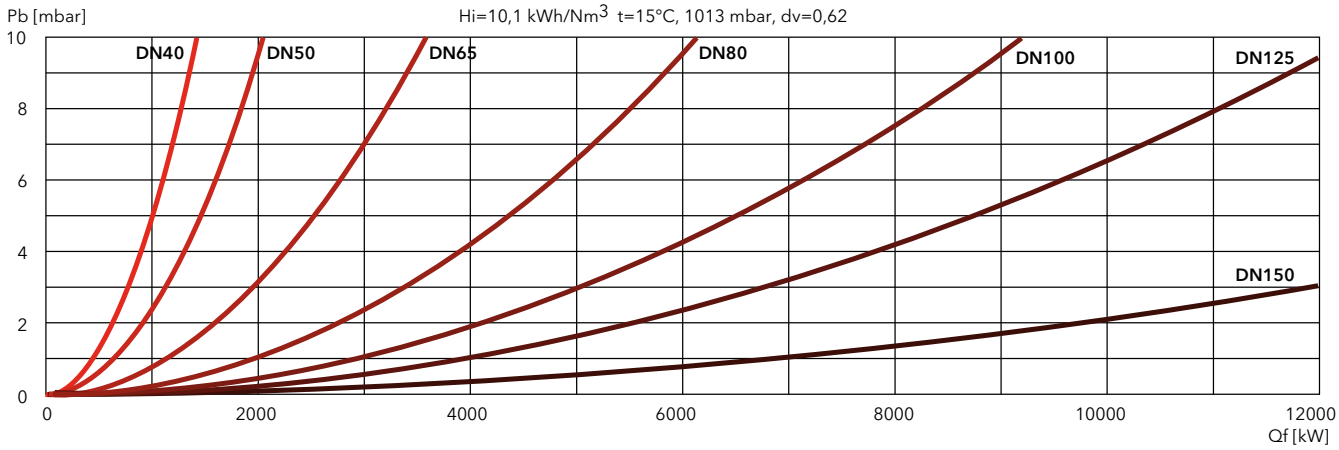
DUNGS



SIEMENS



FILTERS



NEXTRON

GAS / LIGHT OIL

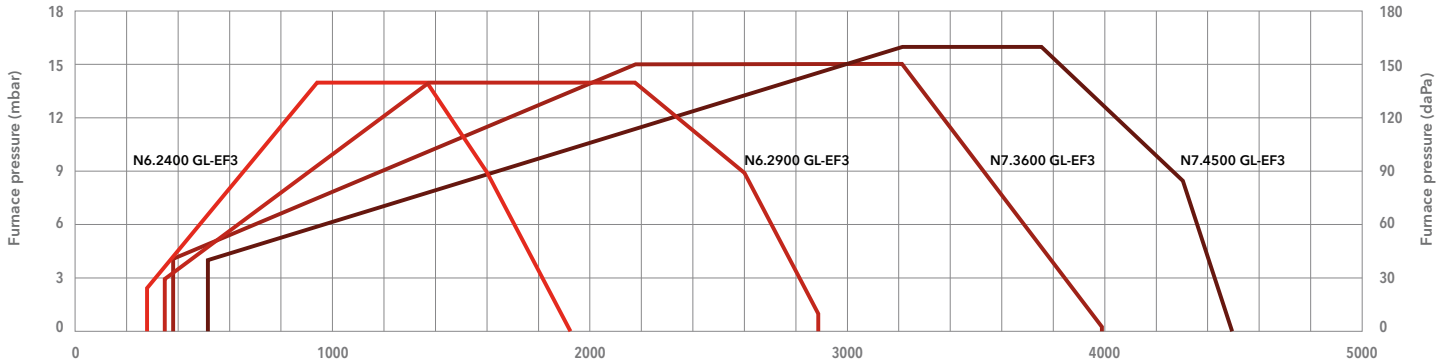
Low NOx Class 3

N6 GL-EF3 / N7 GL-EF3

280 ... 4500 kW
Two stage progressive/modulating electronic in gas and in light oil

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm^3;
  light oil, viscosity 6 mm^2/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676 in gas
  Low NOx class 3 (≤120 mg/kWh) according to EN267 in light oil
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 and EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

	N6.2400 GL-EF3	N6.2900 GL-EF3	N7.3600 GL-EF3	N7.4500 GL-EF3
Operating range gas	280 – 1920 kW	340 – 2890 kW	470 – 3980 kW	510 – 4500 kW
Operating range oil	360 – 1920 kW	740 – 2890 kW	680 – 3980 kW	740 – 4500 kW
Gas pressure	50 – 500 mbar (50 – 360 mbar for d452 and d453 gas train)		50 – 500 mbar (50 – 360 mbar for d452 and d453 gas train)	
Gas connection	DN65	DN65	DN65	DN65
Auxiliary voltage	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Control box / flame detector	BT300 / D-LX 100 EK-S	BT300 / D-LX 100 EK-S	BT300 / D-LX 100 EK-S	BT300 / D-LX 100 EK-S
Fan motor	50 Hz – 3 kW	50 Hz – 4 kW	50 Hz – 7,5 kW	50 Hz – 7,5 kW
Pump	SUNTEC TA3	SUNTEC TA3	SUNTEC TA4	SUNTEC TA4
Motor pump	50 Hz – 0,74 kW	50 Hz – 0,74 kW	50 Hz – 1,1 kW	50 Hz – 1,5 kW
Acoustic level	<71 dB(A)	<71 dB(A)	<76 dB(A)	<74 dB(A)
CE certificate	0085CL0215	0085CL0215	0085CL0215	0085CL0215
Complete burner codes	**on request**	**on request**	**on request**	**on request**

GAS TRAINS

DUNGS

Model	Code
GT-d452-1"1/2 (*)	3750510
GT-d453-2" (*)	3750511
GT-d454-65	3750512
GT-d455-80	3750513
GT-d456-100	3750514

*: integrated filter

SIEMENS

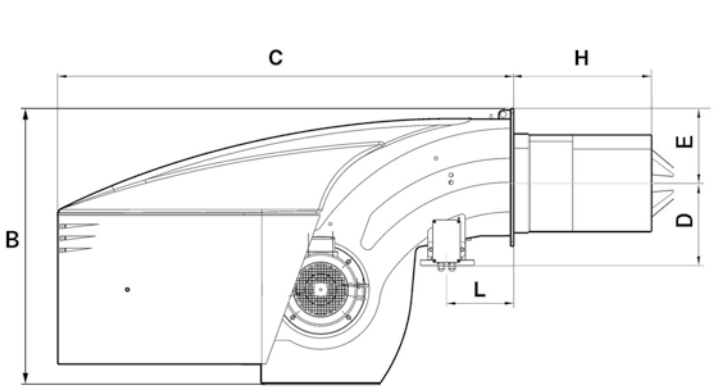
Model	Code
GT-s451-1"1/2	3750525
GT-s452-2"	3750526
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529
GT-s456-125	3750530

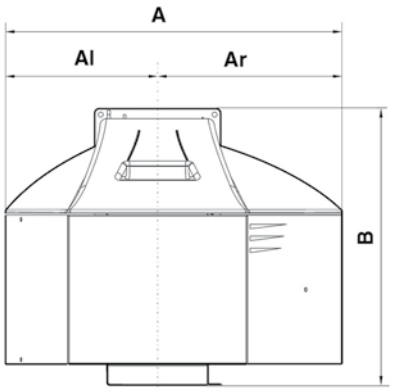
FILTERS

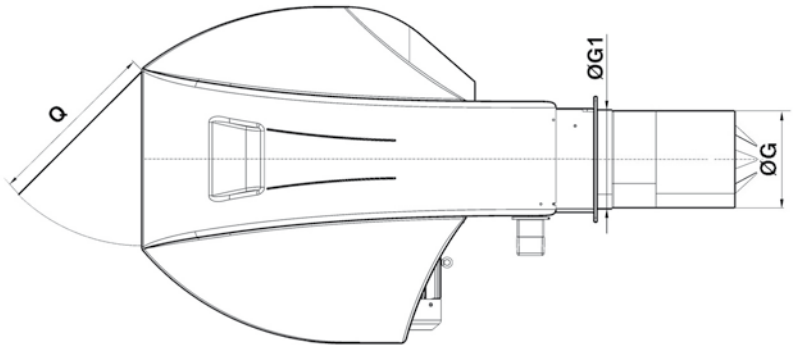
Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

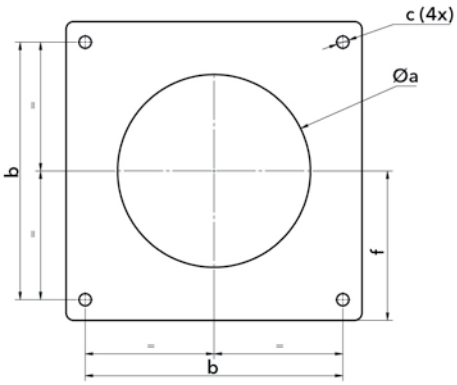
Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 246

DIMENSIONS (mm)







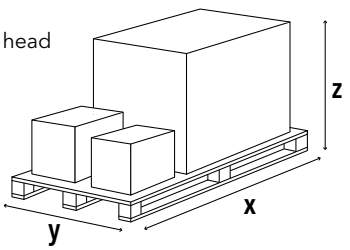


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Q
										KN	KM	KL		
N6.2400 GL-EF3	989	479	510	837	1369	245	225	227	270	392	512	632	223	600
N6.2900 GL-EF3	989	479	510	837	1369	245	225	263	270	392	512	632	223	600
N7.3600 GL-EF3	1128	510	618	961	1537	276	255	325	332	412	542	672	233	600
N7.4500 GL-EF3	1128	510	618	961	1537	276	255	325	332	412	542	672	233	600

Øa	b	c	f
300-340	340	M16	200
300-340	340	M16	200
360-400	400	M16	235
360-400	400	M16	235

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N6.2400 GL-EF3	2300	1500	1573	360
N6.2900 GL-EF3	2300	1500	1573	360
N7.3600 GL-EF3	2300	1500	1573	450
N7.4500 GL-EF3	2300	1500	1573	450

NEXTRON

GAS / LIGHT OIL

Low NOx Class 3

N6 GL-EF3 / N7 GL-EF3

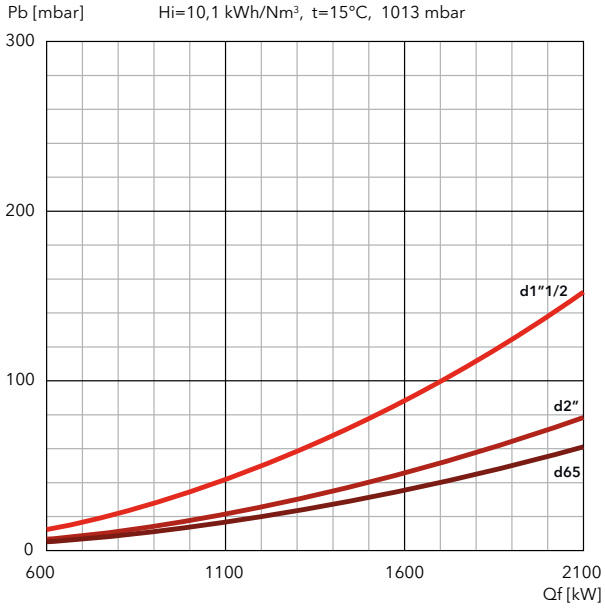
280 ... 4500 kW

Two stage progressive/modulating electronic in gas and in light oil

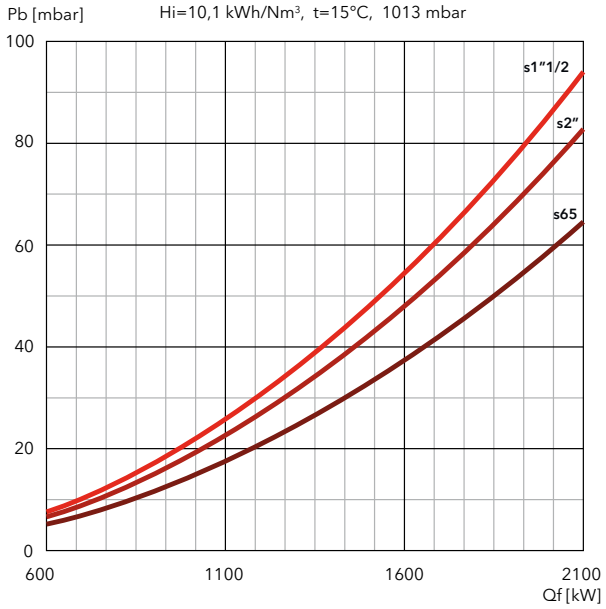
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N6.2400 GL-EF3

DUNGS

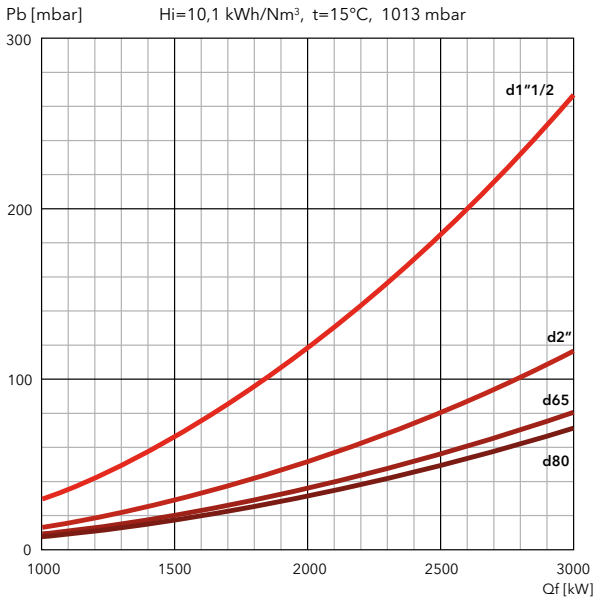


SIEMENS

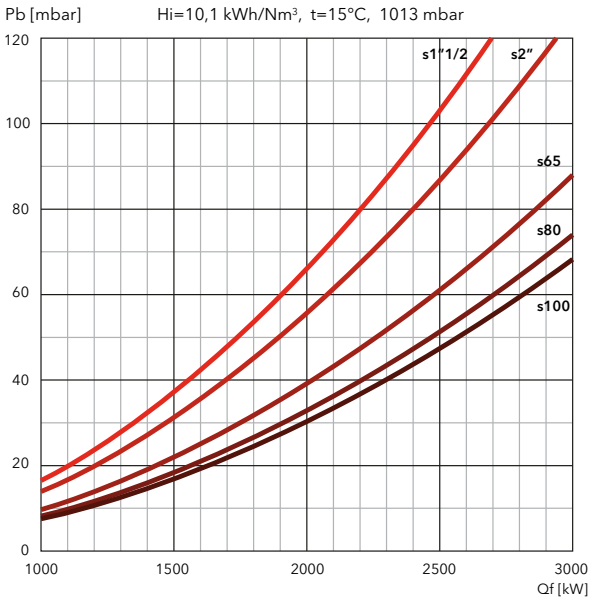


N6.2900 GL-EF3

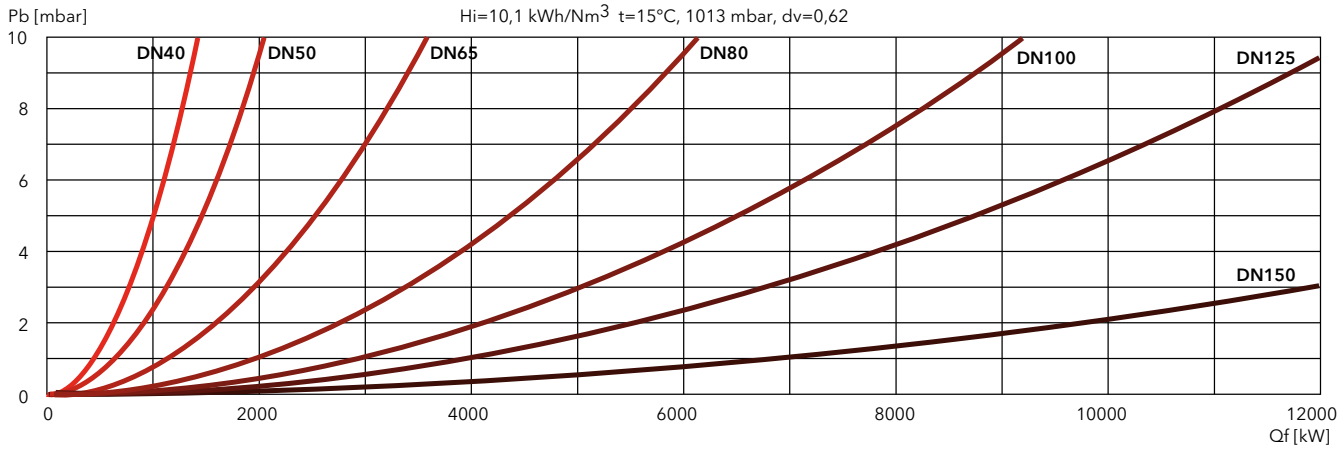
DUNGS



SIEMENS



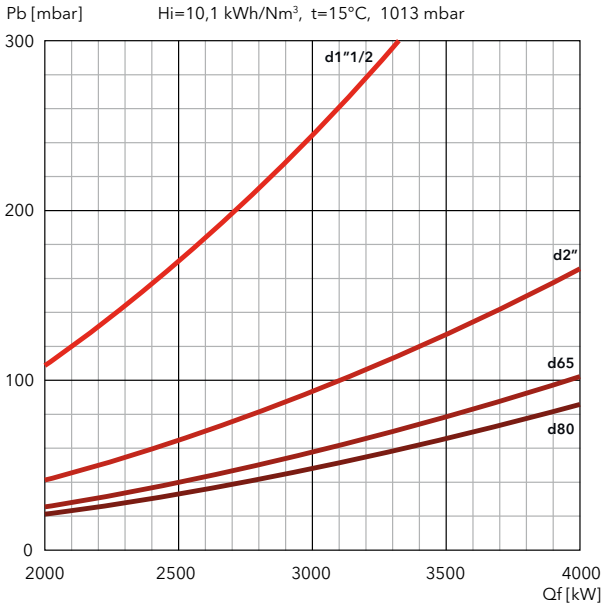
FILTERS



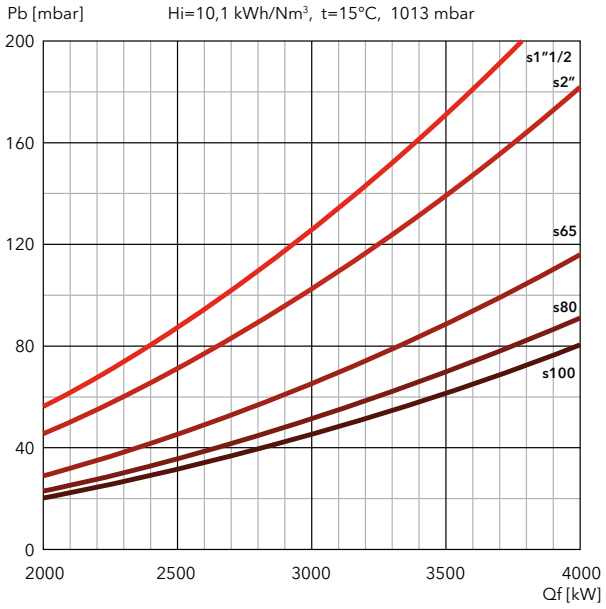
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N7.3600 GL-EF3

DUNGS

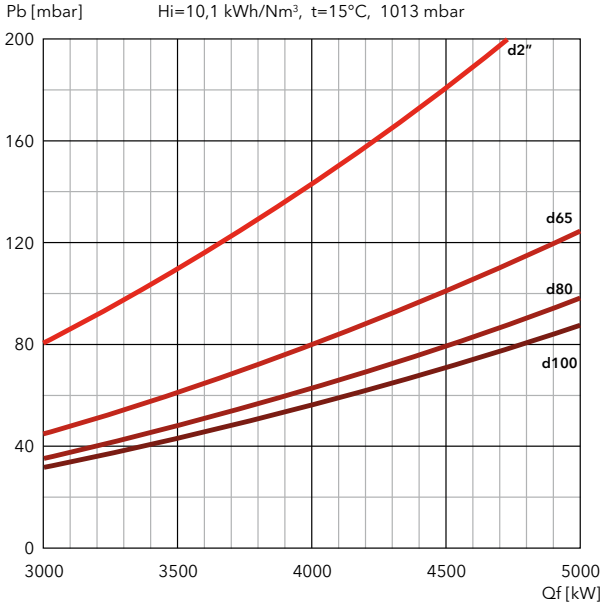


SIEMENS

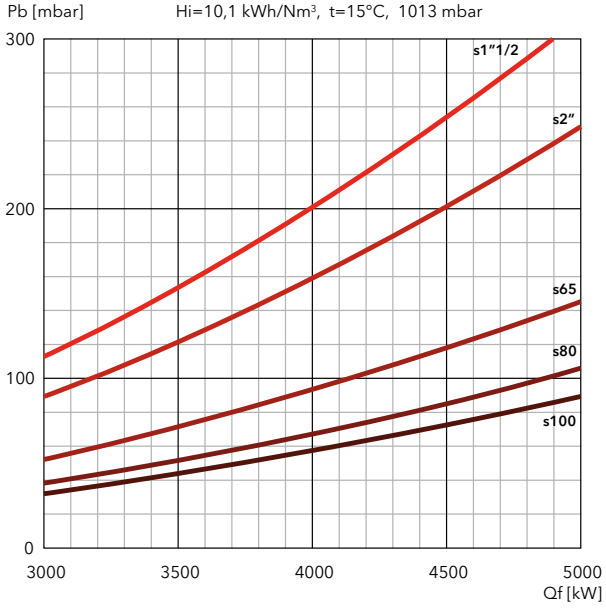


N7.4500 GL-EF3

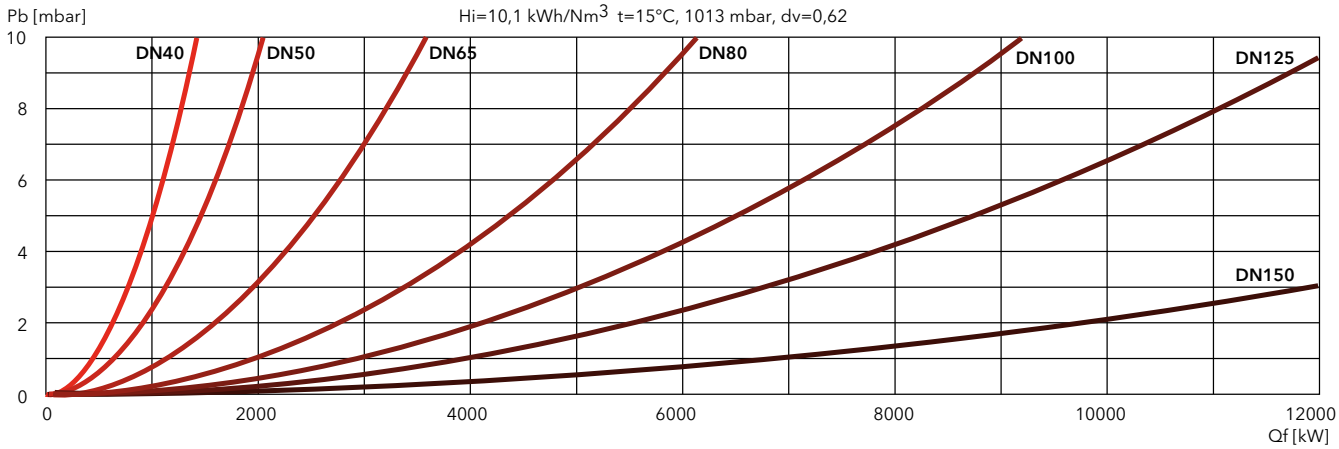
DUNGS



SIEMENS



FILTERS



NEXTRON

GAS / LIGHT OIL

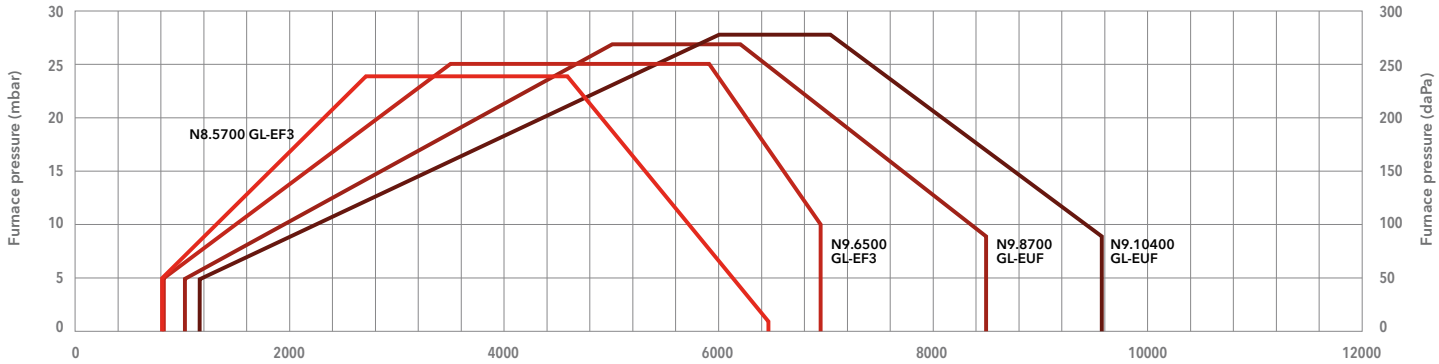
Low NOx Class 3

N8 GL-EF3 / N9 GL-EF3 / N9 GL-EUF

830 ... 9570 kW
Two stage progressive/modulating electronic in gas and in light oil

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676 in gas
  Low NOx class 3 (≤120 mg/kWh) according to EN267 in light oil
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 and EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

	N8.5700 GL-EF3	N9.6500 GL-EF3	N9.8700 GL-EUF	N9.10400 GL-EUF
Operating range gas	830 – 6450 kW	830 – 6950 kW	1040 – 8500 kW	1160 – 9570 kW
Operating range oil	1030 – 6450 kW	1030 – 6600 kW	1800 – 8500 kW	2550 – 9570 kW
Gas pressure	100 – 500 mbar (100 – 360 mbar for d457 gas train)		100 – 500 mbar (100 – 360 mbar for d457 gas train)	
Gas connection	DN100	DN100	DN100	DN100
Auxiliary voltage	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Control box / flame detector	BT300 / Satronic 1020	BT300 / Satronic 1020	BT300 / D-LX 100 EK-S	BT300 / D-LX 100 EK-S
Fan motor	50 Hz – 15 kW	50 Hz – 22 kW	50 Hz – 18,5 kW	50 Hz – 22 kW
Pump	SMG1630 – 1700 l/h	SMG1630 – 1700 l/h	SMG1630 – 1700 l/h	SMG1631 – 2200 l/h
Motor pump	50 Hz – 3 kW	50 Hz – 3 kW	50 Hz – 3 kW	50 Hz – 4 kW
Acoustic level	<80 dB(A)	<83 dB(A)	<81 dB(A)	<81,7 dB(A)
CE certificate	0085CL0215	0085CL0215	0085CL0215	0085CL0215
Complete burner codes	**on request**	**on request**	**on request**	**on request**

GAS TRAINS

DUNGS

Model	Code
GT-d457-2" (*)	3750515
GT-d458-65	3750516
GT-d459-80	3750517
GT-d460-100	3750518

*: integrated filter

SIEMENS

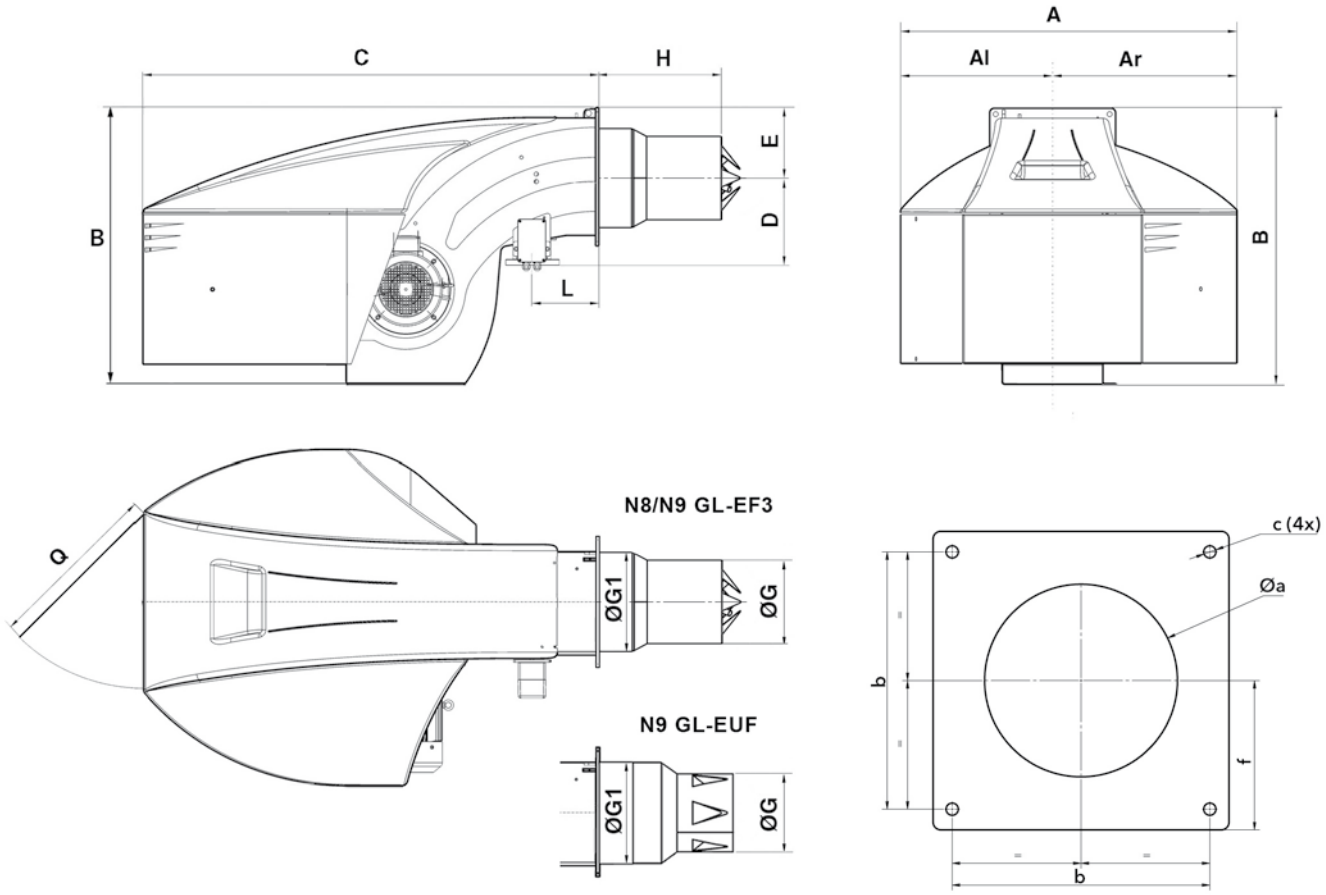
Model	Code
GT-s457-2"	3750537
GT-s458-65	3750538
GT-s459-80	3750539
GT-s460-100	3750540
GT-s461-125	3750541

FILTERS

Model	Code
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 247

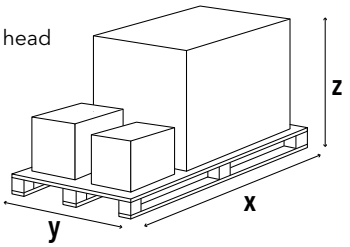
DIMENSIONS (mm)



Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Q	Øa	b	c	f
										KN	KM	KL						
N8.5700 GL-EF3	1414	669	745	1231	1930	391	293	369	376	528	668	808	230	800	380-410	505	M20	293
N9.6500 GL-EF3	1414	669	745	1291	1928	434	293	369	376	543	693	843	230	800	445-480	505	M20	293
N9.8700 GL-EUF	1414	669	745	1291	1928	434	293	325	439	575	725	875	230	800	445-480	505	M20	293
N9.10400 GL-EUF	1414	669	745	1291	1928	434	293	335	439	575	725	875	230	800	445-480	505	M20	293

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N8.5700 GL-EF3	2900	1600	1573	700
N9.6500 GL-EF3	2900	1600	1573	760
N9.8700 GL-EUF	2900	1600	1573	760
N9.10400 GL-EUF	2900	1600	1573	760

NEXTRON

GAS / LIGHT OIL

Low NOx Class 3

N8 GL-EF3 / N9 GL-EF3 / N9 GL-EUF

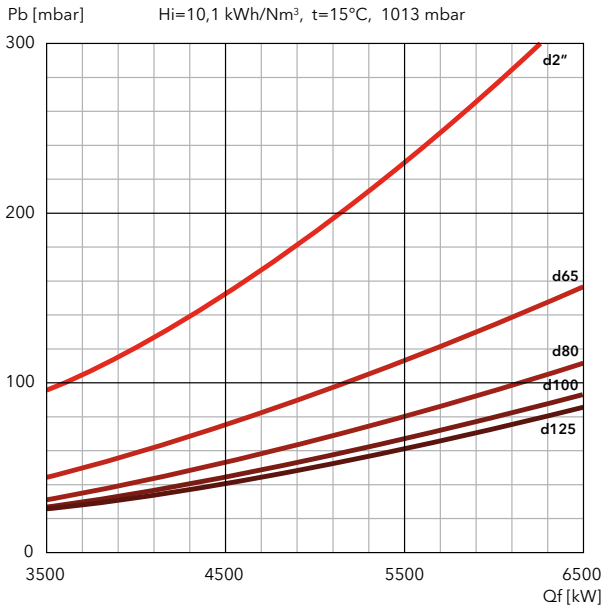
830 ... 9570 kW

Two stage progressive/modulating electronic in gas and in light oil

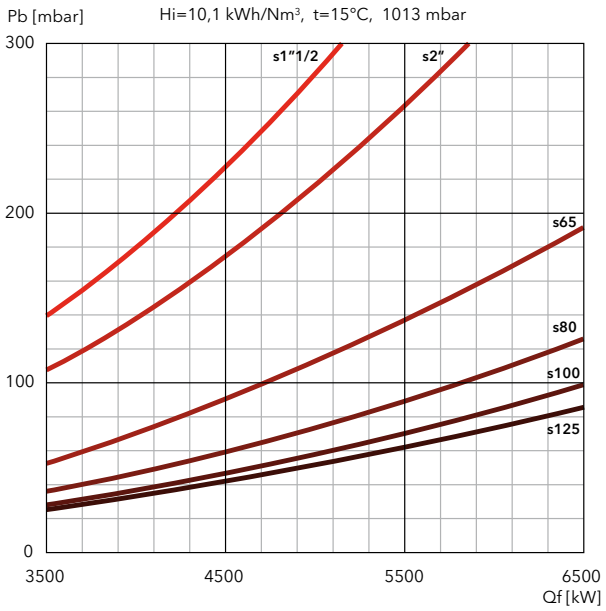
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N8.5700 GL-EF3

DUNGS

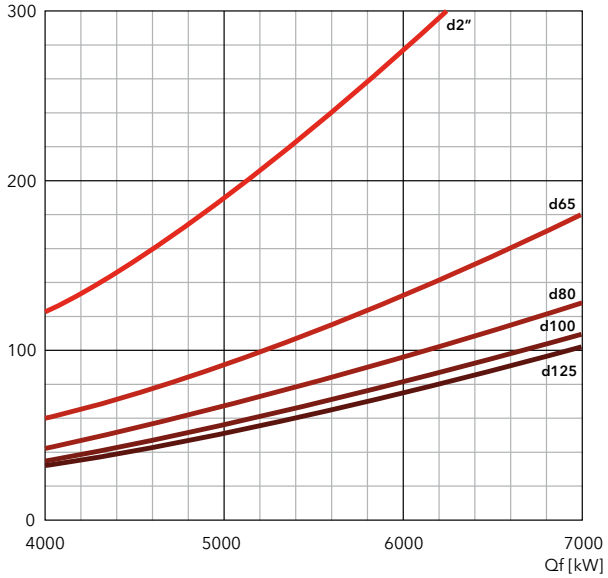


SIEMENS

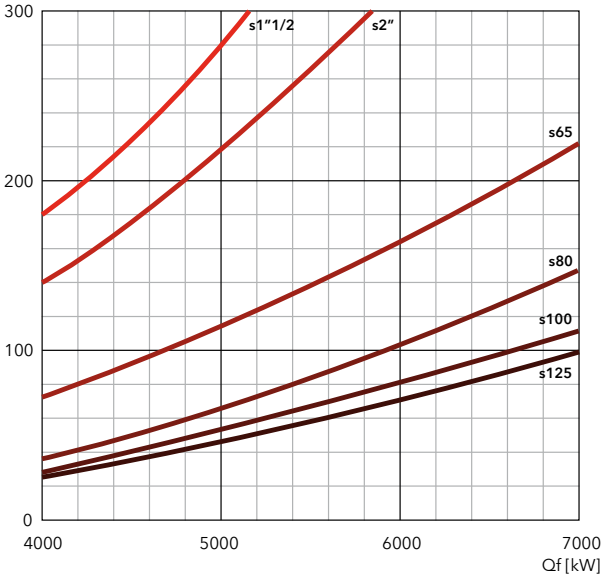


N9.6500 GL-EF3

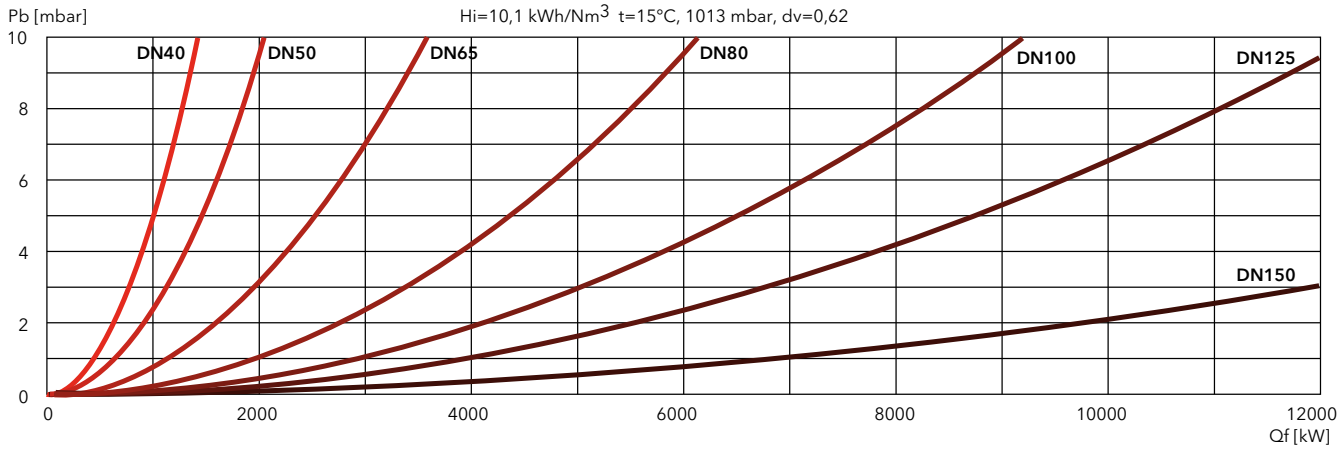
DUNGS



SIEMENS



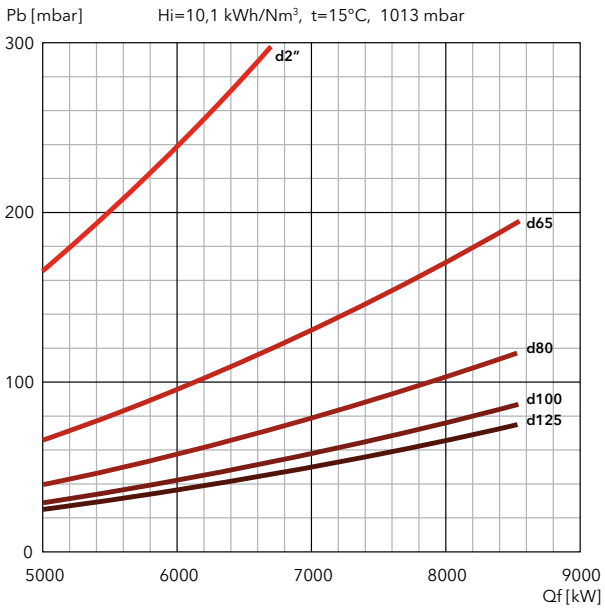
FILTERS



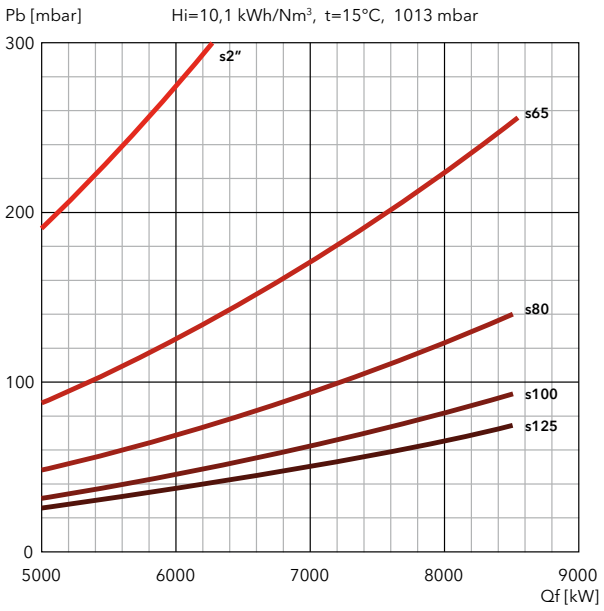
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N9.8700 GL-EUF

DUNGS

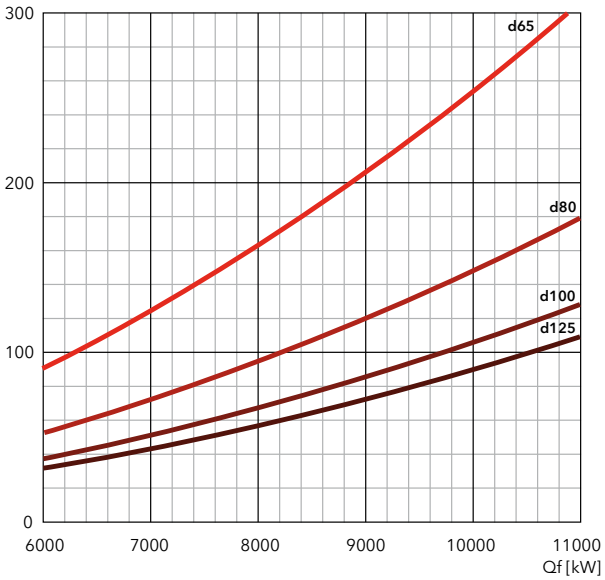


SIEMENS

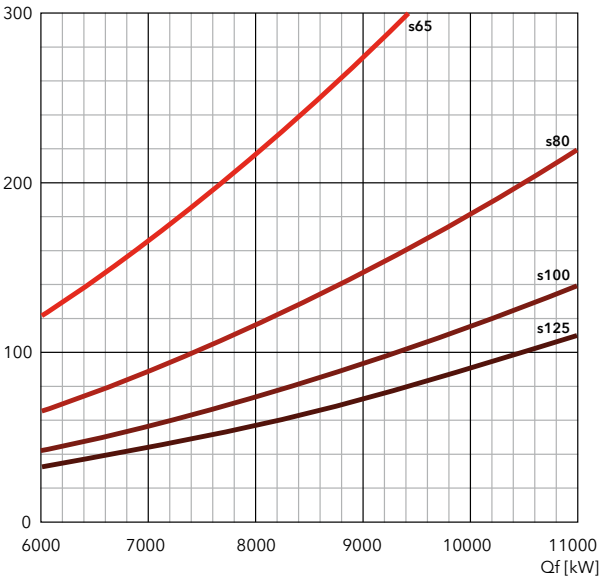


N9.10400 GL-EUF

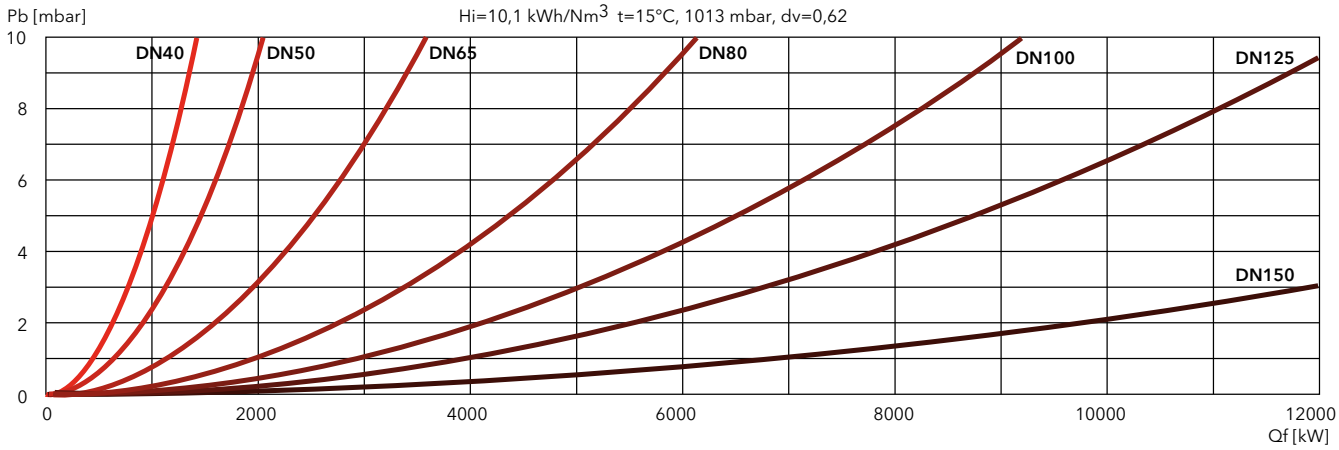
DUNGS



SIEMENS



FILTERS



NEXTRON

GAS / LIGHT OIL

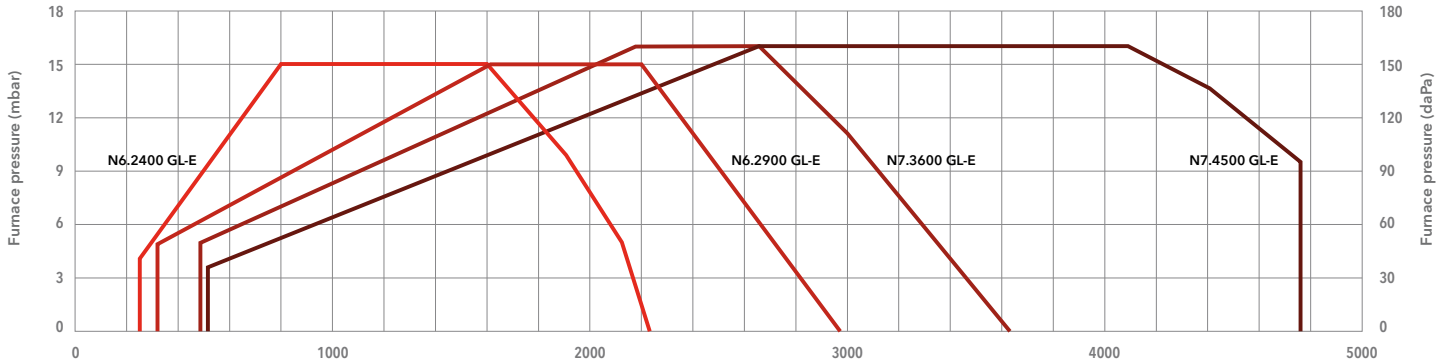
Low NOx Class 2

N6 GL-E / N7 GL-E

250 ... 4750 kW
Two stage progressive/modulating electronic in gas and in light oil

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas
  Low NOx class 2 (≤185 mg/kWh) according to EN267 in light oil
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 and EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

	N6.2400 GL-E	N6.2900 GL-E	N7.3600 GL-E	N7.4500 GL-E
Operating range gas	250 – 2230 kW	320 – 2970 kW	490 – 3650 kW	510 – 4750 kW
Operating range oil	510 – 2030 kW	650 – 2970 kW	900 – 3650 kW	1300 – 4750 kW
Gas pressure	50 – 500 mbar (50 – 360 mbar for d452 and d453 gas train)		50 – 500 mbar (50 – 360 mbar for d452 and d453 gas train)	
Gas connection	DN65	DN65	DN65	DN65
Auxiliary voltage	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Control box / flame detector	BT300 / QRA2	BT300 / QRA2	BT300 / QRA2	BT300 / QRA2
Fan motor	50 Hz – 3 kW	50 Hz – 4 kW	50 Hz – 5,5 kW	50 Hz – 7,5 kW
Pump	SUNTEC TA3	SUNTEC TA3	SUNTEC TA4	SUNTEC TA4
Motor pump	50 Hz – 0,74 kW	50 Hz – 0,74 kW	50 Hz – 1,1 kW	50 Hz – 1,5 kW
Acoustic level	<70 dB(A)	<71 dB(A)	<74 dB(A)	<74 dB(A)
CE certificate	0085CL0215	0085CL0215	0085CL0215	0085CL0215
Complete burner codes	**on request**	**on request**	**on request**	**on request**

GAS TRAINS

DUNGS

Model	Code
GT-d452-1"1/2 (*)	3750510
GT-d453-2" (*)	3750511
GT-d454-65	3750512
GT-d455-80	3750513
GT-d456-100	3750514

*: integrated filter

SIEMENS

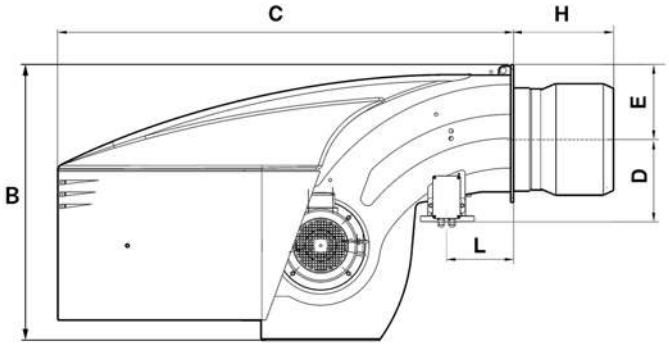
Model	Code
GT-s451-1"1/2	3750525
GT-s452-2"	3750526
GT-s453-65	3750527
GT-s454-80	3750528
GT-s455-100	3750529
GT-s456-125	3750530

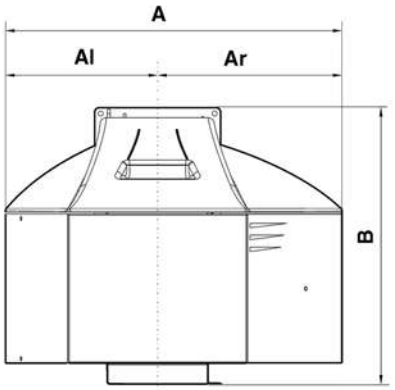
FILTERS

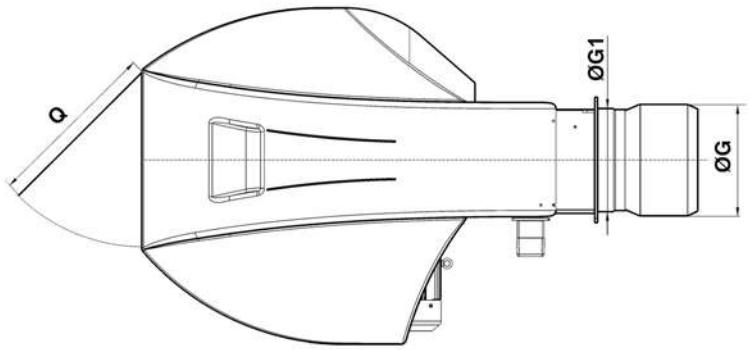
Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

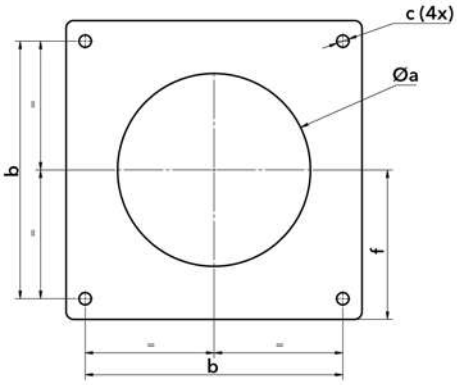
Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 246

DIMENSIONS (mm)







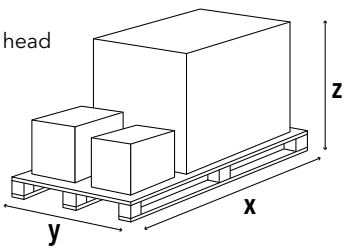


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Q
										KN	KM	KL		
N6.2400 GL-E	989	479	510	837	1369	245	225	290	270	322	442	562	223	600
N6.2900 GL-E	989	479	510	837	1369	245	225	310	270	322	442	562	223	600
N7.3600 GL-E	1128	510	618	961	1537	276	255	340	332	363	493	623	233	600
N7.4500 GL-E	1128	510	618	961	1537	276	255	370	332	363	493	623	233	600

Øa	b	c	f
300-340	340	M16	200
320-340	340	M16	200
350-400	400	M16	235
380-400	400	M16	235

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N6.2400 GL-E	2300	1500	1573	360
N6.2900 GL-E	2300	1500	1573	360
N7.3600 GL-E	2300	1500	1573	450
N7.4500 GL-E	2300	1500	1573	450

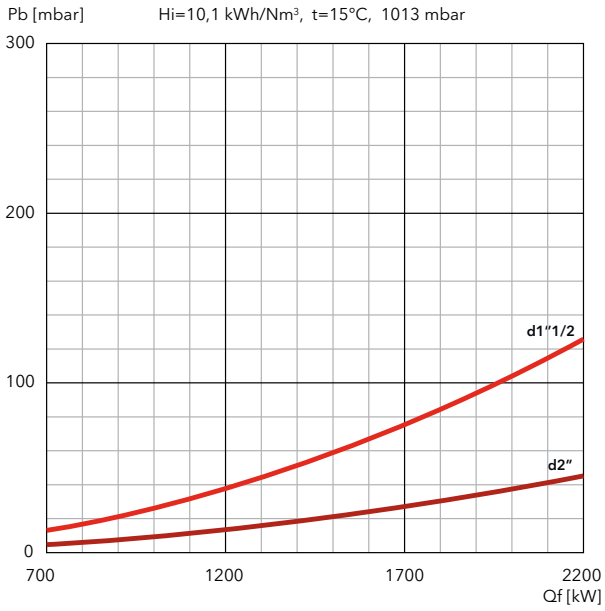
N6 GL-E / N7 GL-E

250 ... 4750 kW
Two stage progressive/modulating electronic in gas and in light oil

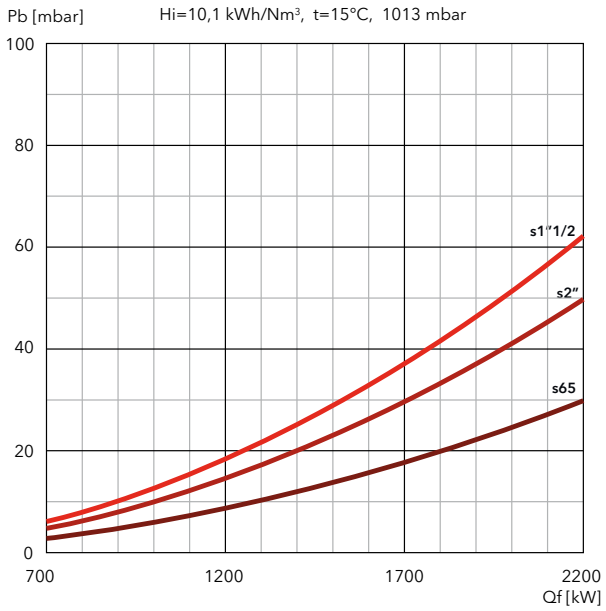
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N6.2400 GL-E

DUNGS

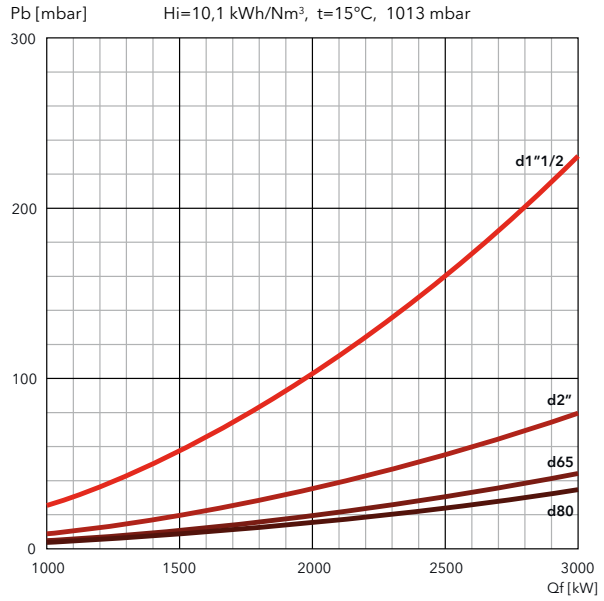


SIEMENS

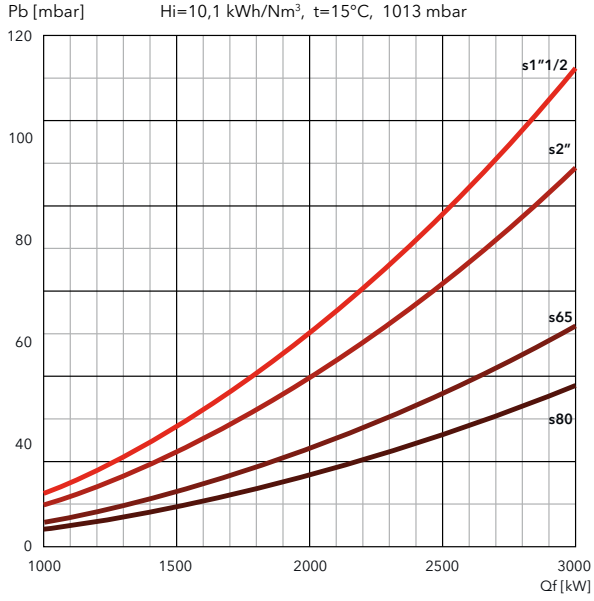


N6.2900 GL-E

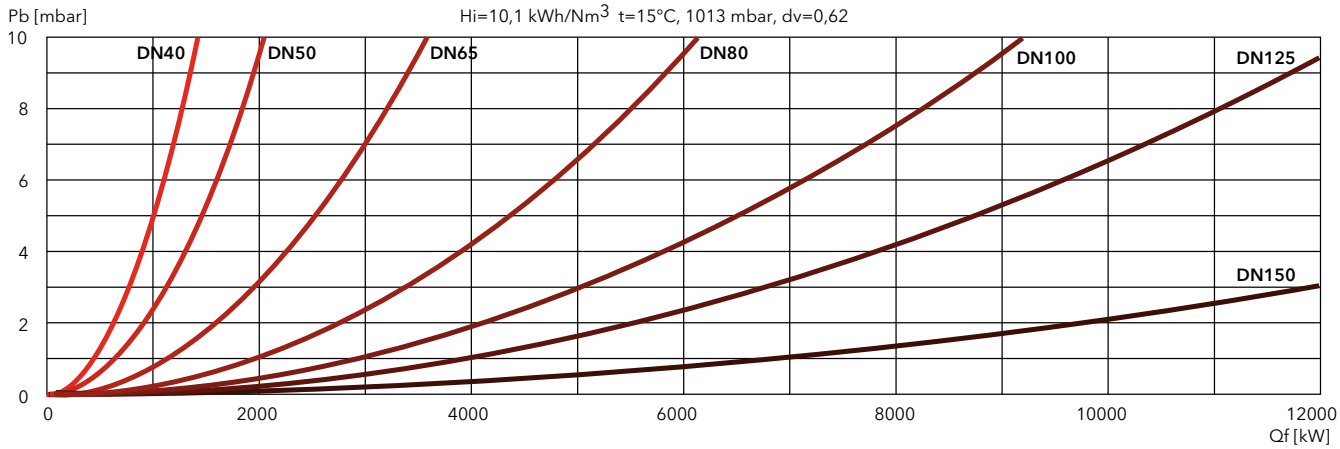
DUNGS



SIEMENS



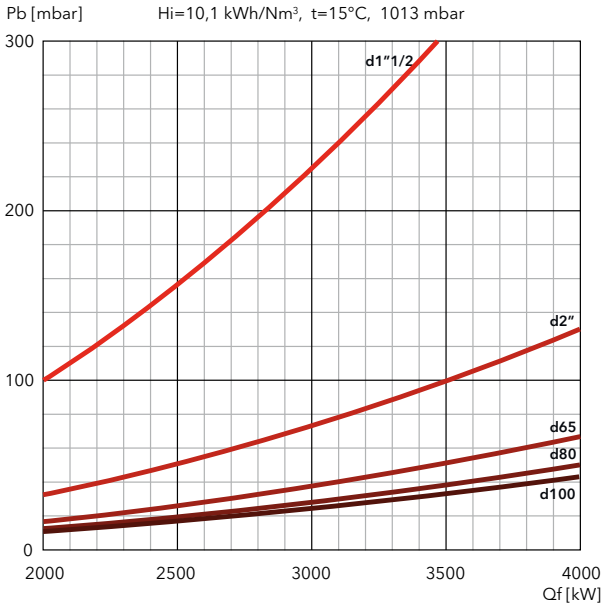
FILTERS



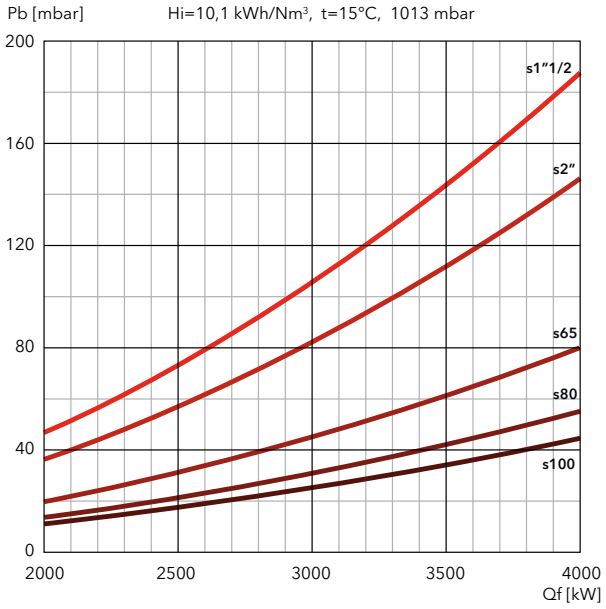
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N7.3600 GL-E

DUNGS

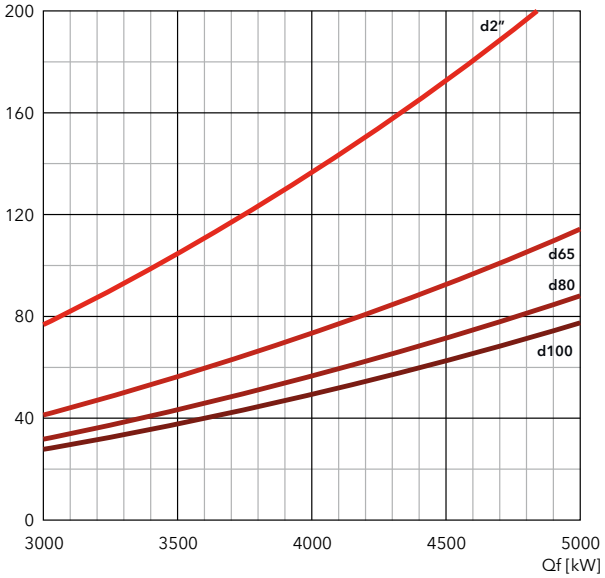


SIEMENS

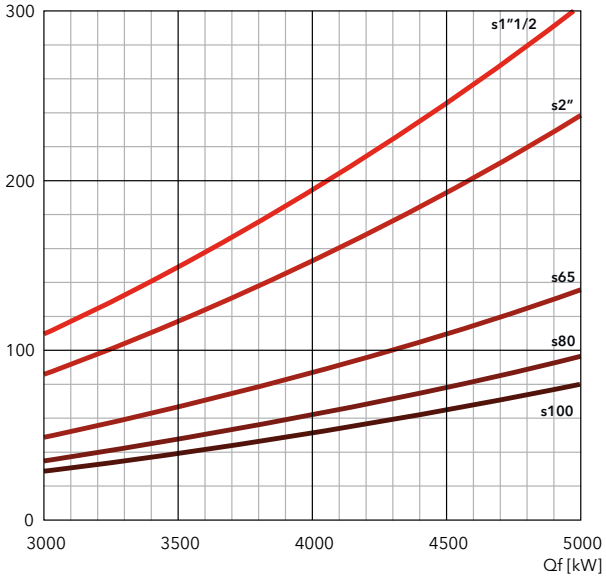


N7.4500 GL-E

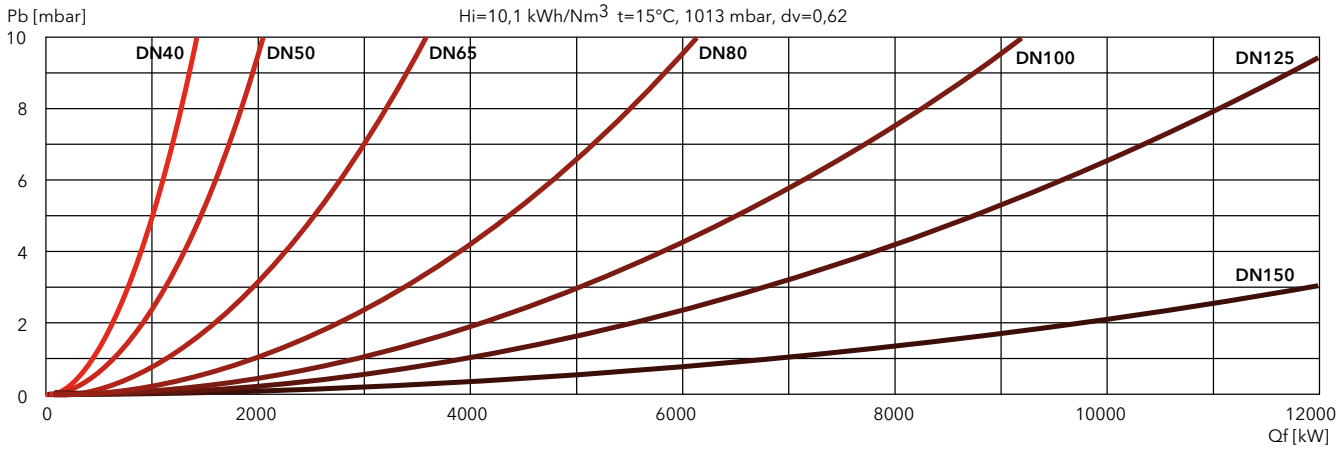
DUNGS



SIEMENS



FILTERS



NEXTRON

GAS / LIGHT OIL

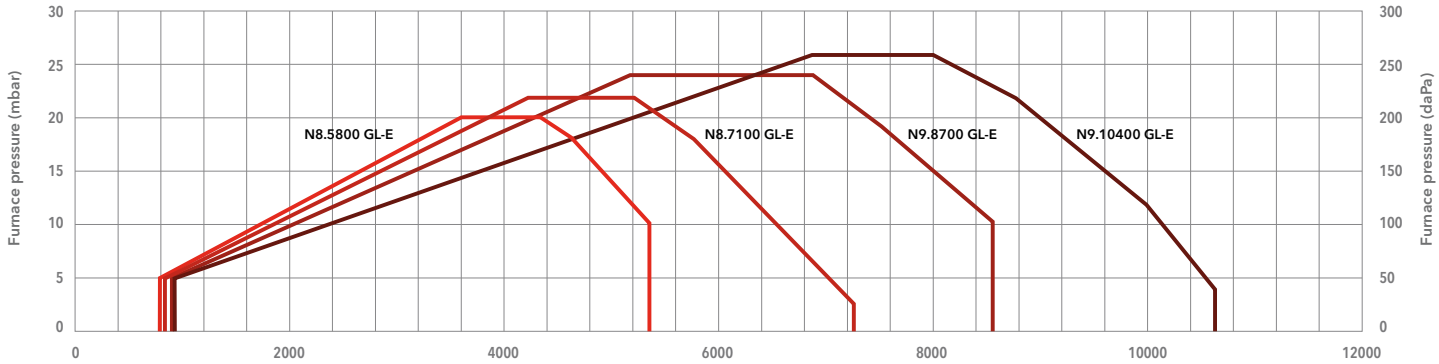
Low NOx Class 2

N8 GL-E / N9 GL-E

800 ... 10620 kW
Two stage progressive/modulating electronic in gas and in light oil

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas
  Low NOx class 2 (≤185 mg/kWh) according to EN267 in light oil
- **Protection level:** IP 41

TECHNICAL DATA



Test conditions conforming to EN676 and EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

	N8.5800 GL-E	N8.7100 GL-E	N9.8700 GL-E	N9.10400 GL-E
Operating range gas	800 – 5350 kW	820 – 7340 kW	880 – 8530 kW	910 – 10620 kW
Operating range oil	1210 – 5350 kW	1470 – 7340 kW	2400 – 8530 kW	2820 – 10620 kW
Gas pressure	100 – 500 mbar (100 – 360 mbar for d457 gas train)		100 – 500 mbar (100 – 360 mbar for d457 gas train)	
Gas connection	DN100	DN100	DN100	DN100
Auxiliary voltage	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Control box / flame detector	BT300 / QRA2	BT300 / QRA2	BT300 / QRA2	BT300 / QRA2
Fan motor	50 Hz – 11 kW	50 Hz – 15 kW	50 Hz – 18,5 kW	50 Hz – 22 kW
Pump	SMG1630 – 1700 l/h	SMG1630 – 1700 l/h	SMG1630 – 1700 l/h	SMG1631 – 2200 l/h
Motor pump	50 Hz – 3 kW	50 Hz – 3 kW	50 Hz – 3 kW	50 Hz – 4 kW
Acoustic level	<77,4 dB(A)	<79,5 dB(A)	<81 dB(A)	<81,7 dB(A)
CE certificate	0085CL0215	0085CL0215	0085CL0215	0085CL0215
Complete burner codes	**on request**	**on request**	**on request**	**on request**

GAS TRAINS

DUNGS

Model	Code
GT-d457-2" (*)	3750515
GT-d458-65	3750516
GT-d459-80	3750517
GT-d460-100	3750518
GT-d4...-125	on request

*: integrated filter

SIEMENS

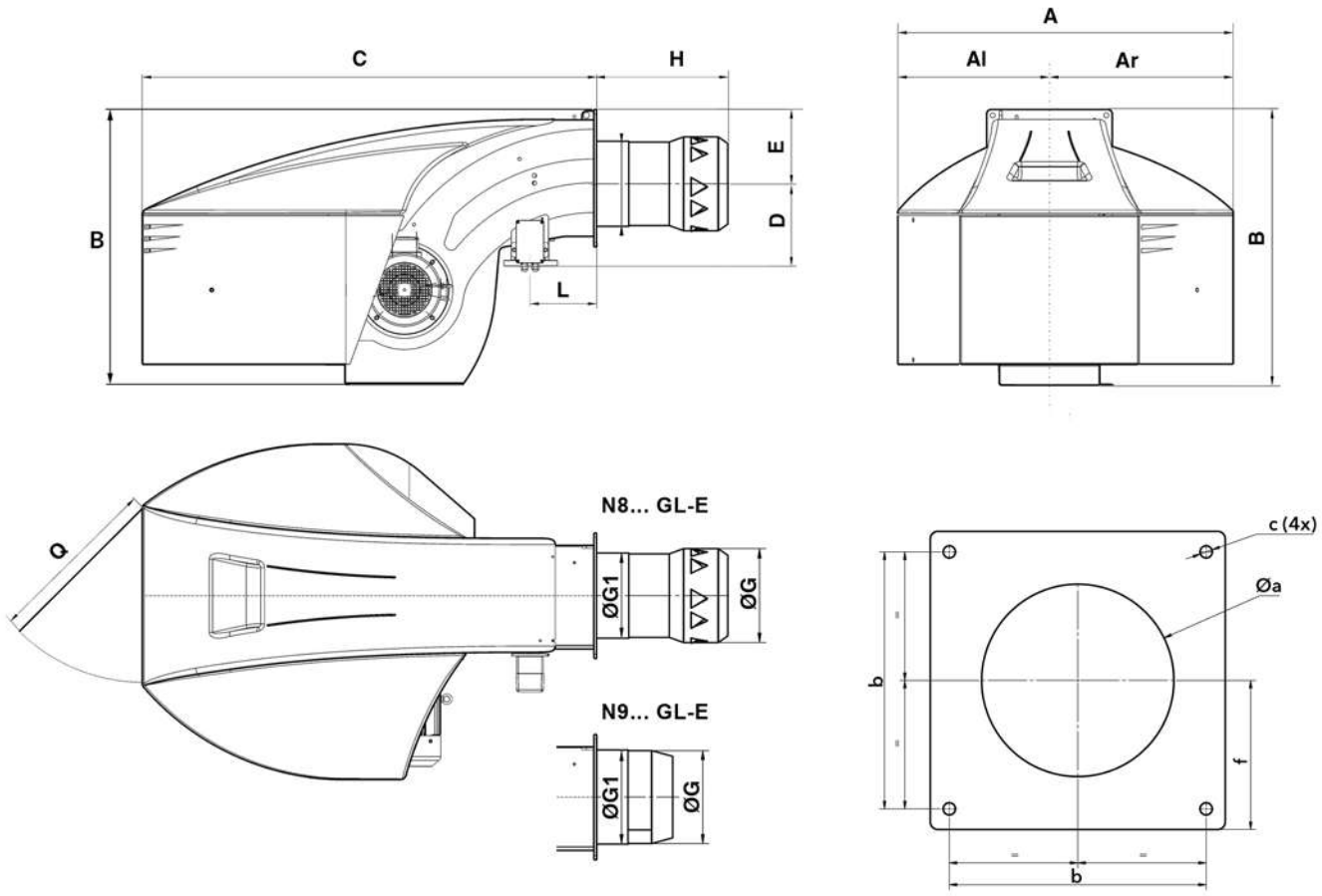
Model	Code
GT-s456-1"1/2	3750536
GT-s457-2"	3750537
GT-s458-65	3750538
GT-s459-80	3750539
GT-s460-100	3750540
GT-s461-125	3750541

FILTERS

Model	Code
FG-Rp1"1/2	3757199
FG-Rp2"	3757200
FG-DN65	3757198
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 247

DIMENSIONS (mm)

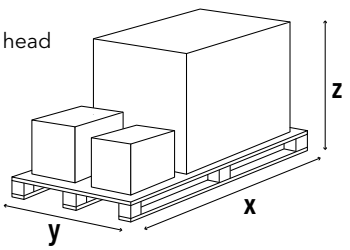


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Q
										KN	KM	KL		
N8.5800 GL-E	1325	670	655	1231	1355	307	293	400	376	558	698	838	233	800
N8.7100 GL-E	1325	670	655	1231	1355	307	293	415	376	579	719	859	233	800
N9.8700 GL-E	1336	670	666	1291	1354	332	293	432	439	349	499	649	233	800
N9.10400 GL-E	1400	670	730	1291	1354	332	293	432	439	349	499	649	233	800

Øa	b	c	f
415-480	505	M20	293
430-480	505	M20	293
450-480	505	M20	293
450-480	505	M20	293

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N8.5800 GL-E	2900	1600	1573	700
N8.7100 GL-E	2900	1600	1573	700
N9.8700 GL-E	2900	1600	1573	760
N9.10400 GL-E	2900	1600	1573	760

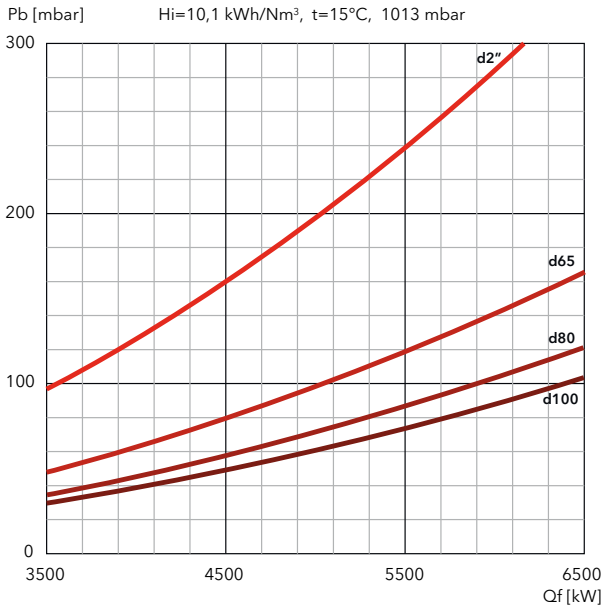
N8 GL-E / N9 GL-E

800 ... 10620 kW
Two stage progressive/modulating electronic in gas and in light oil

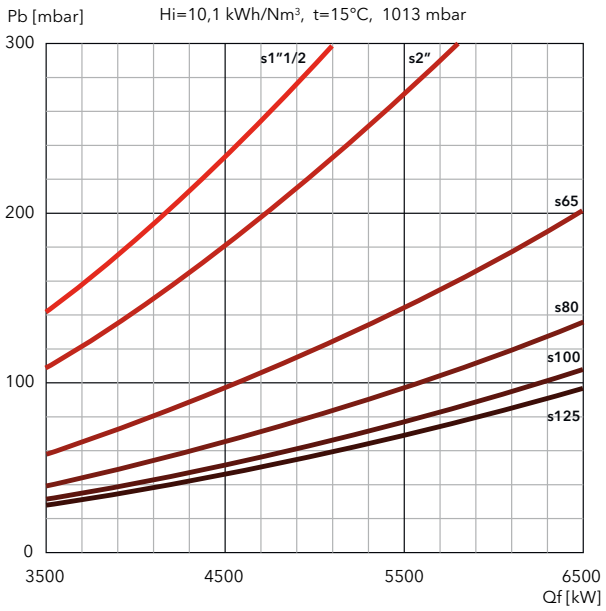
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N8.5800 GL-E

DUNGS

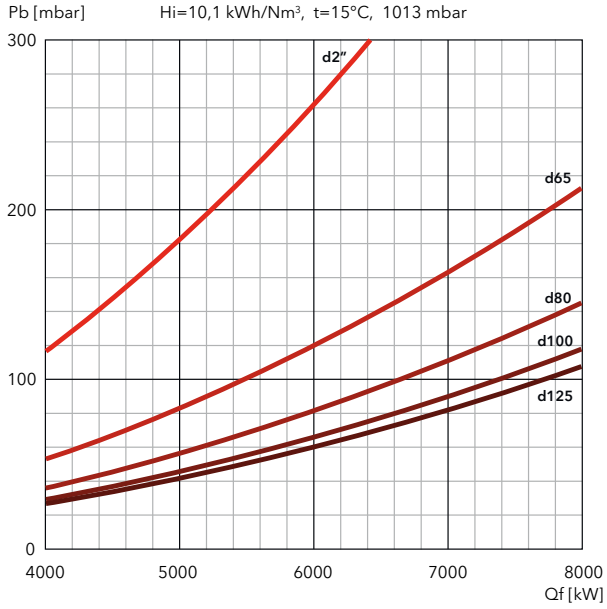


SIEMENS

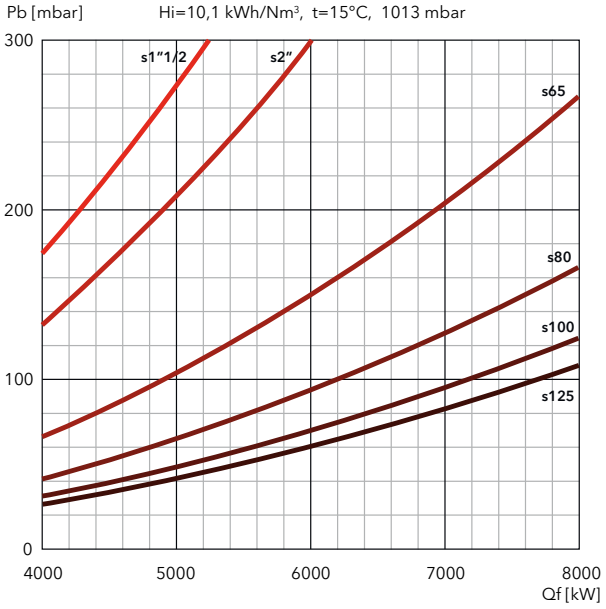


N8.7100 GL-E

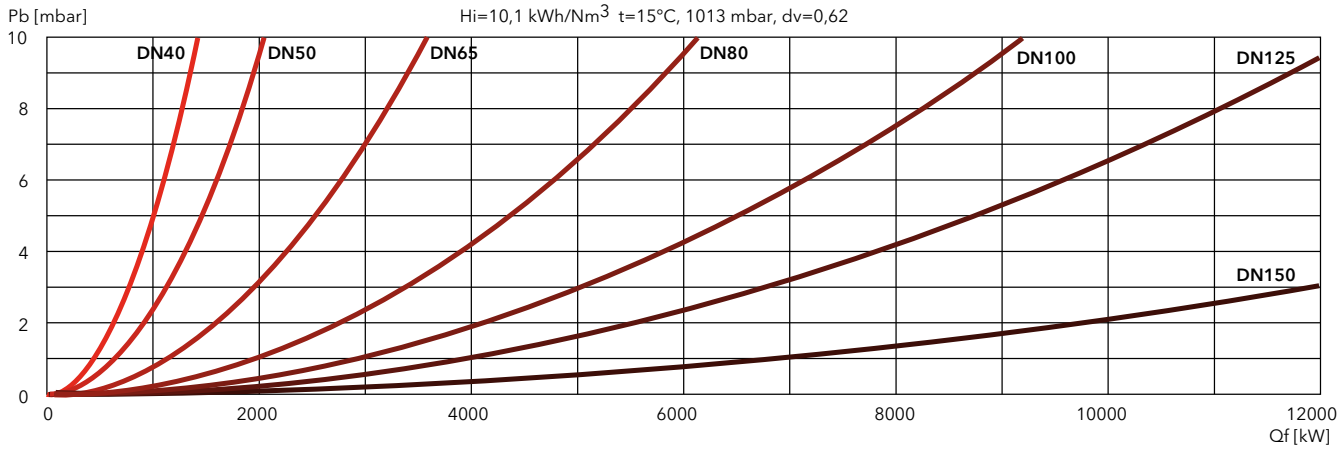
DUNGS



SIEMENS



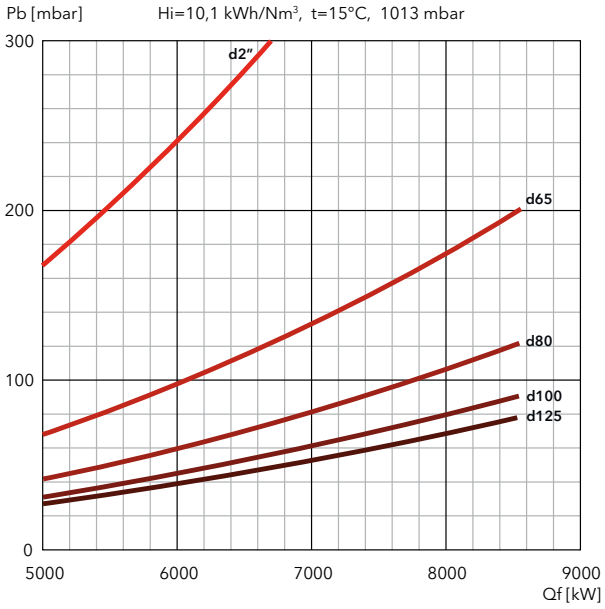
FILTERS



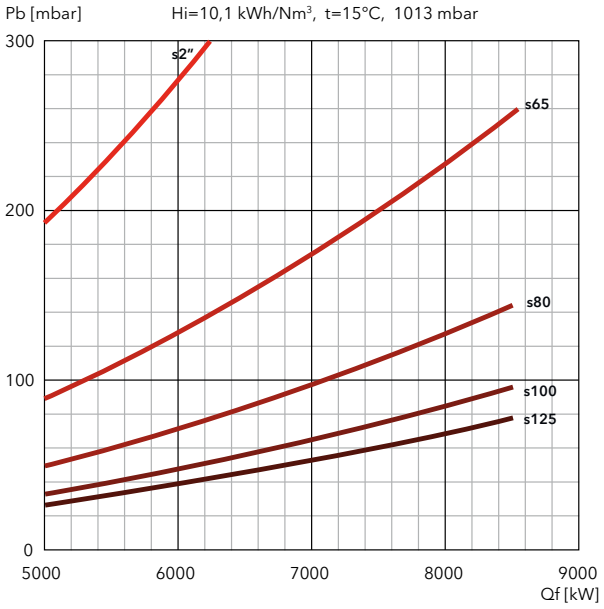
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N9.8700 GL-E

DUNGS

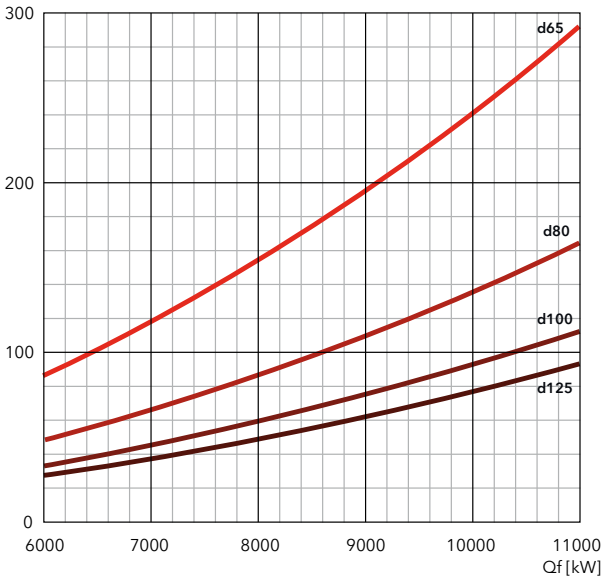


SIEMENS

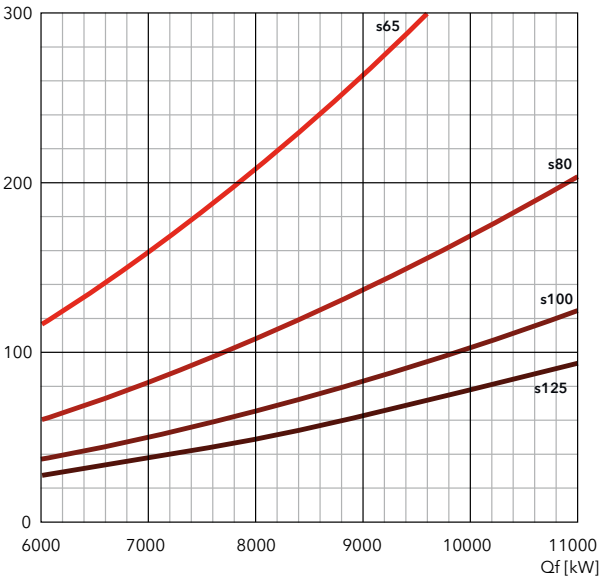


N9.10400 GL-E

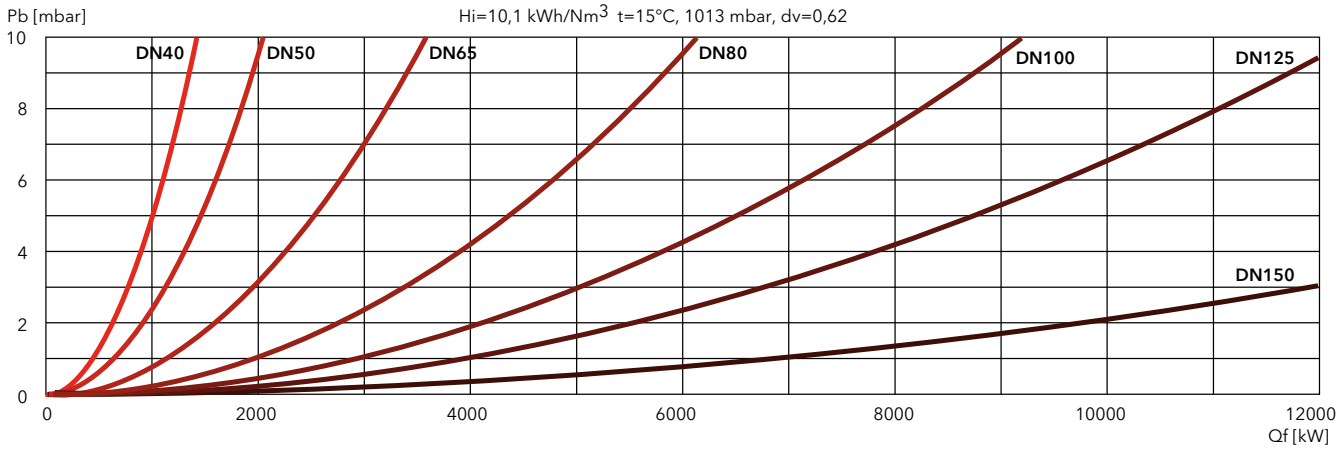
DUNGS



SIEMENS



FILTERS



NEXTRON

LIGHT OIL

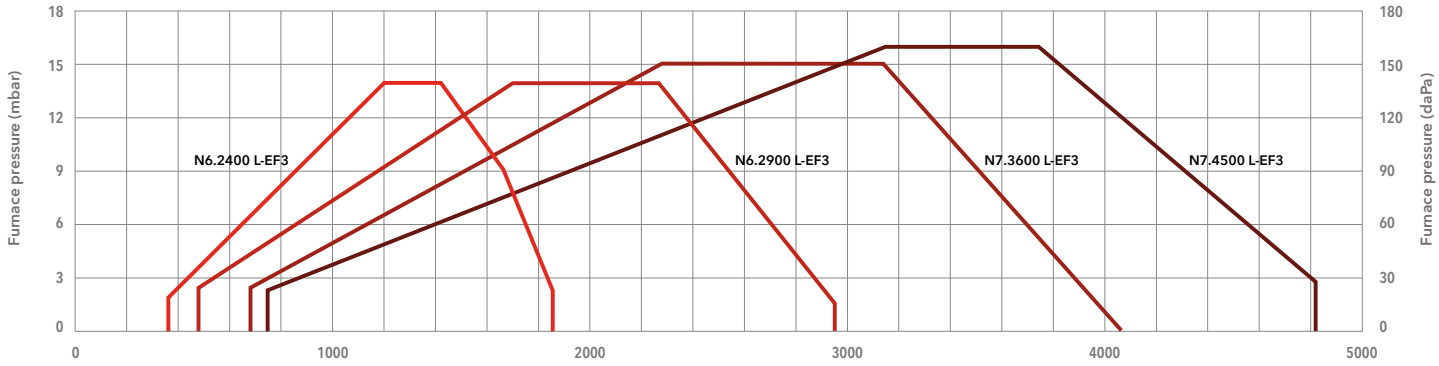
Low NOx Class 3

N6 L-EF3 / N7 L-EF3

360 ... 4820 kW
Two stage progressive/modulating electronic

- **Fuels:** light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 3 (≤120 mg/kWh) according to EN267
- **Protection level:** IP 41

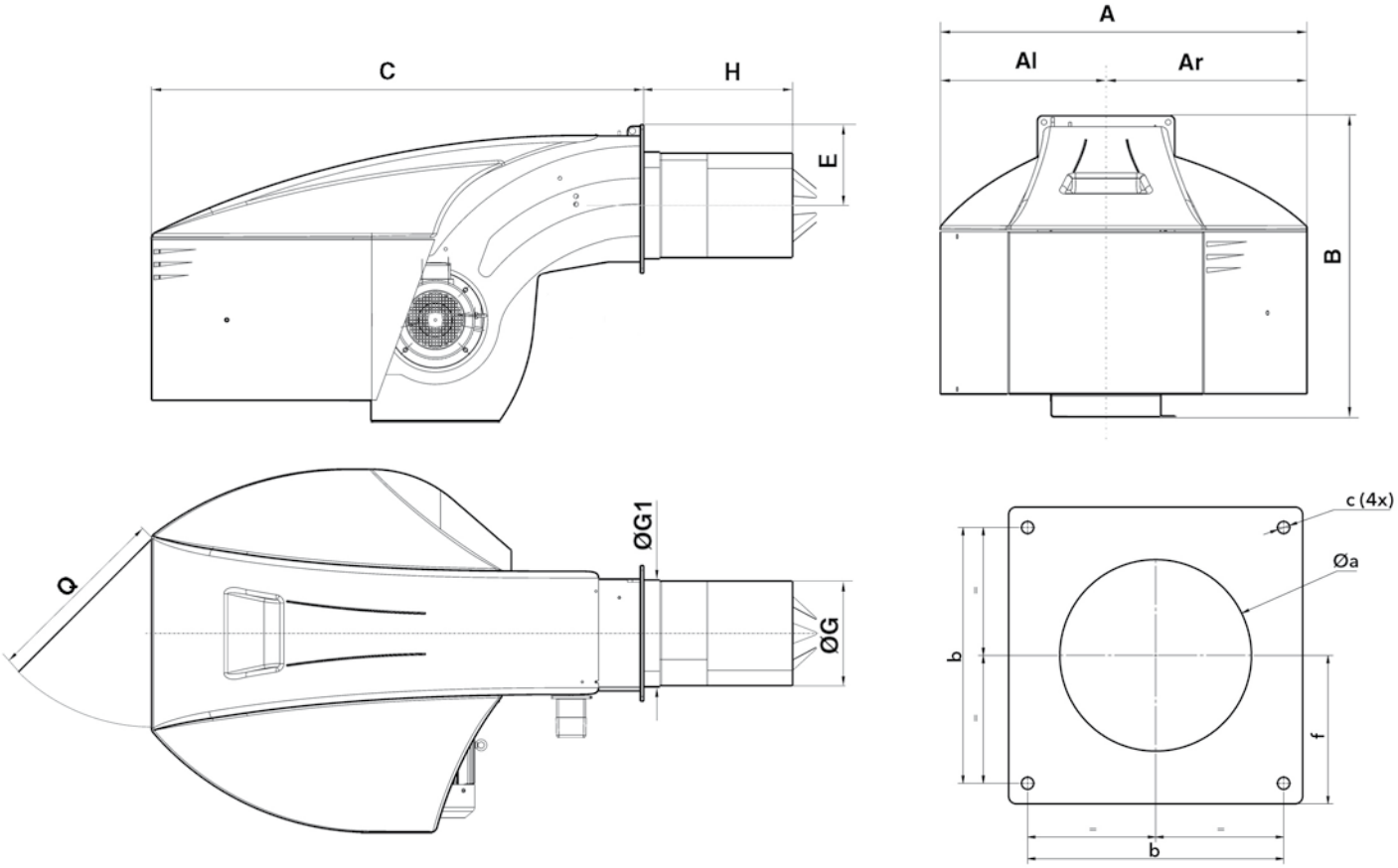
TECHNICAL DATA



Test conditions conforming to EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

	N6.2400 L-EF3	N6.2900 L-EF3	N7.3600 L-EF3	N7.4500 L-EF3
Operating range	360 – 1850 kW	480 – 2950 kW	680 – 4070 kW	740 – 4820 kW
Fuel connection	DN20 x 1500 mm / R 1/2"	DN20 x 1500 mm / R 1/2"	DN20 x 1500 mm / R 3/4"	DN20 x 1500 mm / R 3/4"
Auxiliary voltage	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Control box / flame detector	BT300 / D-LX 100 EK-S	BT300 / D-LX 100 EK-S	BT300 / D-LX 100 EK-S	BT300 / D-LX 100 EK-S
Fan motor	50 Hz – 3 kW	50 Hz – 4 kW	50 Hz – 7,5 kW	50 Hz – 7,5 kW
Pump	SUNTEC TA3	SUNTEC TA3	SUNTEC TA4	SUNTEC TA5
Motor pump	50 Hz – 0,74 kW	50 Hz – 0,74 kW	50 Hz – 1,1 kW	50 Hz – 1,5 kW
Acoustic level	<71 dB(A)	<71 dB(A)	<76 dB(A)	<74 dB(A)
CE certificate	0085CL0215	0085CL0215	0085CL0215	0085CL0215
Complete burner codes	**on request**	**on request**	**on request**	**on request**

DIMENSIONS (mm)

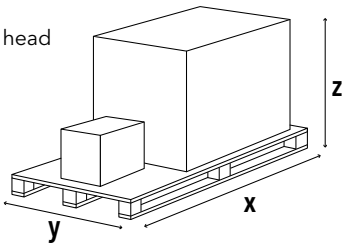


Model	A	Al	Ar	B	C	E	ØG	ØG1	H			Q
									KN	KM	KL	
N6... L-EF3	990	479	510	837	1361	225	263,5	270	330	450	570	600
N7... L-EF3	1128	511	618	961	1529	255	325	332	375	505	635	600

Øa	b	c	f
300-340	340	M16	200
360-400	400	M16	235

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N6.2400 L-EF3	2300	1500	1573	360
N6.2900 L-EF3	2300	1500	1573	360
N7.3600 L-EF3	2300	1500	1573	450
N7.4500 L-EF3	2300	1500	1573	450

NEXTRON

LIGHT OIL

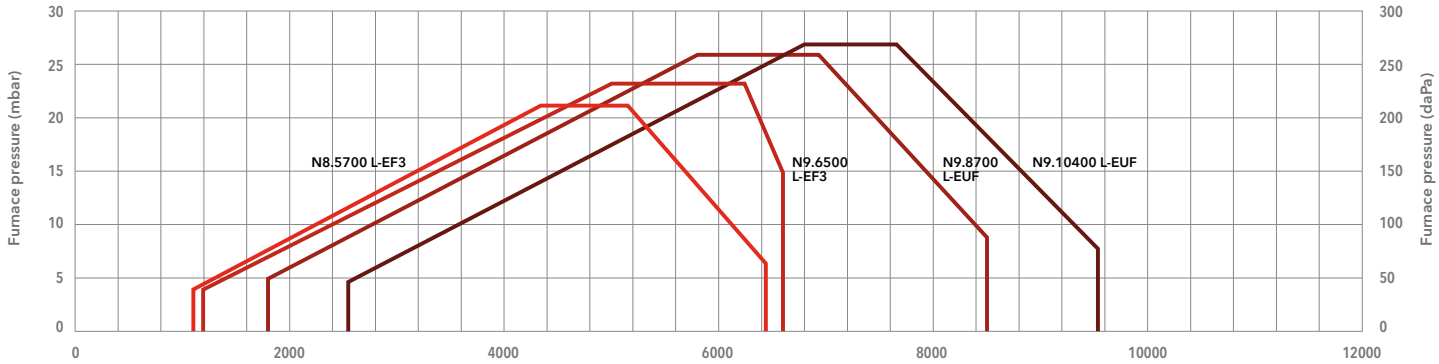
Low NOx Class 3

N8 L-EF3 / N9 L-EF3 / N9 L-EUF

1100 ... 9570 kW
Two stage progressive/modulating electronic

- **Fuels:** light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 3 (≤120 mg/kWh) according to EN267
- **Protection level:** IP 41

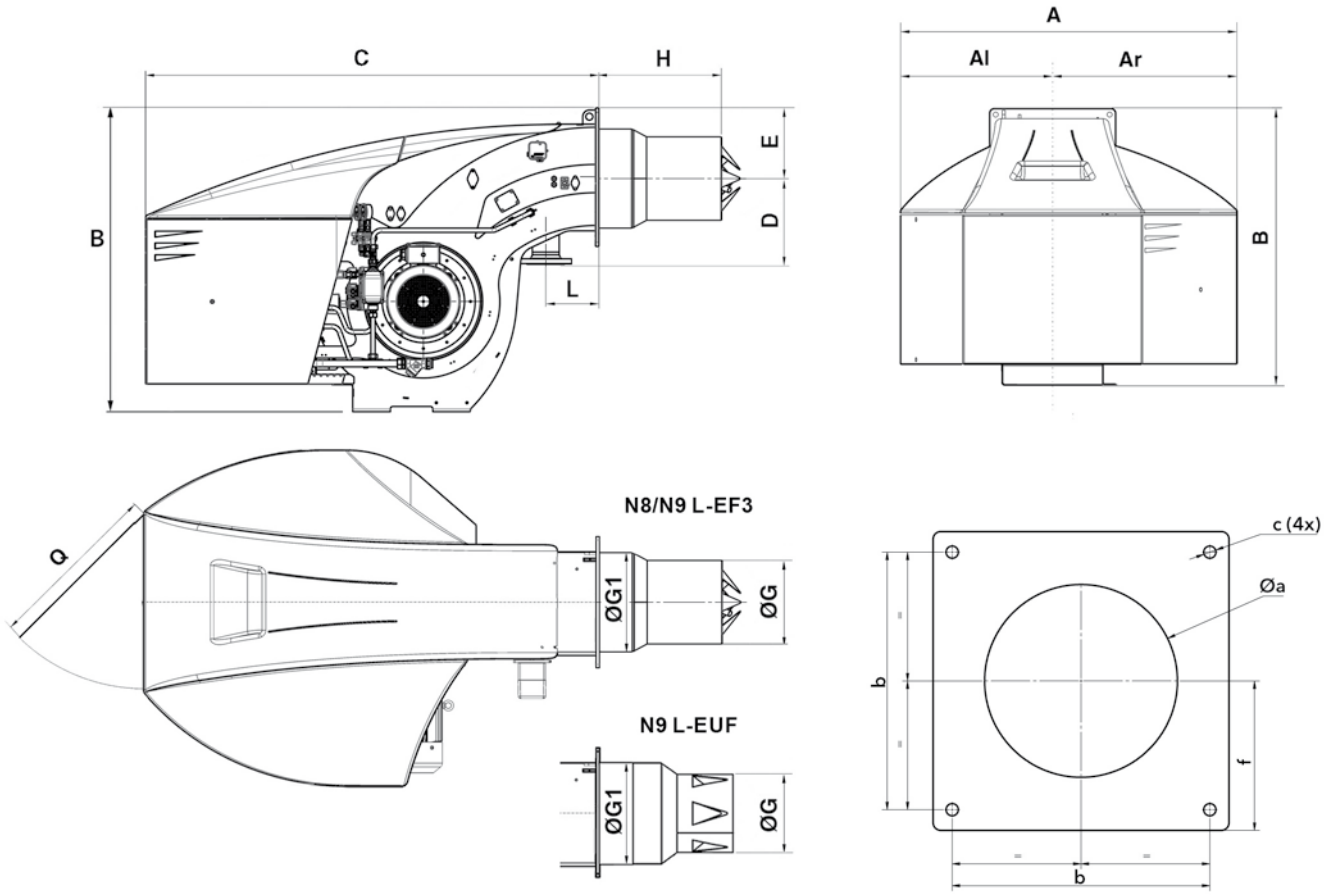
TECHNICAL DATA



Test conditions conforming to EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

	N8.5700 L-EF3	N9.6500 L-EF3	N9.8700 L-EUF	N9.10400 L-EUF
Operating range	1100 – 6450 kW	1200 – 6600 kW	1800 – 8500 kW	2550 – 9570 kW
Fuel connection	DN20 x 1500 mm / R 3/4"	DN20 x 1500 mm / R 3/4"	DN20 x 1500 mm / R 3/4"	DN25 x 1500 mm / R 1"
Auxiliary voltage	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Control box / flame detector	BT300 / D-LX 100 EK-S	BT300 / D-LX 100 EK-S	BT300 / D-LX 100 EK-S	BT300 / D-LX 100 EK-S
Fan motor	50 Hz – 15 kW	50 Hz – 22 kW	50 Hz – 18,5 kW	50 Hz – 22 kW
Pump	SMG1630 – 1700 l/h	SMG1630 – 1700 l/h	SMG1630 – 1700 l/h	SMG1631 – 2200 l/h
Motor pump	50 Hz – 3 kW	50 Hz – 3 kW	50 Hz – 3 kW	50 Hz – 4 kW
Acoustic level	<80,2 dB(A)	<82,9 dB(A)	<81 dB(A)	<81,7 dB(A)
CE certificate	0085CL0215	0085CL0215	0085CL0215	0085CL0215
Complete burner codes	**on request**	**on request**	**on request**	**on request**

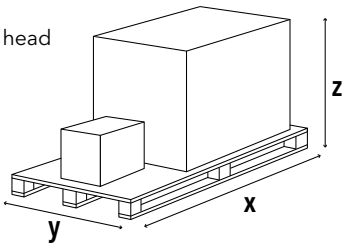
DIMENSIONS (mm)



Model	A	Al	Ar	B	C	E	ØG	ØG1	H			Q	Øa	b	c	f
									KN	KM	KL					
N8.5700 L-EF3	1414	669	745	1291	1928	293	369	376	528	668	808	800	380-410	505	M20	293
N9.6500 L-EF3	1414	669	745	1291	1928	293	369	438,5	543	693	843	800	445-480	505	M20	293
N9.8700 L-EUF	1414	669	745	1291	1928	293	325	438,5	575	725	875	800	445-480	505	M20	293
N9.10400 L-EUF	1414	669	745	1291	1928	293	335	438,5	575	725	875	800	445-480	505	M20	293

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N8.5700 L-EF3	2900	1600	1573	700
N9.6500 L-EF3	2900	1600	1573	760
N9.8700 L-EUF	2900	1600	1573	760
N9.10400 L-EUF	2900	1600	1573	760

NEXTRON

LIGHT OIL

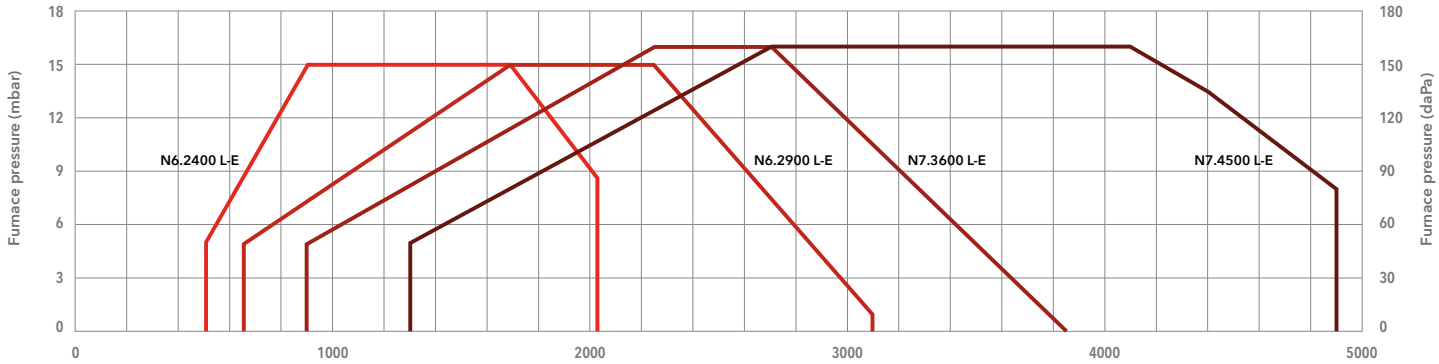
Low NOx Class 2

N6 L-E / N7 L-E

510 ... 4900 kW
Two stage progressive/modulating electronic

- **Fuels:** light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 2 (≤185 mg/kWh) according to EN267
- **Protection level:** IP 41

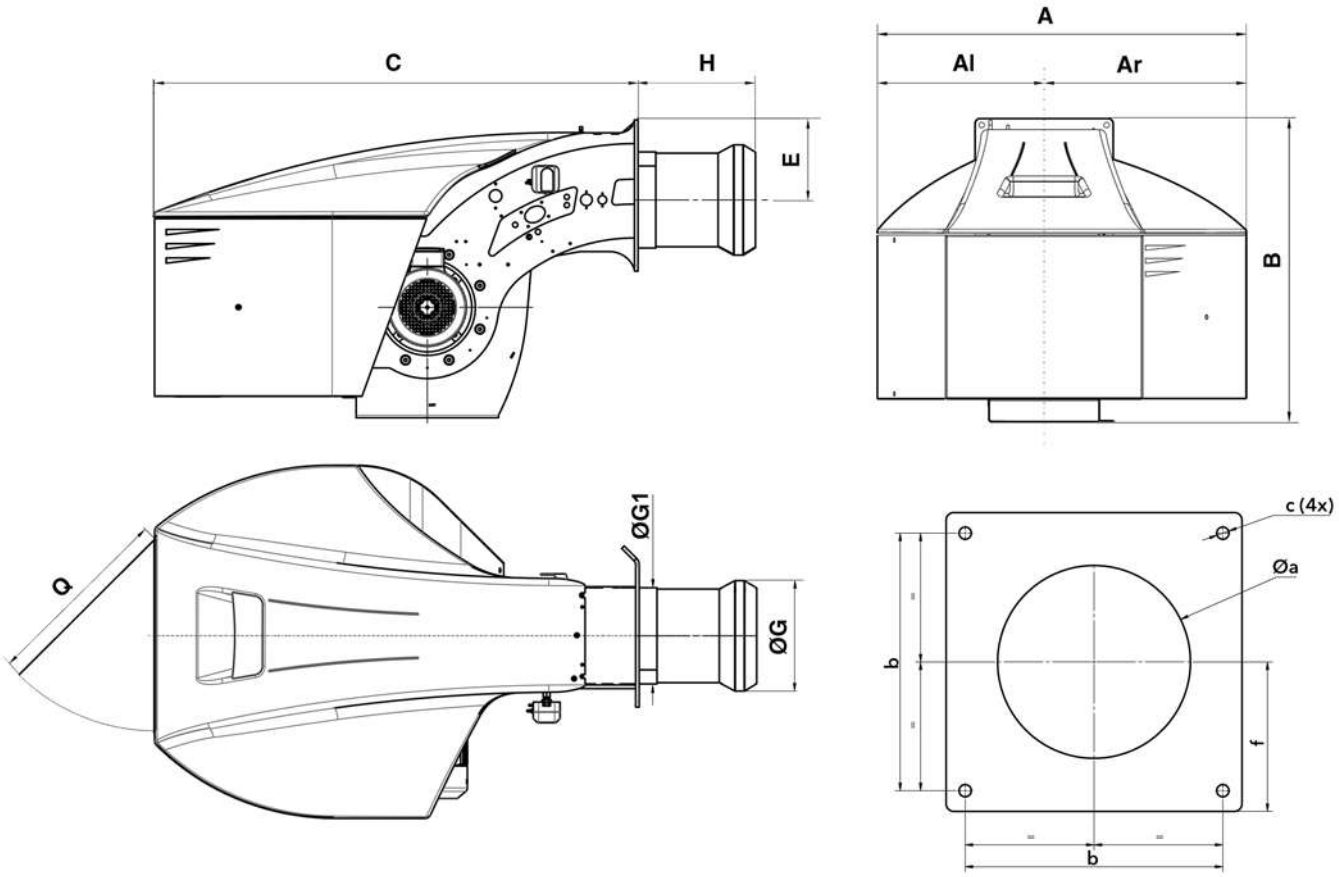
TECHNICAL DATA



Test conditions conforming to EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

	N6.2400 L-E	N6.2900 L-E	N7.3600 L-E	N7.4500 L-E
Operating range	510 – 2030 kW	650 – 3100 kW	900 – 3850 kW	1300 – 4900 kW
Fuel connection	DN20 x 1500 mm / R 1/2"	DN20 x 1500 mm / R 1/2"	DN20 x 1500 mm / R 3/4"	DN20 x 1500 mm / R 3/4"
Auxiliary voltage	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Control box / flame detector	BT300 / QRA2	BT300 / QRA2	BT300 / QRA2	BT300 / QRA2
Fan motor	50 Hz – 3 kW	50 Hz – 4 kW	50 Hz – 5,5 kW	50 Hz – 7,5 kW
Pump	SUNTEC TA3	SUNTEC TA3	SUNTEC TA4	SUNTEC TA5
Motor pump	50 Hz – 0,74 kW	50 Hz – 0,74 kW	50 Hz – 1,1 kW	50 Hz – 1,5 kW
Acoustic level	<70 dB(A)	<71 dB(A)	<74 dB(A)	<75 dB(A)
CE certificate	0085CL0215	0085CL0215	0085CL0215	0085CL0215
Complete burner codes	**on request**	**on request**	**on request**	**on request**

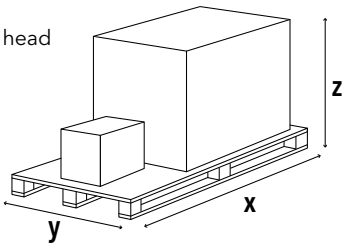
DIMENSIONS (mm)



Model	A	Al	Ar	B	C	E	ØG	ØG1	H			Q	Øa	b	c	f
									KN	KM	KL					
N6.2400 L-E	990	479	510	837	1361	225	290	270	330	450	570	600	300-340	340	M16	200
N6.2900 L-E	990	479	510	837	1361	225	310	270	330	450	570	600	320-340	340	M16	200
N7.3600 L-E	1128	511	618	961	1529	255	330	332	375	505	635	600	340-400	400	M16	235
N7.4500 L-E	1128	511	618	961	1529	255	370	332	375	505	635	600	380-400	400	M16	235

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N6.2400 L-E	2300	1500	1573	360
N6.2900 L-E	2300	1500	1573	360
N7.3600 L-E	2300	1500	1573	450
N7.4500 L-E	2300	1500	1573	450

NEXTRON

LIGHT OIL

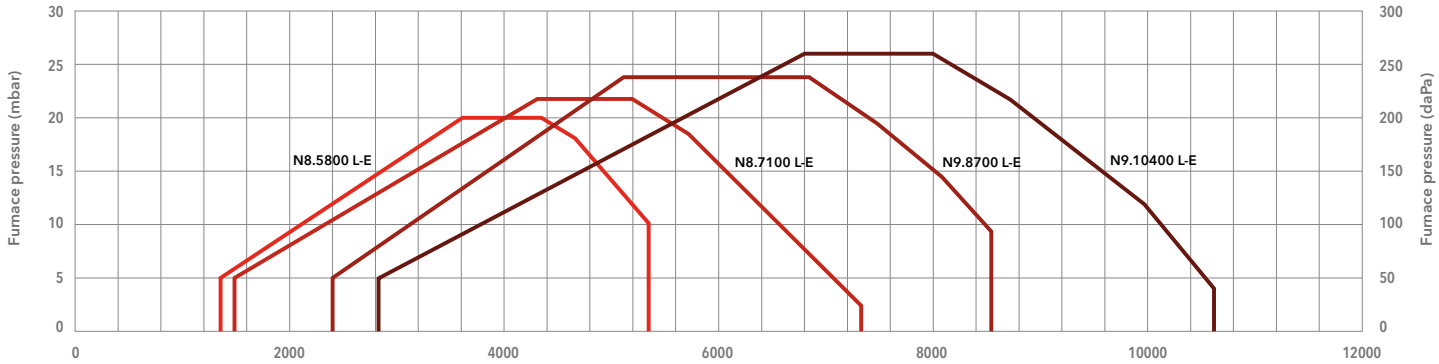
Low NOx Class 2

N8 L-E / N9 L-E

1350 ... 10620 kW
Two stage progressive/modulating electronic

- **Fuels:** light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 2 (≤185 mg/kWh) according to EN267
- **Protection level:** IP 41

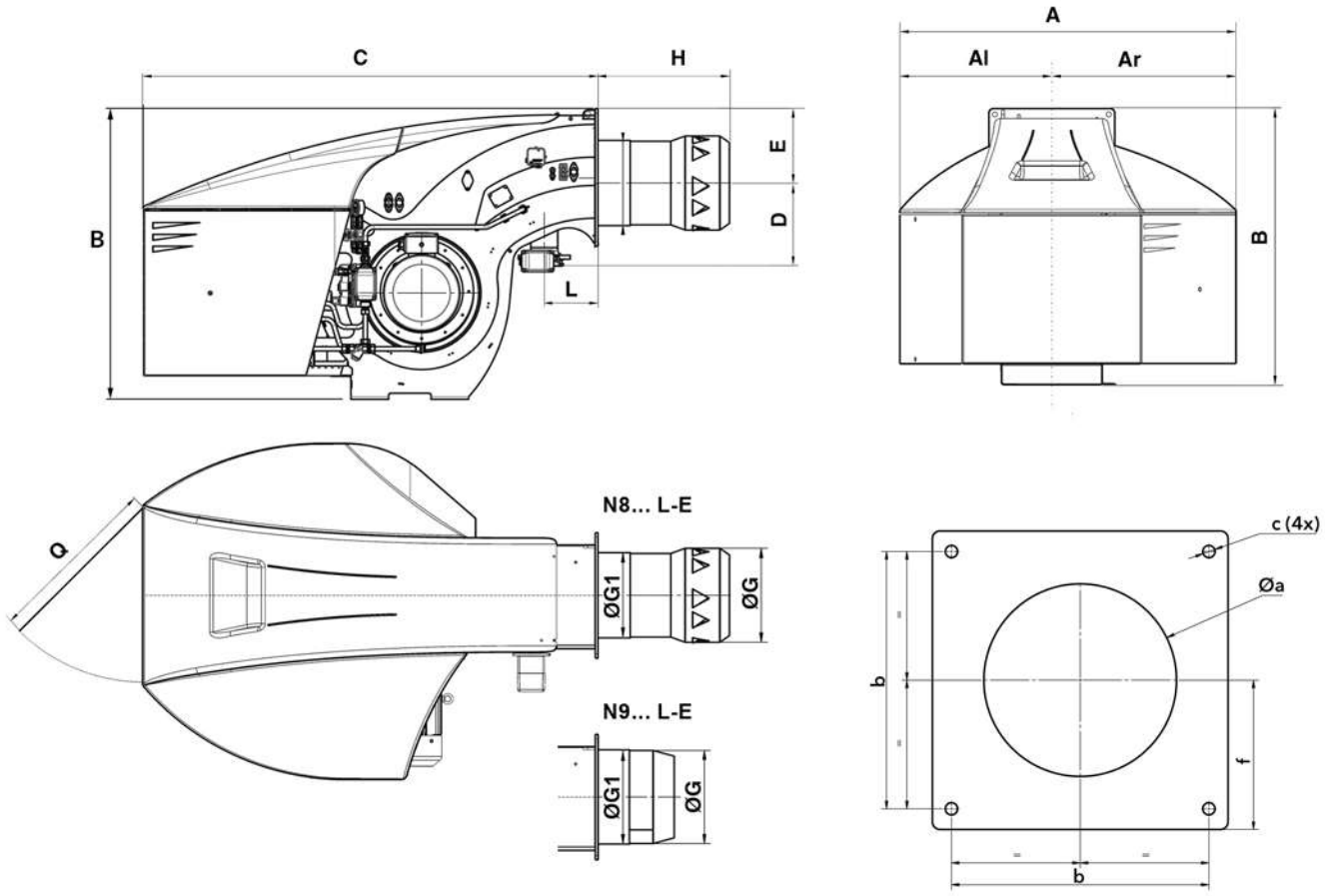
TECHNICAL DATA



Test conditions conforming to EN267 - Temperature: 20°C - Pressure: 1013,5 mbar - Altitude: 0 m a.s.l.

	N8.5800 L-E	N8.7100 L-E	N9.8700 L-E	N9.10400 L-E
Operating range	1350 – 5350 kW	1470 – 7340 kW	2400 – 8530 kW	2820 – 10620 kW
Fuel connection	DN20 x 1500 mm / R 3/4"	DN20 x 1500 mm / R 3/4"	DN25 x 1500 mm / R 1"	DN25 x 1500 mm / R 1"
Auxiliary voltage	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
Power supply	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
Control box / flame detector	BT300 / QRA2	BT300 / QRA2	BT300 / QRA2	BT300 / QRA2
Fan motor	50 Hz – 11 kW	50 Hz – 15 kW	50 Hz – 18,5 kW	50 Hz – 22 kW
Pump	SMG1630 – 1700 l/h	SMG1630 – 1700 l/h	SMG1631 – 2200 l/h	SMG1631 – 2200 l/h
Motor pump	50 Hz – 3 kW	50 Hz – 3 kW	50 Hz – 4 kW	50 Hz – 4 kW
Acoustic level	<77,4 dB(A)	<79,5 dB(A)	<81 dB(A)	<81,7 dB(A)
CE certificate	0085CL0215	0085CL0215	0085CL0215	0085CL0215
Complete burner codes	**on request**	**on request**	**on request**	**on request**

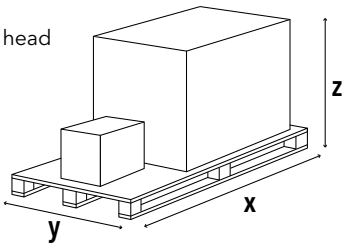
DIMENSIONS (mm)



Model	A	Al	Ar	B	C	E	ØG	ØG1	H			Q	Øa	b	c	f
									KN	KM	KL					
N8.5800 L-E	1414	669	745	1231	1930	293	400	376	562	702	842	800	430-480	505	M20	293
N8.7100 L-E	1414	669	745	1231	1930	293	415	376	583	723	863	800	454-480	505	M20	293
N9.8700 L-E	1414	669	745	1291	1928	293	431,5	438,5	355	505	655	800	445-480	505	M20	293
N9.10400 L-E	1414	669	745	1291	1928	293	431,5	438,5	355	505	655	800	445-480	505	M20	293

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N8.5800 L-E	2900	1600	1573	700
N8.7100 L-E	2900	1600	1573	700
N9.8700 L-E	2900	1600	1573	760
N9.10400 L-E	2900	1600	1573	760

LCM MODULE (for communication, O_2 control, frequency converter)

Module mounted in factory, requested for O_2 control, Variatron and communication buses connections (the module is available also on request as a separate kit) Note: only one LCM module is necessary for these 3 options; it is already included in the GL-E.../BT3 versions	**3752433**

MODULATING OPERATION

Regulator RWF55 + instruction manual Kit mounted in factory on the switch cabinet to be connected to the appropriate probe (see "BURNER KITS" session)	**3752364**

FREQUENCY CONVERTER

Variatron mounted in factory inside the switch cabinet including the VSM module for the burners with BT300 control box
Note: one LCM module is required and must be ordered separately (for burners equipped with the BT300)

Frequency converter for **N6.2400**	**3751418**
Frequency converter for **N6.2900**	**3751419**
Frequency converter for **N7.3600 G-E/G-EU2/GL-E/L-E**	**3751420**
Frequency converter for **N7.3600 G-EF3/GL-EF3/L-EF3 and N7.4500**	**3751421**
Frequency converter for **N8.5800 G-...**	**3750778**
Frequency converter for **N8.7100 G-...**	**3750779**
Frequency converter for **N9.8700 G-...**	**3750780**
Frequency converter for **N9.10400 G-...**	**3750781**
Frequency converter for **N8.5800 GL-... and L-...**	**3751422**
Frequency converter for **N8.7100 GL-... and L-...**	**3751423**
Frequency converter for **N9.8700 GL-E and L-...**	**3751424**
Frequency converter for **N9.10400 GL-E and L-...**	**3751425**
Frequency converter for **N9.8700 GL-EUF**	**3751498**
Frequency converter for **N9.10400 GL-EUF**	**3751499**

FREQUENCY CONVERTER ARRANGEMENT

Burner prepared to be connected to an external frequency inverter
NOTE: one LCM module is required and must be ordered separately (for burners equipped with the BT300)

N6.2400 G-... prepared for an external frequency converter of **3 kW**	**3751426**
N6.2900 G-... prepared for an external frequency converter of **4 kW**	**3751427**
N7.3600 G-E and N7.4500 G-EU2 prepared for an external frequency converter of **5,5 kW**	**3751428**
N7.3600 G-EF3 and N7.4500 G-E/G-EF3 prepared for an external frequency converter of **7,5 kW**	**3751429**
N8.5800 G-E prepared for an external frequency converter of **11 kW**	**3751113**
N8.7100 G-E prepared for an external frequency converter of **15 kW**	**3751114**
N9.8700 G-E prepared for an external frequency converter of **18,5 kW**	**3751115**
N9.10400 G-E prepared for an external frequency converter of **22 kW**	**3751116**
N6 GL-... and N6 L-... prepared for an external frequency converter of **3 kW**	**3751430**
N6 GL-... and N6 L-... prepared for an external frequency converter of **4 kW**	**3751431**
N7 GL-... and N7 L-... prepared for an external frequency converter of **5,5 kW**	**3751432**
N7 GL-... and N7 L-... prepared for an external frequency converter of **7,5 kW**	**3751433**
N8 GL-... and N8 L-... prepared for an external frequency converter of **11 kW**	**3751434**
N8 GL-... and N8 L-... prepared for an external frequency converter of **15 kW**	**3751435**
N9.8700 GL-E and N9 L-... prepared for an external frequency converter of **18,5 kW**	**3751436**
N9.10400 GL-E/GL-EF3 and N9 L-... prepared for an external frequency converter of **22 kW**	**3751437**
N9.8700 GL-EUF prepared for an external frequency converter of **18,5 kW**	**3751500**
N9.10400 GL-EUF prepared for an external frequency converter of **22 kW**	**3751501**

PED EQUIPMENT

Equipment of the gas train and the burner body for continuous operation (PED):
- controller and flame sensor approved for continuous operation,
- maximum gas pressure switch on the gas train,
- test burner (to bleed the gas train),
- PED Conformity Declaration.

Note: if required, the antivibrating coupling (to avoid mechanical tension) has to be selected as option

PED for N6/N7 G-E	with Siemens threaded gas trains	**3750768**
	with Siemens flanged gas trains	**3750769**
	with Dungs threaded gas trains	**3750770**
	with Dungs flanged gas trains	**3750771**
PED for N8/N9 G-E	with Siemens threaded gas trains	**3751120**
	with Siemens flanged gas trains	**3751121**
	with Dungs threaded gas trains	**3751122**
	with Dungs flanged gas trains	**3751123**
PED for N6/N7 G-EF3	with Siemens threaded gas trains	**3750772**
	with Siemens flanged gas trains	**3750773**
	with Dungs threaded gas trains	**3750.873**
	with Dungs flanged gas trains	**3751058**
PED for N6/N7 GL-E	with Siemens threaded gas trains	**3751059**
	with Siemens flanged gas trains	**3751060**
	with Dungs threaded gas trains	**3751061**
	with Dungs flanged gas trains	**3750447**
PED for N6/N7 GL-EF3	with Siemens threaded gas trains	**3751062**
	with Siemens flanged gas trains	**3751063**
	with Dungs threaded gas trains	**3750450**
	with Dungs flanged gas trains	**3751064**
PED for N8/N9 GL-E	with Siemens threaded gas trains	**3751069**
	with Siemens flanged gas trains	**3751070**
	with Dungs threaded gas trains	**3751071**
	with Dungs flanged gas trains	**3751072**
PED for N8/N9 GL-EF3	with Siemens threaded gas trains	**3750460**
	with Siemens flanged gas trains	**3751073**
	with Dungs threaded gas trains	**3751074**
	with Dungs flanged gas trains	**3751075**
PED for N6...N9 G-... and GL-... with terminal block switch cabinet	with Siemens threaded gas trains	**3750764**
	with Siemens flanged gas trains	**3750765**
	with Dungs threaded gas trains	**3750766**
	with Dungs flanged gas trains	**3750767**
PED for N6/N7 L-E		**3751065**
PED for N6/N7 L-EF3		**3751066**
PED for N8/N9 L-E		**3751067**
PED for N8/N9 L-EF3		**3751068**

MAX GAS PRESSURE SWITCH (mounted on the gas train)

N6/N7 G-.../GL-...	with Siemens threaded gas trains	**3751088**
	with Siemens flanged gas trains	**3751089**
	with Dungs threaded gas trains	**3751090**
	with Dungs flanged gas trains	**3751091**
N8/N9 G-.../GL-...	with Siemens threaded gas trains	**3751124**
	with Siemens flanged gas trains	**3751125**
	with Dungs threaded gas trains	**3751126**
	with Dungs flanged gas trains	**3751127**
N6...N9 G-.../GL-... with terminal block switch cabinet	with Siemens threaded gas trains	**3751076**
	with Siemens flanged gas trains	**3751077**
	with Dungs threaded gas trains	**3751078**
	with Dungs flanged gas trains	**3751079**

STAR/DELTA MOTOR STARTER

Star/Delta 3,0 G/BT3 for N6.2400	**3751414**
Star/Delta 4,0 G/BT3 for N6.2900	**3751415**
Star/Delta 5,5 G/BT3 for N7.3600	**3751416**
Star/Delta 7,5 G/BT3 for N7.4500	**3751417**

BLIND DOOR

Door of the switch cabinet without any component. The switches and the power regulator (if required) are mounted inside the switch cabinet

For N6/N7 in gas and light oil operation	**3751411**
For N6/N7 in dual fuel operation	**3751412**
For N8/N9 in gas and light oil operation	**3751119**
For N8/N9 in dual fuel operation	**3751413**

REMOTE SIGNAL 4-20 mA

Remote signal 4-20 mA for BT300 burner variant (Note: one LCM module is required for burners equipped with BT3xx)	**14099397**

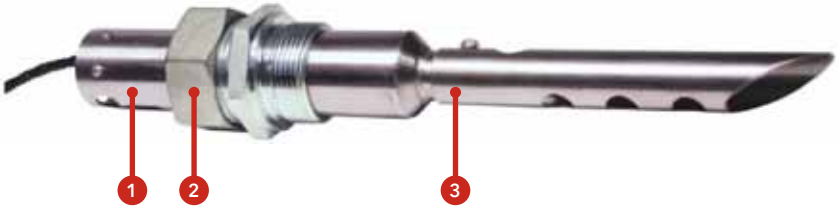
O_2 TRIM FOR BT300, ETAMATIC AND ETAMATIC OEM, FMS/VMS

This kit is used to optimize the combustion in order to keep the air excess as much stable as possible irrespective of the changes that can occur during operations, for instance slight calorific value variations, combustion air temperature and pressure. This improves the seasonal efficiency and therefore reduces the fuel consumption.

The kit includes the following components:
- Lambda transmitter LT3
- Lambda probe LS2
- Probe installation fitting (PIF)
- Gas extraction device (GED)

The control unit has to be installed close to the probe (max 25 m of cable)
The probe needs a calibration but no reference gas is necessary.
The display shows the O_2 content.
Maximum distance between the LT3 and the burner control panel is 500 m.

	Additional LSB modules installed at LT3	GED length	Code
Kit for O_2 trim (LT3 + LS2) **Flue temp max 300 °C – Display for O_2 visualization** (Note: for models equipped with BT3xx this kit needs a LCM module installed in the burner control panel)	none	150 mm	**3759296**
		300 mm	**3759297**
		450 mm	**3759298**
	4x 0/4-20 mA output	150 mm	**3759299**
		300 mm	**3759300**
		450 mm	**3759301**
	4x 0/4-20 mA output + 4x digital output	150 mm	**3759302**
		300 mm	**3759303**
		450 mm	**3759304**



1. Lambda Probe LS2 in standard housing up to 300°C (572°F); default cable length is 2 m (6.5 ft), FEP, with connecting plug
2. Probe installation fitting (PIF)
3. Gas extraction device (GED)

The lambda probe LS2 is equipped with a 2 m long connection cable to connect the probe to the transmitter (LT3).
The standard connection cable can be extended thanks to ready-made cables as well as the probe connection box (PCB) up to a total maximum distance between LS2 and LT3 of 25 m.

The PCB is a small terminal box that is connected to the 2 m cable already existing on the probe. The wiring between the PCB and the transmitter must be carried out at the intsallation site with suitable cables and trained personnel.

Description	Code
Extension LS2 cable 5m	**3759314**
Extension LS2 cable 10m	**3759315**
Extension LS2 cable 20m	**3759316**
Extension LS2 PCB	**3759317**

O_2/CO_e TRIM FOR BT300, ETAMATIC AND ETAMATIC OEM, FMS/VMS

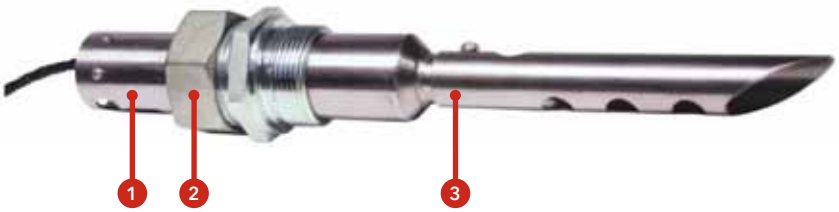
This kit is used for optimizing the combustion in order to keep the air excess as low as possible in order to maximize the seasonal efficiency and therefore minimize the fuel consumption.
In addition to the features of the O_2 trim only, this kit reduces the air excess to its minimum because this system continuously measures the content of unburned fuel (CO_e) in the flue: should the air excess be reduced too much, the CO_e raises and the system reacts by increasing the air excess in order to keep firing in safe conditions.

The kit includes the following components:
- Lambda transmitter LT3-F
- Lambda probe KS1D
- Probe installation fitting (PIF)
- Gas extraction device (GED)

The control unit has to be installed close to the probe (max 10 m of cable).
The probe needs a calibration but no reference gas is necessary.
The display shows the O_2 and CO_e content.
Maximum distance between the LT3-F and the burner control panel is 500 m.

Note: this system is not suitable for GL-EUF and L-EUF burners

	Additional LSB modules installed at LT3-F	GED length	Code
Kit for O_2 trim and CO control (LT3-F + KS1D) **Flue temp max 300 °C** (Note: for models equipped with BT3xx this kit needs a LCM module installed in the burner control panel)	none	150 mm	**3759305**
		300 mm	**3759306**
		450 mm	**3759307**
	4x 0/4-20 mA output	150 mm	**3759308**
		300 mm	**3759309**
		450 mm	**3759310**
	4x 0/4-20 mA output + 4x digital output	150 mm	**3759311**
		300 mm	**3759312**
		450 mm	**3759313**



1. Lambda Probe KS1D in standard housing up to 300°C (572°F); default cable length is 2 m (6.5 ft), FEP, with connecting plug
2. Probe installation fitting (PIF)
3. Gas extraction device (GED)

The lambda probe KS1D is equipped with a 2 m long connection cable to connect the probe to the transmitter (LT3-F).
The standard connection cable can be extended thanks to a 5 m ready-made cable as well as the probe connection box (PCB) up to a total maximum distance between KS1D and LT3-F of 10 m.

The PCB is a small terminal box that is connected to the 2 m cable already existing on the probe. The wiring between the PCB and the transmitter must be carried out at the installation site with suitable cables and trained personnel.

Description	Code
Extension KS1D cable 5m	**3759318**
Extension KS1D PCB	**3759319**

REMOTE SOFTWARE

Kit to connect a PC laptop to the BT300 for its parametrization	LSA100 + USB/CAN + CD-Rom	**3751130**

COMMUNICATION MODULES

Modules for external installation Note: one LCM module is required	ModBus/BT3 (EBM100)	**3754456**
	ProfiBus/BT3 (PBM100)	**3752986**
	Profinet/BT3 (EBM112)	**3758317**
	Ethernet/BT3	**on request**

POWER REGULATOR

Power regulator RWF55 stand-alone and kit wiring	**on request**

PROBES

Immersion probes	PT 100: –50°/+400°C (100 mm) + pocket tube (76 mm)	**3750070**
	PT 100: 400°C (160 mm)	**1758574269**
	PT 100: 480°C (250 mm)	**3751009**
Pressure probes	0…1,6 bar	**3752217**
	0…2,5 bar	**1758713722**
	0…6 bar	**1758640660**
	0…10 bar	**1758577280**
	0…16 bar	**1758577291**
	0…25 bar	**3751015**

COUNTER FACE PLATE

CP11	for N6	**3833908**
CP12	for N7	**3833909**
CP13	for N8	**3833910**
CP14	for N9	**3833911**

- **Equipment according EN746-2**
- **Permanent ventilation**
- **60 Hz versions**
- **Remote display (BT3xx)**
- **Separate switch box / terminal strip version (Etamatic OEM)**
- **LPG firing**
- **Hinge flange**
- **"Burner ON" feedback signal**

Other special requests can be submitted to your Sales Reference for feasibility evaluation

N

MONOBLOCK BURNERS
FROM 1300 TO 22000 kW
GAS, LIGHT OIL AND DUAL FUEL

HIGH POWER AND EASE OF USE

Where a compact solution is needed, a monoblock burner offers advantages over individual components. However, above a power output of 10 MW, the conventional burner becomes too heavy: ease of handling during installation and maintenance work suffers, the strain on the boiler door is too high.
The N burners solve this problem with innovative, weight-saving enclosure technology. The key feature is the physical division of the burner into a support frame and a separate air-routing housing.

ULTRA LOW NOX TECHNOLOGY, UP TO 22 MW

Thanks to the introduction of the new N11 model and the innovative solutions of this range, ELCO is able to provide high performance and ease of use on its monoblock range up to 22 MW.
The implementation of the FGR System enables to guarantee NOx emissions of less than 30 mg/kWh for all the models of the N range.

SIMPLIFIED STRUCTURE TO IMPROVE USABILITY

The burner head and the housing have been almost entirely separated in order to allow sufficient space for the combustion components to be easily removed. The air pipe between the housing and the burner head is simply closed by a removable cover. It is no longer necessary to pivot the entire body of the burner to one side or the other.
An added advantage is the ability to fix the frame to the ground, depending on the application, thus relieving the boiler door from any mechanical stress.

ADVANCED DESIGN FOR LOW NOISE LEVELS

Special attention has been paid to the fan design. The burner's acoustic level meets industry standards, providing a more comfortable working environment.
The two main characteristics which limit the noise emitted by a fan are a high and constant static pressure and the use of a wheel with rear facing blades. The result is a stable combustion and reduced noise at the air inlet.

RANGE OVERVIEW

/ GAS RANGE
1300 / 22000 kW

/ DUAL FUEL RANGE
1300 / 16000 kW

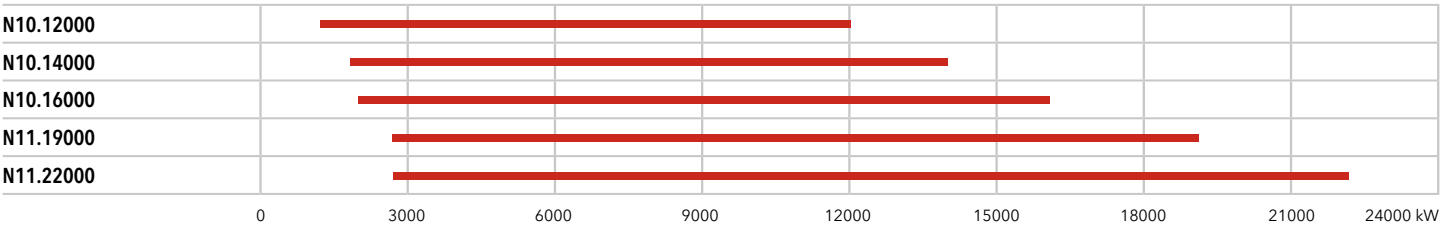
/ LIGHT OIL RANGE
3000 / 16000 kW

/ LOW NOx / ULTRA LOW NOx
up to 22000 kW

MAIN TECHNICAL FEATURES

- Two stage progressive/modulating forced draught burner
- Fuels:
  - natural gas, Hi = 6,99 … 11,39 kWh/Nm^3
  - light oil, viscosity 6 mm^2/s at 20°C, Hi = 11,86 kWh/kg
- Combustion technology:
  - Low NOx class 2 (≤120 mg/kWh) and class 3 (≤80 mg/kWh) in gas operation acccording to EN676
  - Low NOx class 2 (≤185 mg/kWh) and class 3 (≤120 mg/kWh) in light oil operation according to EN267
  - Ultra Low NOx configuration available with FGR System to reach NOx emission values below 30 mg/kWh
- Control box: built-in (Etamatic OEM control box installed inside the junction box) or external, according to customer requirements
- Three flame tube lengths available
- Secured burner head adjustments during maintenance (RTC System)
- Closing of the air damper on burner shut-down
- Multiple gas train matching according to the inlet gas pressure
- Gas train factory assembled and tested for tightness and electrical security
- Products are in compliance with EN676 and EN267 European standards and with the following directives:
  - 2014/35/UE Low Voltage Directive
  - 2014/30/UE EMC Directive
  - 2016/426/UE Gas Appliances Regulation
  - 2006/42/EC Machinery Directive
  - 2011/65/EU RoHS2 Directive

PRODUCT LIST



N

GAS

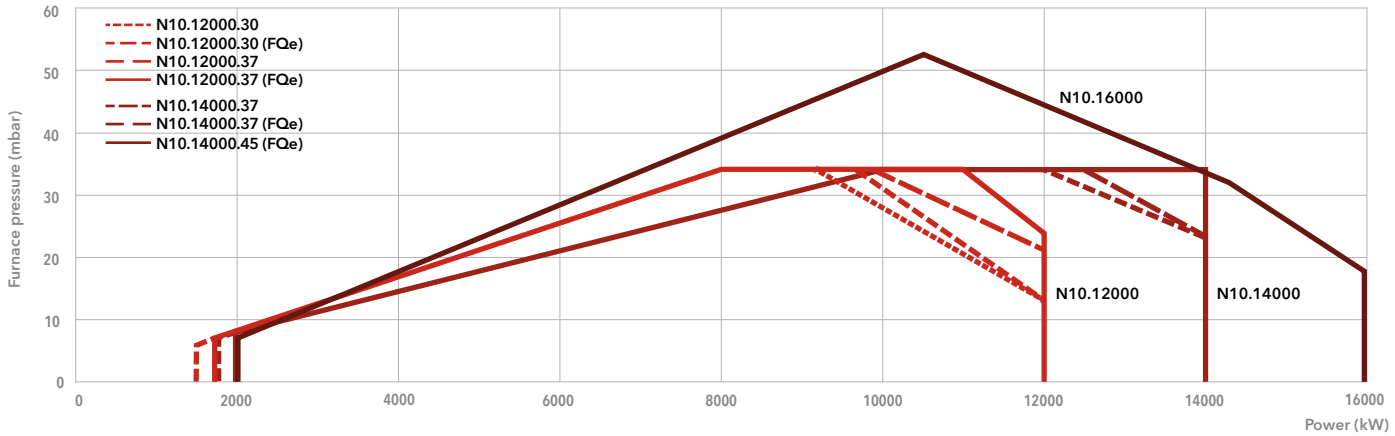
Low NOx Class 3

N10 G-EU2

1500 … 16000 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 … 11,39 kWh/m³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
  Version with FGR System (≤30 mg/kWh) available on request
- **Protection level:** IP 41 (IP 54 as option)

TECHNICAL DATA



FQe = external frequency converter

	N10.12000.30 G-EU2	N10.12000.37 G-EU2	N10.14000.37 G-EU2	N10.14000.45 G-EU2	N10.16000.45 G-EU2
Operating range	1500* – 12000 kW (*: 1750 without FQ)	1500* – 12000 kW (*: 1750 without FQ)	1750* – 14000 kW (*: 2000 without FQ)	1750 – 14000 kW* (*: with FQe)	2000 – 16000 kW* (*: with FQe)
Gas connection	DN100	DN100	DN100	DN100	DN100
Fan motor	50/60 Hz – 30 kW	50/60 Hz – 37 kW	50/60 Hz – 37 kW	50/60 Hz – 45 kW	50/60 Hz – 45 kW
Acoustic level	< 97 dB(A)	< 97 dB(A)	< 97 dB(A)	< 97 dB(A)	< 97 dB(A)
Complete burner code	on request	on request	on request	on request	on request

GAS TRAINS

DUNGS

Model	Code
d80	on request
d100	on request
d125	on request

SIEMENS

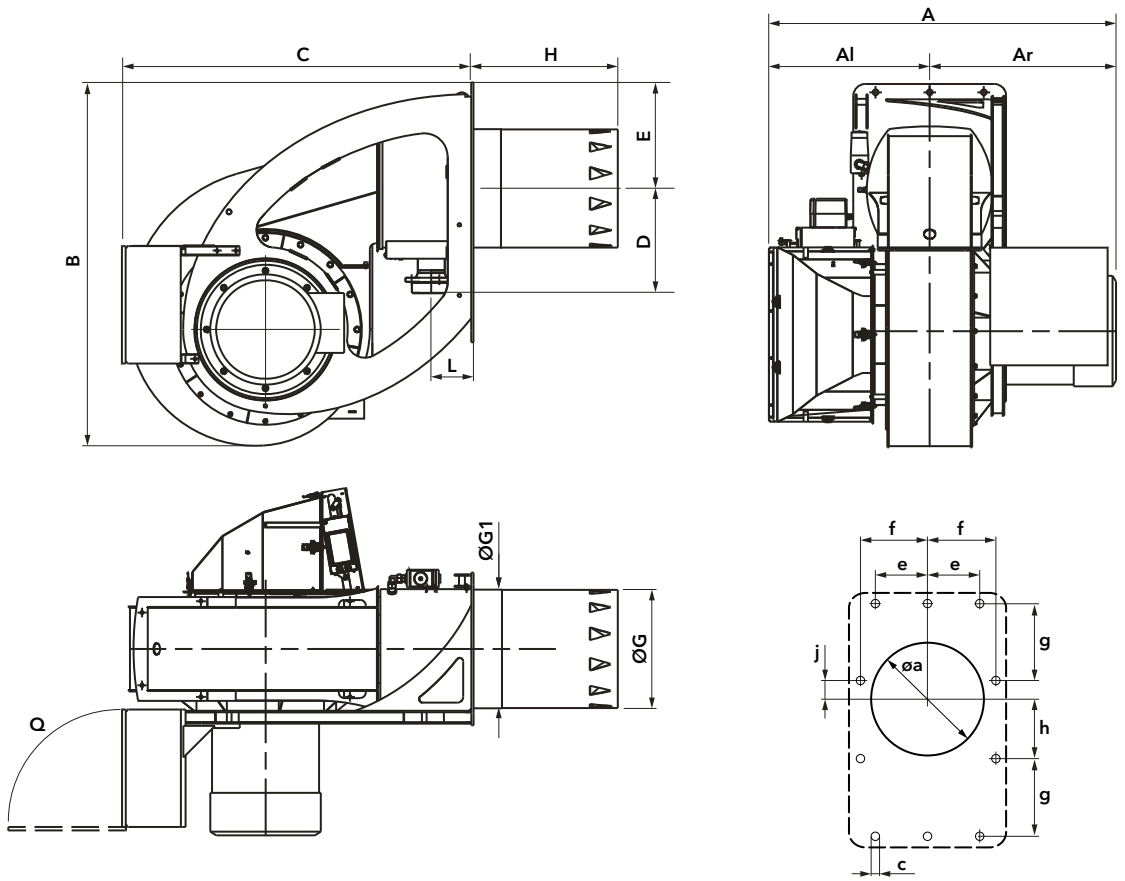
Model	Code
s80	3757394
s100	3757395
s125	3757396
s150	3757397

FILTERS

Model	Code
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209
FG-DN150	3757210

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 248

DIMENSIONS (mm)

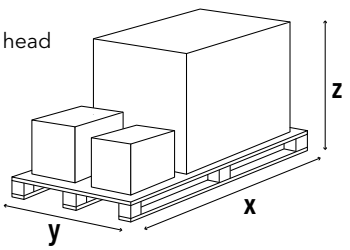


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H	L	Q	Øa	c	e	f	g	h	j
N10.12000.30 G-EU2	1441	683	758	1545	1494	446	450	497	504	620*	180	800	525	M20	230	290	345	275	70
N10.12000.37 G-EU2	1441	683	758	1545	1494	446	450	497	504	620*	180	800	525	M20	230	290	345	275	70
N10.14000.37 G-EU2	1441	683	758	1545	1494	446	450	497	504	620*	180	800	525	M20	230	290	345	275	70
N10.14000.45 G-EU2	1530	683	847	1545	1494	446	450	497	504	620*	180	800	525	M20	230	290	345	275	70
N10.16000.45 G-EU2	1530	683	847	1545	1494	446	450	497	504	620*	180	800	525	M20	230	290	345	275	70

*: different length on request

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N10... G-EU2	2200	1800	1900	1000

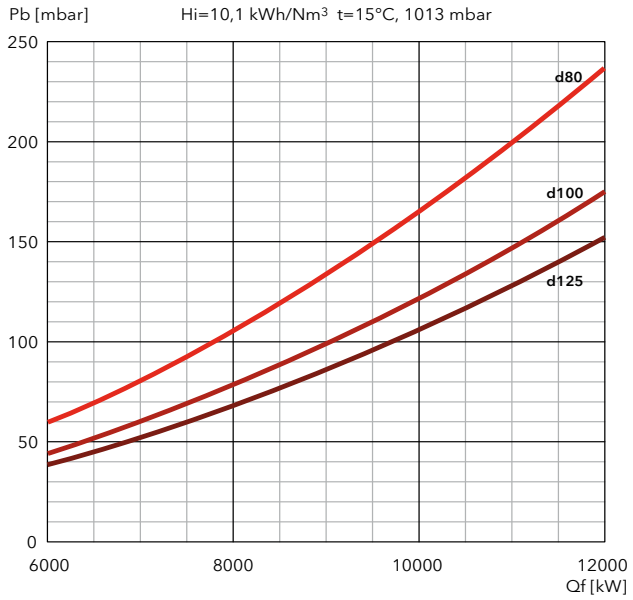
N10 G-EU2

1500 ... 16000 kW
Two stage progressive/modulating electronic

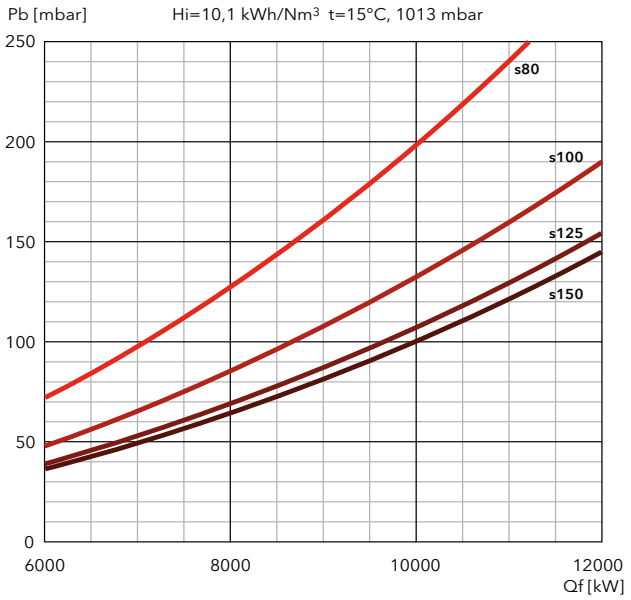
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N10.12000 G-EU2

DUNGS

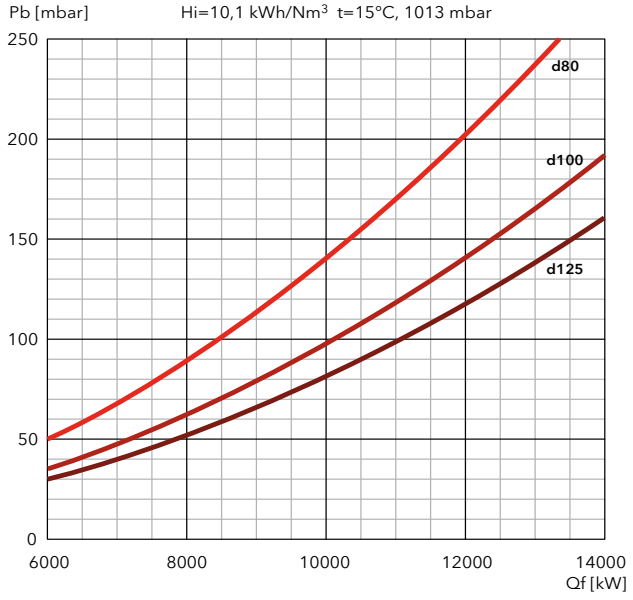


SIEMENS

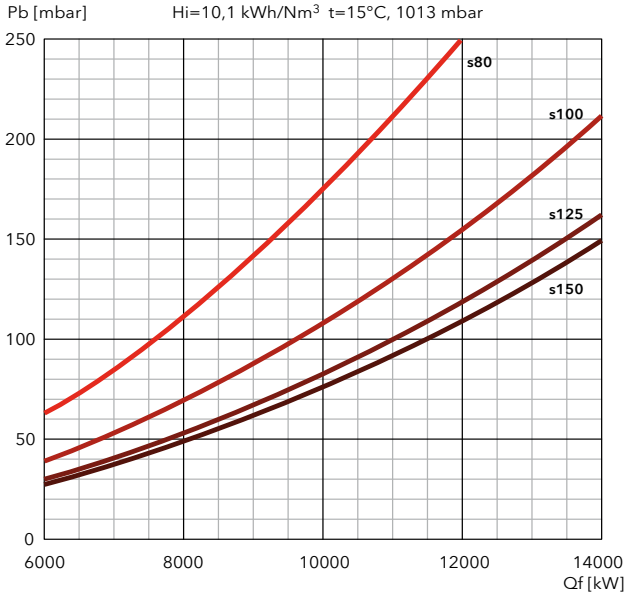


N10.14000 G-EU2

DUNGS



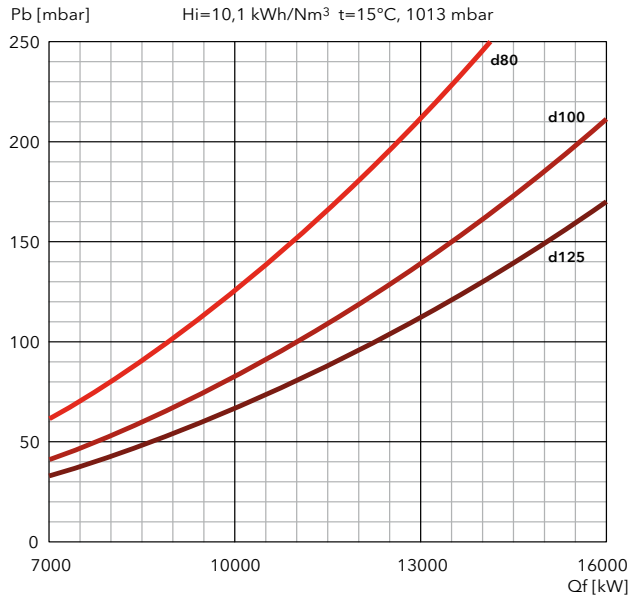
SIEMENS



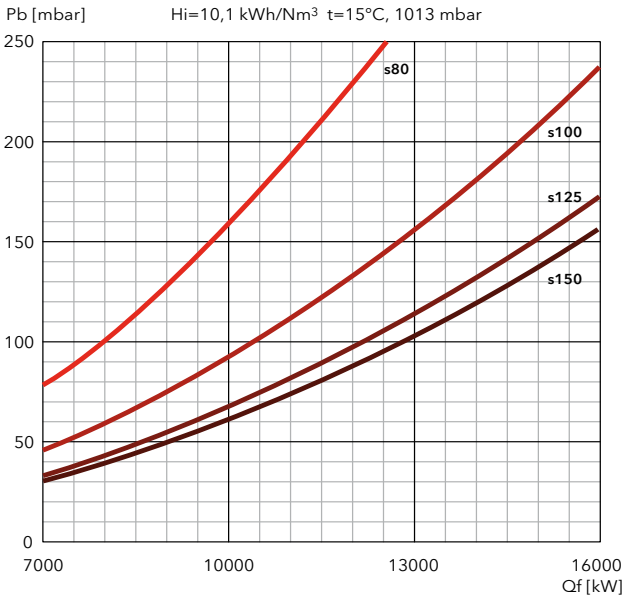
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N10.16000 G-EU2

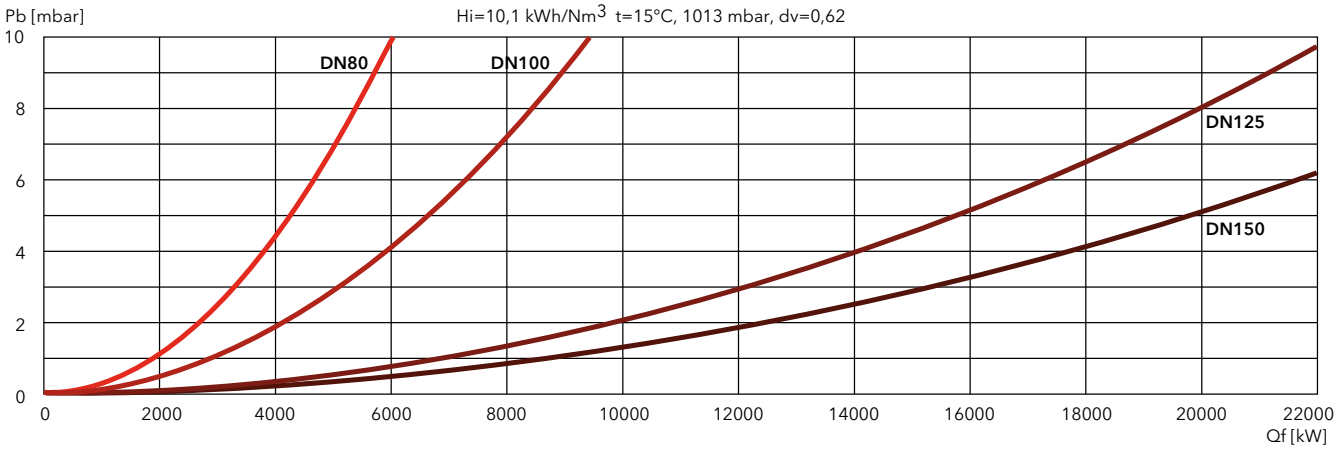
DUNGS



SIEMENS



FILTERS



N

GAS

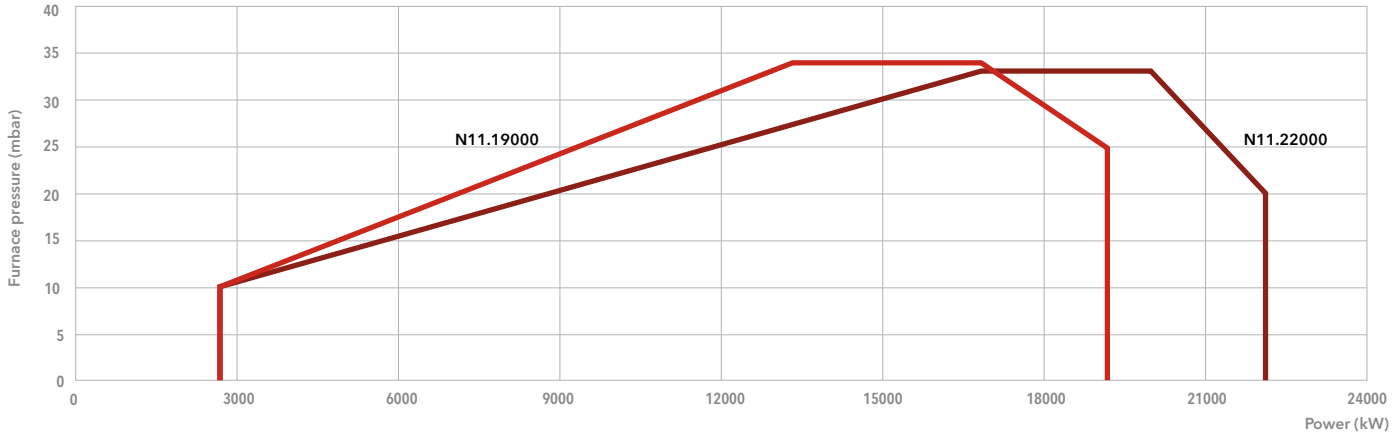
Low NOx Class 3

N11 G-EU2

2750 … 22000 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 … 11,39 kWh/m³
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676
  Version with FGR System (≤30 mg/kWh) available on request
- **Protection level:** IP 40 (IP 54 as option)

TECHNICAL DATA



FQe = external frequency converter

	N11.19000.55 G-EU2	N11.22000.75 G-EU2
Operating range	2750 – 19000 kW	2750 – 22000 kW
Gas connection	DN125	DN125
Fan motor	50/60 Hz – 55 kW	50/60 Hz – 75 kW
Acoustic level	< 96,2 dB(A)	< 96,2 dB(A)
Complete burner code	on request	on request

GAS TRAINS

DUNGS

Model	Code
d100	3758179
d125	3758180

SIEMENS

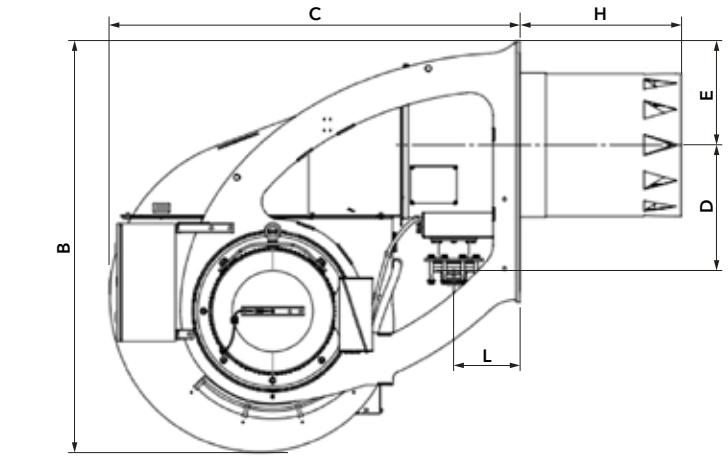
Model	Code
s100	3758176
s125	3758177
s150	3758178

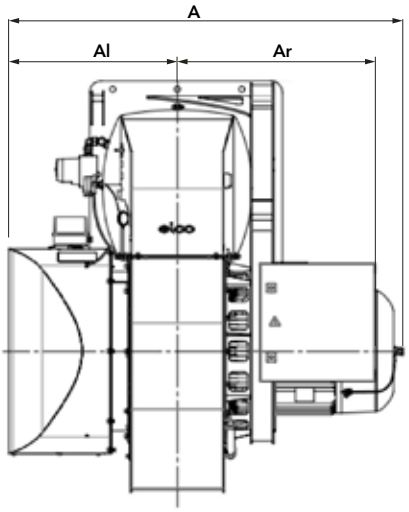
FILTERS

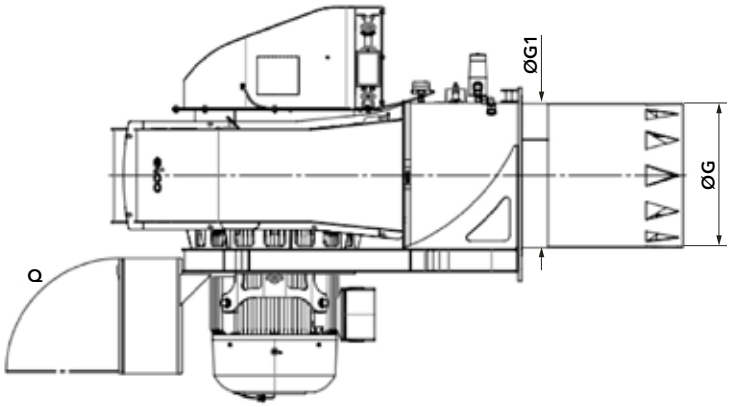
Model	Code
FG-DN100	3757195
FG-DN125	3757209
FG-DN150	3757210

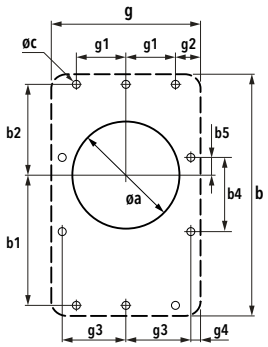
Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 249

DIMENSIONS (mm)







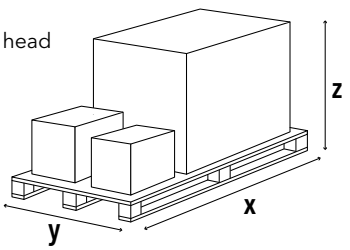


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Q
										KN	KM	KL		
N11.19000	1636	730	858	1780	1777	543	450	617	624	700	850	1000	285	800
N11.22000	1709	730	858	1780	1777	543	450	617	624	700	850	1000	285	800

Øa	b	b1	b2	b4	b5	c	g	g1	g2	g3	g4
645	1130	645	415	345	45	M20	836	280	176	345	111
645	1130	645	415	345	45	M20	836	280	176	345	111

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N11... G-EU2	dimensions and weight depending on configuration			

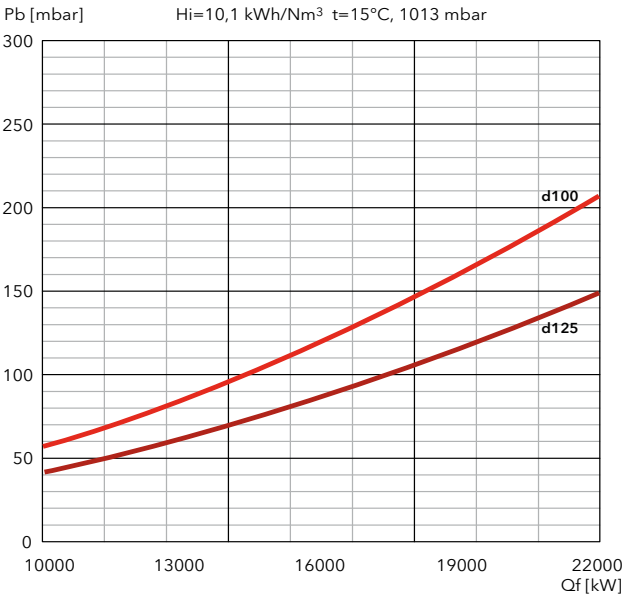
N11 G-EU2

2750 ... 22000 kW
Two stage progressive/modulating electronic

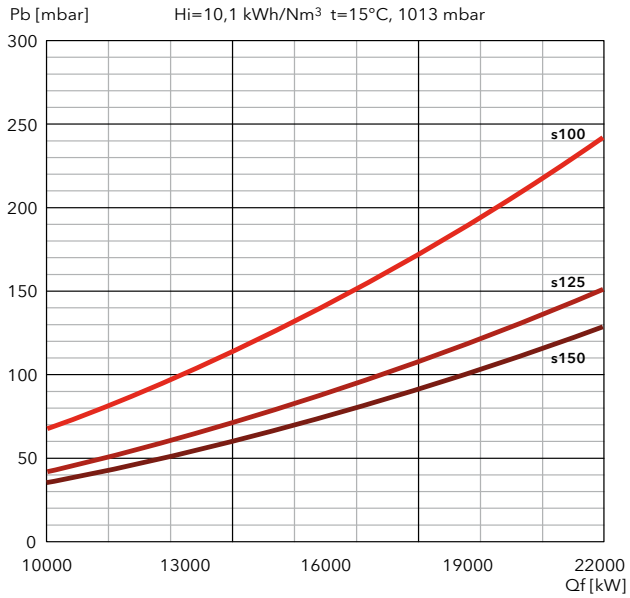
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N11.19000 G-EU2

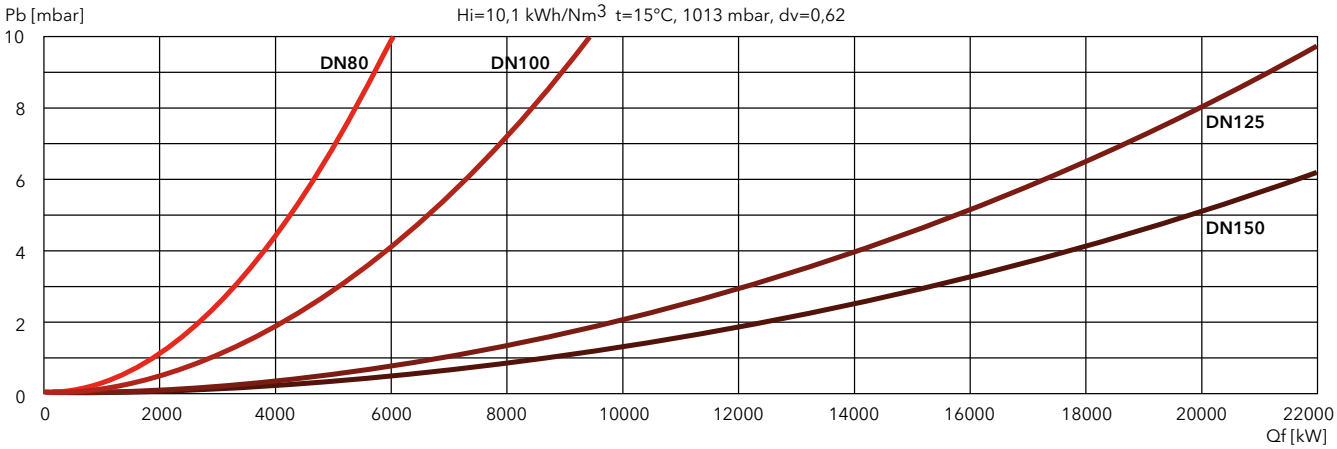
DUNGS



SIEMENS



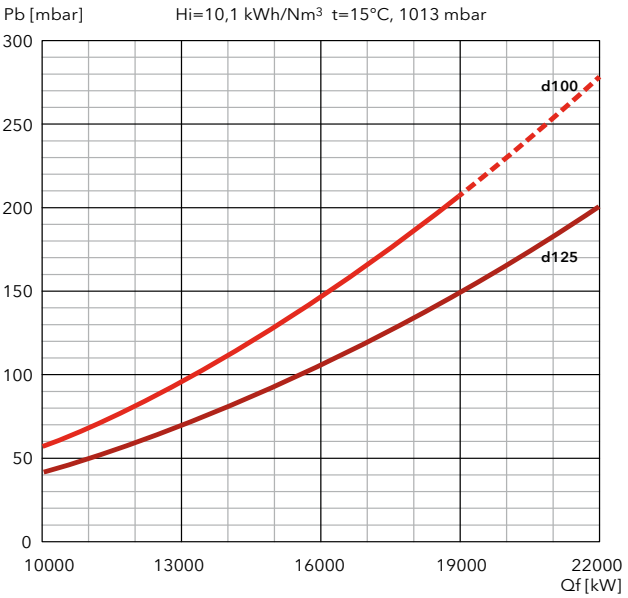
FILTERS



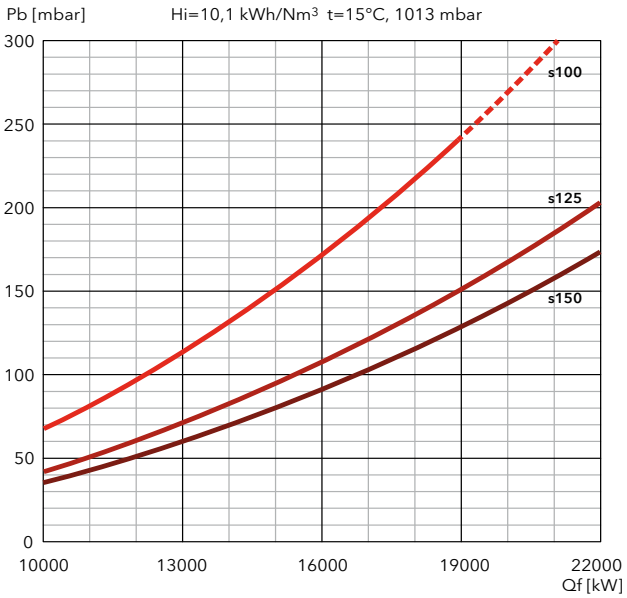
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N11.22000 G-EU2

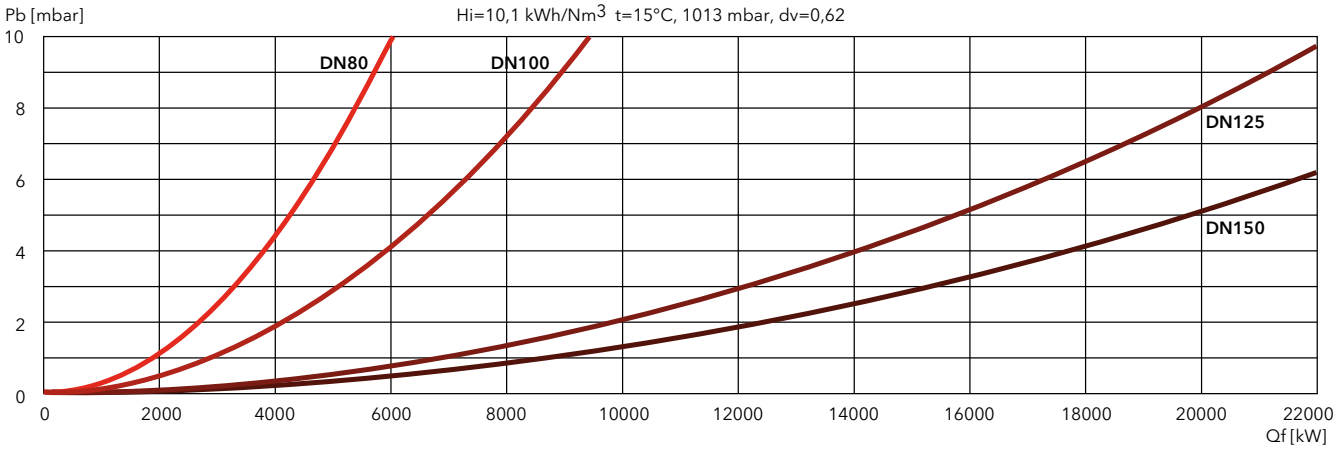
DUNGS



SIEMENS



FILTERS



N

GAS

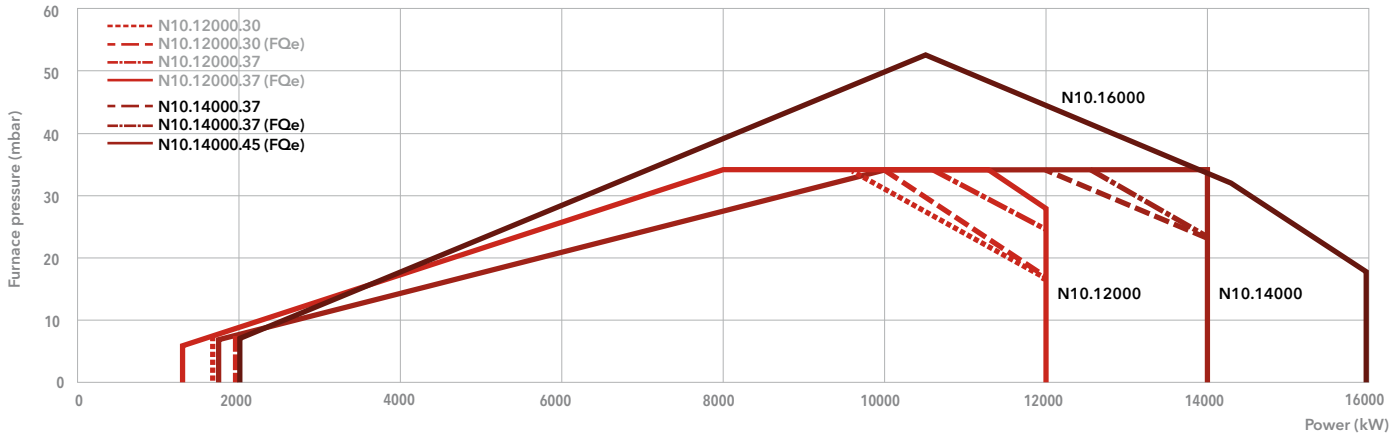
Low NOx Class 2

N10 G-E

1300 … 16000 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 … 11,39 kWh/m³
- **Emission class:** Low NOx class 2 (≤120 mg/kWh) according to EN676
- **Protection level:** IP 41 (IP 54 as option)

TECHNICAL DATA



FQe = external frequency converter

	N10.12000.30 G-E	N10.12000.37 G-E	N10.14000.37 G-E	N10.14000.45 G-E	N10.16000.45 G-E
Operating range	1300* – 12000 kW (*: 1750 without FQe)	1300* – 12000 kW (*: 1750 without FQe)	1750* – 14000 kW (*: 2000 without FQe)	1750 – 14000 kW* (*: with FQe)	2000 – 16000 kW* (*: with FQe)
Gas connection	DN100	DN100	DN100	DN100	DN100
Fan motor	50/60 Hz – 30 kW	50/60 Hz – 37 kW	50/60 Hz – 37 kW	50/60 Hz – 45 kW	50/60 Hz – 45 kW
Acoustic level	< 97 dB(A)	< 97 dB(A)	< 97 dB(A)	< 97 dB(A)	< 97 dB(A)
Complete burner code	on request	on request	on request	on request	on request

GAS TRAINS

DUNGS

Model	Code
d80	on request
d100	on request
d125	on request

SIEMENS

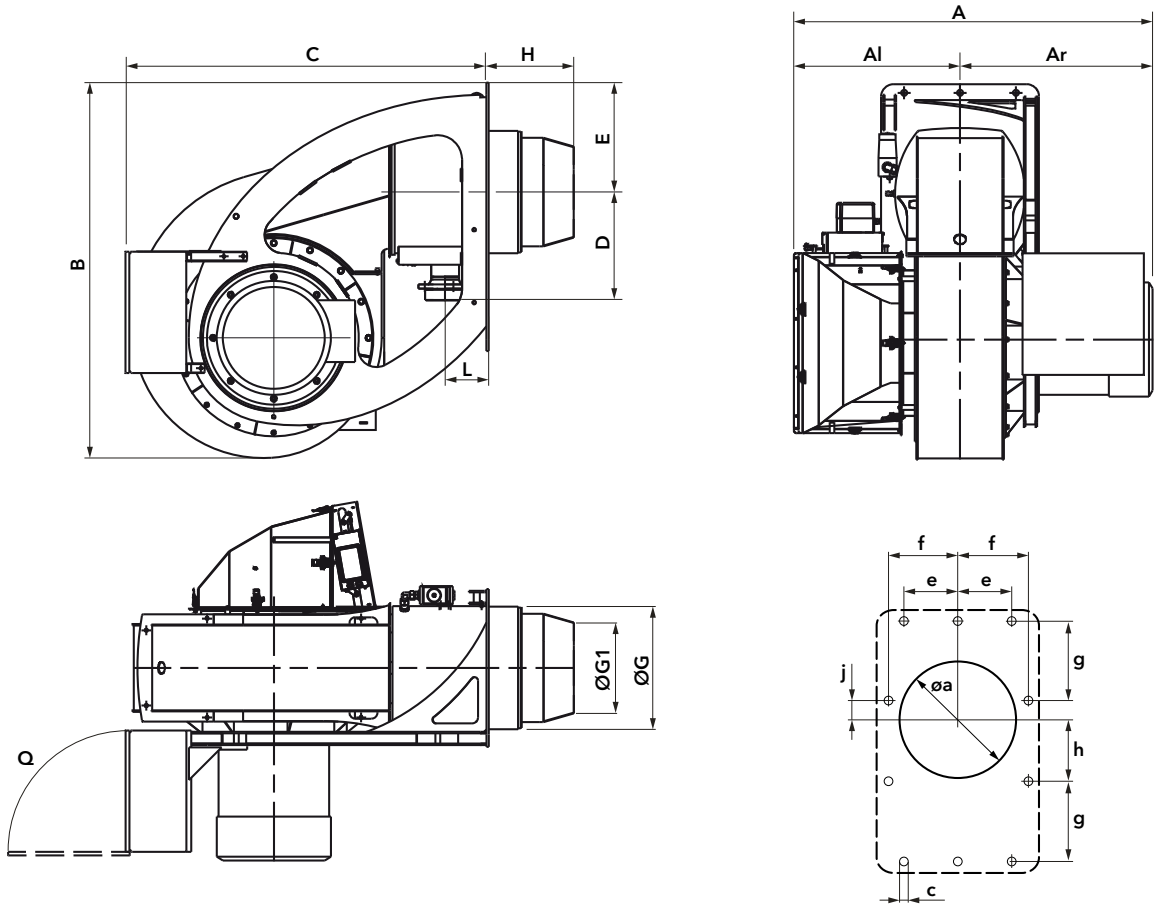
Model	Code
s80	3757394
s100	3757395
s125	3757396
s150	3757397

FILTERS

Model	Code
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209
FG-DN150	3757210

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 248

DIMENSIONS (mm)

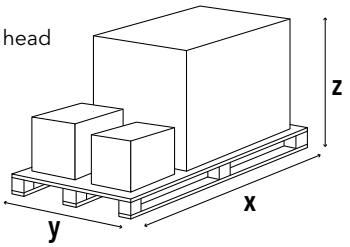


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H	L	Q	Øa	c	e	f	g	h	j
N10.12000.30 G-E	1441	683	758	1545	1494	446	450	504	375	350*	180	800	525	M20	230	290	345	275	70
N10.12000.37 G-E	1441	683	758	1545	1494	446	450	504	375	350*	180	800	525	M20	230	290	345	275	70
N10.14000.37 G-E	1441	683	758	1545	1494	446	450	504	425	350*	180	800	525	M20	230	290	345	275	70
N10.14000.45 G-E	1530	683	847	1545	1494	446	450	504	425	350*	180	800	525	M20	230	290	345	275	70
N10.16000.45 G-E	1530	683	847	1545	1494	446	450	504	425	350*	180	800	525	M20	230	290	345	275	70

*: different length on request

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N10... G-E	2200	1800	1900	1000

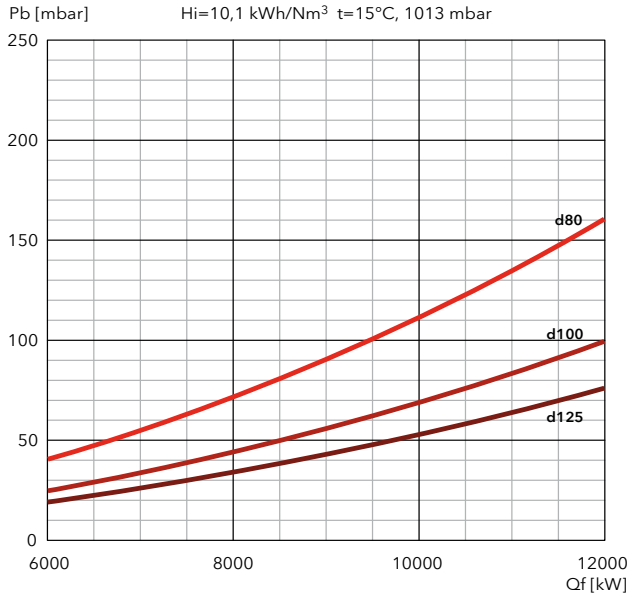
N10 G-E

1300 ... 16000 kW
Two stage progressive/modulating electronic

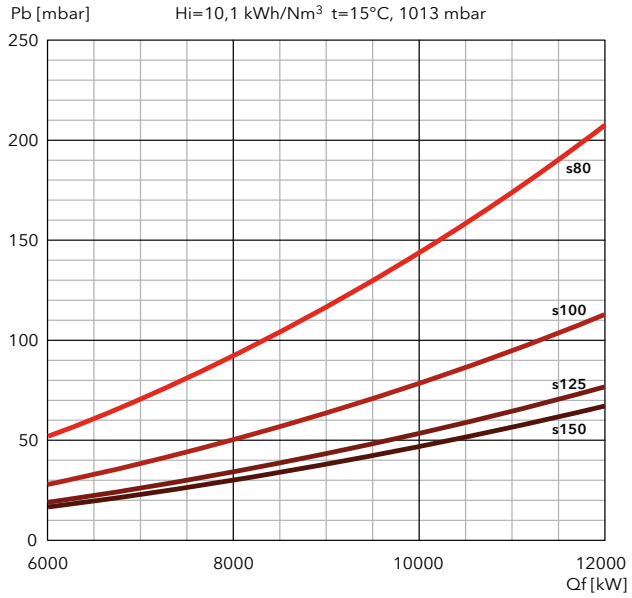
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N10.12000 G-E

DUNGS

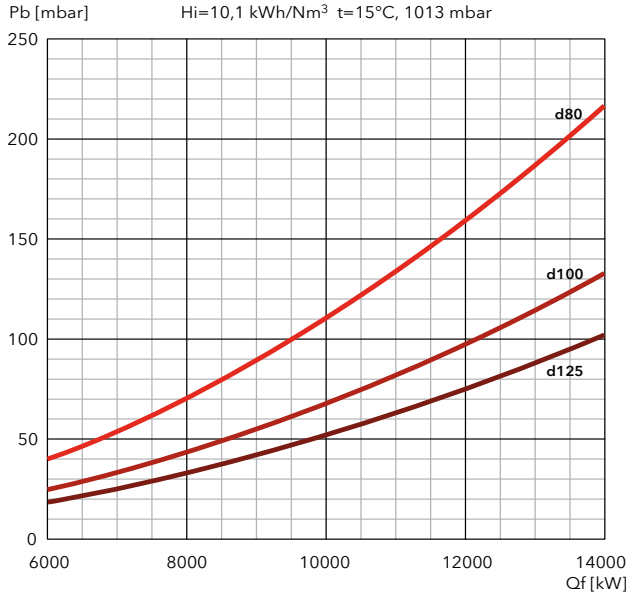


SIEMENS

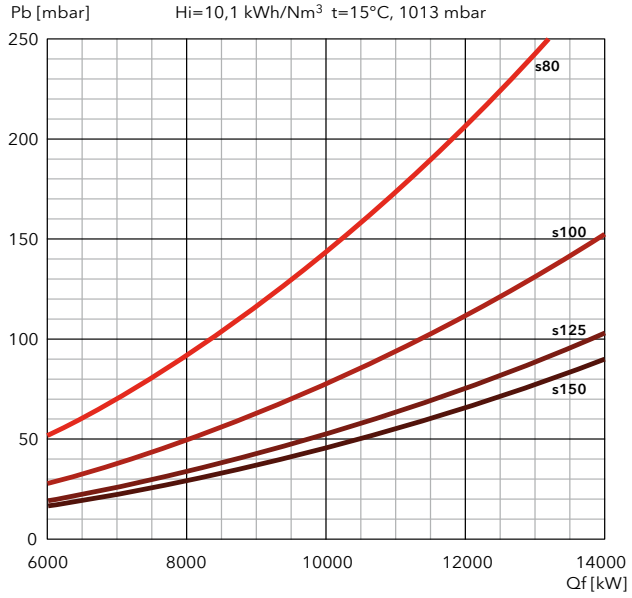


N10.14000 G-E

DUNGS



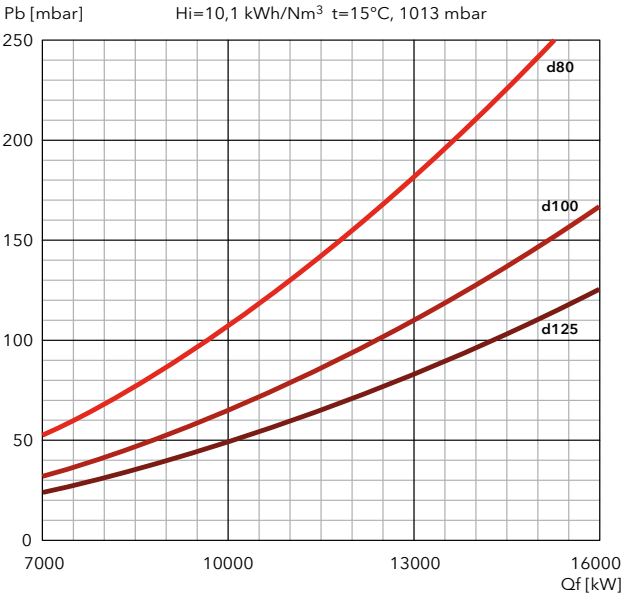
SIEMENS



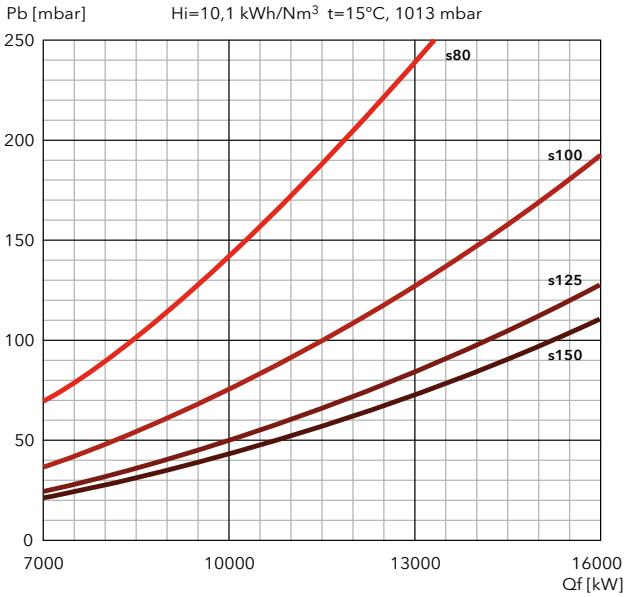
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N10.16000 G-E

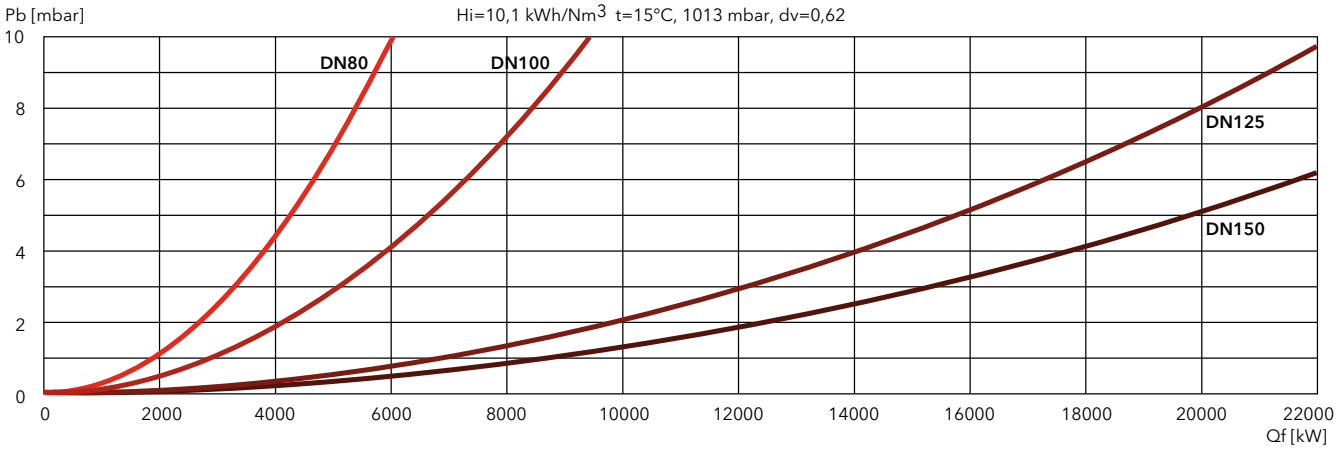
DUNGS



SIEMENS



FILTERS



N

GAS / LIGHT OIL

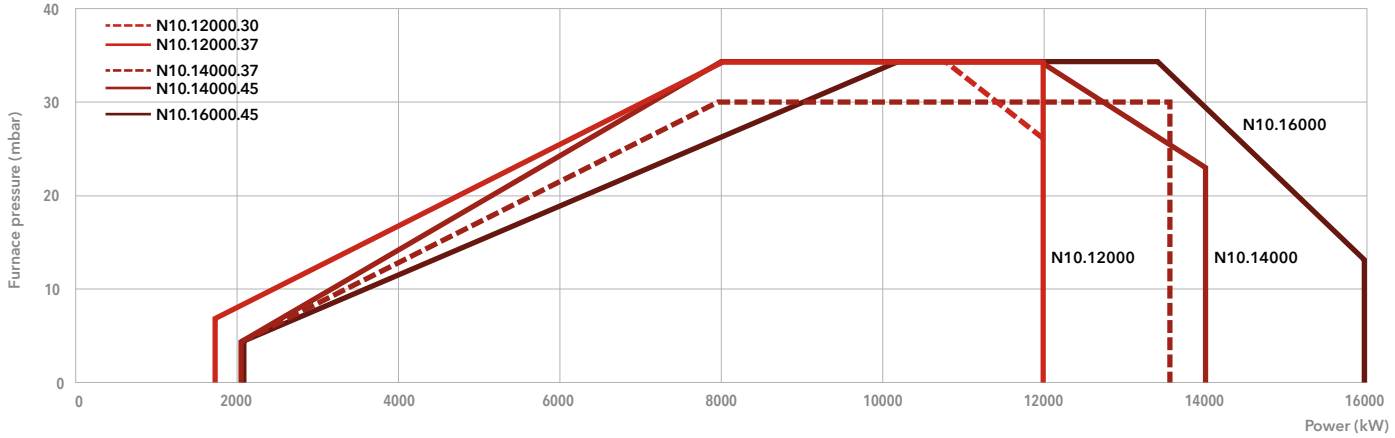
Low NOx Class 3

N10 GL-EUF

1500 … 16000 kW
Two stage progressive/modulating electronic in gas and in light oil

- **Fuels:** natural gas, Hi = 6,99 … 11,39 kWh/Nm³;
  light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676 in gas
  Low NOx class 3 (≤120 mg/kWh) according to EN267 in light oil
  Version with FGR System (≤30 mg/kWh) available on request
- **Protection level:** IP 41 (IP 54 as option)

TECHNICAL DATA



	N10.12000.30 GL-EUF	N10.12000.37 GL-EUF	N10.14000.37 GL-EUF	N10.14000.45 GL-EUF	N10.16000.45 GL-EUF
Operating range gas	1500* – 12000 kW (*: 1750 without FQ)	1500* – 12000 kW (*: 1750 without FQ)	2100 – 13500 kW	2100 – 14000 kW	2100 – 16000 kW
Operating range oil	3000 – 12000 kW	3000 – 12000 kW	3300 – 13500 kW	3300 – 14000 kW	3300 – 16000 kW
Gas connection	DN100	DN100	DN100	DN100	DN100
Fan motor	50/60 Hz – 30 kW	50/60 Hz – 37 kW	50/60 Hz – 37 kW	50/60 Hz – 45 kW	50/60 Hz – 45 kW
Pump	2200 l/h – 4 kW	2200 l/h – 4 kW	2200 l/h – 4 kW	2200 l/h – 4 kW	3600 l/h – 5,5 kW
Acoustic level	< 97 dB(A)	< 97 dB(A)	< 97 dB(A)	< 97 dB(A)	< 97 dB(A)
Complete burner code	on request	on request	on request	on request	on request

GAS TRAINS

DUNGS

Model	Code
d80	on request
d100	on request
d125	on request

SIEMENS

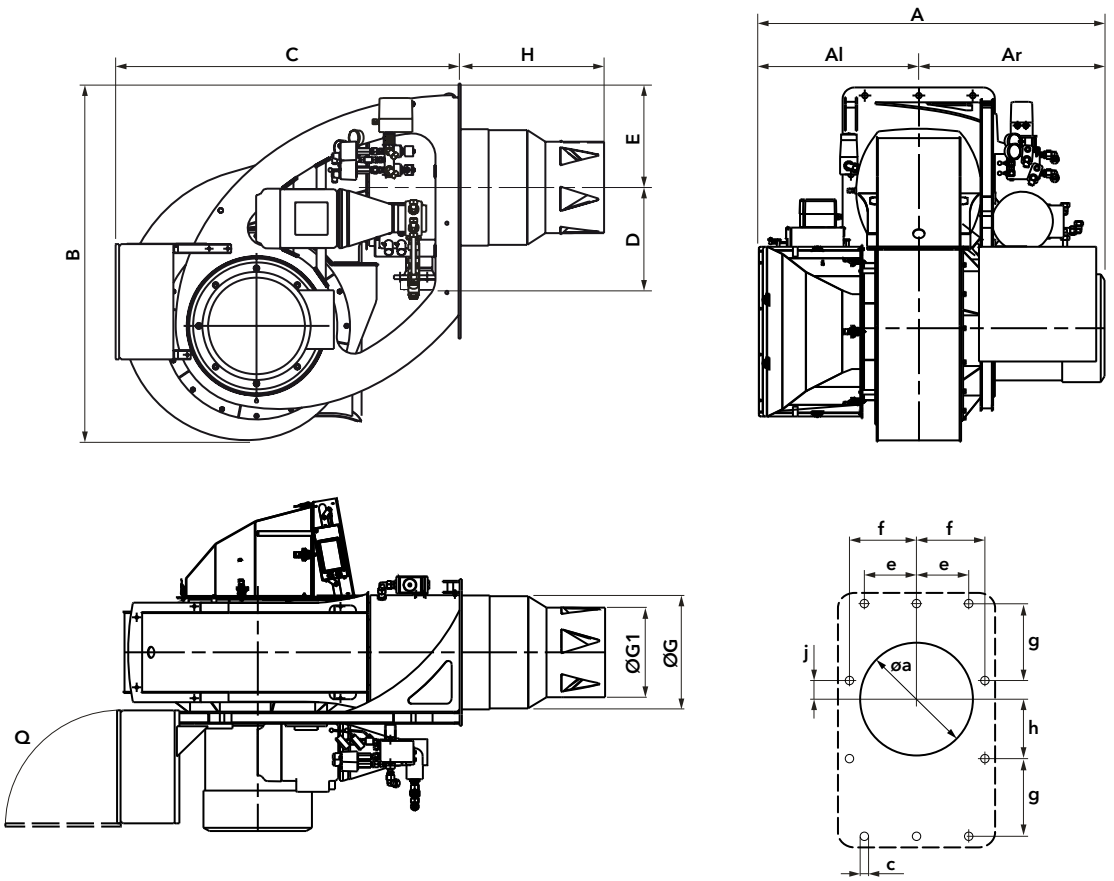
Model	Code
s80	3757394
s100	3757395
s125	3757396
s150	3757397

FILTERS

Model	Code
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209
FG-DN150	3757210

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 248

DIMENSIONS (mm)

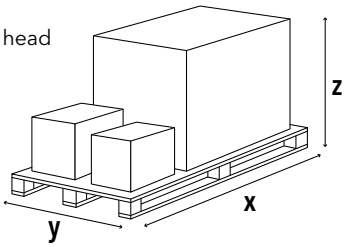


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H	L	Q	Øa	c	e	f	g	h	j
N10.12000.30 GL-EUF	1441	683	758	1545	1494	446	450	504	396	620*	180	800	525	M20	230	290	345	275	70
N10.12000.37 GL-EUF	1441	683	758	1545	1494	446	450	504	396	620*	180	800	525	M20	230	290	345	275	70
N10.14000.37 GL-EUF	1441	683	758	1545	1494	446	450	504	436	620*	180	800	525	M20	230	290	345	275	70
N10.14000.45 GL-EUF	1530	683	847	1545	1494	446	450	504	436	620*	180	800	525	M20	230	290	345	275	70
N10.16000.45 GL-EUF	1530	683	847	1545	1494	446	450	504	436	620*	180	800	525	M20	230	290	345	275	70

*: different length on request

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N10... GL-EUF	2200	1800	1900	1000

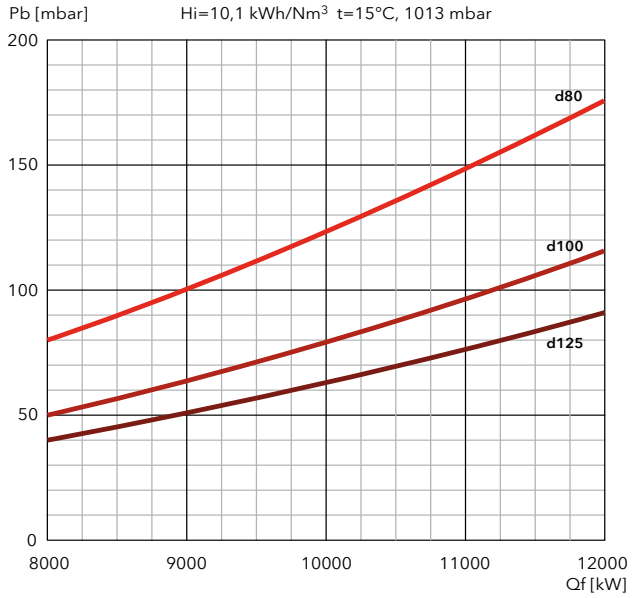
N10 GL-EUF

1500 ... 16000 kW
Two stage progressive/modulating electronic in gas and in light oil

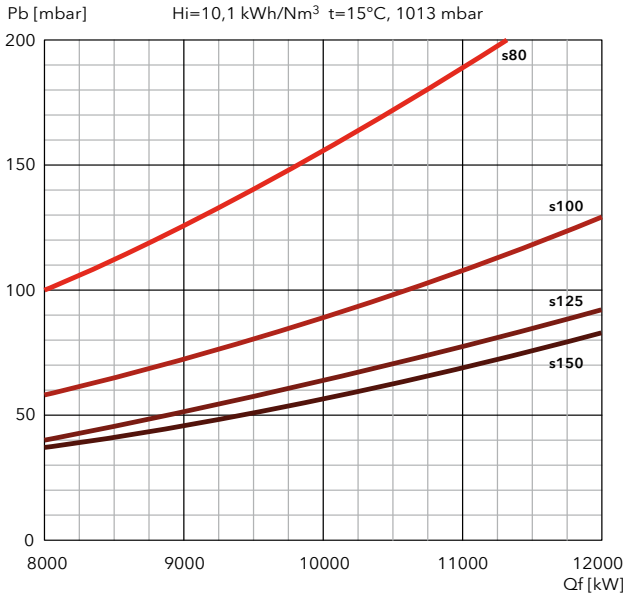
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N10.12000 GL-EUF

DUNGS

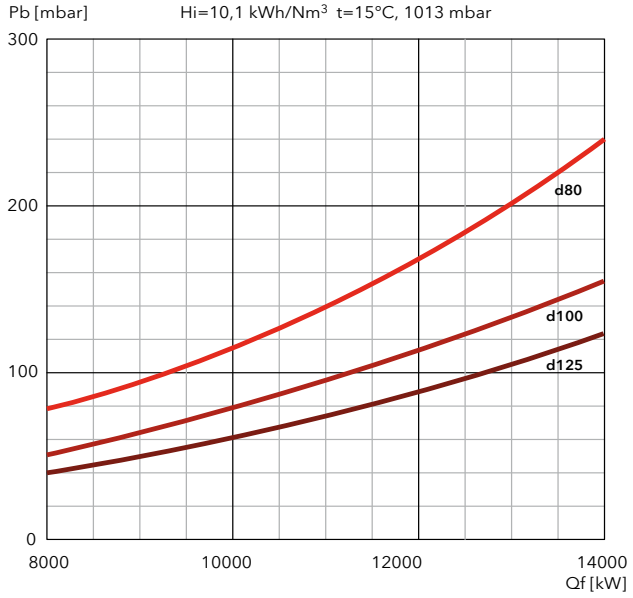


SIEMENS

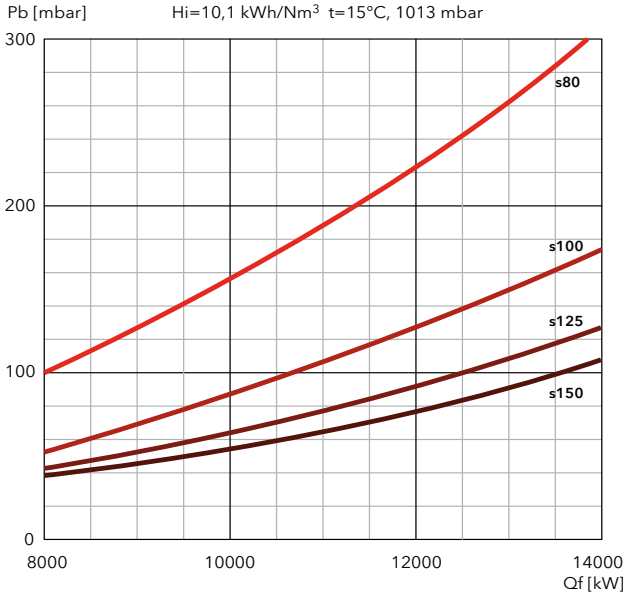


N10.14000 GL-EUF

DUNGS



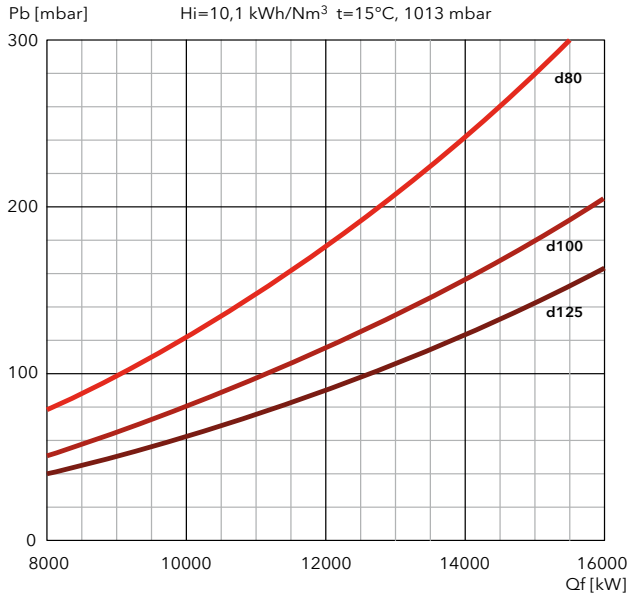
SIEMENS



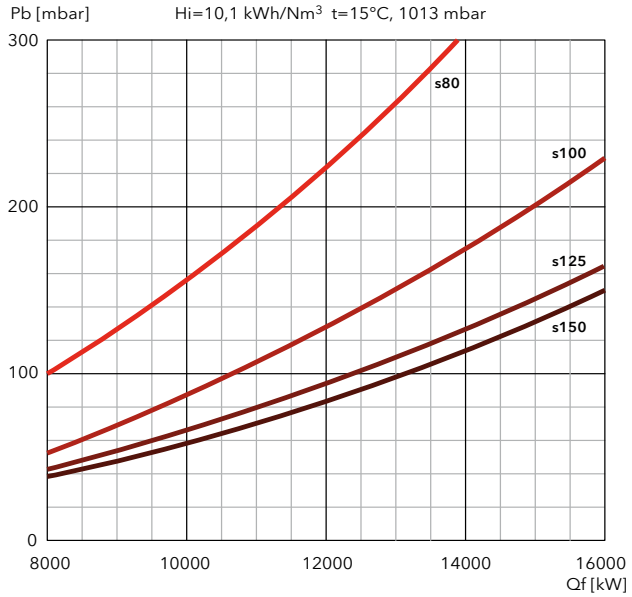
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N10.16000 GL-EUF

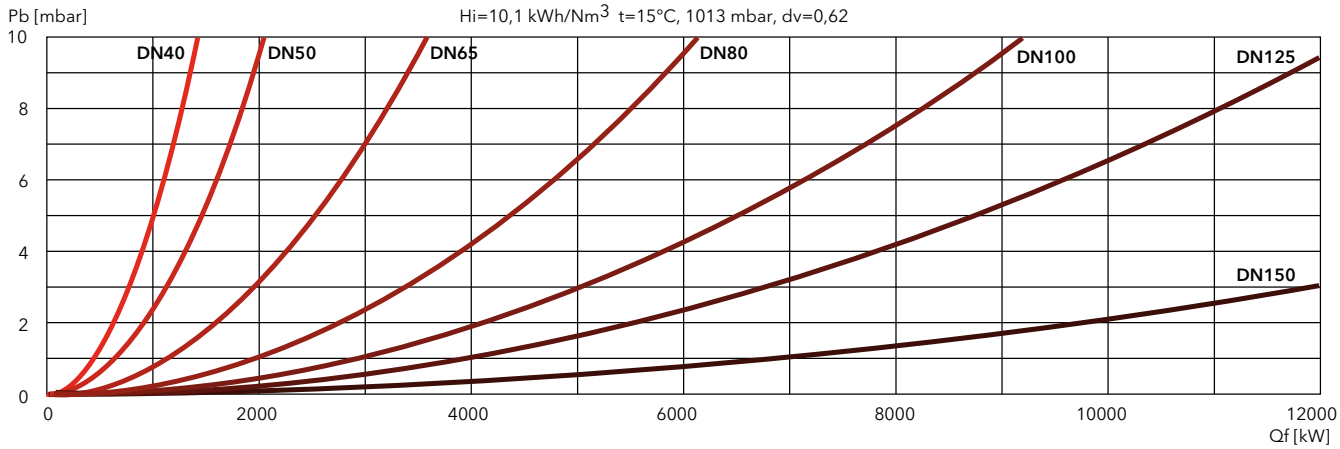
DUNGS



SIEMENS



FILTERS



N

GAS / LIGHT OIL

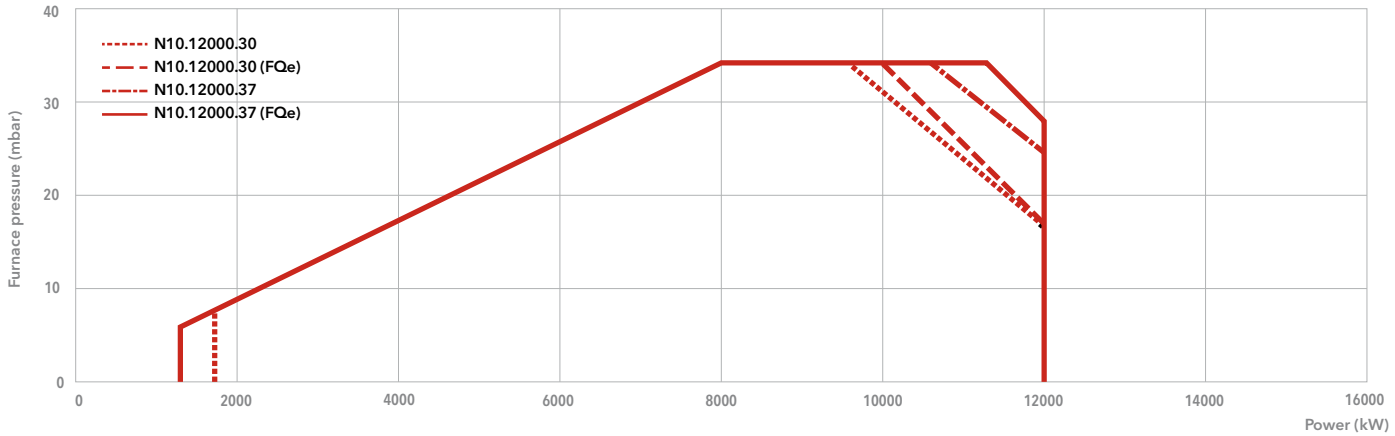
Low NOx Class 2

N10 GL-E

1300 … 12000 kW
Two stage progressive/modulating electronic in gas and in light oil

- **Fuels:** natural gas, Hi = 6,99 … 11,39 kWh/Nm³;
  light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas
  Low NOx class 2 (≤185 mg/kWh) according to EN267 in light oil
- **Protection level:** IP 41 (IP 54 as option)

TECHNICAL DATA



FQe = external frequency converter

	N10.12000.30 GL-E	N10.12000.37 GL-E
Operating range gas	1300* – 12000 kW (*: 1750 without FQ)	1300* – 12000 kW (*: 1750 without FQ)
Operating range oil	3600 – 12000 kW	3600 – 12000 kW
Gas connection	DN100	DN100
Fan motor	50/60 Hz – 30 kW	50/60 Hz – 37 kW
Pump	2700 l/h – 4 kW	2700 l/h – 4 kW
Acoustic level	< 97 dB(A)	< 97 dB(A)
Complete burner code	on request	on request

GAS TRAINS

DUNGS

Model	Code
d80	on request
d100	on request
d125	on request

SIEMENS

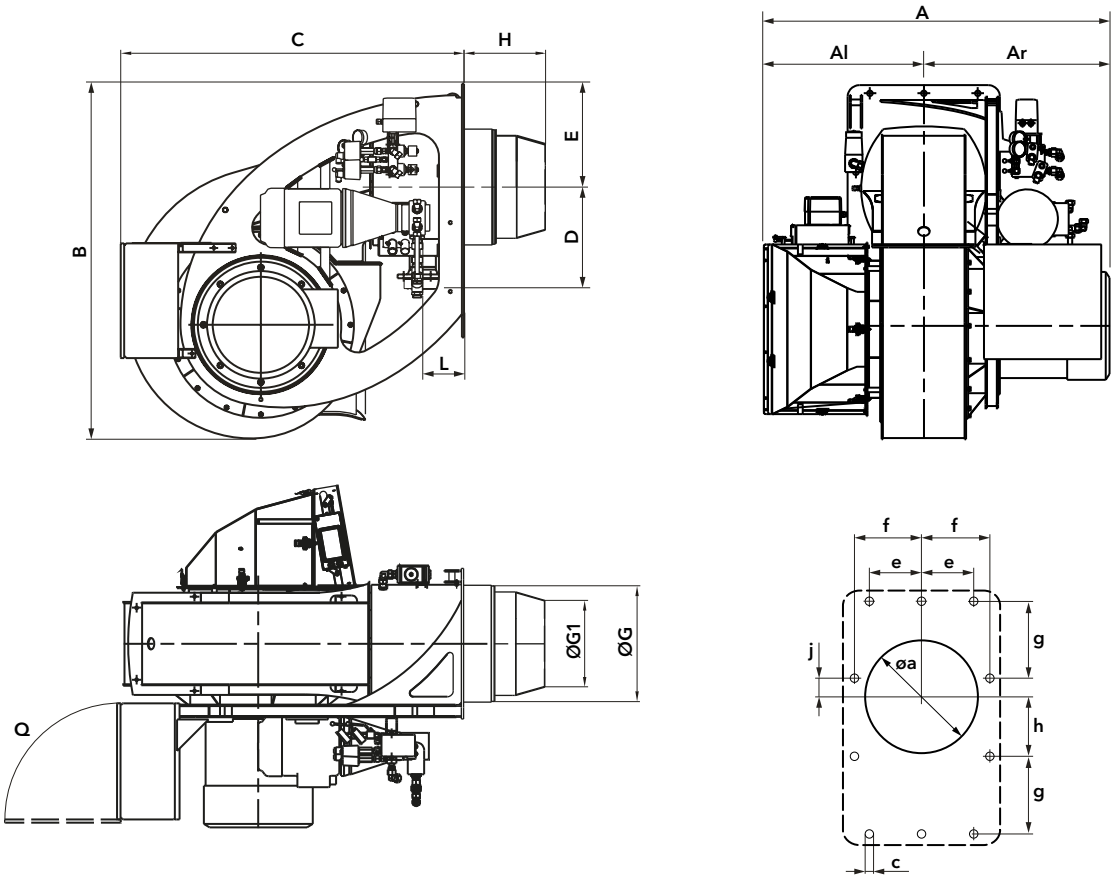
Model	Code
s80	3757394
s100	3757395
s125	3757396
s150	3757397

FILTERS

Model	Code
FG-DN80	3757201
FG-DN100	3757195
FG-DN125	3757209
FG-DN150	3757210

Pressure drops graphs: see following pages
Dimensions of gas trains and gas filters: see page 248

DIMENSIONS (mm)

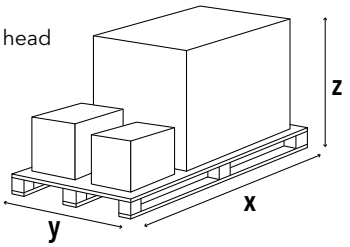


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H	L	Q	Øa	c	e	f	g	h	j
N10.12000.30 GL-E	1441	683	758	1545	1494	446	450	504	375	350*	180	800	525	M20	230	290	345	275	70
N10.12000.37 GL-E	1441	683	758	1545	1494	446	450	504	375	350*	180	800	525	M20	230	290	345	275	70

*: different length on request

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- gas train and filter
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N10... GL-E	2200	1800	1900	1000

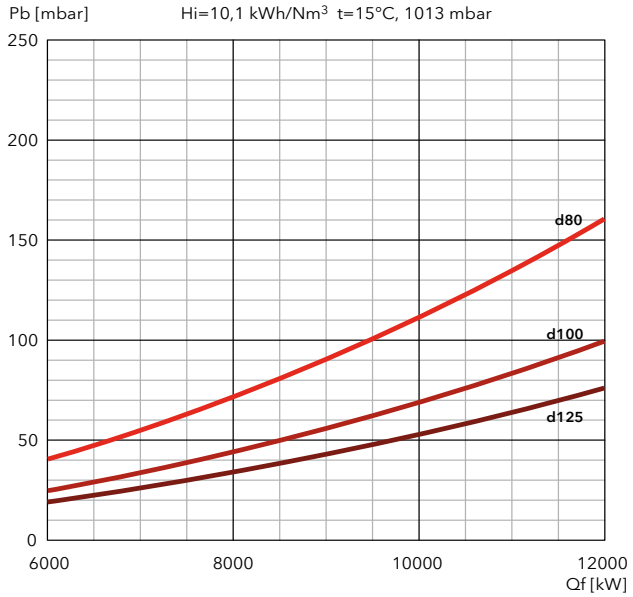
N10 GL-E

1300 ... 12000 kW
Two stage progressive/modulating electronic in gas and in light oil

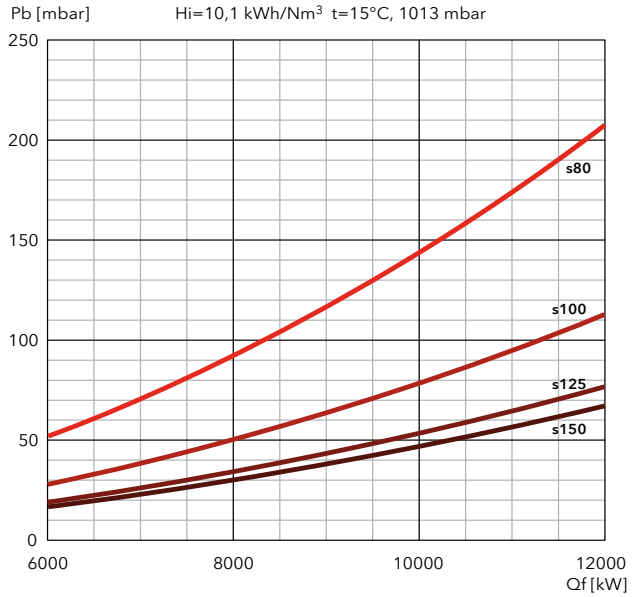
PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

N10.12000 GL-E

DUNGS

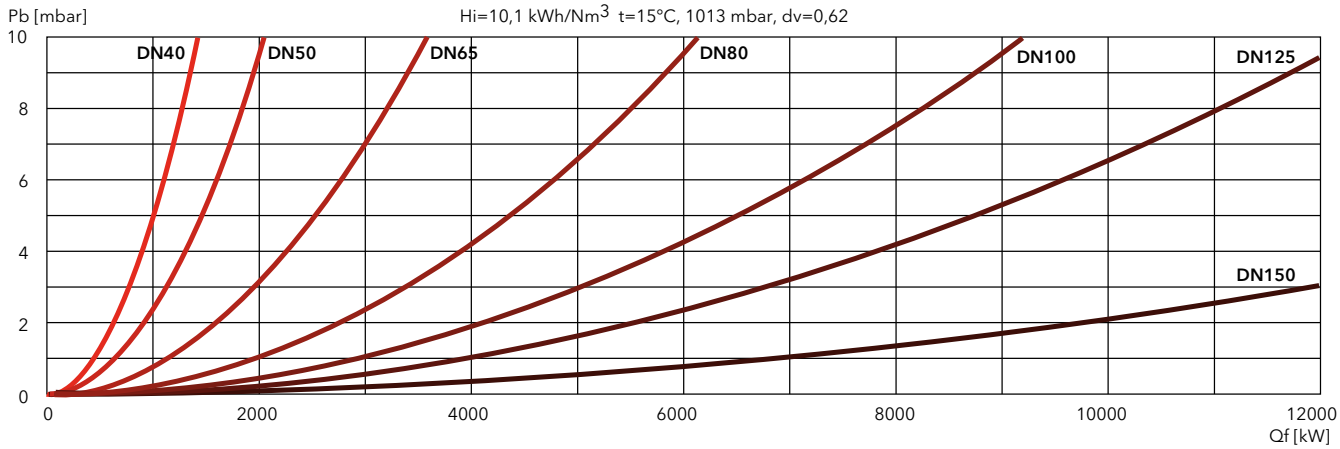


SIEMENS



PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

FILTERS



N

LIGHT OIL

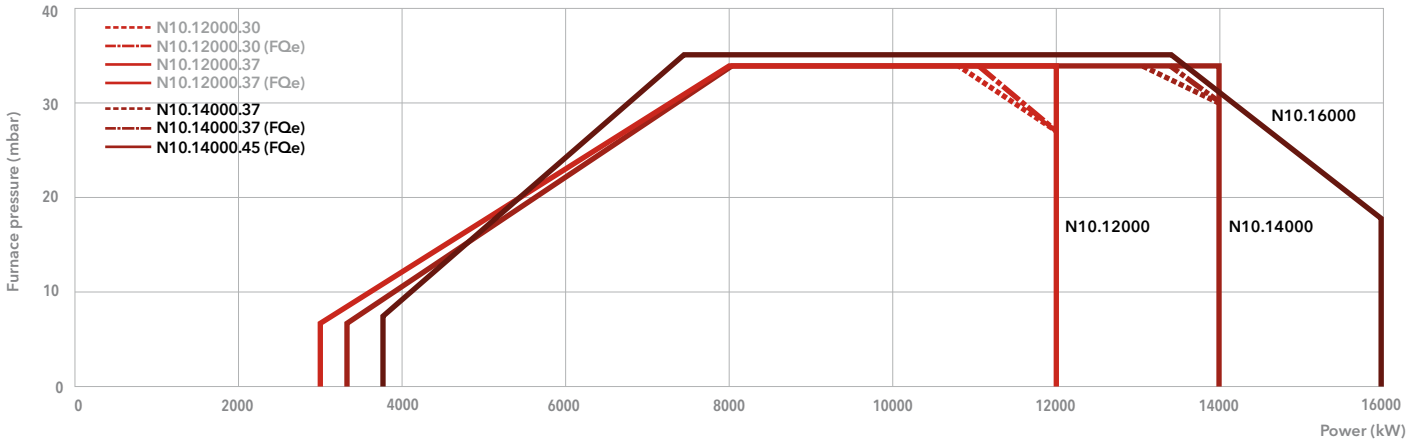
Low NOx Class 3

N10 L-EUF

3000 ... 16000 kW
Two stage progressive/modulating electronic

- **Fuels:** light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 3 (≤120 mg/kWh) according to EN267
- **Protection level:** IP 41 (IP 54 as option)

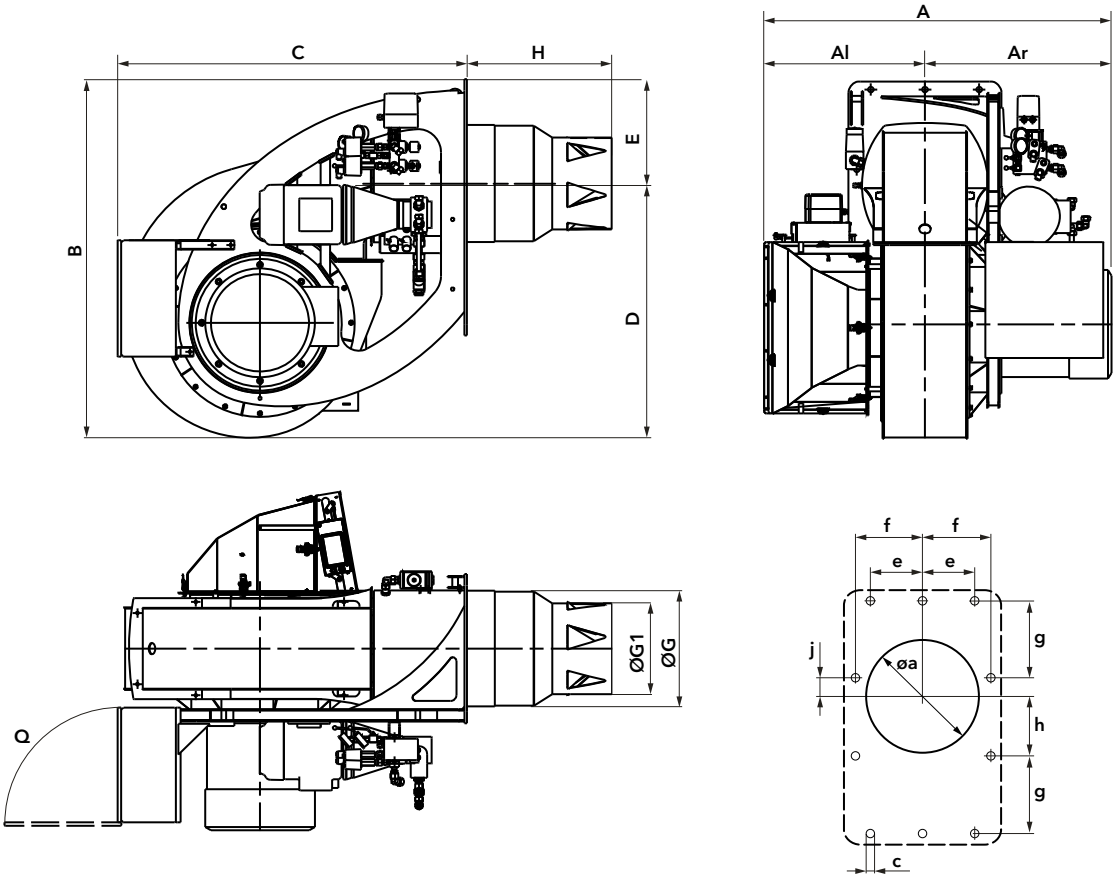
TECHNICAL DATA



FQe = external frequency converter

	N10.12000.30 L-EUF	N10.12000.37 L-EUF	N10.14000.37 L-EUF	N10.14000.45 L-EUF	N10.16000.45 L-EUF
Operating range	3000 – 12000 kW	3000 – 12000 kW	3300 – 14000 kW	3300 – 14000 kW	3800 – 16000 kW
Fan motor	50/60 Hz – 30 kW	50/60 Hz – 37 kW	50/60 Hz – 37 kW	50/60 Hz – 45 kW	50/60 Hz – 45 kW
Pump	2700 l/h – 4 kW	2700 l/h – 4 kW	2700 l/h – 4 kW	2700 l/h – 4 kW	2700 l/h – 4 kW
Acoustic level	< 97 dB(A)	< 97 dB(A)	< 97 dB(A)	< 97 dB(A)	< 97 dB(A)
Complete burner code	on request	on request	on request	on request	on request

DIMENSIONS (mm)

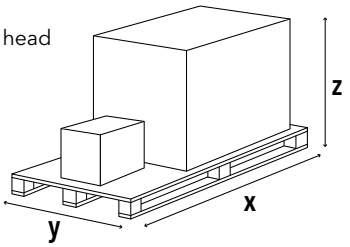


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H	Q	Øa	c	e	f	g	h	j
N10.12000.30 L-EUF	1441	683	758	1545	1494	1095	450	504	390	620*	800	525	M20	230	290	345	275	70
N10.12000.37 L-EUF	1441	683	758	1545	1494	1095	450	504	390	620*	800	525	M20	230	290	345	275	70
N10.14000.37 L-EUF	1441	683	758	1545	1494	1095	450	504	390	620*	800	525	M20	230	290	345	275	70
N10.14000.45 L-EUF	1530	683	847	1545	1494	1095	450	504	390	620*	800	525	M20	230	290	345	275	70
N10.16000.45 L-EUF	1530	683	847	1545	1494	1095	450	504	390	620*	800	525	M20	230	290	345	275	70

*: different length on request

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N10... L-EUF	2200	1800	1900	1000

N

LIGHT OIL

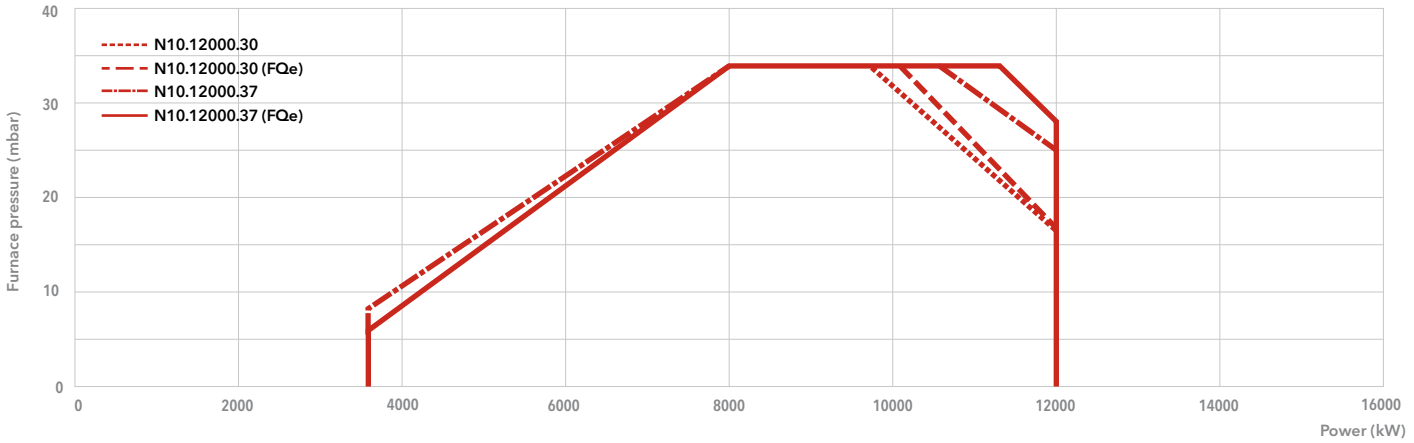
Low NOx Class 2

N10 L-E

3600 ... 12000 kW
Two stage progressive/modulating electronic

- **Fuels:** light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg
- **Emission class:** Low NOx class 2 (≤185 mg/kWh) according to EN267
- **Protection level:** IP 41 (IP 54 as option)

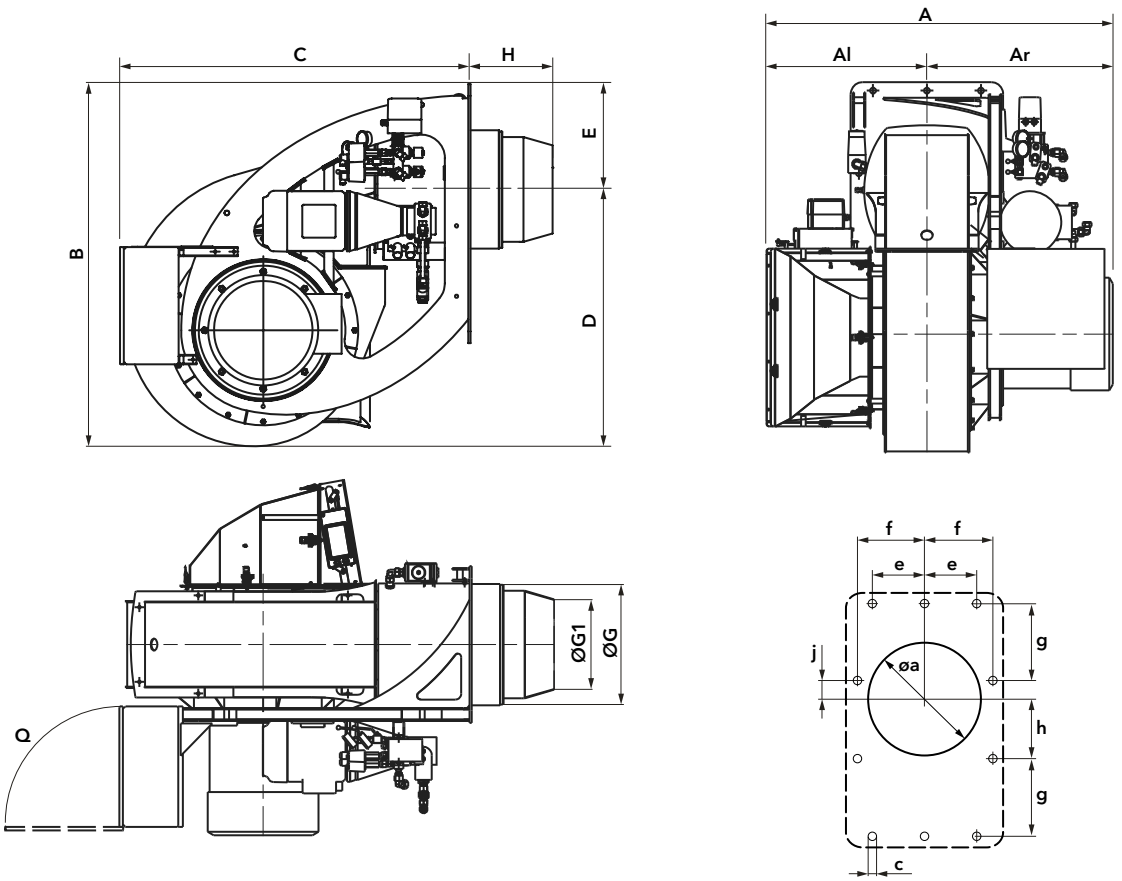
TECHNICAL DATA



FQe = external frequency converter

	N10.12000.30 L-E	N10.12000.37 L-E
Operating range	3600 – 12000 kW	3600 – 12000 kW
Fan motor	50/60 Hz – 30 kW	50/60 Hz – 37 kW
Pump	2 200 l/h – 4 kW	2 200 l/h – 4 kW
Acoustic level	< 97 dB(A)	< 97 dB(A)
Complete burner code	on request	on request

DIMENSIONS (mm)

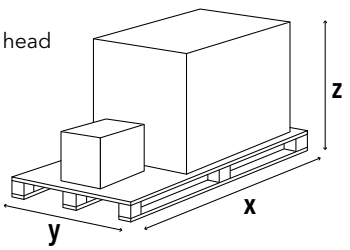


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H	Q	Øa	c	e	f	g	h	j
N10.12000.30 L-E	1480	685	795	1545	1494	446	450	504	369	350*	800	525	M20	230	290	345	275	70
N10.12000.37 L-E	1480	685	795	1545	1494	446	450	504	369	350*	800	525	M20	230	290	345	275	70

*: different length on request

PACKAGING

The burner is delivered on a pallet with:
- burner body with mounted combustion head
- boiler fixing accessories
- technical documentation



Model	Dimensions (mm)			Gross weight (kg)
	X	Y	Z	
N10... L-E	2200	1800	1900	1000

HO-TRON

MONOBLOCK BURNERS
FROM 68 TO 17000 kW
HEAVY OIL

HEAVY OIL BURNERS UP TO 17 MW

ELCO offers a wide range of heavy oil burners designed for traditional applications and industrial process applications.
The HO-TRON range offers several models available in different configurations with a power output covering a range from 68 kW to 17 MW.
All models are suitable to work with heavy oil up to 50°E at 50°C.

BURNER VERSIONS TO SUIT ANY NEED

In order to optimize the performance and the ease of use, the HO-TRON burners are available in the following versions:
• one stage, for HO-TRON 0 and HO-TRON 1, models up to 340 kW;
• two stages, up to the model HO-TRON 4;
• two stage progressive mechanical operation (up to 17 MW).

EASY MAINTENANCE SOLUTIONS

All models feature easy access to the combustion components in order to simplify the maintenance operations.
The maintenance activities are simplified also thanks to the sliding bar system, which allows easy access to the internal components, available on all models up to HO-TRON 6.

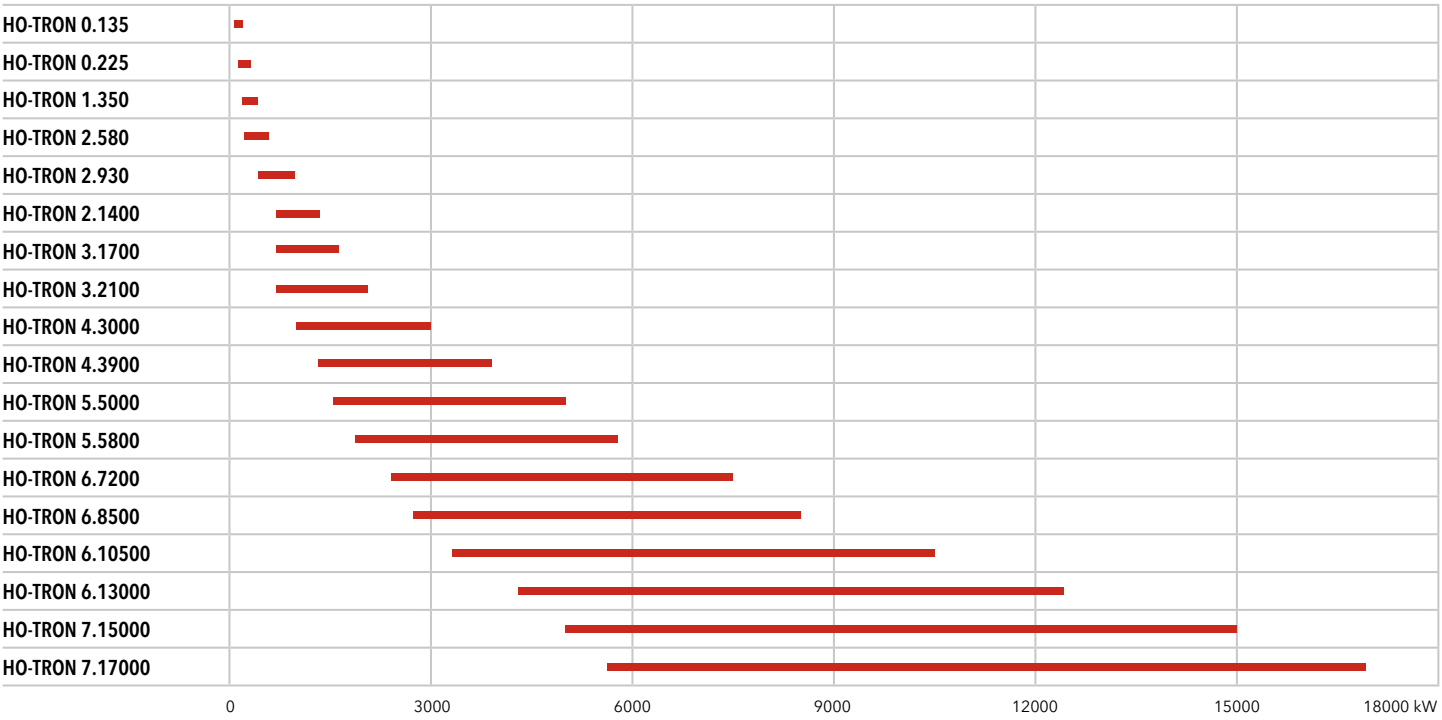
FLEXIBILITY AND CUSTOMIZATION

All HO-TRON burners are fitted with heavy oil electric heating system on board and integrated electrical panel complete with pre-heater management system.
Ring system components for oil preparation can be designed and supply on request.
For a large extent of applications customized solutions can be offered in order to meet plants requirements.

MAIN TECHNICAL FEATURES

- One stage, two stages and two stage progressive/modulating mechanical forced draught burners
- Electronic version available on request
- Fuel: heavy oil, viscosity 50°E at 50°C, Hi = 10,97 kWh/kg
- Two combustion head lengths available
- Pump mounted on the body up to model HO-TRON 6.8500 and separated motor-pump starting from model HO-TRON 6.10500
- Electrical heavy oil heater on board (oil supply to the burner at 80°C and 3 bar)
- Additional heaters on the pipes and the valves, into the pump and the nozzle holder
- Closing of the air flap on burner shut-down
- Complete control panel mounted on the burner with electrical equipment
- Products are in compliance with EN267 European standards and with the following directives:
  - 2014/35/UE Low Voltage Directive
  - 2014/30/UE EMC Directive
  - 2006/42/EC Machinery Directive
  - 2011/65/EU RoHS2 Directive

PRODUCT LIST

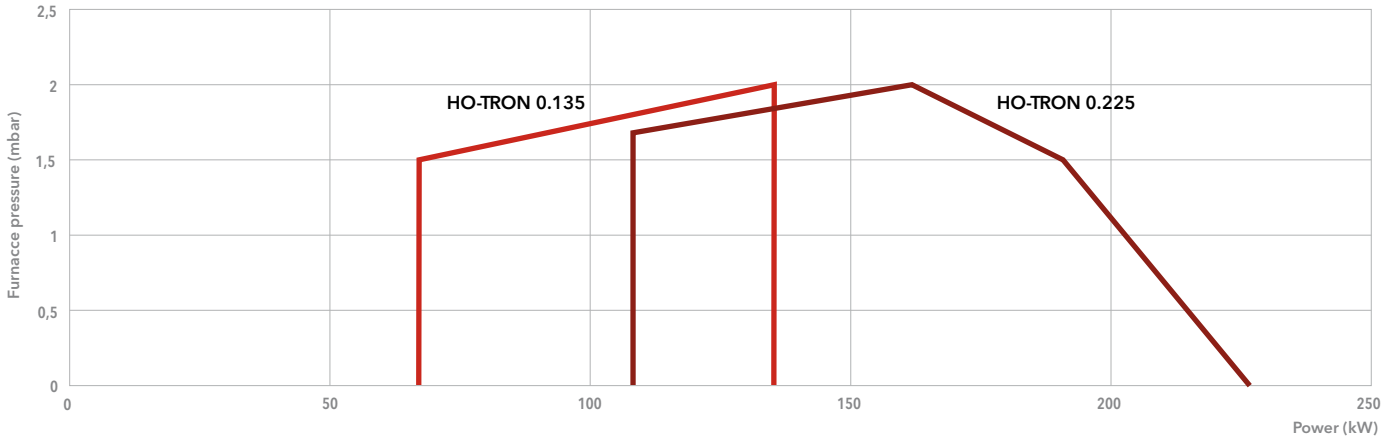


HO-TRON 0

68 ... 227 kW
One stage

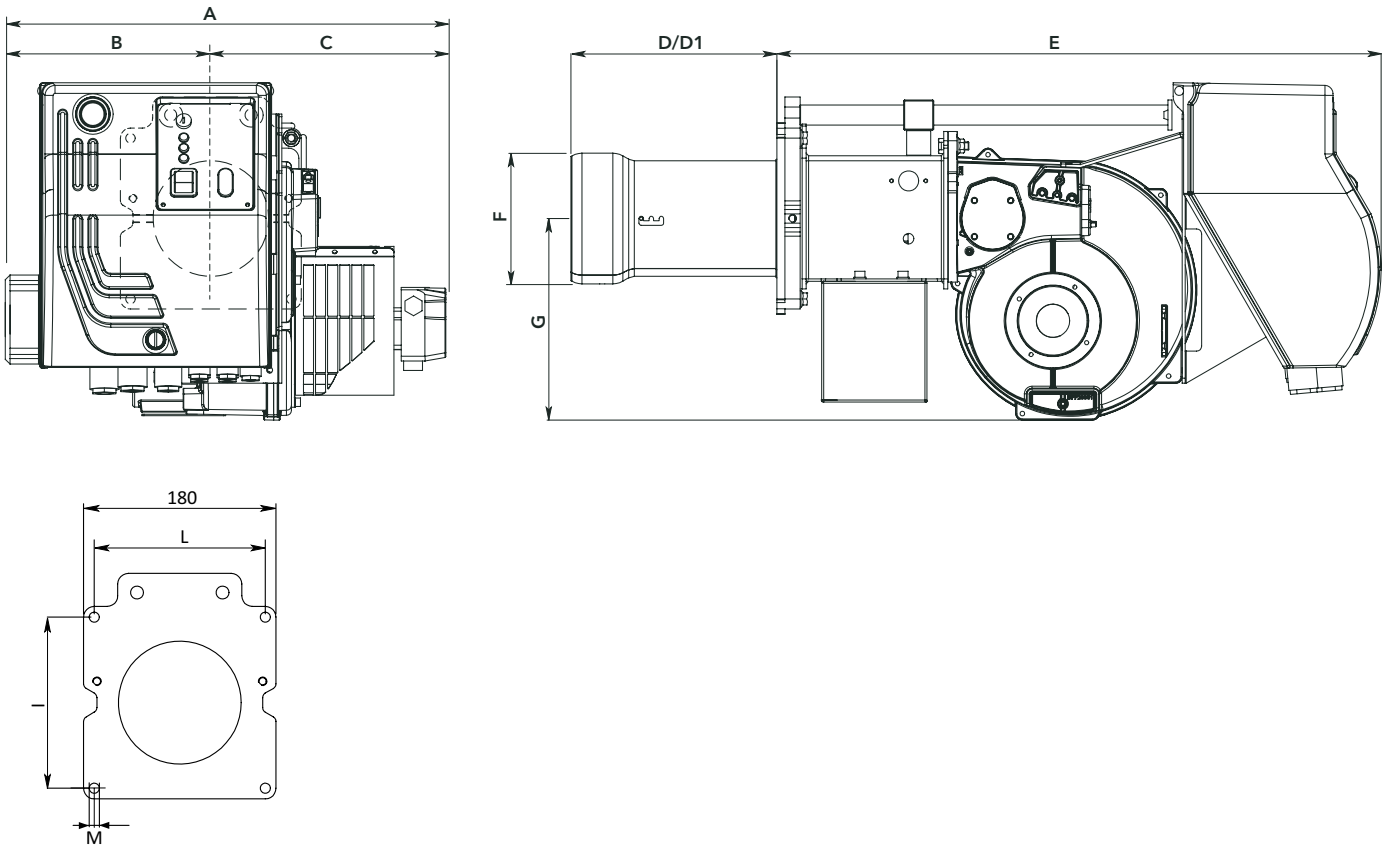
- **Fuel:** heavy oil, viscosity 50°E at 50°C, Hi = 10,5...11,5 kWh/kg
- **Protection level:** IP 42 (IP54 on request)

TECHNICAL DATA



	HO-TRON 0.135		HO-TRON 0.225	
Operating range	68 – 136 kW		108 – 227 kW	
Fuel flow	6 – 12 kg/h		9,5 – 20 kg/h	
Nozzles	according to required power		according to required power	
Control box	LMO 44		LMO 44	
Fan motor	2 800 rpm – 230 V – 50 Hz – 450 W		2 800 rpm – 230 V – 50 Hz – 450 W	
Pump	D67C		D67C	
Resistance on pre-heaters	2 x 650 W		3 x 650 W	
Head length	KN	KL	KN	KL
Complete burner code	**3142568**	**3142569**	**3142570**	**3142571**

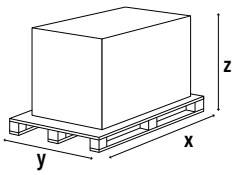
DIMENSIONS (mm)



Model	A	B	C	D	D1	E	F	G	I	L	M
HO-TRON 0.135	520	290	230	205	325	535	130	201	160	160	M8
HO-TRON 0.225	520	290	230	205	325	535	130	201	160	160	M8

PACKAGING

The complete burner with combustion head is delivered in a carton box with flexible hoses, boiler fixing accessories and technical documentation.



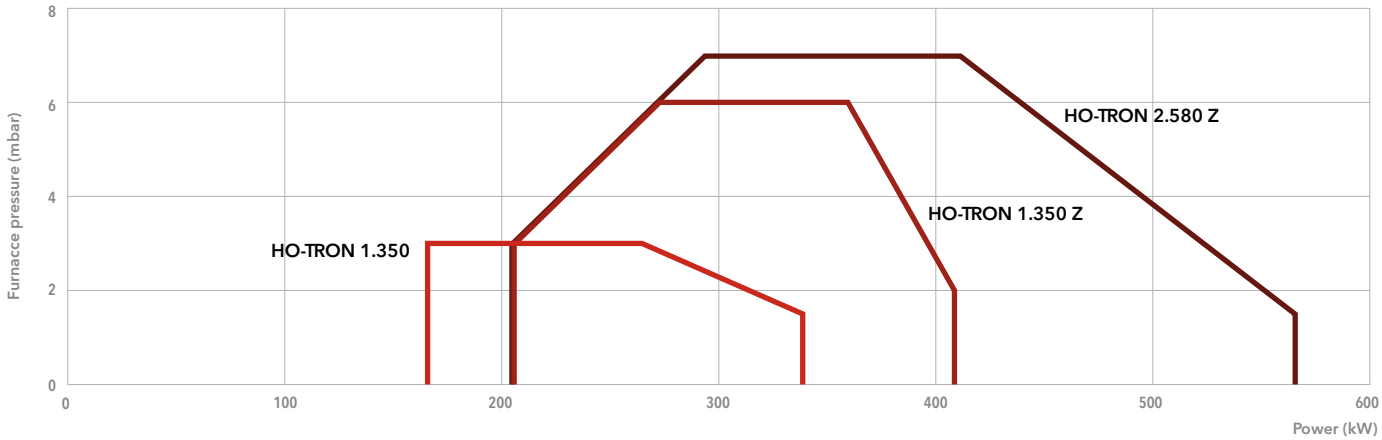
Model	Dimensions (mm)		
	X	Y	Z
HO-TRON 0.135	900	780	700
HO-TRON 0.225	900	780	700

HO-TRON 1 / HO-TRON 1 Z / HO-TRON 2 Z

170 ... 570 kW
One stage / Two stages

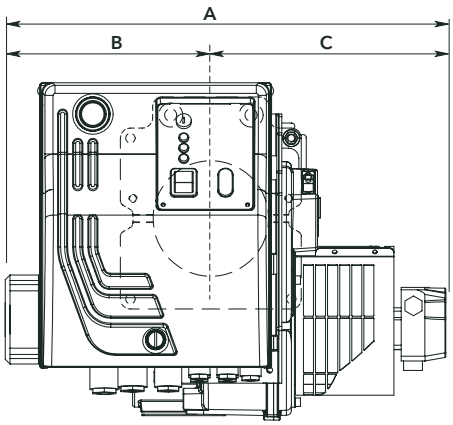
- **Fuel:** heavy oil, viscosity 50°E at 50°C, Hi = 10,5...11,5 kWh/kg
- **Protection level:** IP 40

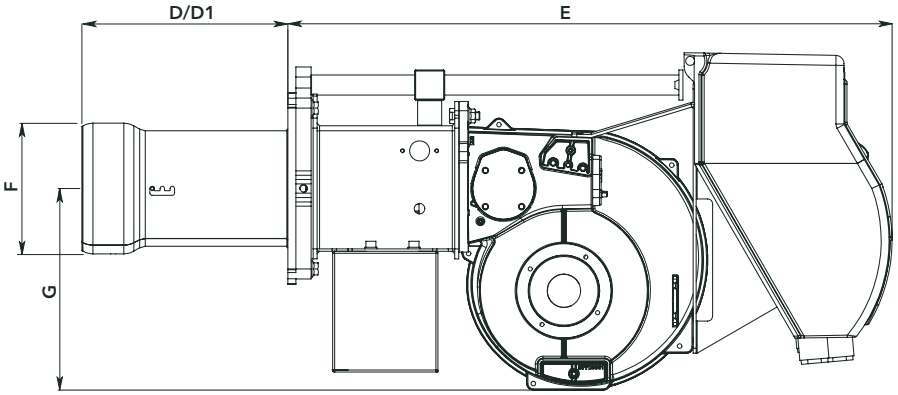
TECHNICAL DATA

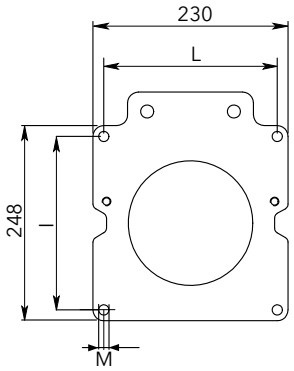


	HO-TRON 1.350		HO-TRON 1.350 Z		HO-TRON 2.580 Z	
Operating range	170 – 340 kW		205 – 410 kW		205 – 570 kW	
Fuel flow	15 – 30 kg/h		18 – 36 kg/h		18 – 50 kg/h	
Nozzles	according to required power		according to required power		according to required power	
Control box	LMO 44		LMO 44		LMO 44	
Fan motor	2 800 rpm – 230/400 V – 50 Hz – 740 W		2 800 rpm – 230/400 V – 50 Hz – 740 W		2 800 rpm – 230/400 V – 50 Hz – 1100 W	
Pump	E4 NC 1069		E4 NC 1069		E4 NC 1069	
Resistance on pre-heaters	3,9 kW		3,9 kW		3,9 kW	
Head length	KN	KL	KN	KL	KN	KL
Complete burner code	**on request**	**on request**	**on request**	**on request**	**3142671**	**on request**

DIMENSIONS (mm)



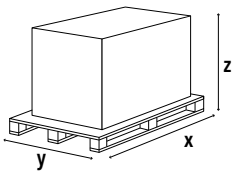




Model	A	B	C	D	D1	E	F	G	I	L	M
HO-TRON 1.350	562	302	260	205	325	653	160	280	185/200	185/200	M10
HO-TRON 1.350 Z	562	302	260	205	325	653	160	280	185/200	185/200	M10
HO-TRON 2.580 Z	562	302	260	205	325	653	160	280	185/200	185/200	M10

PACKAGING

The complete burner with combustion head is delivered in a carton box with flexible hoses, boiler fixing accessories and technical documentation.



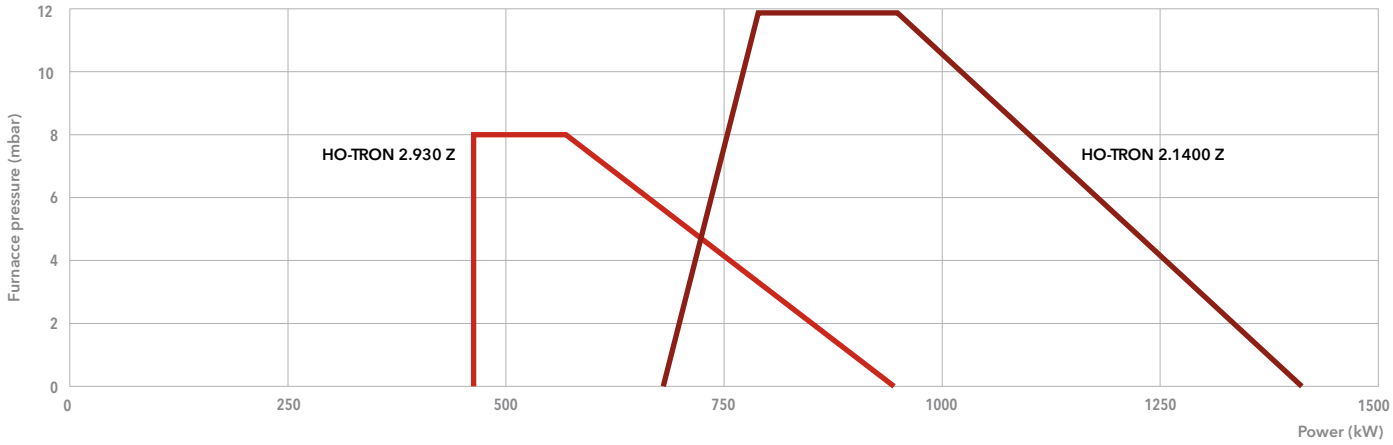
Model	Dimensions (mm)		
	X	Y	Z
HO-TRON 1.350	900	780	700
HO-TRON 1.350 Z	900	780	700
HO-TRON 2.580 Z	900	780	700

HO-TRON 2 Z

465 ... 1395 kW
Two stages

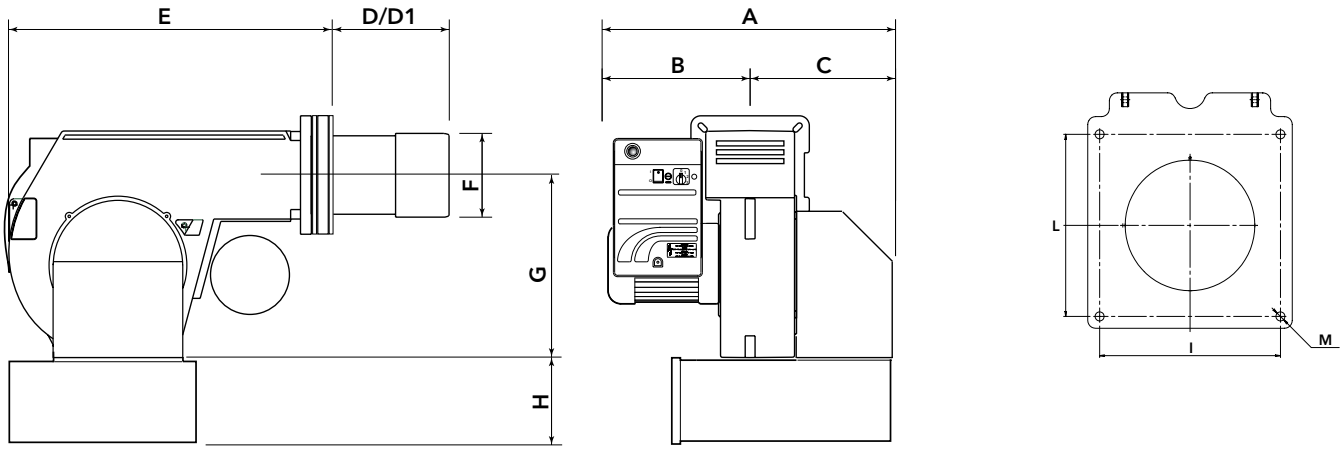
- **Fuel:** heavy oil, viscosity 50°E at 50°C, Hi = 10,5...11,5 kWh/kg
- **Protection level:** IP 42 (IP54 on request)

TECHNICAL DATA



	HO-TRON 2.930 Z		HO-TRON 2.1400 Z	
Operating range	465 – 930 kW		682 – 1395 kW	
Fuel flow	41 – 82 kg/h		60 – 122 kg/h	
Nozzles	according to required power		according to required power	
Control box	LMO 44		LMO 44	
Fan motor	2800 rpm – 230 V – 50 Hz – 1,5 kW		2800 rpm – 230 V – 50 Hz – 2,2 kW	
Pump	E4 NC 1069		E4 NC 1069	
Resistance on pre-heaters	4,65 kW		7,05 kW	
Head length	KN	KL	KN	KL
Complete burner code	**3142672**	**3142215**	**3142673**	**3143193**

DIMENSIONS (mm)

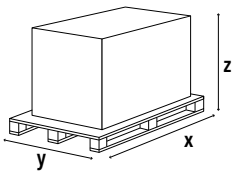


Model	A	B	C	D	D1	E	F	G	H	I	L	M
HO-TRON 2.930 Z	758	388	370	170	310	600	185	390	210*	190	190	M10
HO-TRON 2.1400 Z	758	388	370	170	310	600	185	390	210*	190	190	M10

* optional silencer

PACKAGING

The complete burner with combustion head is delivered in a carton box with flexible hoses, boiler fixing accessories and technical documentation.



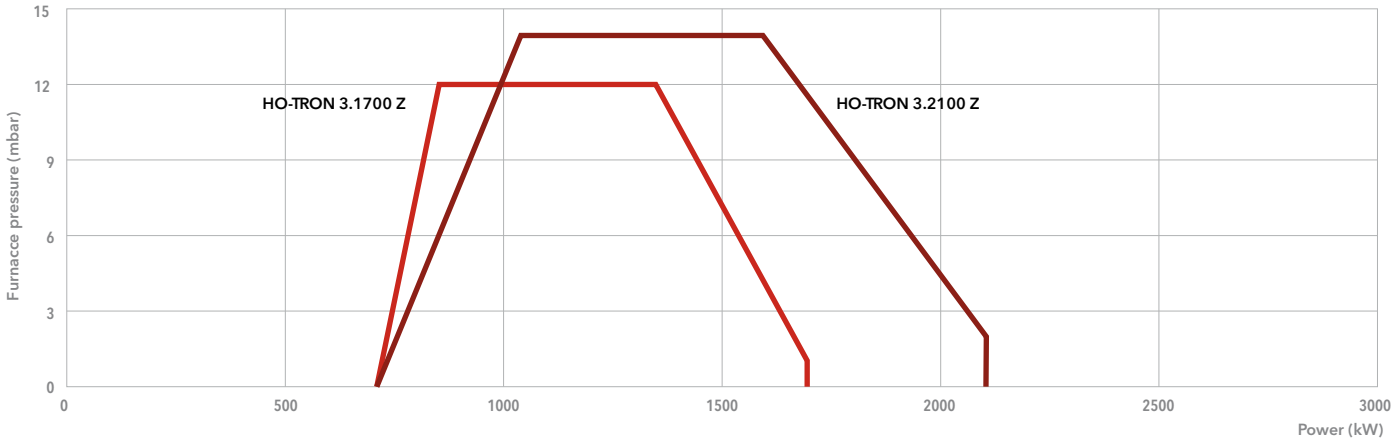
Model	Dimensions (mm)		
	X	Y	Z
HO-TRON 2.930 Z	1100	780	700
HO-TRON 2.1400 Z	1100	780	700

HO-TRON 3 Z

682 ... 2093 kW
Two stages

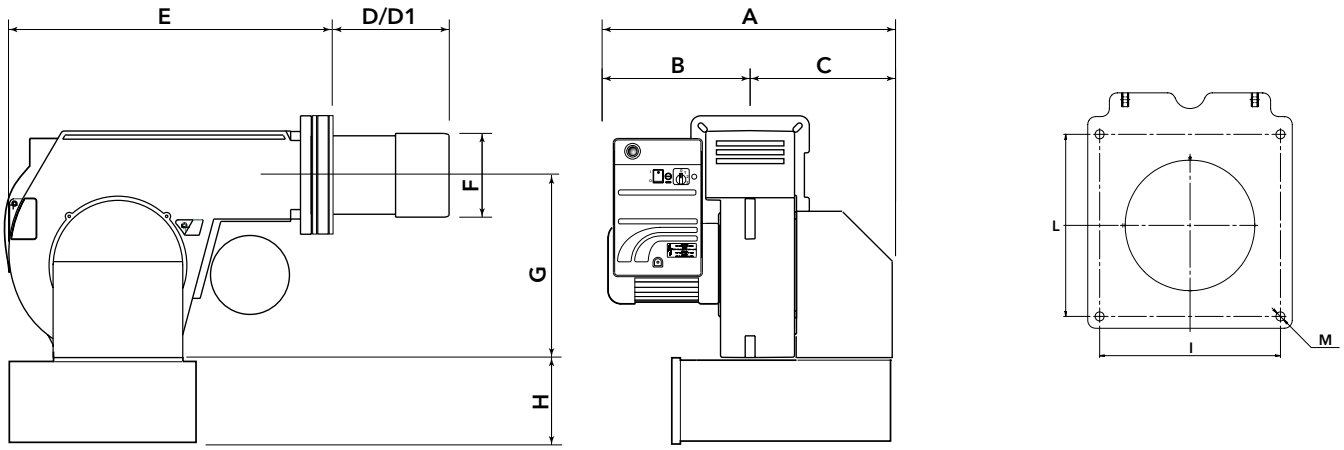
- **Fuel:** heavy oil, viscosity 50°E at 50°C, Hi = 10,5…11,5 kWh/kg
- **Protection level:** IP 42 (IP54 on request)

TECHNICAL DATA



	HO-TRON 3.1700 Z		HO-TRON 3.2100 Z	
Operating range	682 – 1700 kW		682 – 2093 kW	
Fuel flow	60 – 148 kg/h		60 – 184 kg/h	
Nozzles	according to required power		according to required power	
Control box	LMO 44		LMO 44	
Fan motor	2800 rpm – 230/400 V – 50 Hz – 3 kW		2800 rpm – 230/400 V – 50 Hz – 4 kW	
Pump	E6 NC 1069		E6 NC 1069	
Resistance on pre-heaters	9 kW		10,5 kW	
Head length	KN	KL	KN	KL
Complete burner code	**3142675**	**3143194**	**3142441**	**3142677**

DIMENSIONS (mm)

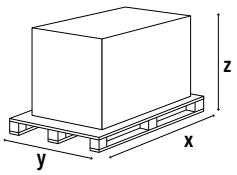


Model	A	B	C	D	D1	E	F	G	H*	I	L	M
HO-TRON 3.1700 Z	920	450	470	280	480	710	250	420	260	315	315	M14
HO-TRON 3.2100 Z	920	450	470	280	480	710	270	420	260	315	315	M14

* optional silencer

PACKAGING

The complete burner with combustion head is delivered in a carton box with flexible hoses, boiler fixing accessories and technical documentation.



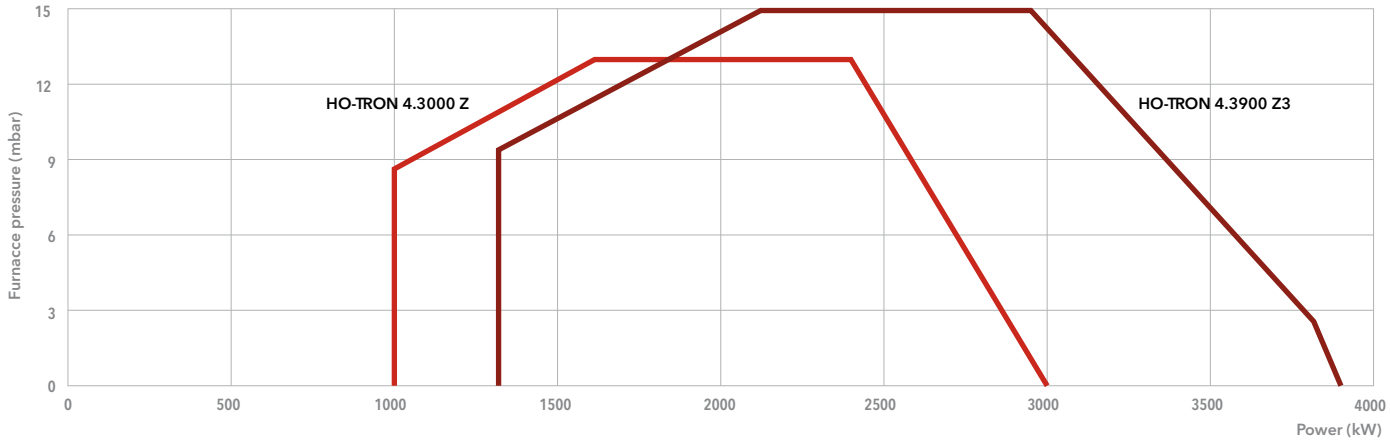
Model	Dimensions (mm)		
	X	Y	Z
HO-TRON 3.1700 Z	1370	1140	950
HO-TRON 3.2100 Z	1370	1140	950

HO-TRON 4 Z/Z3

1000 ... 3900 kW
Two stages

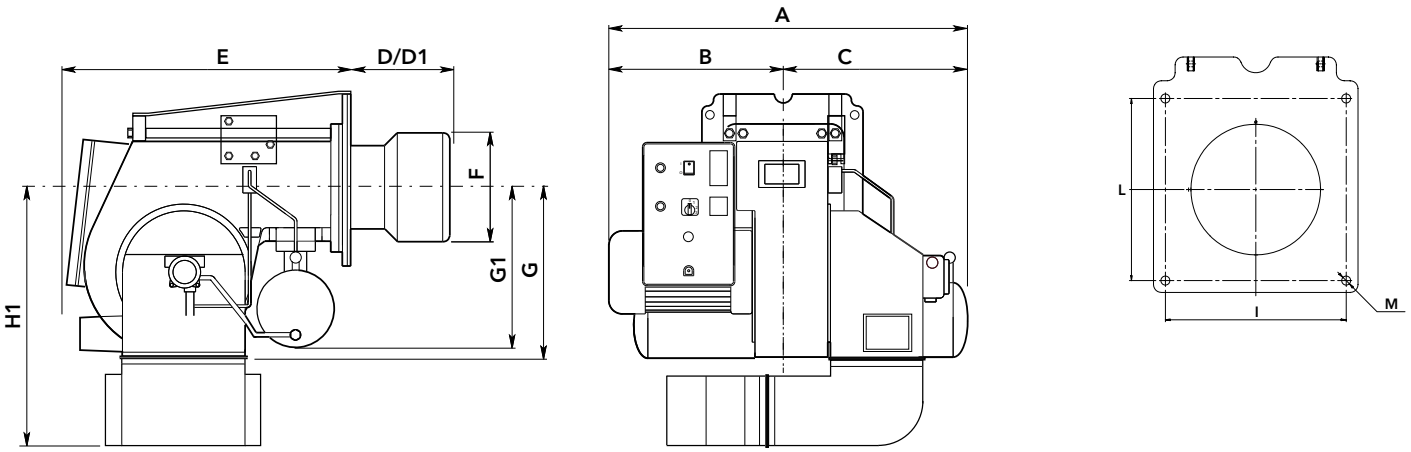
- **Fuel:** heavy oil, viscosity 50°E at 50°C, Hi = 10,5...11,5 kWh/kg
- **Protection level:** IP 42 (IP54 on request)

TECHNICAL DATA



	HO-TRON 4.3000 Z		HO-TRON 4.3900 Z3	
Operating range	1000 – 3000 kW		1300 – 3900 kW	
Fuel flow	88,5 – 264 kg/h		115 – 343 kg/h	
Nozzles	according to required power		according to required power	
Control box	LMO 44		LMO 44	
Fan motor	2800 rpm – 230/400 V – 50 Hz – 7,5 kW		2800 rpm – 230/400 V – 50 Hz – 9 kW	
Pump	E7 NC 1069		E7 NC 1069	
Resistance on pre-heaters	18 kW		21 kW	
Head length	KN	KL	KN	KL
Complete burner code	**3142678**	**3142679**	**3142680**	**3142681**

DIMENSIONS (mm)

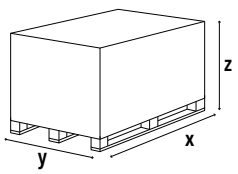


Model	A	B	C	D	D1	E	F	G	G1	H1*	I	L	M
HO-TRON 4.3000 Z	1205	603	602	350	600	925	290	470	430	746	400	400	M16
HO-TRON 4.3900 Z3	1205	603	602	350	600	925	320	470	430	746	400	400	M16

* optional silencer

PACKAGING

The complete burner with combustion head is delivered in a single wooden box with flexible hoses, boiler fixing accessories and technical documentation.



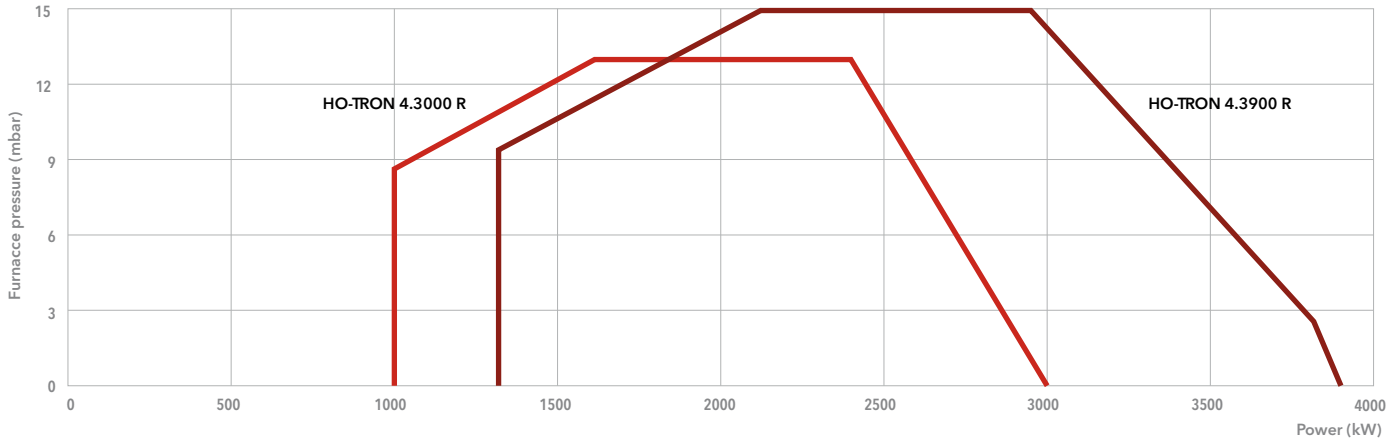
Model	Dimensions (mm)		
	X	Y	Z
HO-TRON 4.3000 Z	1580	1580	1050
HO-TRON 4.3900 Z3	1580	1580	1050

HO-TRON 4 R

1000 ... 3900 kW
Two stage progressive/modulating mechanical

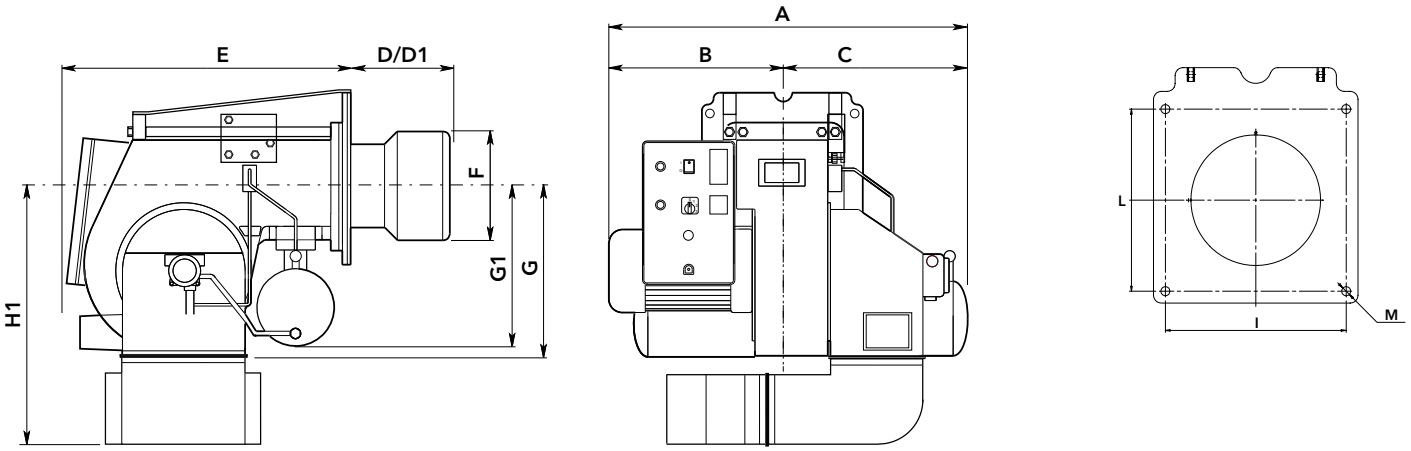
- **Fuel:** heavy oil, viscosity 50°E at 50°C, Hi = 10,5...11,5 kWh/kg
- **Protection level:** IP 42 (IP54 on request)

TECHNICAL DATA



	HO-TRON 4.3000 R		HO-TRON 4.3900 R	
Operating range	1000 – 3000 kW		1300 – 3900 kW	
Fuel flow	88,5 – 264 kg/h		115 – 343 kg/h	
Nozzles	according to required power		according to required power	
Control box	LAL 1.25		LAL 1.25	
Fan motor	2800 rpm – 230/400 V – 50 Hz – 7,5 kW		2800 rpm – 230/400 V – 50 Hz – 9 kW	
Pump	TA 3C		TA 3C	
Resistance on pre-heaters	18 kW		21 kW	
Head length	KN	KL	KN	KL
Complete burner code	**on request**	**on request**	**on request**	**on request**

DIMENSIONS (mm)

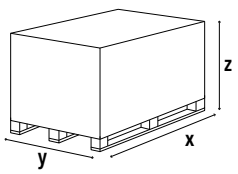


Model	A	B	C	D	D1	E	F	G	G1	H1*	I	L	M
HO-TRON 4.3000 R	1205	603	602	350	600	925	290	470	430	746	400	400	M16
HO-TRON 4.3900 R	1205	603	602	350	600	925	320	470	430	746	400	400	M16

* optional silencer

PACKAGING

The complete burner with combustion head is delivered in a single wooden box with flexible hoses, boiler fixing accessories and technical documentation.



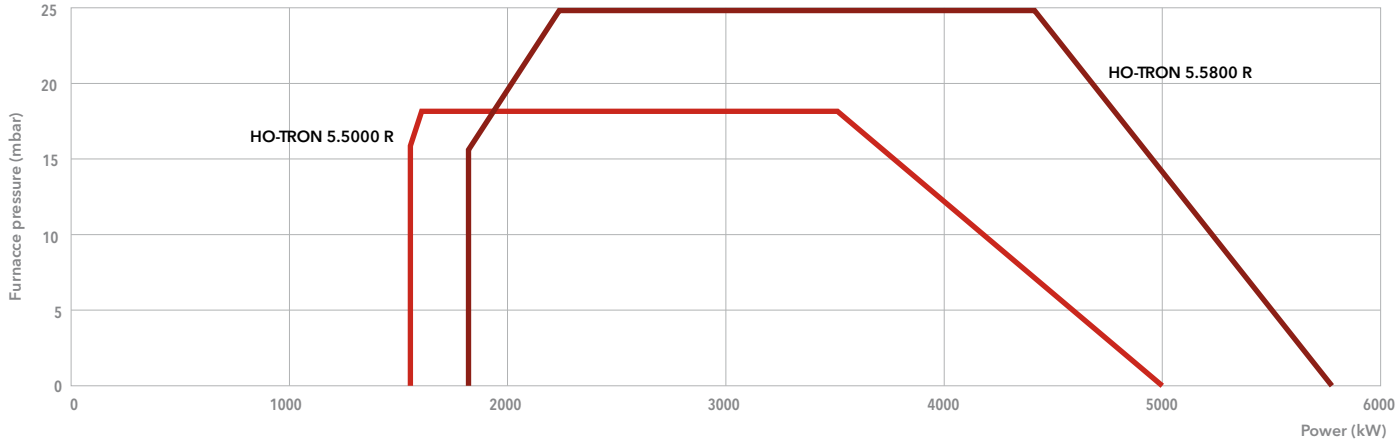
Model	Dimensions (mm)		
	X	Y	Z
HO-TRON 4.3000 R	1580	1580	1050
HO-TRON 4.3900 R	1580	1580	1050

HO-TRON 5 R

1578 ... 5800 kW
Two stage progressive/modulating mechanical

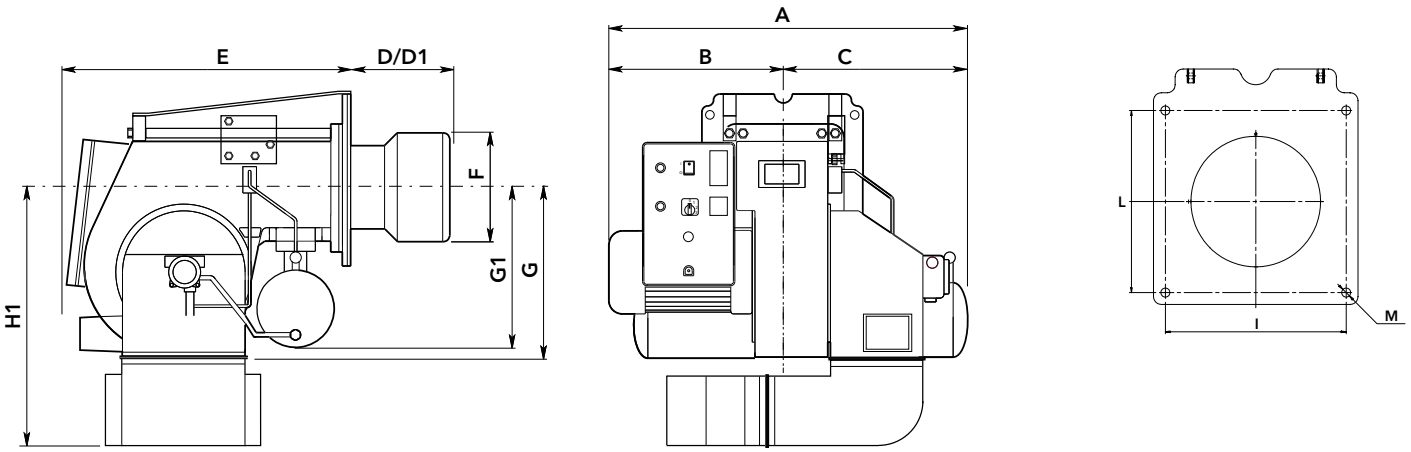
- **Fuel:** heavy oil, viscosity 50°E at 50°C, Hi = 10,5...11,5 kWh/kg
- **Protection level:** IP 42 (IP54 on request)

TECHNICAL DATA



	HO-TRON 5.5000 R		HO-TRON 5.5800 R	
Operating range	1578 – 5000 kW		1795 – 5800 kW	
Fuel flow	140 – 440 kg/h		159 – 510 kg/h	
Nozzles	according to required power		according to required power	
Control box	LAL 1.25		LAL 1.25	
Fan motor	2800 rpm – 230/400 V – 50 Hz – 11 kW		2800 rpm – 230/400 V – 50 Hz – 15 kW	
Pump	TA 4C		TA 4C	
Resistance on pre-heaters	24 kW		24 kW	
Head length	KN	KL	KN	KL
Complete burner code	**3143183**	**on request**	**on request**	**on request**

DIMENSIONS (mm)

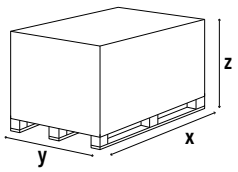


Model	A	B	C	D	D1	E	F	G	G1	H1	I	L	M
HO-TRON 5.5000 R	1300	610	690	370	670	990	320	570	480	965	460	460	M16
HO-TRON 5.5800 R	1300	610	690	370	670	990	320	570	480	965	460	460	M16

* optional silencer

PACKAGING

The complete burner with combustion head is delivered in a single wooden box with flexible hoses, boiler fixing accessories and technical documentation.



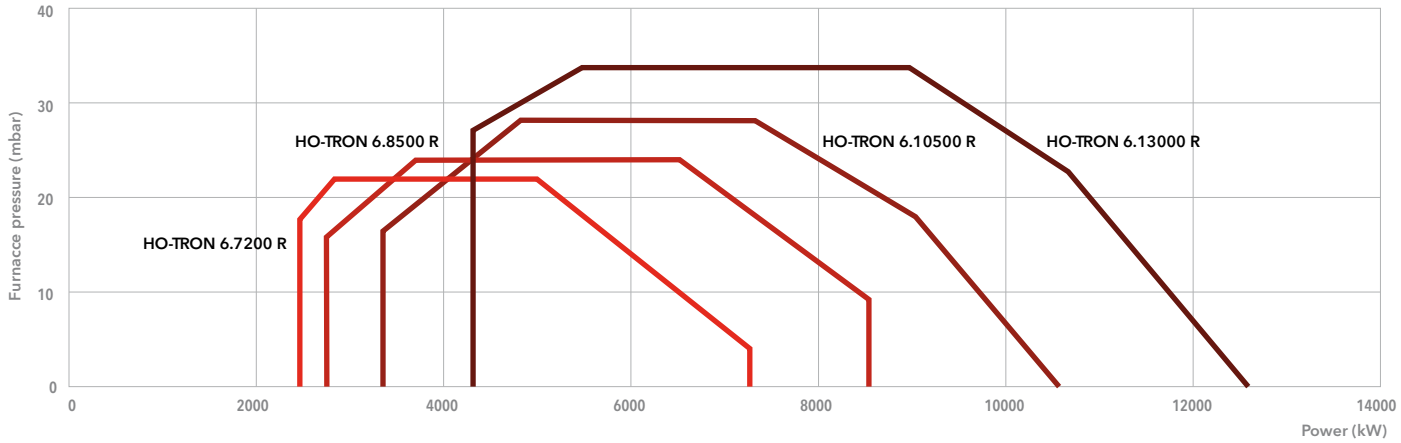
Model	Dimensions (mm)		
	X	Y	Z
HO-TRON 5.5000 R	1580	1580	1050
HO-TRON 5.5800 R	1580	1580	1050

HO-TRON 6 R

2417 ... 12500 kW
Two stage progressive/modulating mechanical

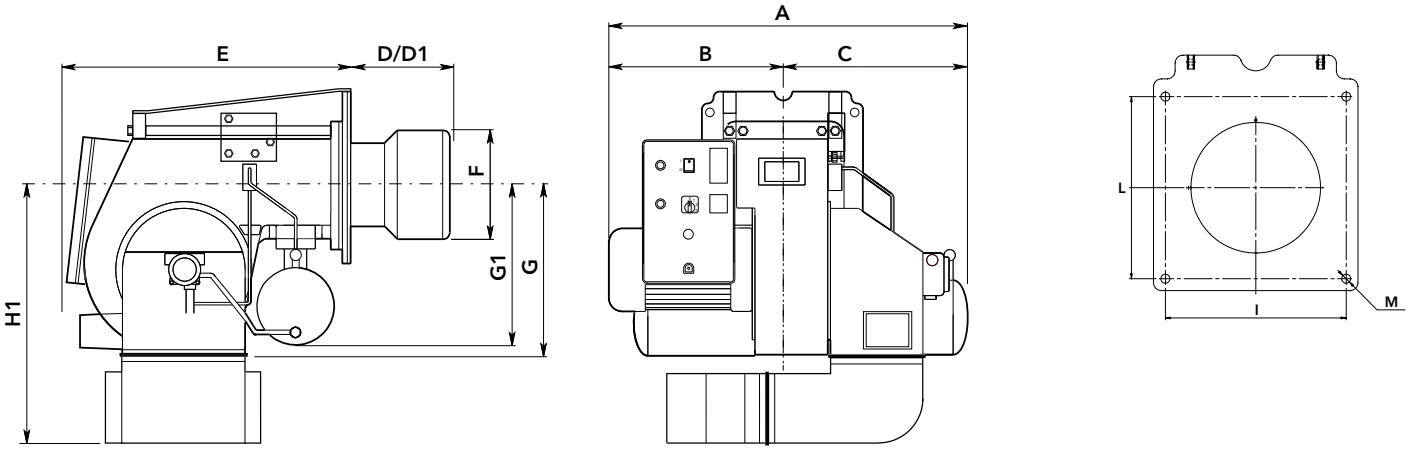
- **Fuel:** heavy oil, viscosity 50°E at 50°C, Hi = 10,5...11,5 kWh/kg
- **Protection level:** IP 42 (IP54 on request)

TECHNICAL DATA



	HO-TRON 6.7200 R		HO-TRON 6.8500 R		HO-TRON 6.10500 R		HO-TRON 6.13000 R	
Operating range	2417 – 7500 kW		2750 – 8500 kW		3300 – 10500 kW		4367 – 12500 kW	
Fuel flow	214 – 660 kg/h		243 – 748 kg/h		292 – 924 kg/h		386 – 1099 kg/h	
Nozzles	according to required power		according to required power		according to required power		according to required power	
Control box	LAL 2.25		LAL 2.25		LAL 2.25		LAL 2.25	
Fan motor	2800 rpm – 230/400 V 50 Hz – 15 kW		2800 rpm – 230/400 V 50 Hz – 18,5 kW		2800 rpm – 230/400 V 50 Hz – 22 kW		2800 rpm – 230/400 V 50 Hz – 37 kW	
Pump	TA 5C		TA 5C		T5 + TV		T5 + TV	
Resistance on pre-heaters	30 kW		30 kW		44 kW		60 kW	
Head length	KN	KL	KN	KL	KN	KL	KN	KL
Complete burner code	**on request**	**on request**	**3143166**	**on request**	**on request**	**on request**	**3142911**	**on request**

DIMENSIONS (mm)

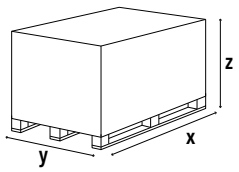


Model	A	B	C	D	E	F	G	G1	H1*	I	L	M
HO-TRON 6.7200 R	1390	660	730	525	1240	385	775	520	1270	460	460	M20
HO-TRON 6.8500 R	1480	660	820	535	1240	430	775	520	1270	460	460	M20
HO-TRON 6.10500 R	1505	685	820	535	1240	460	775	520	1270	460	460	M20
HO-TRON 6.13000 R	1750	800	950	535	1410	460	775	900	1270	460	460	M20

* optional silencer

PACKAGING

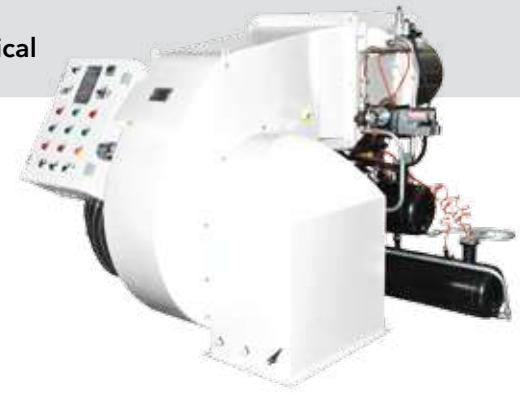
The complete burner with combustion head is delivered in a single wooden box with flexible hoses, boiler fixing accessories and technical documentation.



Model	Dimensions (mm)		
	X	Y	Z
HO-TRON 6.7200 R	2400	1800	1600
HO-TRON 6.8500 R	2400	1800	1600
HO-TRON 6.10500 R	2400	1800	1600
HO-TRON 6.13000 R	2400	1800	1600

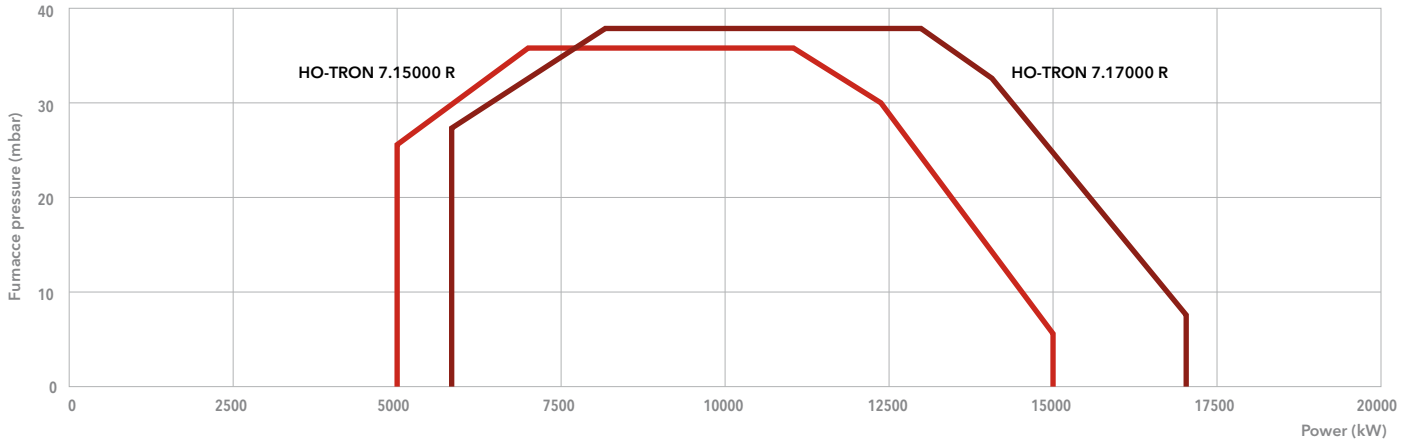
HO-TRON 7 R

5000 ... 17000 kW
Two stage progressive/modulating mechanical



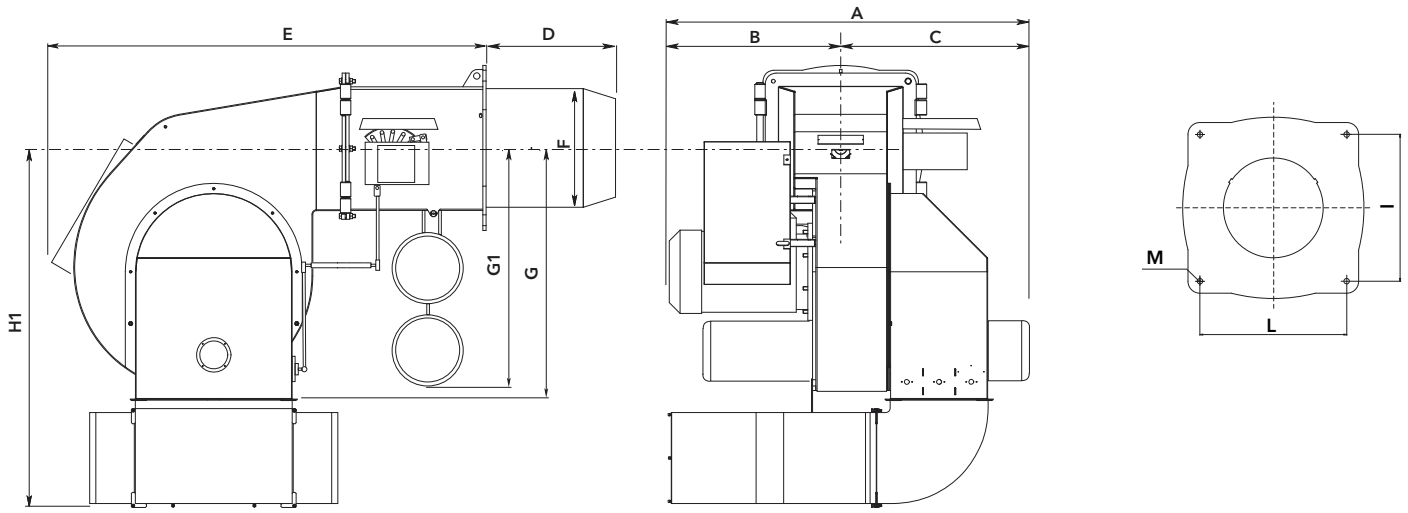
- **Fuel:** heavy oil, viscosity 50°E at 50°C, Hi = 10,5...11,5 kWh/kg
- **Protection level:** IP 42 (IP54 on request)

TECHNICAL DATA



	HO-TRON 7.15000 R		HO-TRON 7.17000 R	
Operating range	5000 – 15000 kW		5700 – 17000 kW	
Fuel flow	440 – 1319 kg/h		500 – 1495 kg/h	
Nozzles	according to required power		according to required power	
Control box	LAL 1.25		LAL 1.25	
Fan motor	2800 rpm – 230/400 V – 50 Hz – 45 kW		2800 rpm – 230/400 V – 50 Hz – 55 kW	
Pump	T5 + TV		T5 + TV	
Resistance on pre-heaters	75 kW		75 kW	
Head length	KN	KL	KN	KL
Complete burner code	**on request**	**on request**	**on request**	**on request**

DIMENSIONS (mm)

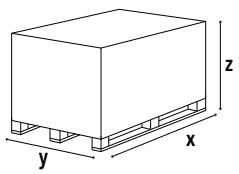


Model	A	B	C	D	E	F	G	G1	H1*	I	L	M
HO-TRON 7.15000 R	1700	800	900	590	1910	550	1320	1220	1670	620	620	M20
HO-TRON 7.17000 R	1770	870	900	590	1910	550	1320	1220	1670	620	620	M20

* optional silencer

PACKAGING

The complete burner with combustion head is delivered in a single wooden box with flexible hoses, boiler fixing accessories and technical documentation.



Model	Dimensions (mm)		
	X	Y	Z
HO-TRON 7.15000 R	2800	2100	2000
HO-TRON 7.17000 R	2800	2100	2000

GHO-TRON

MONOBLOCK BURNERS
FROM 414 TO 17000 kW
DUAL FUEL (GAS/HEAVY OIL)

DUAL FUEL BURNERS WORKING WITH GAS AND HEAVY OIL

GHO-TRON burners are suitable to work with natural gas or heavy oil up to 50°E at 50°C.
The range includes models ranging from a minimum capacity of 414 kW to a maximum power output of 17 MW.
Configurated and special version on request for selected type of applications and fuel characteristics.

SPECIAL FEATURES FOR HEAVY OIL COMBUSTION

All the models of the range are fitted with special components for heavy oil combustion.
Models starting from GHO-TRON 3 are equipped with digital thermoregulator integrated on the front panel to grant temperature stability of the fuel.
All the burners of the series have an heavy oil electric heating system on board and, starting from GHO-TRON 6, gas pilot included with separate supply line.

BURNER VERSIONS TO SUIT ANY NEED

The GHO-TRON dual fuel range is available in two different configurations:
• two stage version with electric servomotor and integrated system for the regulation of air and fuel for the model GHO-TRON 3
• two stage progressive version with electrical servomotor and double adjustable mechanical cam that allows air and fuel fine tuning (for models up to 17 MW).

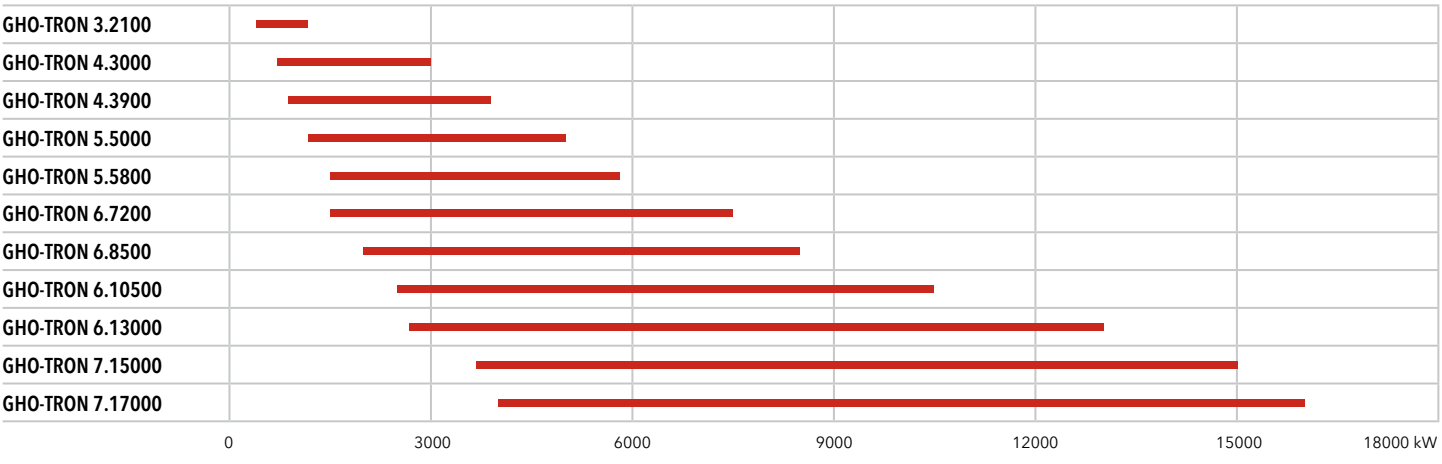
EASY MAINTENANCE SOLUTIONS

GHO-TRON burners feature an adjustable combustion head for easy regulation and matching with different combustion chambers.
All burners are characterized by easy access to the combustion components in order to simplify the maintenance operations.

MAIN TECHNICAL FEATURES

- Two stages and two stage progressive/modulating mechanical forced draught burners
- Electronic version available on request
- Fuels:
  - natural gas, Hi = 6,99 … 11,39 kWh/Nm^3
  - heavy oil, viscosity 50°E at 50°C, net calorific value 10,97 kWh/kg
- Two combustion head lengths available
- Gun type architecture:
  - separated forced draught fan;
  - optimal accessibility;
  - easy maintenance;
  - secured burner head adjustments;
  - closing of the air flap on burner shut-down
- Separated motor-pump on board
- Electrical heavy oil heater (oil supply to the burner at 80°C and 3 bar)
- Additional heating on the pipes and the valves, into the pump and the nozzle holder
- Closing of the air flap on burner shut-down
- Complete electrical equipment in a switch cabinet mounted on the burner with control panel
- Products are in compliance with EN267 and EN676 European standards and with the following directives:
  - 2014/35/UE Low Voltage Directive
  - 2014/30/UE EMC Directive
  - 2016/426/UE Gas Appliances Regulation
  - 2006/42/EC Machinery Directive
  - 2011/65/EU RoHS2 Directive

PRODUCT LIST



GHO-TRON

GAS / HEAVY OIL

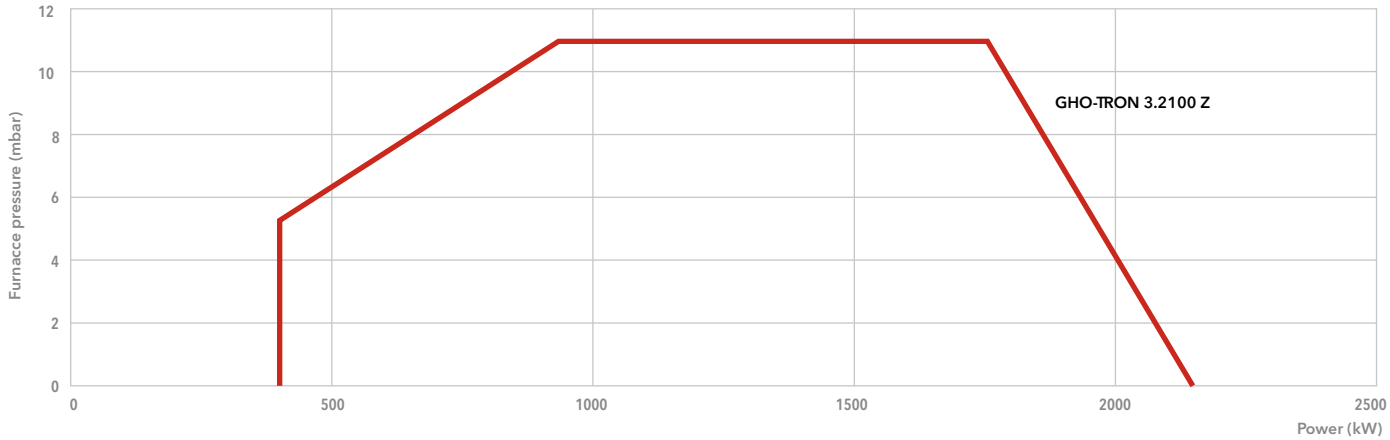
Low NOx Class 2

GHO-TRON 3 Z

414 ... 2150 kW
Two stages

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  heavy oil, viscosity 50°E at 50°C, Hi = 10,5...11,5 kWh/kg
- **Emission class:** Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas
- **Protection level:** IP 42 (IP54 on request)

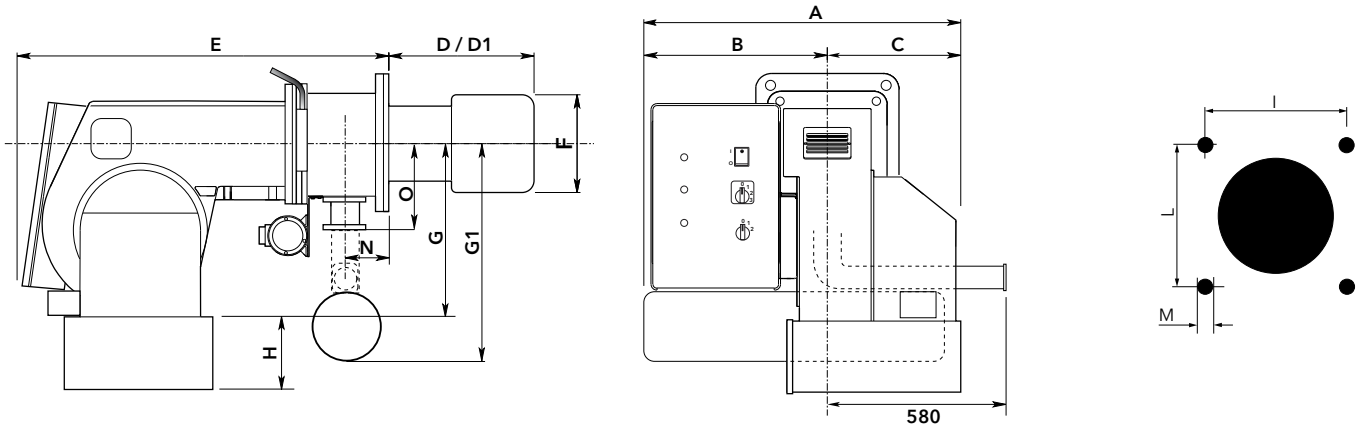
TECHNICAL DATA



	GHO-TRON 3.2100 Z	
Operating range	414 – 2150 kW	
Fuel flow	36 – 189 kg/h	
Nozzles	according to required power	
Control box	LGB 22	
Fan motor	2800 rpm – 230/400 V – 50 Hz – 4 kW	
Pump	E7 NC	
Resistance on pre-heaters	10,5 kW	
Head length	KN	KL
Complete burner code	**on request**	**on request**

Dimensions of gas trains and gas filters: see page 250

DIMENSIONS (mm)

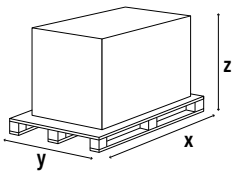


Model	A	B	C	D	D1	E	F	G	G1	H	N	O	I	L	M
GHO-TRON 3.2100 Z	848	530	318	295	455	1150	270	395	600	283	125	250	315	315	M16

* optional silencer

PACKAGING

The complete burner with combustion head is delivered in a single carton box with flexible hoses and operating manual including electrical terminal diagram and spare parts list.



Model	Dimensions (mm)		
	X	Y	Z
GHO-TRON 3.2100 Z	1370	1140	950

GHO-TRON

GAS / HEAVY OIL

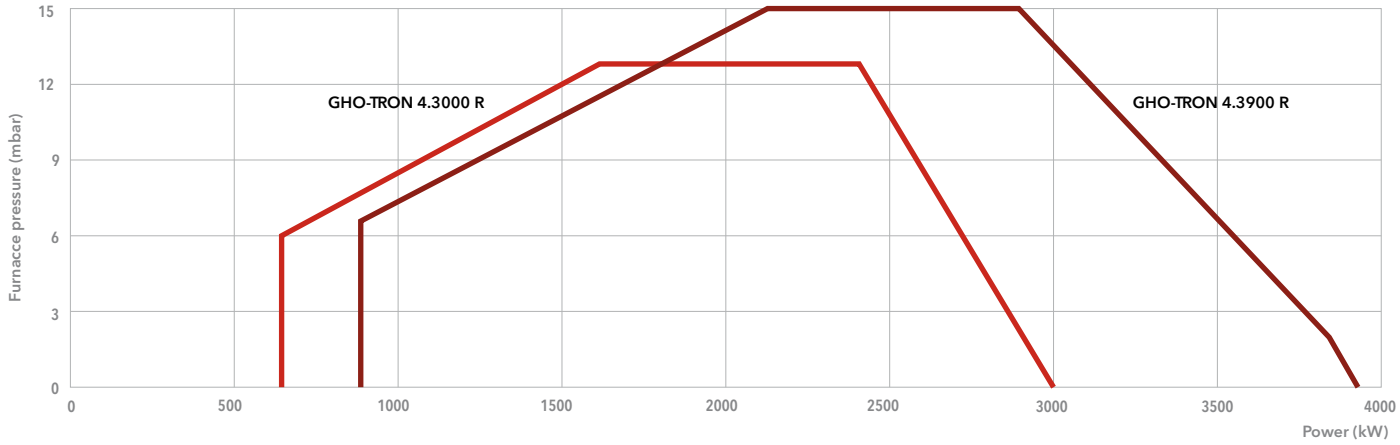
Low NOx Class 2

GHO-TRON 4 R

650 ... 3900 kW
Two stage progressive/modulating mechanical

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  heavy oil, viscosity 50°E at 50°C, Hi = 10,5...11,5 kWh/kg
- **Emission class:** Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas
- **Protection level:** IP 42 (IP54 on request)

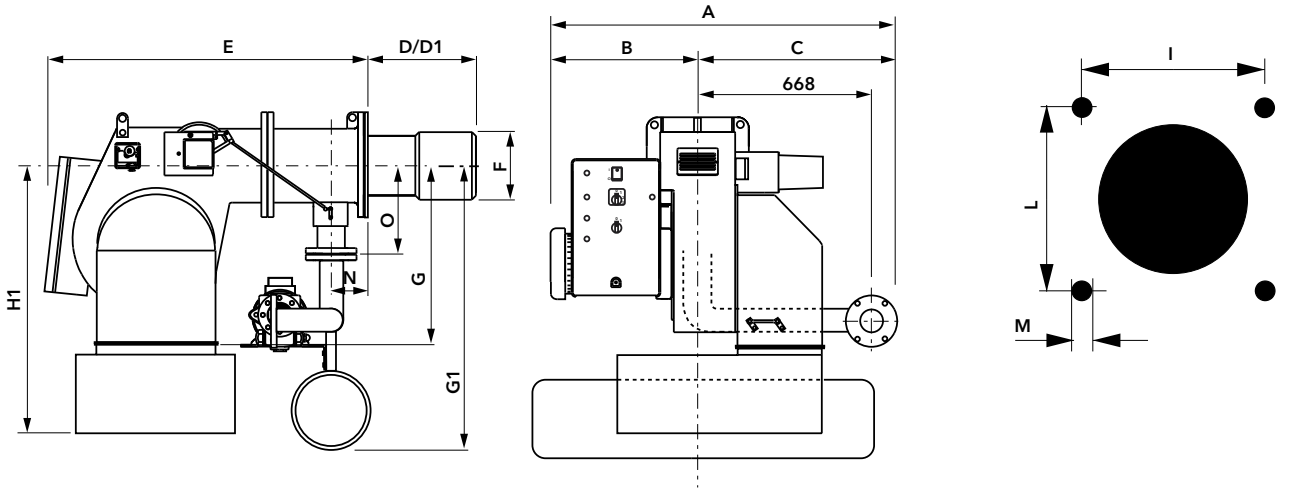
TECHNICAL DATA



	GHO-TRON 4.3000 R		GHO-TRON 4.3900 R	
Operating range	650 – 3000 kW		875 – 3900 kW	
Fuel flow	57 – 264 kg/h		77 – 343 kg/h	
Nozzles	according to required power		according to required power	
Control box	LFL 1.333		LFL 1.333	
Fan motor	2800 rpm – 230/400 V – 50 Hz – 7,5 kW		2800 rpm – 230/400 V – 50 Hz – 9 kW	
Pump	TA 3C		TA 3C	
Resistance on pre-heaters	18 kW		21 kW	
Head length	KN	KL	KN	KL
Complete burner code	**on request**	**on request**	**on request**	**on request**

Dimensions of gas trains and gas filters: see page 250

DIMENSIONS (mm)

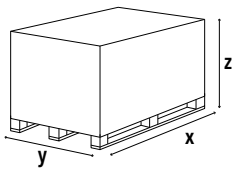


Model	A	B	C	D	D1	E	F	G	G1	H1*	N	O	I	L	M
GHO-TRON 4.3000 R	1288	610	678	330	530	1130	290	471	750	746	195	250	315	315	M16
GHO-TRON 4.3900 R	1288	610	678	345	545	1130	320	471	750	746	195	250	315	315	M16

* optional silencer

PACKAGING

The complete burner with combustion head is delivered in a single wooden box with gas train and filter, flexible hoses, boiler fixing accessories and technical documentation.



Model	Dimensions (mm)		
	X	Y	Z
GHO-TRON 4.3000 R	1580	1580	1050
GHO-TRON 4.3900 R	1580	1580	1050

GHO-TRON

GAS / HEAVY OIL

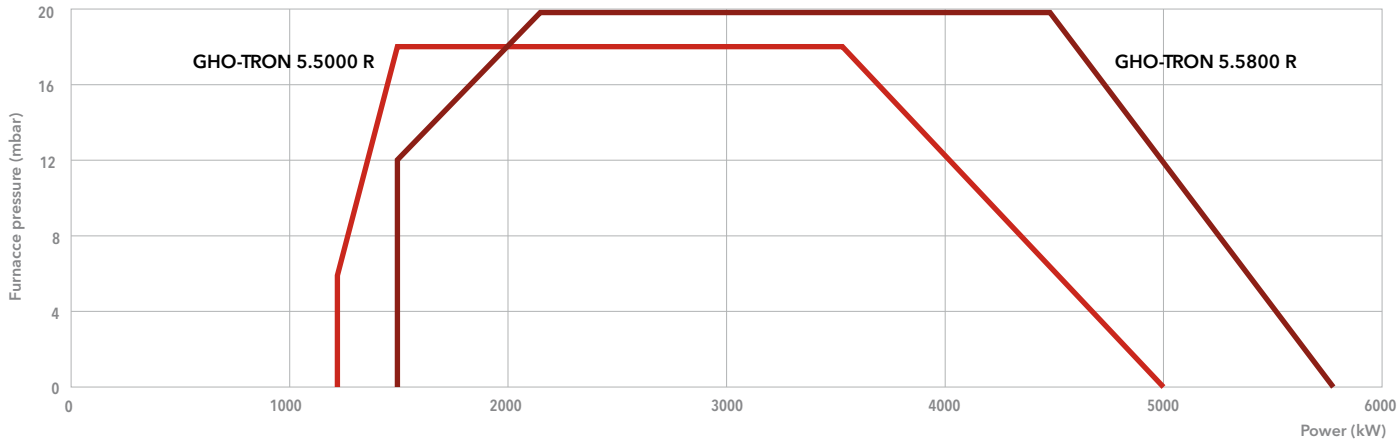
Low NOx Class 2

GHO-TRON 5 R

1200 … 5800 kW
Two stage progressive/modulating mechanical

- **Fuels:** natural gas, Hi = 6,99 … 11,39 kWh/Nm³;
  heavy oil, viscosity 50°E at 50°C, Hi = 10,5…11,5 kWh/kg
- **Emission class:** Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas
- **Protection level:** IP 42 (IP54 on request)

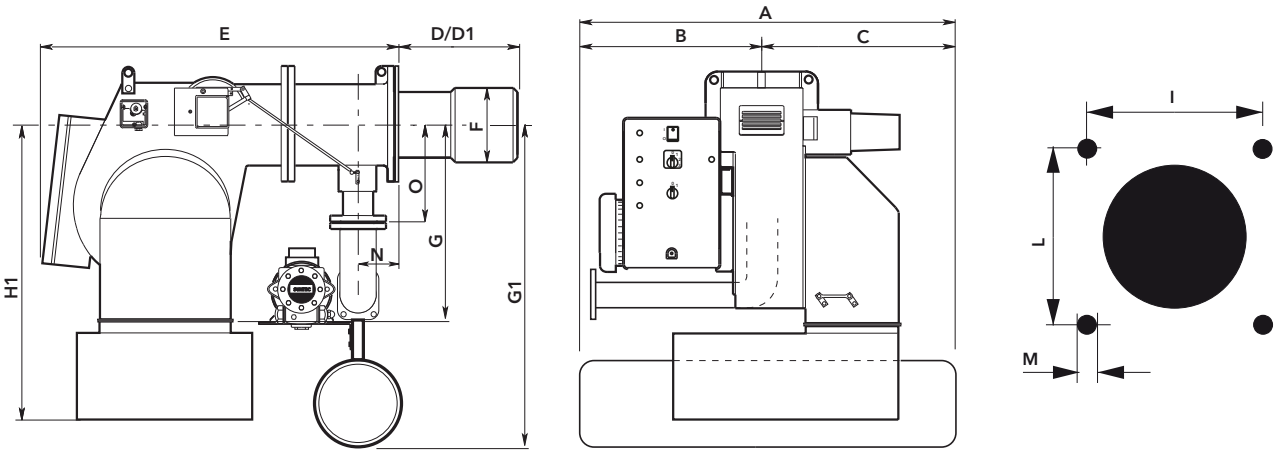
TECHNICAL DATA



	GHO-TRON 5.5000 R		GHO-TRON 5.5800 R	
Operating range	1200 – 5000 kW		1500 – 5800 kW	
Fuel flow	106 – 440 kg/h		132 – 510 kg/h	
Nozzles	according to required power		according to required power	
Control box	LFL 1.333		LFL 1.333	
Fan motor	2800 rpm – 230/400 V – 50 Hz – 11 kW		2800 rpm – 230/400 V – 50 Hz – 15 kW	
Pump	TA 4C		TA 4C	
Resistance on pre-heaters	24 kW		24 kW	
Head length	KN	KL	KN	KL
Complete burner code	**on request**	**on request**	**on request**	**on request**

Dimensions of gas trains and gas filters: see page 250

DIMENSIONS (mm)

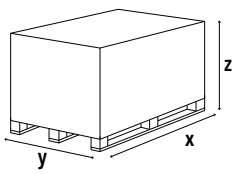


Model	A	B	C	D	D1	E	F	G	G1	H1*	N	O	I	L	M
GHO-TRON 5.5000 R	1358	680	678	354	554	1230	320	570	775	965	195	250	330	330	M16
GHO-TRON 5.5800 R	1358	680	678	354	554	1230	320	570	775	965	195	250	330	330	M16

* optional silencer

PACKAGING

The complete burner with combustion head is delivered in a single wooden box with gas train and filter, flexible hoses, boiler fixing accessories and technical documentation.



Model	Dimensions (mm)		
	X	Y	Z
GHO-TRON 5.5000 R	1580	1580	1050
GHO-TRON 5.5800 R	1580	1580	1050

GHO-TRON

GAS / HEAVY OIL

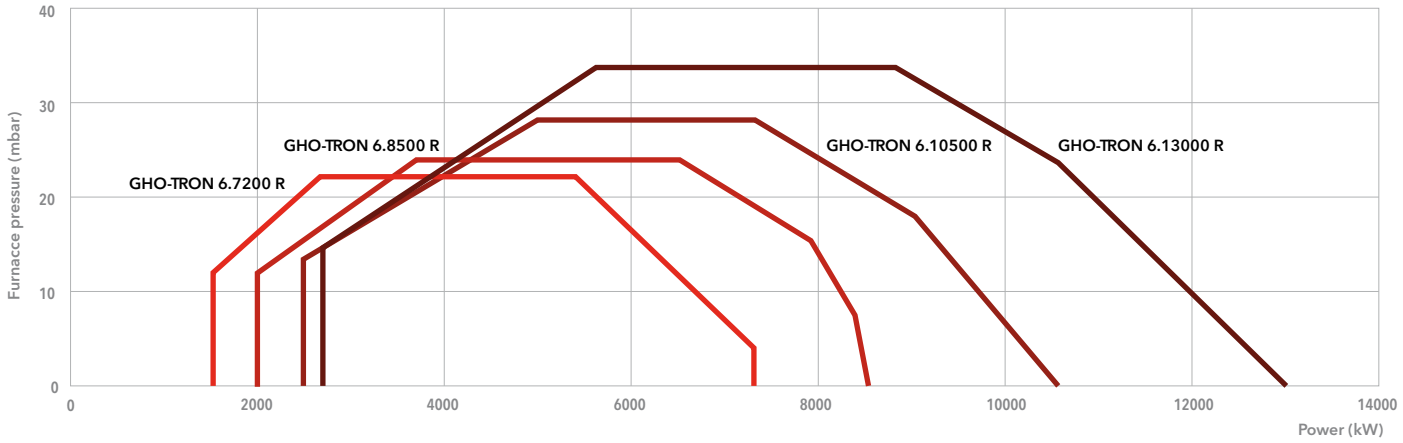
Low NOx Class 2

GHO-TRON 6 R

1500 … 13000 kW
Two stage progressive/modulating mechanical

- **Fuels:** natural gas, Hi = 6,99 … 11,39 kWh/Nm³;
  heavy oil, viscosity 50°E at 50°C, Hi = 10,5…11,5 kWh/kg
- **Emission class:** Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas
- **Protection level:** IP 42 (IP54 on request)

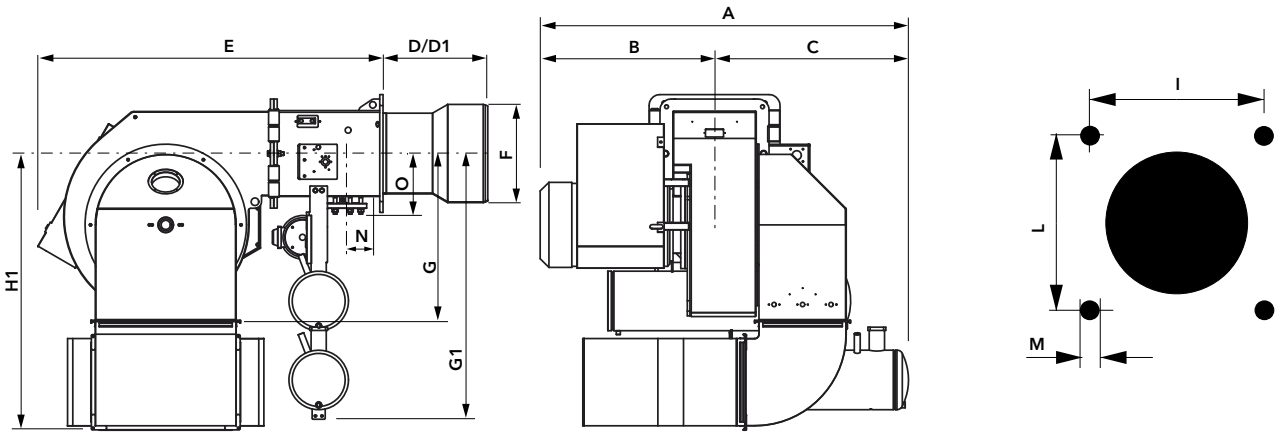
TECHNICAL DATA



	GHO-TRON 6.7200 R		GHO-TRON 6.8500 R		GHO-TRON 6.10500 R		GHO-TRON 6.13000 R	
Operating range	1500 – 7500 kW		2000 – 8500 kW		2500 – 10500 kW		2700 – 13000 kW	
Fuel flow	132 – 660 kg/h		176 – 750 kg/h		220 – 920 kg/h		240 – 1100 kg/h	
Nozzles	according to required power		according to required power		according to required power		according to required power	
Control box	LFL 1.333		LFL 1.333		LFL 1.333		LFL 1.333	
Fan motor	2800 rpm – 230/400 V 50 Hz – 15 kW		2800 rpm – 230/400 V 50 Hz – 18,5 kW		2800 rpm – 230/400 V 50 Hz – 22 kW		2800 rpm – 230/400 V 50 Hz – 37 kW	
Pump	TA 5C		TA 5C		T5 + TV		T5 + TV	
Resistance on pre-heaters	30 kW		30 kW		44 kW		60 kW	
Head length	KN	KL	KN	KL	KN	KL	KN	KL
Complete burner code	**on request**	**on request**	**on request**	**on request**	**on request**	**on request**	**on request**	**on request**

Dimensions of gas trains and gas filters: see page 250

DIMENSIONS (mm)

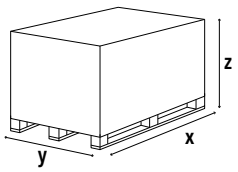


Model	A	B	C	D	E	F	G	G1	H1*	N	O	I	L	M
GHO-TRON 6.7200 R	1370	740	630	470	1640	420	775	850	1270	195	232	460	460	M20
GHO-TRON 6.8500 R	1370	740	630	470	1640	420	775	850	1270	195	232	460	460	M20
GHO-TRON 6.10500 R	1500	740	760	470	1640	420	775	850	1270	195	232	460	460	M20
GHO-TRON 6.13000 R	1700	800	900	470	1640	450	775	1200	1270	195	232	460	460	M20

* optional silencer

PACKAGING

The complete burner with combustion head is delivered in a single wooden box with gas train and filter, flexible hoses, boiler fixing accessories and technical documentation.



Model	Dimensions (mm)		
	X	Y	Z
GHO-TRON 6.7200 R	2400	1800	1600
GHO-TRON 6.8500 R	2400	1800	1600
GHO-TRON 6.10500 R	2400	1800	1600
GHO-TRON 6.13000 R	2400	1800	1600

GHO-TRON

GAS / HEAVY OIL

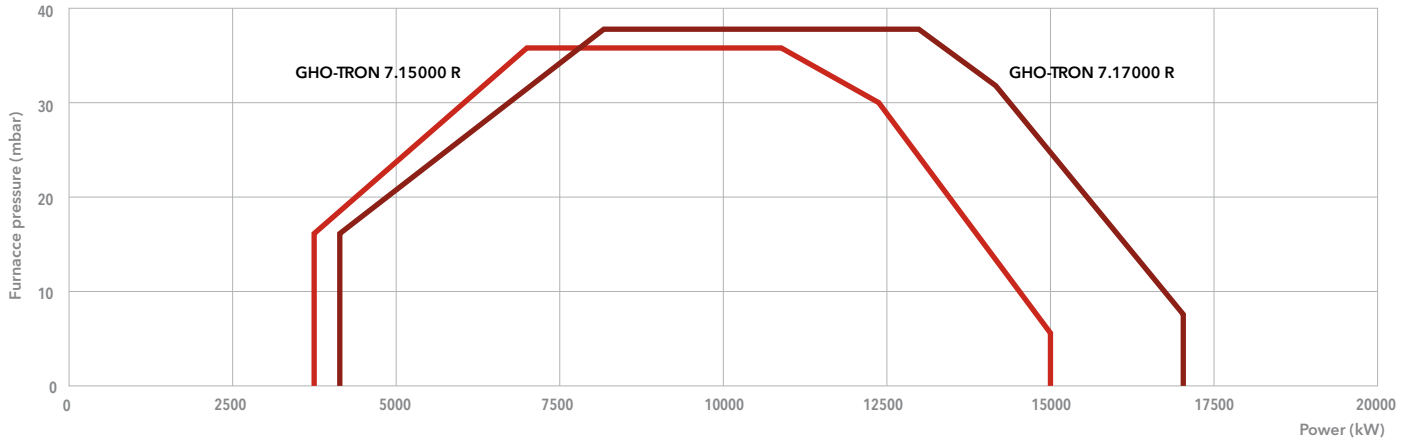
Low NOx Class 2

GHO-TRON 7 R

3690 ... 17000 kW
Two stage progressive/modulating mechanical

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  heavy oil, viscosity 50°E at 50°C, Hi = 10,5...11,5 kWh/kg
- **Emission class:** Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas
- **Protection level:** IP 42 (IP54 on request)

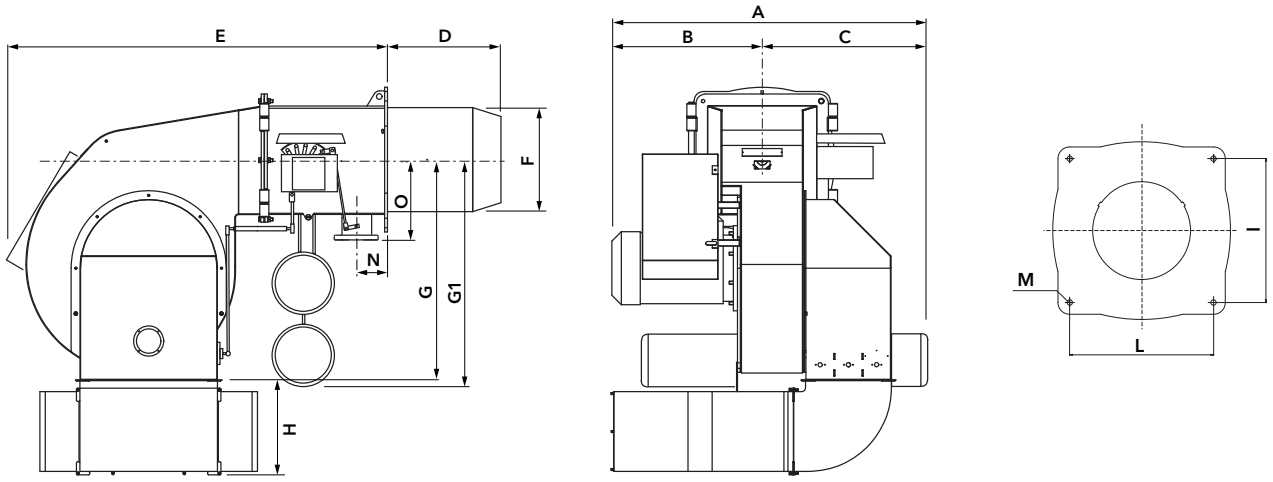
TECHNICAL DATA



	GHO-TRON 7.15000 R		GHO-TRON 7.17000 R	
Operating range	3690 – 15000 kW		4000 – 17000 kW	
Fuel flow	325 – 1320 kg/h		350 – 1495 kg/h	
Nozzles	according to required power		according to required power	
Control box	LFL 1.333		LFL 1.333	
Fan motor	2800 rpm – 230/400 V – 50 Hz – 45 kW		2800 rpm – 230/400 V – 50 Hz – 55 kW	
Pump	T5 + TV		T5 + TV	
Resistance on pre-heaters	75 kW		75 kW	
Head length	KN	KL	KN	KL
Complete burner code	**on request**	**on request**	**on request**	**on request**

Dimensions of gas trains and gas filters: see page 250

DIMENSIONS (mm)

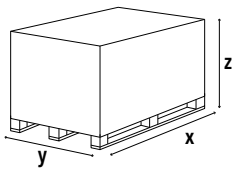


Model	A	B	C	D	E	F	G	G1	H*	N	O	I	L	M
GHO-TRON 7.15000 R	1948	860	1088	590	1910	550	1167	1220	530	210	320	620	620	M20
GHO-TRON 7.17000 R	1948	860	1088	590	1910	550	1167	1220	530	210	320	620	620	M20

* optional silencer

PACKAGING

The complete burner with combustion head is delivered in a single wooden box with gas train and filter, flexible hoses, boiler fixing accessories and technical documentation.



Model	Dimensions (mm)		
	X	Y	Z
GHO-TRON 7.15000 R	2800	2100	2000
GHO-TRON 7.17000 R	2800	2100	2000

DUOBLOCK

DUOBLOCK BURNERS
FROM 230 TO 80000 kW
GAS, LIGHT OIL, HEAVY OIL AND DUAL FUEL

ALL THE BENEFITS OF THE SEPARATE VENTILATION

In contrast to monoblock burners, duoblock burners are made up of two units, or blocks, as the name implies: the burner head with the air inlet, and the separately-installed fan; the two units are connected via an air duct.
The separate installation of the fan offers several benefits:
• the fan can be installed in a separate room, for instance in the cellar; this results in considerably lower noise levels in the boiler room;
• less space required in front of the boiler and in the combustion chamber;
• individual fan layout with optimum adaptation of the fan characteristic curve to suit the pressure ratio of the heat generator; this guarantees pulsation-free and stable burner behaviour, even on heat generators with high resistance on the exhaust side;
• combustion air can be pre-heated to increase installation efficiency;
• lower weight loading on the boiler front.

EXTREME FLEXIBILITY AND VERSATILITY

ELCO duoblock burners are designed to satisfy the widest range of needs and can be applied to the most various type of civil and industrial solutions like fire-tube boilers, water-tube boilers, dryers and melting furnaces.
These burners enable installation to realize a modular and flexible combustion solution with a high degree of personalization. This resultes in a high performance installations at the lowest running cost.
The burners are built to be connected to an external air supply and can be supplied together with built-in or separate control panel, electronic or mechanical adjustment, flue gas recirculation, heavy oil pump unit and heating unit.

A COMPLETE RANGE OF OPTIONS

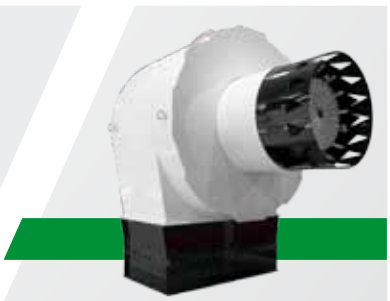
ELCO is able to offer an extremely wide range of industrial duoblock burners thanks to three different series, EK-DUO, RPD and D-TRON, covering a power range from 230 kW up to 80 MW.
This range of burners is able to fulfill high capacity and high turndown needs and allows installation in very high pressurized combustion chambers.
All duoblock models can work with pre-heated combustion air up to 200°C and can be used in order to achieve greater values of efficiency.
Versions suitable to work with hydrogen and other alternative fuels are available on request.

RANGE OVERVIEW

/ D-TRON
230 / 34000 kW

/ EK-DUO
600 / 16000 kW

/ RPD
500 / 80000 kW



/ LOW NOx / ULTRA LOW NOx
up to 80000 kW

D-TRON

MAIN TECHNICAL FEATURES

- Two stages and progressive/modulating forced draught burners, designed to be connected to an external air supply
- Fuels:
  - natural gas, Hi = 6,99 … 11,39 kWh/Nm^3;
  - light oil, viscosity 6 mm^2/s at 20°C, Hi = 11,86 kWh/kg;
  - heavy oil, viscosity 20…350 mm^2/s at 50°C;
  - other fuels on request;
- Max inlet air temperature: 140°C (models for higher temperature available on request)
- Electrical switch cabinet manufactured in different configurations assembled on the burner or delivered separately and includes the burner control:
  - control box for burner operation sequences;
  - contactors and remote overload cut-out for control of the fan unit;
  - fuse to protect the auxiliary equipment;
  - switches, warning and information lights, manual power control;
  - ready to accept PID power regulator (option)
- Gas train factory assembled and tested for tightness and electrical security
- Electronic version available on request
- Products are in compliance with EN 267 and EN 676 European standards

EK-DUO

MAIN TECHNICAL FEATURES

- Progressive/modulating forced draught burners, designed to be connected to an external air supply
- Fuels:
  - natural gas, Hi = 6,99 … 11,39 kWh/Nm^3
  - light oil, viscosity 6 mm^2/s at 20°C, Hi = 11,86 kWh/kg
  - other fuels on request
- Flame tube length according to installation
- Secured burner head adjustments during maintenance
- Closing of the air damper on burner shutdown
- Control box: built-in or external according to customer requirements
- Gas train factory assembled and tested for tightness and electrical security
- Products are in compliance with EN 267 and EN 676 European standards

RPD

MAIN TECHNICAL FEATURES

- Progressive/modulating forced draught burner with register, designed to be connected to an external air supply
- Fuels:
  - natural gas, Hi = 6,99 … 11,39 kWh/Nm^3;
  - light oil, viscosity 6 mm^2/s at 20°C, Hi = 11,86 kWh/kg;
  - heavy oil, viscosity 20…350 mm^2/s at 50°C;
  - hydrogen and other fuels on request;
  - co-combustion of various fuels or to eliminate liquid waste on request
- Air/gas ratio with Etamatic digital control box
- Adjustable flame length with air registers
- Flame tube length according to installation
- Closing of the air damper on burner shutdown
- Control box: built-in or external according to customer requirements
- Gas train factory assembled and tested for tightness and electrical security
- Products are in compliance with EN267 and EN676 European standards

D-TRON

ALL FUELS

Low NOx Class 3

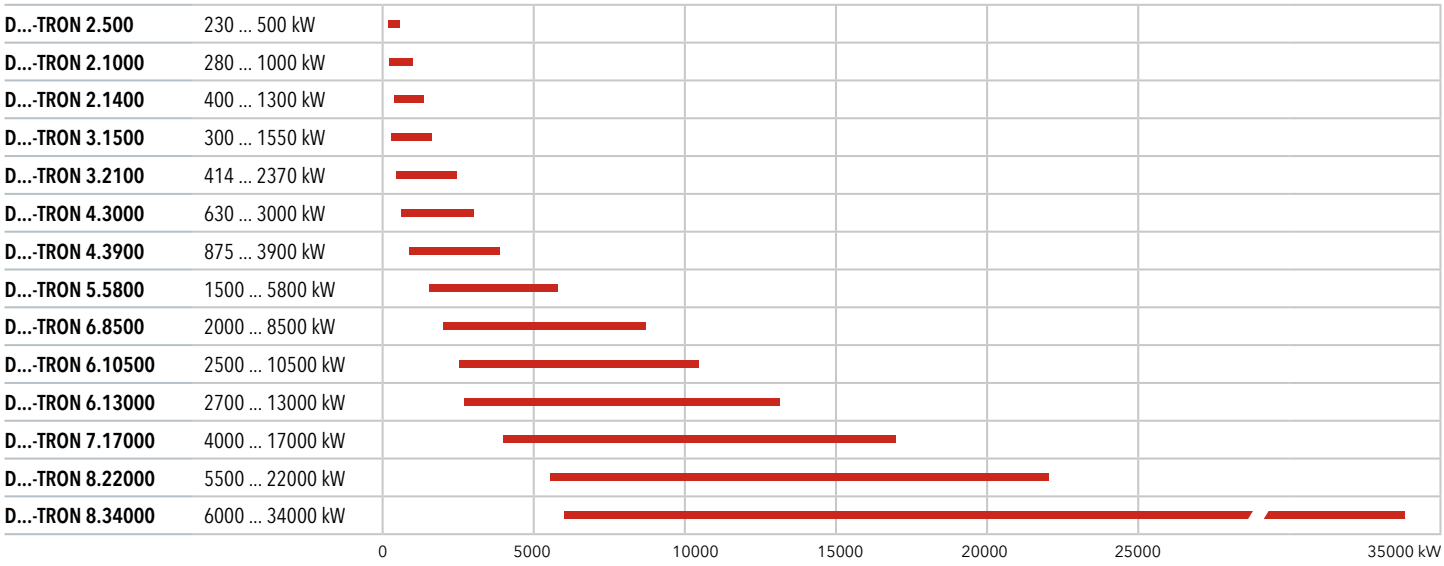
D-TRON 2 ... 8

230 ... 34000 kW

Two stages, two stage progressive/modulating mechanical or electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm³;
  light oil, viscosity 6 mm²/s at 20°C, Hi = 11,86 kWh/kg;
  heavy oil, viscosity 20...350 mm²/s at 50°C;
  other fuels on request
- **Emission class:** Low NOx class 3 models (in gas) available on request;
  Versions with FGR System (≤30 mg/kWh) also available on request
- **Protection level:** IP 41 (IP 54 and IP 65 on request)

RANGE OVERVIEW

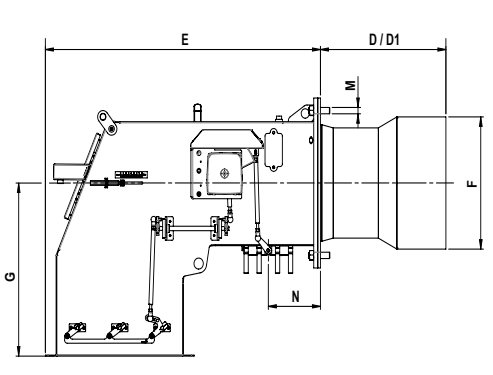


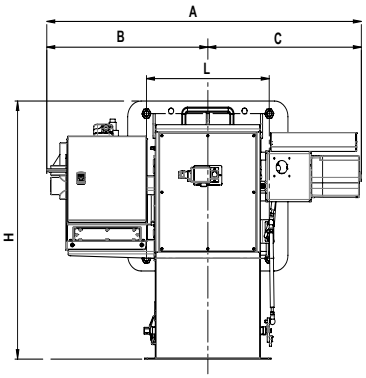
AVAILABLE CONFIGURATIONS

Model	Gas DG-TRON		Gas/light oil DGL-TRON			Light oil DL-TRON			Heavy oil DO-TRON	Gas/heavy oil DGO-TRON
	Progressive mechanical or electronic		Two stages	Progressive mechanical or electronic		Two stages	Progressive mechanical or electronic		Progressive mechanical or electronic	Progressive mechanical or electronic
	Class 2	Low NOx Class 3	Class 2	Class 2	Low NOx Class 3	Class 2	Class 2	Low NOx Class 3	-	Class 2
D...-TRON 2.500	●	●								
D...-TRON 2.1000	●	●	●							
D...-TRON 2.1400	●		●							
D...-TRON 3.1500		●								
D...-TRON 3.2100	●	●	●	●	○	●	●	○	●	
D...-TRON 4.3000	●	●		●	○		●	○	●	●
D...-TRON 4.3900	●	●		●	○		●	○	●	●
D...-TRON 5.5800	●	●		●	○		●	○	●	●
D...-TRON 6.8500	●	●		●	○		●	○	●	●
D...-TRON 6.10500	●	●		●	○		●	○	●	●
D...-TRON 6.13000	●	●		●	○		●	○	●	●
D...-TRON 7.17000	●	●		●	○		●	○	●	●
D...-TRON 8.22000		●								
D...-TRON 8.34000		●								

●: Standard versions
○: Models available on request

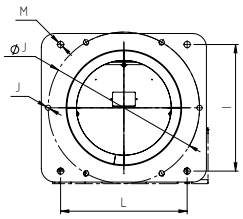
DIMENSIONS (mm)



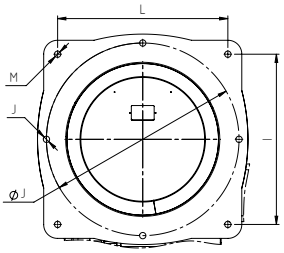


Connecting flange

D...-TRON 2...6



D...-TRON 7-8

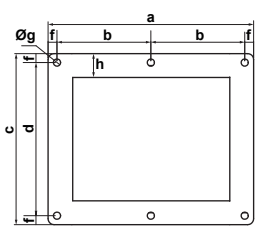


Model	A	B	C	D	D1	E	F	G	H	L	M	N
D...-TRON 2.1000	523	216	307	174	394	556	190	290	370	190	4xM10	139*
D...-TRON 2.1400	523	216	307	342	492	556	200	290	385	190	4xM10	139*
D...-TRON 3.1500	523	216	307	342	492	556	200	290	390	190	4xM10	139*
D...-TRON 3.2100	848	407	441	348	548	669	270	392	568	270	4X M16	125
D...-TRON 4.3000	986	472	514	330	530	763	290	392	575	270	4X M16	180
D...-TRON 4.3900	986	472	514	365	640	775	320	392	587	315	4X M16	188
D...-TRON 5.5800	998	478	520	373	698	838	325	405	614	330	4X M16	185
D...-TRON 6.8500	1251	633	618	470	770	1030	369	616	976	619	4X M20	195
D...-TRON 6.10500	1178	603	575	470	770	1030	420	550	820	619	4X M20	195
D...-TRON 6.13000	1178	603	575	470	770	1030	450	550	820	619	4X M20	195
D...-TRON 7.17000	1330	620	710	590	710	1480	551	670	1063	619	4xM20	200
D...-TRON 8.22000	1308	472	836	530	760	1549	720	760	1242	800	4xM20	210
D...-TRON 8.34000	1308	472	836	530	760	1549	720	760	1242	800	4xM20	210

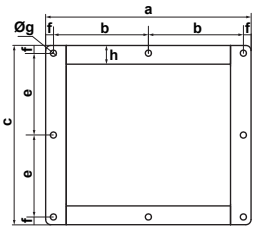
*: gas train connection on the right side of the burner up to the model D...-TRON 3.1500

Air duct

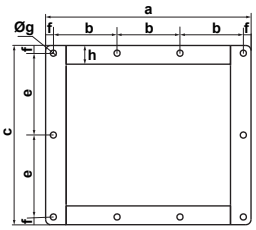
D...-TRON 2-3



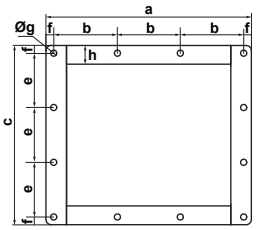
D...-TRON 4-5



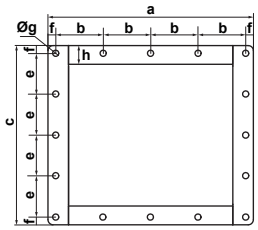
D...-TRON 6



D...-TRON 7



D...-TRON 8



Model	a	b	c	d	e	f	Øg	h
D...-TRON 2.500...1400	303	136,5	252	222	-	15	6x R12	40
D...-TRON 3.1500	303	136,5	252	222	-	15	6x R12	40
D...-TRON 3.2100	345	157,5	287	257	-	15	6x R12	40
D...-TRON 4.3000/3900	400	185	349	-	159,5	15	8x R12	40
D...-TRON 5.5800	470	220	361	-	165,5	15	8x R12	40
D...-TRON 6.8500...13000	557	173	474	-	218	19	10x R14	43
D...-TRON 7.17000	730	230,7	650	-	204	19	12x R14	43
D...-TRON 8.22000/34000	930	223	828	-	197,5	19	16x R14	40

! Drawings and dimensions make reference to the mechanical versions: they are shown for informational purposes only and may vary according to the chosen configuration.

EK-DUO

GAS / LIGHT OIL

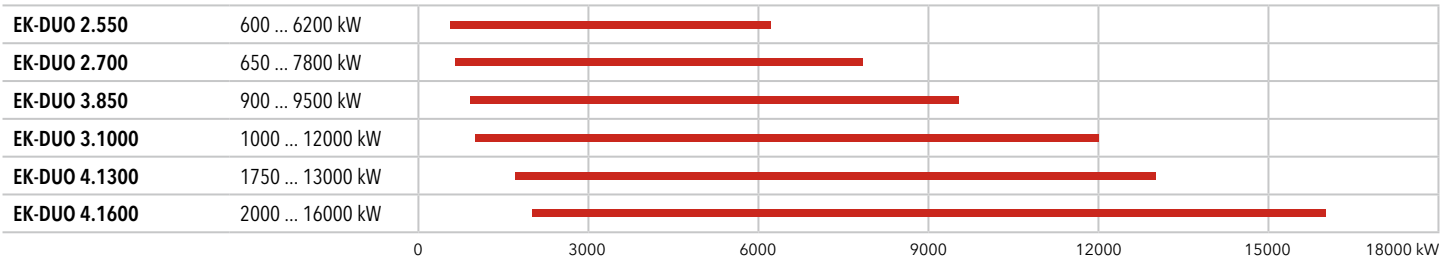
Low NOx Class 3

EK-DUO 2 ... 4

600 ... 16000 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 … 11,39 kWh/Nm^3;
  light oil, viscosity 6 mm^2/s at 20°C, Hi = 11,86 kWh/kg;
  other fuels on request
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) according to EN676 in gas and
  Low NOx class 3 (≤120 mg/kWh) according to EN267 in light oil
  Versions with FGR System (≤30 mg/kWh) also available on request
- **Protection level:** IP 41 (IP 54 and IP 65 on request)

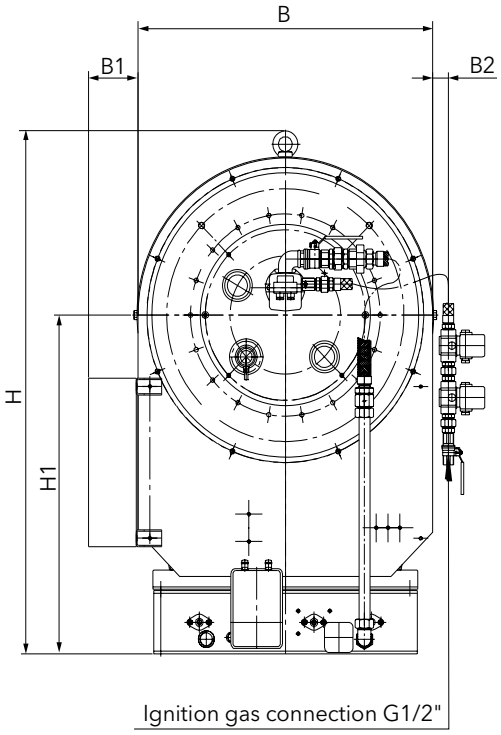
RANGE OVERVIEW

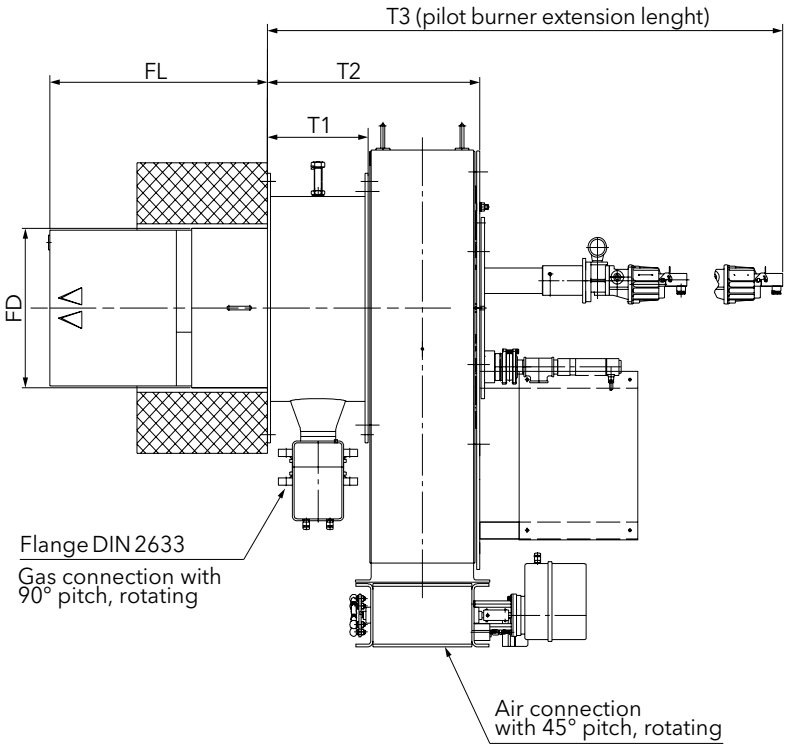


AVAILABLE CONFIGURATIONS

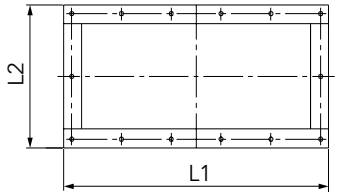
Model	Weight (kg)	Fuel			Operation	NOx emissions
		Gas	Gas/Light oil	Light oil	Electronic	Low NOx class 3
EK-DUO 2.550	320 ... 400	●	●	●	●	●
EK-DUO 2.700	320 ... 400	●	●	●	●	●
EK-DUO 3.850	400 ... 470	●	●	●	●	●
EK-DUO 3.1000	400 ... 470	●	●	●	●	●
EK-DUO 4.1300	400 ... 420	●	●	●	●	●
EK-DUO 4.1600	400 ... 420	●	●	●	●	●

DIMENSIONS (mm)

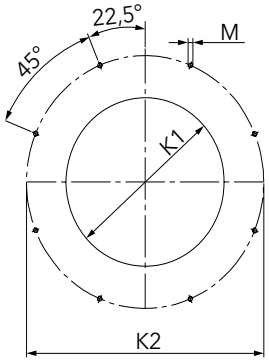




Air connection flange



Details of boiler front plate



Model	Gas connection	H	H1	B	B1	B2*	T1	T2	T3*	FL*	FD*	L1	L2	K1	K2	M
EK-DUO 2.550	DN80	1241	804	750	125	40	255	537	2005 ... 2150	320 ... 570	378	670	340	400	600	M12
EK-DUO 2.700	DN80	1241	804	750	125	40	255	537	2005 ... 2150	320 ... 570	378	670	340	400	600	M12
EK-DUO 3.850	DN80	1481	944	950	120	40	290	622	1810 ... 2390	350 ... 590	441 ... 456	827	386	480	690	M12
EK-DUO 3.1000	DN80	1481	944	950	120	40	290	622	1810 ... 2390	350 ... 590	441 ... 456	827	386	480	690	M12
EK-DUO 4.1300	DN100	1491	929	1000	122	40	420	802	2600 ... 2770	350 ... 620	506	840	440	525	725	M20
EK-DUO 4.1600	DN100	1491	929	1000	122	40	420	802	2600 ... 2770	350 ... 620	506	840	440	525	725	M20

Drawings and dimensions make reference to a standard burner version: they are shown for informational purposes only and may vary according to the chosen configuration.

RPD

ALL FUELS

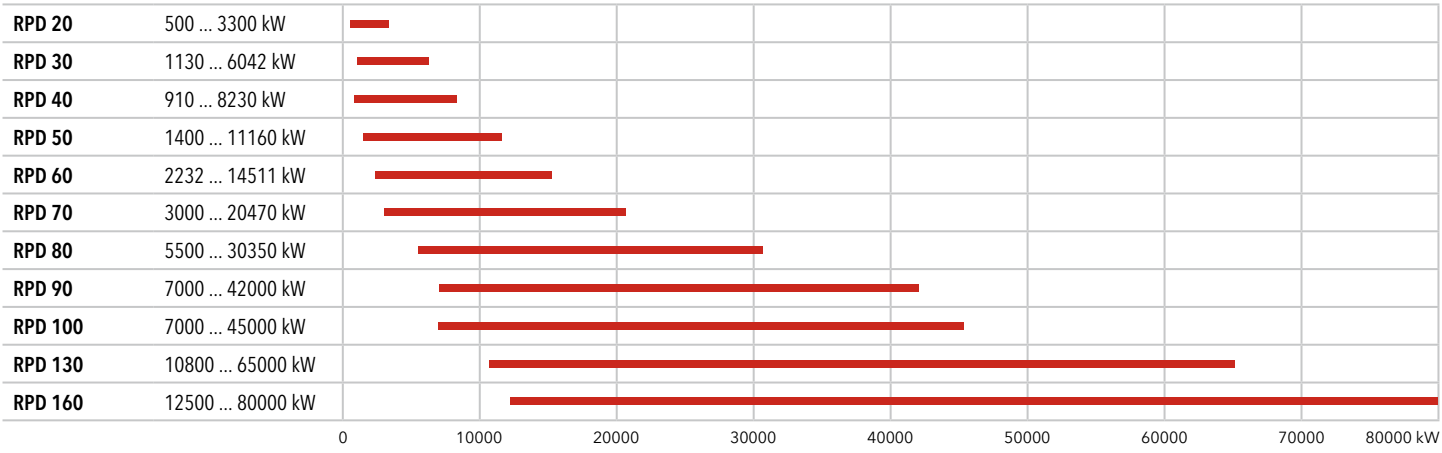
Low NOx Class 3

RPD 20 ... 160

500 ... 80000 kW
Two stage progressive/modulating electronic

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm^3;
  light oil, viscosity 6 mm^2/s at 20°C, Hi = 11,86 kWh/kg;
  heavy oil, viscosity 20...350 mm^2/s at 50°C;
  hydrogen and other fuels on request;
  co-combustion of various fuels or to eliminate liquid waste on request
- **Emission class:** Low NOx class 3 (≤80 mg/kWh) or class 2 (≤120 mg/kWh)
  according to EN676 in gas;
  Low NOx class 3 (≤120 mg/kWh) or class 2 (≤185 mg/kWh)
  according to EN267 in light oil
  Versions with FGR System (≤30 mg/kWh) also available on request
- **Protection level:** IP 41 (IP 54 and IP 65 on request)

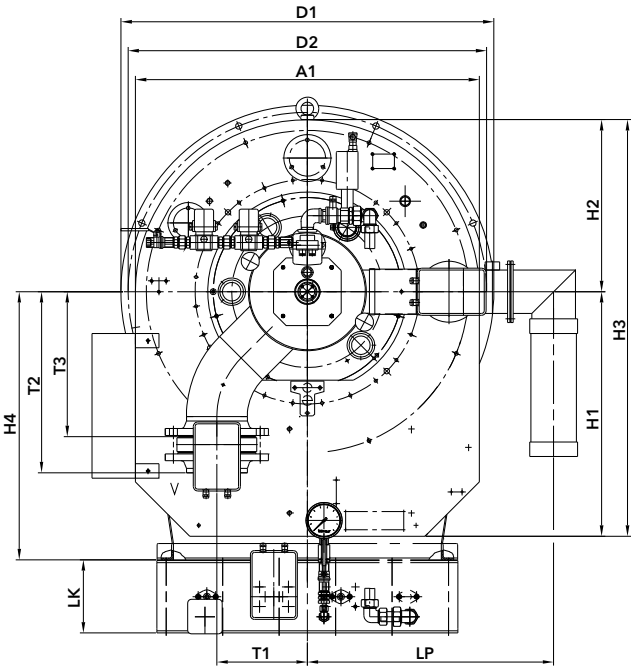
RANGE OVERVIEW

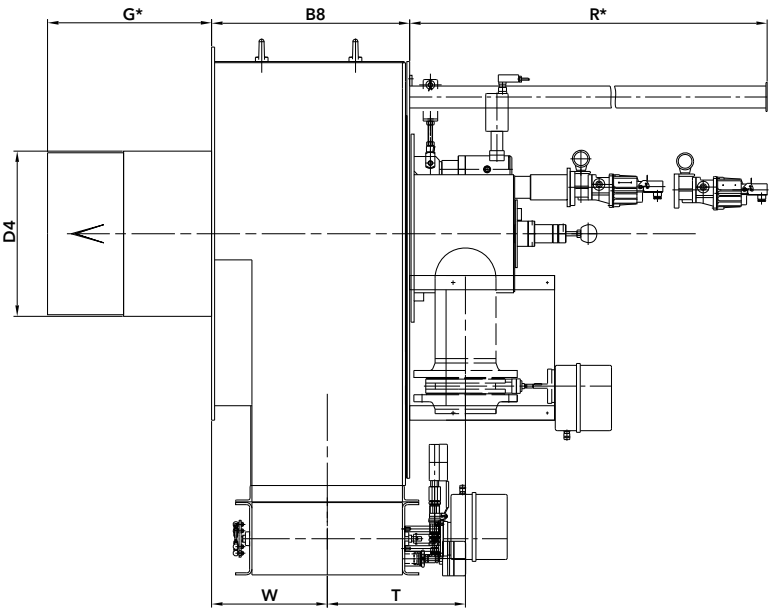


AVAILABLE CONFIGURATIONS

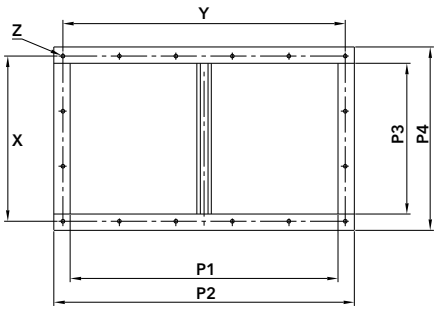
Model	Approx. weight (kg)	Fuel					Operation	NOx emissions	
		Gas	Gas/Light oil	Light oil	Heavy oil	Gas/Heavy oil	Electronic	Class 2	Class 3
RPD 20	370	●	●	●	●	●	●	●	●
RPD 30	400	●	●	●	●	●	●	●	●
RPD 40	430	●	●	●	●	●	●	●	●
RPD 50	550	●	●	●	●	●	●	●	●
RPD 60	600	●	●	●	●	●	●	●	●
RPD 70	760	●	●	●	●	●	●	●	●
RPD 80	1060	●	●	●	●	●	●	●	●
RPD 90	1200	●	●	●	●	●	●	●	●
RPD 100	1250	●	●	●	●	●	●	●	●
RPD 130	2850	●	●	●	●	●	●	●	●
RPD 160	3080	●	●	●	●	●	●	●	●

DIMENSIONS (mm)

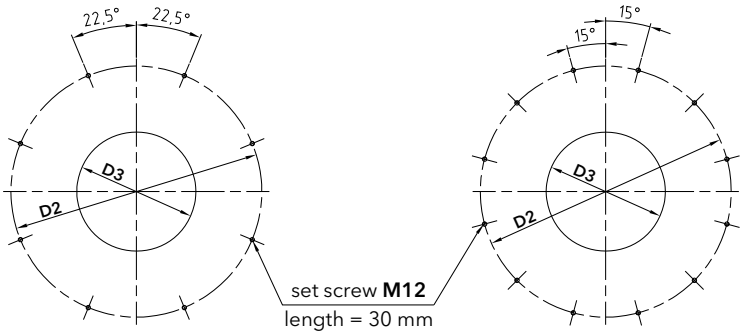




Air connection flange



Details of boiler front plate



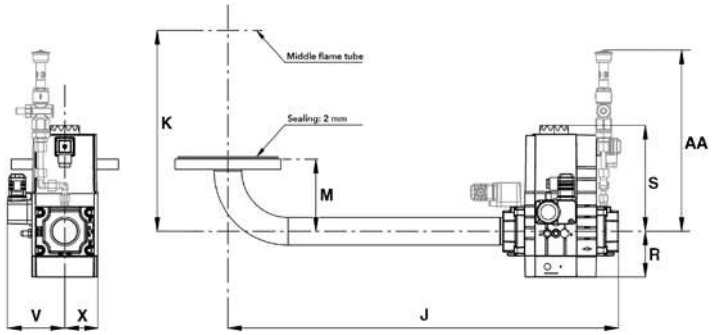
RPD 20 - 60 **RPD 70 - 100**

Model	A1	B8	D1	D2	D3	D4	D7	H1	H2	H3	H4	P1	P2	P3	P4	T	T1	T2	T3	V	W	X	Y	Z	LK	LP
RPD 20	*values dependent on design variant*																									
RPD 30	745	428	830	790	385	371	17,5	620	373	993	650	580	670	320	410	342	192	458	362	DN80	248	4X92	5x126	10	202	594
RPD 40	745	428	830	790	423	409	17,5	620	373	993	650	580	670	320	410	342	192	458	362	DN80	248	4x92	5x126	10	202	594
RPD 50	950	547	1030	990	470	456	17,5	675	475	1150	740	740	830	416	506	382	250	500	400	DN150	319	3x152	5x156	10	202	680
RPD 60	994	634	1080	1040	520	506	18	700	497	1197	825	750	840	470	560	439	270	520	420	DN150	379	4x129	5x160	10	202	704
RPD 70	1160	731	1240	1200	640	626	18	780	580	1360	900	936	1026	600	690	501	365	479	479	DN150	410	5x128	7x140	10	202	841
RPD 80	1350	860	1450	1400	740	710	18	820	675	1495	1000	1102	1192	700	790	561	310	647	547	DN150	489	6x125	9x128	10	202	909
RPD 90	1700	890	1800	1750	883	870	18	905	850	1755	1100	1300	1390	742	832	618	310	743	643	DN150	494	6x132	10x135	10	202	1043
RPD 100	1700	890	1800	1750	935	922	18	905	850	1755	1100	1300	1390	742	832	618	310	743	643	DN150	494	6x132	10x135	10	202	1043
RPD 130	*values dependent on design variant*																									
RPD 160	*values dependent on design variant*																									

*: value G and R are defined based on the coating of the boiler

Drawings and dimensions make reference to a standard burner version: they are shown for informational purposes only and may vary according to the chosen configuration.

DUNGS



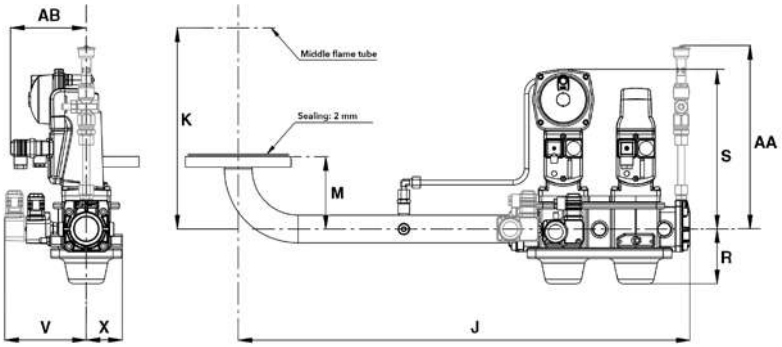
DUNGS basic gas trains delivery scope and description:
- gas compact unit MBC
- minimum gas pressure switch
- fittings between burner and gas train

DUNGS gas trains		
Designation	**Type**	**Code**
GT-d452-1"1/2 (1)	Threaded design Basic version	3750510
GT-d453-2" (1)		3750511
GT-d454-65	Flanged design Basic version	3750512
GT-d455-80		3750513
GT-d456-100		3750514

Dimensions	V	X	K		M	J	R	S	AA(2)
			EK6/N6	EK7/N7					
d1"1/2-Rp1"1/2	99	57	373	404	126	683	80	186	358
d2"-Rp2"	123	81	403	434	156	757	96	328	384
d65-DN65	106	98	351	382	104	793	183	246	357
d80-DN80	113	108	371	402	124	812	205	292	380
d100-DN100	125	125	371	402	124	854	250	329	398

(1): model with integrated filter
(2): in PED configuration

SIEMENS



SIEMENS basic gas trains delivery scope and description:
- gas compact unit VGD20/40 including actuators SKP15 and SKP25
- minimum gas pressure switch
- fittings between burner and gas train

SIEMENS gas trains		
Designation	**Type**	**Code**
GT-s451-1"1/2	Threaded design Basic version	3750525
GT-s452-2"		3750526
GT-s453-65	Flanged design Basic version	3750527
GT-s454-80		3750528
GT-s455-100		3750529
GT-s456-125		3750530

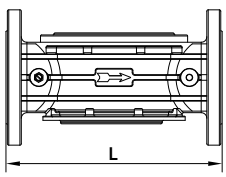
Dimensions	V	X	AB	K		M	J	R	S	AA(2)
				EK6/N6	EK7/N7					
s1"1/2-Rp1"1/2	105	68	125	373	404	126	800	103	279	320
s2"-Rp2"	105	68	125	403	434	156	800	103	279	325
s65-DN65	123	106	125	351	382	104	792	118	304	363
s80-dN80	125	108	125	371	402	124	812	132	314	371
s100-DN100	141	124	125	371	402	124	852	145	332	381
s125-DN125	155	138	125	371	402	124	902	175	350	396

(2): in PED configuration

Gas trains are fully mounted, electrical connected and tested (electrical, hydraulic, leakage)
Additional components (filter and other options) in order to comply to the local regulation and codes of practise must be ordered separately

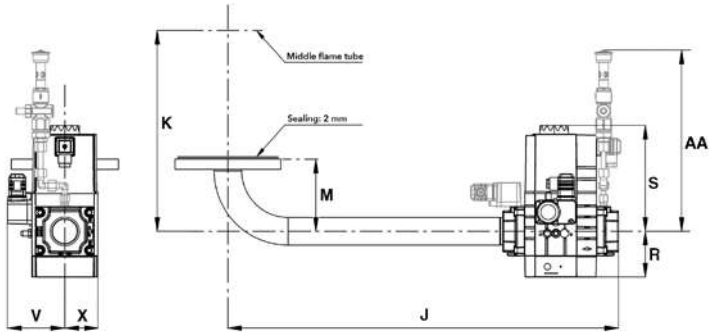
FILTERS

Gas filter with flange PN 16, with non-ferrous metal, max. working pressure 2 bar



DN40	L = 160 mm	3757196
DN50	L = 160 mm	3757197
DN65	L = 290 mm	3757198
DN80	L = 310 mm	3757201
DN100	L = 350 mm	3757195
DN125	L = 480 mm	3757209
DN150	L = 480 mm	3757210

DUNGS



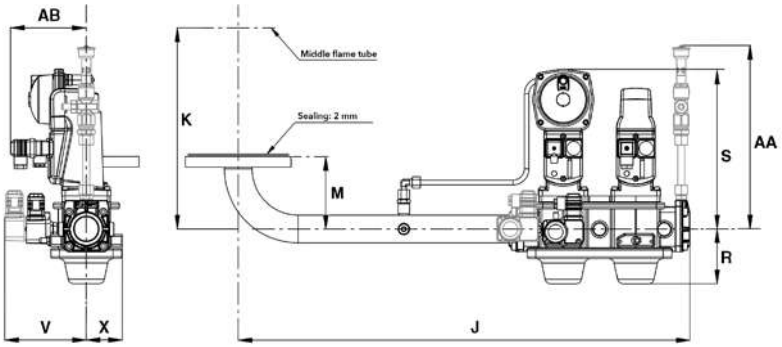
DUNGS basic gas trains delivery scope and description:
- gas compact unit MBC
- minimum gas pressure switch
- fittings between burner and gas train

DUNGS gas trains		
Designation	**Type**	**Code**
GT-d457-2" [1]	Threaded design	**3750515**
GT-d458-65	Flanged design Basic version	**3750516**
GT-d459-80		**3750517**
GT-d460-100		**3750518**

Dimensions	**V**	**X**	**K**				**M**	**J**	**R**	**S**	**AA[2]**
			EK... 8	**EK... 9**	**N8**	**N9**					
d2"-Rp2"	123	81	514	539	598	623	205	657	96	328	384
d65-DN65	106	98	514	539	598	623	205	693	183	246	357
d80-DN80	113	108	514	539	598	623	205	712	205	292	380
d100-DN100	125	125	514	539	598	623	205	754	250	329	398

[1]: model with integrated filter
[2]: in PED configuration

SIEMENS



SIEMENS basic gas trains delivery scope and description:
- gas compact unit VGD20/40 including actuators SKP15 and SKP25
- minimum gas pressure switch
- fittings between burner and gas train

SIEMENS gas trains		
Designation	**Type**	**Code**
GT-s457-2"	Threaded design	**3750537**
GT-s458-65	Flanged design Basic version	**3750538**
GT-s459-80		**3750539**
GT-s460-100		**3750540**
GT-s461-125		**3750541**

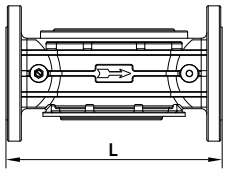
Dimensions	**V**	**X**	**AB**	**K**				**M**	**J**	**R**	**S**	**AA[2]**
				EK... 8	**EK... 9**	**N8**	**N9**					
s2"-Rp2"	105	68	125	514	539	598	623	205	701	103	279	325
s65-DN65	123	106	125	514	539	598	623	205	692	118	304	363
s80-dN80	125	108	125	514	539	598	623	205	712	132	314	371
s100-DN100	141	124	125	514	539	598	623	205	750	145	332	381
s125-DN125	155	138	125	514	539	598	623	205	800	175	350	396

[2]: in PED configuration

Gas trains are fully mounted, electrical connected and tested (electrical, hydraulic, leakage)
Additional components (filter and other options) in order to comply to the local regulation and codes of practise must be ordered separately

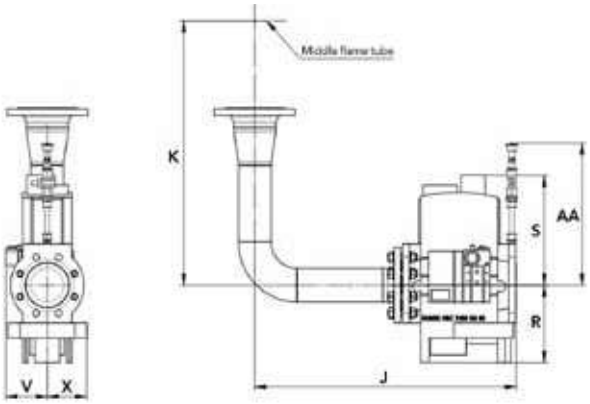
FILTERS

Gas filter with flange PN 16, with non-ferrous metal, max. working pressure 2 bar



DN40	L = 160 mm	**3757196**
DN50	L = 160 mm	**3757197**
DN65	L = 290 mm	**3757198**
DN80	L = 310 mm	**3757201**
DN100	L = 350 mm	**3757195**
DN125	L = 480 mm	**3757209**
DN150	L = 480 mm	**3757210**

DUNGS



DUNGS basic gas trains delivery scope and description:
- gas compact unit MBC
- minimum gas pressure switch
- connecting piece between burner and gas train

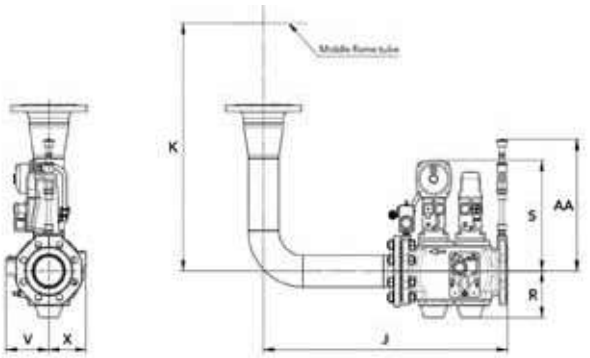
Other configurations: available on request

DUNGS gas trains		
Designation	**Type**	**Code**
d80	Flanged design Basic version	**on request**
d100		**on request**
d125		**on request**

Dimensions	J	K	R	S	V	X	AA(1)
d80	710	912	205	292	113	107	376
d100	754	912	250	329	124	125	395
d125	800	912	250	415	137	125	395

(1): in PED configuration

SIEMENS



SIEMENS basic gas trains delivery scope and description:
- gas compact unit VGD20/40 including actuators SKP15 and SKP25
- minimum gas pressure switch
- connecting piece between burner and gas train

Other configurations: available on request

SIEMENS gas trains		
Designation	**Type**	**Code**
s80	Basic configuration valve + connection pipe	**3757394**
s100		**3757395**
s125		**3757396**
s150		**3757397**

Dimensions	J	K	R	S	V	X	AA(1)
s80	710	912	132	312	125	108	372
s100	750	912	145	335	141	124	356
s125	800	912	175	348	155	138	392
s150	880	912	188	365	176	159	409

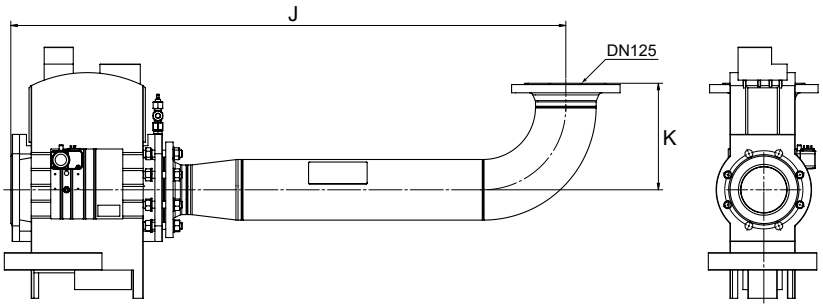
(1): in PED configuration

Gas trains are fully mounted, electrical connected and tested (electrical, hydraulic, leakage)
Additional components (filter and other options) in order to comply to the local regulation and codes of practise must be ordered separately

FILTERS

Gas filter with flange PN 16, with non-ferrous metal, max. working pressure 2 bar	DN80	L = 310 mm	**3757201**
	DN100	L = 350 mm	**3757195**
	DN125	L = 480 mm	**3757209**
	DN150	L = 480 mm	**3757210**

DUNGS



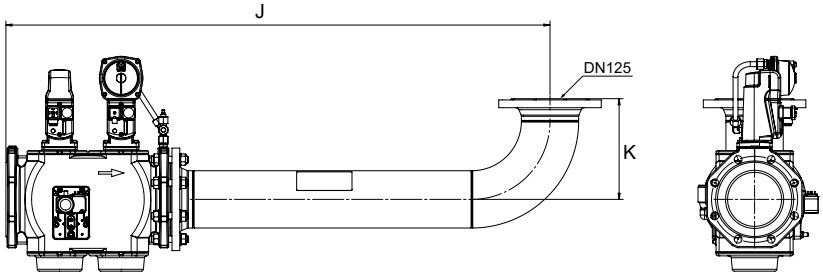
DUNGS basic gas trains description:
- gas train in standard configuration is mounted on the left side
- a support for the gas train is required additionally (code 3752216, see page 262)

Other configurations: available on request

DUNGS gas trains		
Designation	**Type**	**Code**
d100	Flanged design Basic version	**3758179**
d125		**3758180**

Dimensions	J	K
d100	1279	245,5
d125	1330	245,5

SIEMENS



SIEMENS basic gas trains description:
- gas train in standard configuration is mounted on the left side
- a support for the gas train is required additionally (code 3752216, see page 262)

Other configurations: available on request

SIEMENS gas trains		
Designation	**Type**	**Code**
s100	Basic configuration valve + connection pipe	**3758176**
s125		**3758177**
s150		**3758178**

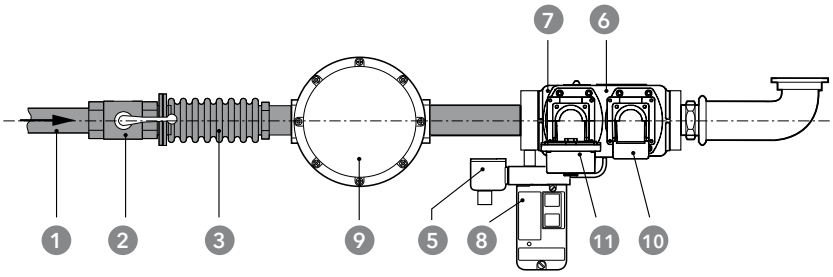
Dimensions	J	K
s100	1277	245,5
s125	1327	245,5
s150	1407	245,5

Gas trains are fully mounted, electrical connected and tested (electrical, hydraulic, leakage)
Additional components (filter and other options) in order to comply to the local regulation and codes of practise must be ordered separately

FILTERS

Gas filter with flange PN 16, with non-ferrous metal, max. working pressure 2 bar	DN80	L = 310 mm	**3757201**
	DN100	L = 350 mm	**3757195**
	DN125	L = 480 mm	**3757209**
	DN150	L = 480 mm	**3757210**

SIEMENS



1. main gas pipe
2. ball valve*
3. anti-vibration coupling*
5. minimum gas pressure switch
6. safety gas valve
7. main gas valve
8. leakage control device*
9. gas filter* (governor included in the valve)
10. actuator SKP 15
11. actuator SKP 25

*: additional components to be ordered separately, e.g.: maximum gas pressure switch and other gas options in order to comply to the local regulation and codes of practise

Designation	Description	Code
GT-2"	VGD20.503	on request
GT-DN65	VGD40.065	on request
GT-DN80	VGD40.080	on request
GT-DN100	VGD40.100	on request
GT-DN125	VGD40.125	on request

GHO-TRON configuration:
gas ignition unit is included in the body of the burner, the price is included in the burner price.

Gas trains are fully mounted, electrical connected and tested (electrical, hydraulic, leakage)
Additional components (filter and other options) in order to comply to the local regulation and codes of practise must be ordered separately

FILTERS

2"	on request
DN65 - 2"1/2	on request
DN80 - 3"	on request
DN100 - 4"	on request
DN125 - 5"	on request

GAS TRAIN CONNECTION PIPE

GTCP RP50 platform 2-3-4	GHO-TRON 2-3-4 with GT-2"	on request
GTCP reducer from DN80 to DN65 platform 2-3-4	GHO-TRON 2-3-4 with GT-DN65	on request
GTCP reducer from DN100 to DN80 platform 4-5	GHO-TRON 4-5 with GT-DN100	on request
GTCP reducer from DN125 to DN80 platform 5	GHO-TRON 5 with GT-DN125	on request

CONTROL UNITS BT320, BT330, BT340

The device is composed of a control box for safety and for programming the parameters of mono- and dual fuel burners with intermittent or continuous operation through a step by step servomotor up to 10 Nm.
The BT300 combines the benefits of an electronic fuel-air ratio control system with up to three motorised actuating devices and an optional modules like an analogue output for speed control of the combustion air fan with an electronic burner control unit.

The device is equippable with the following modules:
- fan speed regulation;
- burner power regulation;
- control of combustion air excess;
- CO control (through simple or combined probe);
- communication via Bus system.

The BT300 is available in three designs with the following specific functions:
- **BT320** for single fuel burner and intermittent operation, with an output 0...10 V, 0/4...20 mA and the management of two servomotors;
- **BT330** for single fuel burner and continuous operation, using suitable flame detectors, with an output 0...10 V, 0/4...20 mA and the management of three servomotors;
- **BT340** for dual fuel burner and continuous operation, using suitable flame detectors, with an output 0...10 V, 0/4...20 mA and the management of three servomotors.

Main characteristics of the control box:
- power supply: 230 V -15…+10%, 50 Hz;
- servomotors from 1,2 to 10 Nm.

COMMUNICATION MODULE

BT300 module for electronic burners mounted in the switch cabinet of the burner (Note: one LCM module is required)	ModBus/BT3	**3754081**
	ProfiBus/BT3	**3750142**
	Ethernet/BT3	**on request**

LCM MODULE

Module required for O_2 control, Variatron and communication buses connections	**3752286**

Note: only one LCM module is necessary for these 3 options; the module is already included on dual fuel burners

REMOTE SOFTWARE

Kit to connect a PC laptop to the BT300 for its parametrization	LSA100 + USB/CAN + CD-Rom	**3751130**

CONTROL UNITS ETAMATIC AND ETAMATIC OEM

The Etamatic control units are available on request according to the configuration of the burner selected.

Electronic control **Etamatic** with 4 DPS-adjusting outputs for servodrives up to 50 mA of direct current with:
- incorporated tightness control of the valves;
- incorporated regulator of power;
- incorporated counter of working hours with pulse transducer;
- incorporated relay of flame;
- incorporated program of O_2 regulation, including the Lamtec system with connecting bus.

Electronic control **Etamatic S** with a steady adjusting output for the regulation of the number of revolutions of the fan supplying the air of nurning and 4 DPS-adjusting outputs for the servodrives up to 50 mA of direct current with:
- incorporated tightness control of the valves;
- incorporated regulator of power;
- incorporated counter of working hours with pulse transducer;
- incorporated relay of flame;
- incorporated program of O_2 regulation, including the Lamtec system with connecting bus.

For the control of the number of revolutions it is required additionally:
- Static frequency converter;
- Switch Namur.

INTERFACE MODULES FOR ETAMATIC AND ETAMATIC OEM

Profibus module for ETA+OEM with 2 m cable	**3752995**
Modbus module RTU RS232 for ETA+OEM with 2m cable	**3752467**
Modbus module RTU RS422/484 for ETA+OEM with 2m cable	**3756474**
Ethernet module TCP/IP for ETA+OEM with 2m cable	**3757955**

ACCESSORIES FOR ETAMATIC OEM

Software for remote PC connection for Lamtec ETAMATIC OEM with all its accessories for the connection (available languages: English, German and French)	**3753366**
Customer interface (DISPLAY) for ETAMATIC OEM	**3751683**
Hand held programming unit for ETAMATIC OEM (languages: German and English) – Alternative to software 3753366 when PC is not available	**1718850339**
Hand held programming unit for ETAMATIC OEM (language: Russian) – Alternative to software 3753366 when PC is not available	**3754519**

Note: either customer interface or operation and display unit has to be included

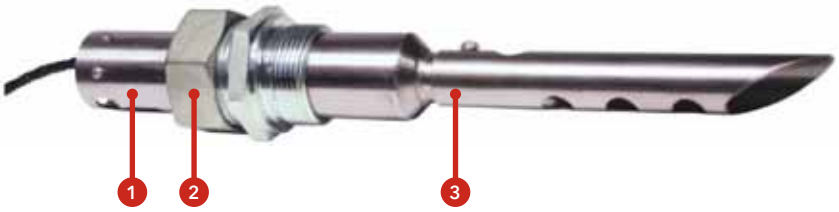
O_2 TRIM FOR BT300, ETAMATIC AND ETAMATIC OEM, FMS/VMS

This kit is used to optimize the combustion in order to keep the air excess as much stable as possible irrespective of the changes that can occur during operations, for instance slight calorific value variations, combustion air temperature and pressure. This improves the seasonal efficiency and therefore reduces the fuel consumption.

The kit includes the following components:
- Lambda transmitter LT3
- Lambda probe LS2
- Probe installation fitting (PIF)
- Gas extraction device (GED)

The control unit has to be installed close to the probe (max 25 m of cable)
The probe needs a calibration but no reference gas is necessary.
The display shows the O_2 content.
Maximum distance between the LT3 and the burner control panel is 500 m.

	Additional LSB modules installed at LT3	GED length	Code
Kit for O_2 trim (LT3 + LS2) **Flue temp max 300 °C – Display for O_2 visualization** (Note: for models equipped with BT3xx this kit needs a LCM module installed in the burner control panel)	none	150 mm	**3759296**
		300 mm	**3759297**
		450 mm	**3759298**
	4x 0/4-20 mA output	150 mm	**3759299**
		300 mm	**3759300**
		450 mm	**3759301**
	4x 0/4-20 mA output + 4x digital output	150 mm	**3759302**
		300 mm	**3759303**
		450 mm	**3759304**



1. Lambda Probe LS2 in standard housing up to 300°C (572°F); default cable length is 2 m (6.5 ft), FEP, with connecting plug
2. Probe installation fitting (PIF)
3. Gas extraction device (GED)

The lambda probe LS2 is equipped with a 2 m long connection cable to connect the probe to the transmitter (LT3).
The standard connection cable can be extended thanks to ready-made cables as well as the probe connection box (PCB) up to a total maximum distance between LS2 and LT3 of 25 m.

The PCB is a small terminal box that is connected to the 2 m cable already existing on the probe. The wiring between the PCB and the transmitter must be carried out at the intsallation site with suitable cables and trained personnel.

Description	Code
Extension LS2 cable 5m	**3759314**
Extension LS2 cable 10m	**3759315**
Extension LS2 cable 20m	**3759316**
Extension LS2 PCB	**3759317**

O_2/CO_e TRIM FOR BT300, ETAMATIC AND ETAMATIC OEM, FMS/VMS

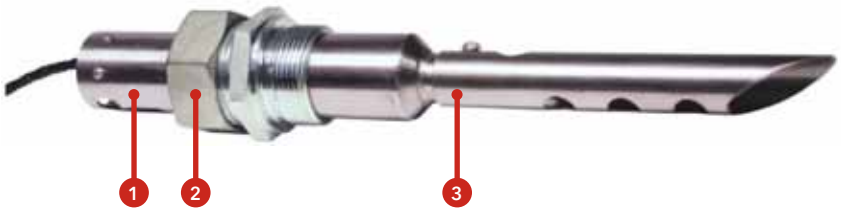
This kit is used for optimizing the combustion in order to keep the air excess as low as possible in order to maximize the seasonal efficiency and therefore minimize the fuel consumption.
In addition to the features of the O_2 trim only, this kit reduces the air excess to its minimum because this system continuously measures the content of unburned fuel (CO_e) in the flue: should the air excess be reduced too much, the CO_e raises and the system reacts by increasing the air excess in order to keep firing in safe conditions.

The kit includes the following components:
- Lambda transmitter LT3-F
- Lambda probe KS1D
- Probe installation fitting (PIF)
- Gas extraction device (GED)

The control unit has to be installed close to the probe (max 10 m of cable).
The probe needs a calibration but no reference gas is necessary.
The display shows the O_2 and CO_e content.
Maximum distance between the LT3-F and the burner control panel is 500 m.

Note: this system is not suitable for GL-EUF and L-EUF burners

	Additional LSB modules installed at LT3-F	GED length	Code
Kit for O_2 trim and CO control (LT3-F + KS1D) **Flue temp max 300 °C** (Note: for models equipped with BT3xx this kit needs a LCM module installed in the burner control panel)	none	150 mm	**3759305**
		300 mm	**3759306**
		450 mm	**3759307**
	4x 0/4-20 mA output	150 mm	**3759308**
		300 mm	**3759309**
		450 mm	**3759310**
	4x 0/4-20 mA output + 4x digital output	150 mm	**3759311**
		300 mm	**3759312**
		450 mm	**3759313**



1. Lambda Probe KS1D in standard housing up to 300°C (572°F); default cable length is 2 m (6.5 ft), FEP, with connecting plug
2. Probe installation fitting (PIF)
3. Gas extraction device (GED)

The lambda probe KS1D is equipped with a 2 m long connection cable to connect the probe to the transmitter (LT3-F).
The standard connection cable can be extended thanks to a 5 m ready-made cable as well as the probe connection box (PCB) up to a total maximum distance between KS1D and LT3-F of 10 m.

The PCB is a small terminal box that is connected to the 2 m cable already existing on the probe. The wiring between the PCB and the transmitter must be carried out at the installation site with suitable cables and trained personnel.

Description	Code
Extension KS1D cable 5m	**3759318**
Extension KS1D PCB	**3759319**

SPARE PARTS FOR O_2 AND O_2/CO TRIM

	Additional LSB modules installed	Code
Lambda transmitter LT3	none	**65314640**
	4x 0/4-20 mA output	**65314636**
	4x 0/4-20 mA output + 4x digital output	**65314637**
Lambda transmitter LT3-F	none	**65314641**
	4x 0/4-20 mA output	**65314638**
	4x 0/4-20 mA output + 4x digital output	**65314639**
LSB modules	4x 0/4-20 mA output	**65314642**
	4x digital output	**65314643**
Lambda probes	Lambda probe LS2	**65314644**
	Lambda probe KS1D	**65314645**
Probe installation fitting (PIF)		**65314646**
Gas extraction device (GED)	GED length 150mm	**65314647**
	GED length 300mm	**65314648**
	GED length 450mm	**65314649**

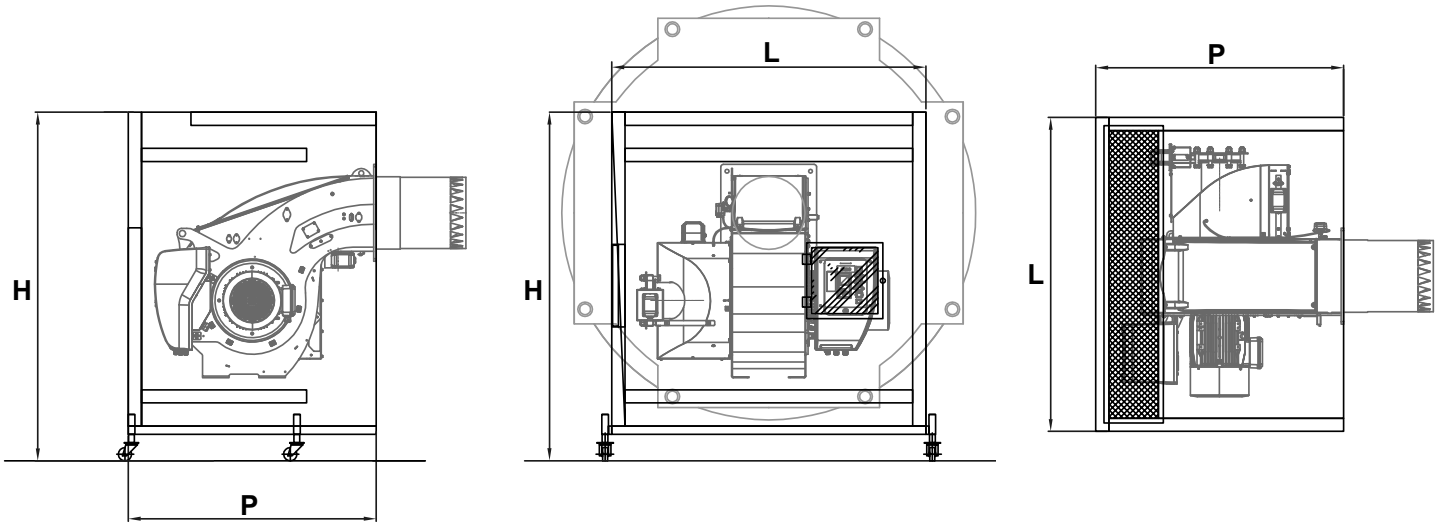
FREQUENCY CONVERTER ABB FOR EXTERNAL INSTALLATION

IP21 with: • EMC filter • Inductor • Control panel	3 kW	**3757054**
	4 kW	**3757055**
	5,5 kW	**3757056**
	7,5 kW	**3757057**
	11 kW	**3757058**
	15 kW	**3757059**
	18,5 kW	**3757060**
	22 kW	**3757061**
	30 kW	**3757062**
	37 kW	**3757063**
	45 kW	**3757064**
	55 kW	**3757065**
	75 kW	**3757066**
IP55 with: • EMC filter • Inductor • Control panel	3 kW	**3757067**
	4 kW	**3757068**
	5,5 kW	**3757069**
	7,5 kW	**3757070**
	11 kW	**3757071**
	15 kW	**3757072**
	18,5 kW	**3757073**
	22 kW	**3757074**
	30 kW	**3757075**
	37 kW	**3757076**
	45 kW	**3757077**
	55 kW	**3757078**
	75 kW	**3757079**

ACOUSTIC SHROUDS FOR EK EVO AND N10

Product description:

- sound level reduction (sound pressure level): ca. 20 ... 30 dB(A)
- sheet metal casing, structured coating, isolation with temperature resistant mineral wool
- noise absorption material acc. DIN 4102, covered with a glass fibre layer, covered with perforated sheet metal, galvanised
- easily disassembled into elements: base plate, side covers, top cover, air inlet section
- all elements easily connected via quick locks
- height of noise reduction casing adjustable on wheels
- feed through for gas-, oil- and electrical connections integrated in side covers following the requirements
- air inlet via noise reduction line
- if required, an oil recuperation tub can be integrated on the base plate
- for some boiler types a supporting frame for the casing may be necessary, due to the height of the burner tube over the floor



! Drawings and dimensions are shown for informational purposes and may vary depending on technical requirements.

MODELS FOR EK EVO

Designation	L (mm)	P (mm)	H (mm)	Weigth (kg)	Code
EKEVO 6.2400/2900 G-...	1450	1350	1200	200	**on request**
EKEVO 7.3600/4500 G-...	1550	1400	1300	246	**on request**
EKEVO 7.5800/7700 G-...	1570	1850	1300	246	**on request**
EKEVO 8.5800/7100 G-...	1760	1630	1580	325	**on request**
EKEVO 9.8700/10400 G-...	1750	1630	1750	368	**on request**
EKEVO 9.13000 G-...	1850	1750	1750	396	**on request**
EKEVO 6.2400/2900 GL-.../L-...	1450	1350	1200	200	**on request**
EKEVO 7.3600/4500 GL-.../L-...	1550	1400	1300	246	**on request**
EKEVO 8.5800/7100 GL-.../L-...	1760	1630	1580	335	**on request**
EKEVO 9.6500...10400 GL-.../L-...	1760	1630	1750	378	**on request**

MODELS FOR N10

Designation	L (mm)	P (mm)	H (mm)	Weigth (kg)	Code
N10 G-...	1900	1780	1900	478	**on request**
N10 GL-...	1900	1780	1900	488	**on request**
N10 L-...	1900	1780	1900	488	**on request**

NOTE: Before submitting your order please provide information on the boiler model and the type of installation: floor standing boiler or boiler mounted on a base.

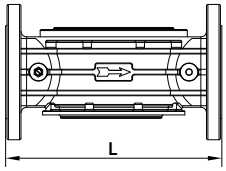
BALL VALVE

Female threaded ball valve, max. working gas pressure: 1 bar	FRp1/2"	**3751028**
	FRp3/4"	**3751029**
	FRp1"	**3751030**
	FRp1"1/2	**3751031**
	FRp2"	**3751032**
Flanged ball valve, max. working gas pressure: 16 bar	DN40	**3751033**
	DN50	**3751034**
	DN65	**3751035**
	DN80	**3751036**
	DN100	**3751037**
	DN125r	**3751038**
	DN150	**3751039**

ANTI-VIBRATION COUPLING (COMPENSATOR)

Male-threaded anti-vibration coupling	MRp1"	**3751018**
	MRp1"1/2	**3751019**
	MRp2"	**3751020**
Flanged anti-vibration coupling, max. working gas pressure: 10 bar	DN40	**3751021**
	DN50	**3751022**
	DN65	**3751023**
	DN80	**3751024**
	DN100	**3751025**
	DN125	**3751026**
	DN150	**3751027**

GAS FILTER

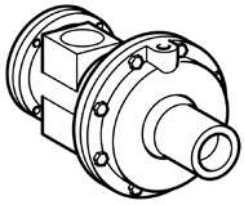


Filter with non-ferrous metal, max. working pressure: 2 bar	Rp1"1/2	L = 160 mm	**3757199**
	Rp2"	L = 160 mm	**3757200**
Filter with flange PN16, non-ferrous metal, max. working pressure: 2 bar	DN40	L = 230 mm	**3757196**
	DN50	L = 230 mm	**3757197**
	DN65	L = 290 mm	**3757198**
	DN80	L = 310 mm	**3757201**
	DN100	L = 350 mm	**3757195**
	DN125	L = 480 mm	**3757209**
	DN150	L = 480 mm	**3757210**
Filter with flange PN16, non-ferrous metal, max. working pressure: 6 bar	DN40	L = 230 mm	**3757205**
	DN50	L = 230 mm	**3757206**
	DN65	L = 290 mm	**3757207**
	DN80	L = 310 mm	**3757208**
	DN100	L = 350 mm	**3757202**
	DN125	L = 480 mm	**3757203**
	DN150	L = 480 mm	**3757204**

PRESSURE REGULATOR

Gas pressure regulator GDJ **Max. working pressure 0,4 bar, non-ferrous metal** 	GDJ Rp1/2" x 100 mm	with spring 16 ... 28 mbar	**3333123399**
		spring for 10 … 20 mbar	**1478682742**
		spring for 22 … 40 mbar	**1478781122**
		spring for 40 … 55 mbar	**12001218**
	GDJ Rp3/4" x 125 mm	with spring 12,5 … 25 mbar	**3333123400**
		spring for 22,5 … 35 mbar	**3753834**
		spring for 30 … 50 mbar	**3753835**
	GDJ Rp1" x 125 mm	with spring 12,5 … 25 mbar	**3333123401**
		spring for 22,5 … 35 mbar	**3753834**
		spring for 30 … 50 mbar	**3753835**
	GDJ Rp1"1/2 x 155 mm	with spring 12,5 … 25 mbar	**3333123402**
		spring for 22,5 … 35 mbar	**3753840**
		spring for 30 … 50 mbar	**3753841**
	GDJ Rp2" x 200 mm	with spring 12,5 … 25 mbar	**3333123403**
		spring for 22,5 … 35 mbar	**3753847**
		spring for 30 … 50 mbar	**3753848**
Gas pressure regulator FRS **Max. working pressure 0,4 bar, non-ferrous metal** 	FRS s40-DN40 x 200 mm	with spring 10 … 30 mbar	**1478490702**
		red spring for 25 … 55 mbar	**1478435327**
		yellow spring for 30 … 70 mbar	**1478435338**
		black spring for 60 … 110 mbar	**1478435349**
	FRS s50-DN50 x 230 mm	with spring 10 … 30 mbar	**1478490713**
		red spring for 25 … 55 mbar	**1478435372**
		yellow spring for 30 … 70 mbar	**1478435383**
		black spring for 60 … 110 mbar	**1478435394**
	FRS s65-DN65 x 290 mm	with spring 10 … 30 mbar	**1478490724**
		red spring for 25 … 55 mbar	**1478435429**
		yellow spring for 30 … 70 mbar	**1478435430**
		black spring for 60 … 110 mbar	**1478435441**
		pink spring for 100 ... 150 mbar	**1478494328**
	FRS s80-DN80 x 310 mm	with spring 10 … 30 mbar	**3750211**
		red spring for 25 … 55 mbar	**1478435429**
		yellow spring for 30 … 70 mbar	**1478435430**
		black spring for 60 … 110 mbar	**1478435441**
		pink spring for 100 ... 150 mbar	**1478494328**
	FRS s100-DN100 x 350 mm	with spring 10 … 30 mbar	**12001097**
		red spring for 25 … 55 mbar	**1478435474**
		yellow spring for 30 … 70 mbar	**1478435485**
		black spring for 60 … 110 mbar	**1478435496**
		pink spring for 100 ... 150 mbar	**1478781519**
	FRS s125-DN125 x 400 mm	with spring 10 … 30 mbar	**12001098**
		red spring for 25 … 55 mbar	**1478434982**
		yellow spring for 30 … 70 mbar	**1478434993**
		black spring for 60 … 110 mbar	**1478435009**
		pink spring for 100 ... 150 mbar	**1478740474**
	FRS s150-DN150 x 480 mm	with spring 10 … 30 mbar	**12001099**
		red spring for 25 … 55 mbar	**1478435032**
		yellow spring for 30 … 70 mbar	**1478435043**
		black spring for 60 … 110 mbar	**1478435054**
		pink spring for 100 ... 150 mbar	**1478781484**

PRESSURE REGULATOR

Gas pressure regulator RS 250	with safety valve and flange PN16, max. working pressure 6 bar	RS250 DN25 x 230 mm	**1478541586**
		RS250 DN50 x 230 mm	**1478541597**
		RS250 DN80 x 310 mm	**1478541600**
		RS250 DN100 x 350 mm	**1478541611**
		RS250 DN150 x 480 mm	**1478541622**
Gas pressure regulator RS 251	with safety valve and flange PN16, max. working pressure 4 bar	RS251 DN50 x 310 mm	**1478548747**
		RS251 DN80 x 410 mm	**1478548758**
Safety blow-off valve S10 	with internal thread Rp1", max. working pressure 1 bar	discharge pressure 80 mbar	**1478687054**
		discharge pressure 100 mbar	**1478687065**
		discharge pressure 120 mbar	**1478687076**
		discharge pressure 140 mbar	**1478687087**
		discharge pressure 160 mbar	**1478687098**
		discharge pressure 180 mbar	**1478687101**
		discharge pressure 200 mbar	**1478687112**
		discharge pressure 220 mbar	**1478687123**
		discharge pressure 240 mbar	**1478687134**
		discharge pressure 260 mbar	**1478687145**
		discharge pressure 280 mbar	**1478687156**
		discharge pressure 300 mbar	**1478687167**

GAS PRESSURE SWITCH

	For installation on double electromagnetic valves, max. working pressure 0,5 bar	GW50A5	**3751554**
		GW150A5	**3751555**
		GW500A5	**3752190**
	For installation on electromagnetic/motorized valves, max. working pressure 0,5 bar	GW50A6	**3752189**
		GW150A6	**3751556**
		GW500A6	**3751557**

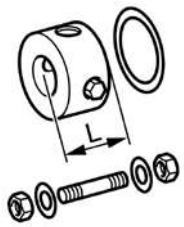
MANOMETER

	**Gas manometers with push-button valve, Rp1/2"**	0 – 60 mbar	**3751627**
		0 – 100 mbar	**3751546**
		0 – 160 mbar	**3751550**
		0 – 250 mbar	**3751551**
		0 – 600 mbar	**3751552**
		0 – 1,6 bar	**3751545**
		0 – 6 bar	**3751544**

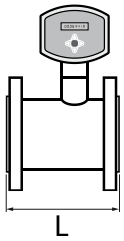
TEST BURNER

Test burner with push-button valve, Rp1/2"	max pressure 0,5 bar	**3751553**

INSERT RING

	**Insert ring with connections Rp1/2" and Rp3/4" for manometer and test burner**	DN40	L = 50 mm	**3752194**
		DN50	L = 50 mm	**3752195**
		DN65	L = 50 mm	**3752196**
		DN80	L = 50 mm	**3752197**
		DN100	L = 50 mm	**3752198**
		DN125	L = 50 mm	**3752199**
		DN150	L = 50 mm	**3752200**

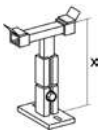
FLOW COUNTER

	**TME 400-VM without 4-20mA output**	DN50 – PN10	100 m³/h	L = 150 mm	**3757525**
		DN80 – PN10	250 m³/h	L = 120 mm	**3757526**
		DN80 – PN10	400 m³/h	L = 120 mm	**3757527**
		DN100 – PN10	400 m³/h	L = 150 mm	**3757528**
		DN100 – PN10	650 m³/h	L = 150 mm	**3757529**
		DN150 – PN10	1000 m³/h	L = 175 mm	**3757530**
		DN150 – PN10	1600 m³/h	L = 175 mm	**3757531**
		DN200 – PN16	1600 m³/h	L = 200 mm	**3757532**
		DN200 – PN16	2500 m³/h	L = 200 mm	**3757533**
	TME 400-VM-A with 4-20mA output	DN50 – PN10	100 m³/h	L = 150 mm	**3757534**
		DN80 – PN10	250 m³/h	L = 120 mm	**3757535**
		DN80 – PN10	400 m³/h	L = 120 mm	**3757536**
		DN100 – PN10	400 m³/h	L = 150 mm	**3757537**
		DN100 – PN10	650 m³/h	L = 150 mm	**3757538**
		DN150 – PN10	1000 m³/h	L = 175 mm	**3757539**
		DN150 – PN10	1600 m³/h	L = 175 mm	**3757540**
		DN200 – PN16	1600 m³/h	L = 200 mm	**3757541**
		DN200 – PN16	2500 m³/h	L = 200 mm	**3757542**

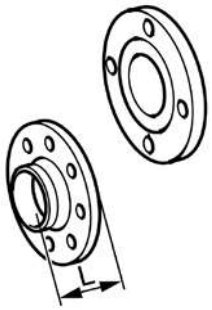
FLEXIBLE HOSE

	**Stainless steel, max pressure 4 bar**	Rp1/2"	L = 500 mm	**4488681772**
		Rp1/2"	L = 1000 mm	**4488681783**
		Rp3/4"	L = 500 mm	**4488681794**
		Rp3/4"	L = 1000 mm	**4488682708**
		Rp1"	L = 500 mm	**4488682719**
		Rp1"	L = 1000 mm	**4488682720**
	Stainless steel, max pressure 1 bar	Rp3/8"-Rp1/2"	L = 500 mm	**4488696511**
		Rp3/8"-Rp1/2"	L = 1000 mm	**4488696522**
		d2"-Rp2"	L = 500 mm	**4488696533**
		d2"-Rp2"	L = 1000 mm	**4488696544**

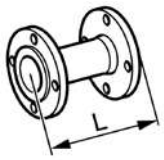
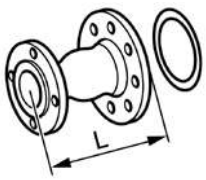
HOLDER

	**Holder for gas train**	For gas train DN40...DN150 Support height: x = 545…935 mm	**3752216**

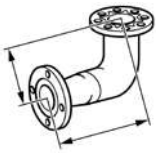
FLANGES

	**Threaded flange PN16**	Rp3/4"	**3333109195**
		1"	**3333109196**
		Rp1"1/2	**3333109197**
		Rp2"	**3333109198**
	Welded flange PN16	DN40 x 42 mm	**5318353048**
		DN50 x 45 mm	**5318428082**
		DN65 x 45 mm	**5318428093**
		DN80 x 50 mm	**5318428106**
		DN100 x 52 mm	**5318428117**
		DN125 x 55 mm	**5318428128**
		DN150 x 55 mm	**5318428139**

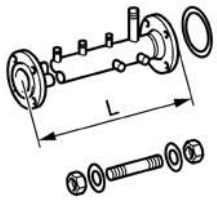
STRAIGHT PIPE

	**Flanged, PN16**	DN40 x 500 mm	**3752235**
		DN50 x 250 mm	**3752236**
		DN50 x 500 mm	**3752237**
		DN65 x 250 mm	**3752238**
		DN65 x 500 mm	**3752239**
		DN80 x 250 mm	**13019834**
		DN80 x 500 mm	**1688421230**
		DN100 x 250 mm	**3752240**
		DN100 x 500 mm	**1688421252**
		DN125 x 250 mm	**1688421525**
		DN125 x 500 mm	**1688421274**
		DN150 x 250 mm	**1688421536**
		DN150 x 500 mm	**1688421296**
	**Adapting, flanged PN16**	DN25 – DN40 x 144 mm	**1688541804**
		DN25 – DN50 x 159 mm	**1688586714**
		DN25 – DN65 x 173 mm	**1688590469**
		DN25 – DN80 x 254 mm	**1688653209**
		DN40 – DN50 x 163 mm	**3752223**
		DN40 – DN65 x 177 mm	**3752224**
		DN40 – DN80 x 182 mm	**3752226**
		DN50 – DN65 x 180 mm	**3752225**
		DN50 – DN80 x 185 mm	**3752227**
		DN50 – DN100 x 197 mm	**1688590458**
		DN65 – DN80 x 197 mm	**1688421401**
		DN65 – DN100 x 197 mm	**1688421412**
		DN80 – DN100 x 202 mm	**1688421423**
		DN80 – DN125 x 232 mm	**1688421434**
		DN80 – DN150 x 245 mm	**1688602591**
		DN100 – DN125 x 234 mm	**1688421445**
		DN100 – DN150 x 247 mm	**1688421456**
		DN125 – DN150 x 250 mm	**1688421467**

ELBOW PIPE

Angle 	90°, male/female	Rp3/4"	**3333109257**
		Rp1"	**3333103790**
		Rp1"1/4	**3333116894**
		Rp1"1/2	**3333103791**
		Rp2"	**3333103792**
	90°, female/female	Rp1"	**3333109311**
		Rp1"1/2	**3333110711**
		Rp2"	**3333110712**
Elbow 	PN16, connection Rp1/2"	DN40 x 99 mm	**3752182**
		DN50 x 121 mm	**3752183**
		DN65 x 140 mm	**3752184**
		DN80 x 164,5 mm	**3752185**
		DN100 x 204,5 mm	**1688421354**
		DN125 x 245,5 mm	**1688421365**
		DN125 x 283,5 mm	**1688421376**
Connection piece 	90°, flanged PN16	DN65 – DN40 x 235 mm	**1688551557**
		DN65 – DN50 x 235 mm	**1688551568**
		DN80 – DN40 x 246,5 mm	**1688421092**
		DN80 – DN50 x 249,5 mm	**1688421105**
		DN80 – DN65 x 249,5 mm	**1688421116**
		DN80 – DN80 x 264,5 mm	**1688421127**
		DN80 – DN100 x 266,5 mm	**1688590481**
		DN100 – DN65 x 297,5 mm	**3755875**
		DN100 – DN80 x 302,5 mm	**1688551615**
		DN150 – DN65 x 503,5 mm	**1688666166**
		DN150 – DN80 x 418,5 mm	**1688421138**
		DN150 – DN100 x 420,5 mm	**1688421149**
		DN150 – DN125 x 423,5 mm	**1688421150**
		DN150 – DN150 x 423,5 mm	**1688421161**

GAS PIPE

Connections	h3/8"-Rp1/2"x300 mm with two connections 1/2" and one connection 1/4" for DMV SE 512		**3333212374**
	d2"-Rp2"x300 mm with two connections 1/2" and one connection 1/4" for DMV SE 520		**3333212375**
	Connections for test burner, pressure switch, pressure valve, pressure release valve, ignition valve, safety valve	DN40 x 900 mm	**14030405**
		DN50 x 900 mm	**14030449**
		DN65 x 950 mm	**code on request**
		DN80 x 1100 mm	**14030504**
		DN100 x 1300 mm	**14030537**
		DN125 x 1550 mm	**code on request**
		DN150 x 1800 mm	**14030570**

SEALS AND CONNECTING KIT

	**Screwing set:** **1 seal,** **4 bolts,** **4 nuts,** **4 washers**	DN25	**3751547**
		DN40	**3751040**
		DN50	**3756205**
		DN65	**3756206**
		DN80	**3756207**
		DN100	**3756208**
		DN125	**3756209**
		DN150	**3756210**

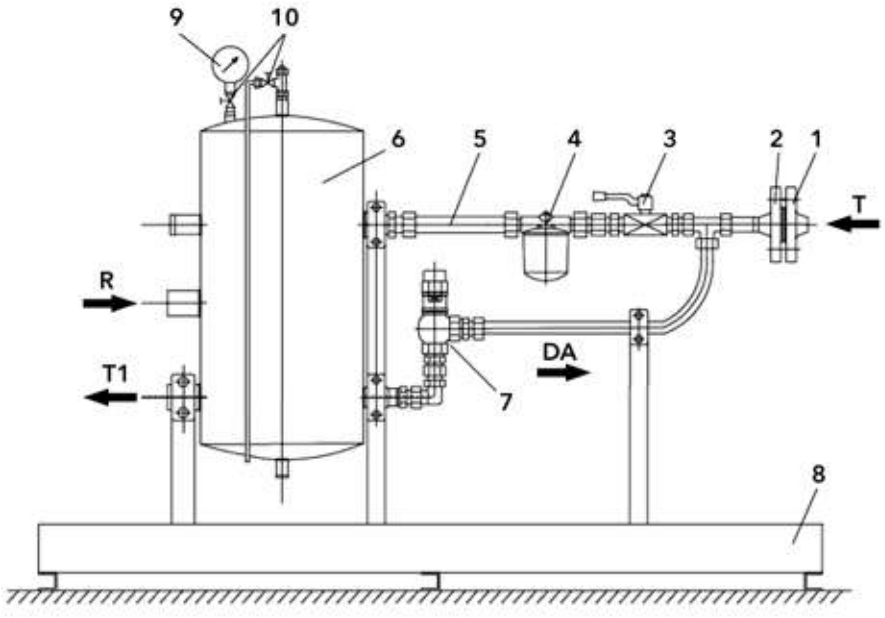
UNITS FOR AIR-SEPARATION OF RETURN FUEL, TYPE LBA...A

Units for air-separation of return fuel for single-pipe installation with monoblock burners and systems according to DIN 4755/2 and TRD 411 or TRD 604.

- Fuel: light oil type EL and L (heavy oil M and S on request)
- Supply pressure: 1 to 5 bar
- Internal setting: max 45°C

Other designs (e.g. for suction operation or deviating accessories) may be provided on request.

Basic design A for supply pressure:

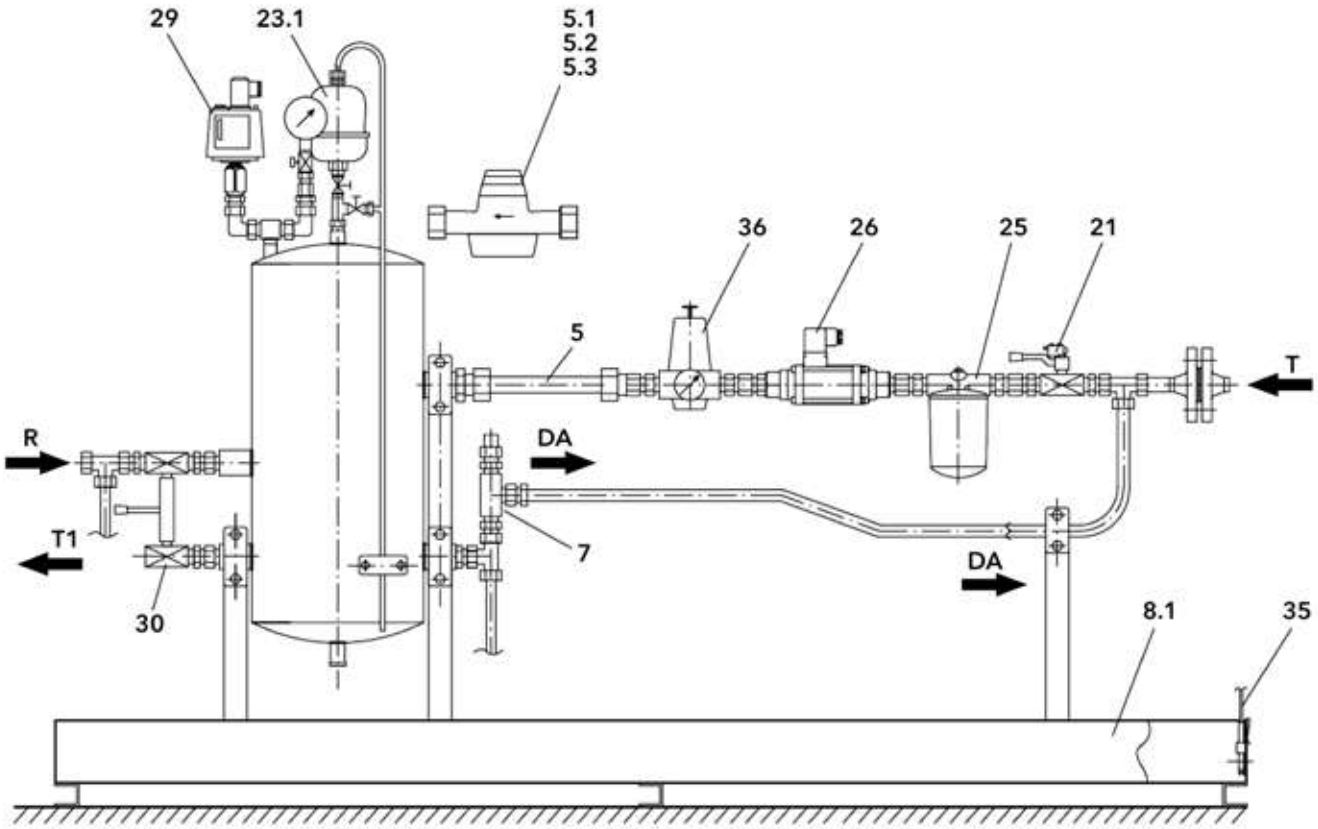


Base equipment

1. Welded flange PN16
2. Connecting flange PN16
3. Ball valve PN16
4. Fuel filter
5. Fuel rate counter with roller counter
6. Pressure tank
7. Relief valve
8. Fuel collector with holding
9. Glycerol manometer 0...10 bar
10. Air valve

		LBA 600 A	LBA 1200 A	LBA 2400 A	LBA 3000 A
Burner pump capacity	[l/h]	600	1200	2400	3000
Fuel rate for burner capacity "T"	[l/h]	10 … 200	10 … 400	30 … 1000	75 … 2000
Flange connection "T" on feed line	PN16	DN15	DN15	DN20	DN25
Burner connection "R" and "T1" (feed + return pipe)		Rp1/2"	Rp3/4"	Rp1"	Rp1"
Volume pressure tank	[l]	5	18	30	30
Dimension L x B	[mm]	1050 x 360	1400 x 500	1400 x 500	1400 x 500
Code		**on request**	**on request**	**on request**	**on request**

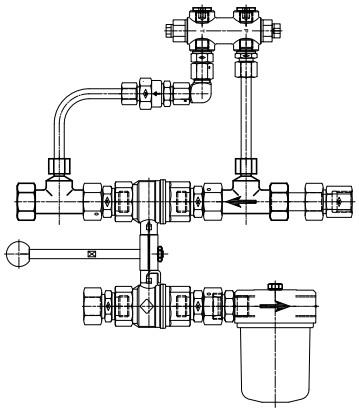
OPTIONS FOR AIR-SEPARATION UNIT, TYPE LBA...A



Ref.	Brief description	Description	LBA 600 A	LBA 1200 A	LBA 2400 A	LBA 3000 A
5.1	HZ	Oil meter	VZO 15 to 25 RC			
5.2	RV	Pulse generator RV (Reed)	RV = 0,1 for VZO 15; RV = 1 for VZO 20 – 40			
5.3	IN	Pulse generator IN (Inductive)	IN = 0,1 for VZO 15; IN = 1 for VZO 20 – 40			
21	EE	End position switch, including bracket	230 V / 50 Hz / IP65, mounted onto ball valve, tested at installation			
23	G / SE	Automatic float air vent for optimum ventilation	Rp3/8", PN16, 150°C			
25	EF	Fuel filter	Rp3/4", PN10, 100µ	Rp3/4", PN10, 100µ	Rp1", PN6, 100µ	Rp1", PN6, 100µ
26	M	Piston solenoid valve, DIN & TÜV tested	Rp1/2" – DN10	Rp1/2" – DN10	Rp3/4" – DN15	Rp1" – DN15
29	S	Oil pressure switch	Rp1/2", 230 V / 50 Hz, setting range 0,5 ... 6 bar			
30	DK	Double ball valve combination	Rp1/2"	Rp3/4"	Rp3/4"	Rp1"
35	LH	Leakage detector integrated into oil pan, type LMW	230 V / 50 Hz / IP65, sensor length: 1,5 m			
36	DM	Pressure regulator valve	0,2 ... 2,5 bar			
7	DA	Pressure equalization as safety valve with component test available at an additional cost, set to 3 bar with sealing cap				

All codes on request.

OIL CONNECTION UNIT



Unit consists of:
- double ball valve (with or without limit switch);
- oil filter
- safety valve with relief valve, non return valve
- pipes, theaded connections, seals

Unit with double ball valve with limit switch	Rp 1/2"	**3755291**
	Rp 3/4"	**3754259**
	Rp 1"	**3755292**
Unit with double ball valve without limit switch	Rp 1/2"	**14037863**
	Rp 3/4"	**14037874**
	Rp 1"	**14037885**

MANOMETER

	Manometer/vacuometer glycerine-filled Connection Rp1/2" A radial	-1...+3 bar	**1098748467**
		-1...+5 bar	**1098748478**
		0...4 bar	**1098748489**
		0...6 bar	**3333116345**
		0...10 bar	**1098748490**
		0...16 bar	**1098585471**
		0...25 bar	**3333261128**
		0...40 bar	**1090160374**
		0...60 bar	**1098114290**
	Kit manometer hydraulic block N6/N7		**3755398**

LEAKAGE CONTROL DEVICE

	Signal device for oil for wall mounting LMW with 1 optoelectronic detector, signal part in housing HxBxT=140x85x60mm 230 V / 50-60 Hz / IP40	
	with cable 1,5 m	**3755932**
	with cable 15 m	**3755933**
	with cable 30 m	**3755934**

AIR VALVE

Automatic air valve with ball valve Rp3/8"	**1478812577**

RELIEF/PRESSURE MAINTAINING VALVE

		Connection (DN)	Fuel rate	Pressure	
	Threaded design, directly adjustable, with spring load for keeping adjusted working and max pressure, viscosity range 2,8...480 cSt	1/4"	6...120 l/h	0,5...1,5 bar	**1478812044**
				1...4 bar	**1478730083**
				2...9 bar	**1478731940**
		3/8"	15...160 l/h	0,5...1,5 bar	**1478812055**
				1...4 bar	**1478812066**
				2...9 bar	**1478812077**
		1/2"	30... 600 l/h	0,5...1,5 bar	**1478812088**
				1...4 bar	**1478720874**
				2...9 bar	**1478812099**
		3/4"	100...2000 l/h	0,5...3,5 bar	**1478812102**
				2...9 bar	**1478812113**
		1"	300...6000 l/h	0,5...1,5 bar	**1478812124**
				1...4 bar	**1478812135**
				2...9 bar	**1478812146**
		1"1/4	500...10000 l/h	0,5...1,5 bar	**1478812157**
				1...4 bar	**12001314**
				2...9 bar	**1478812168**
	Flanged design, directly adjustable, with spring load for keeping adjusted working and max pressure, viscosity range 2,8...480 cSt	DN15	30...600 l/h	0,5...1,5 bar	**1478812179**
				1...4 bar	**1478729973**
				2...9 bar	**1478812180**
		DN20	100...2000 l/h	0,5...3,5 bar	**1478812191**
				2...9 bar	**1478812204**
		DN25	300...6000 l/h	0,5...1,5 bar	**1478812215**
				1...4 bar	**1478785851**
				2...9 bar	**1478812226**
		DN32	500...10000 l/h	0,5...1,5 bar	**1478812237**
				1...4 bar	**1478812248**
				2...9 bar	**1478812259**

WELDED FLANGE

	Welded flange PN 16 according to DIN 2633, form C from RSt 37-2 as external flange for oil mounting PN16	DN15	**5318675203**
		DN20	**3333101876**
		DN25	**5318353059**
		DN32	**5318704652**
		DN40 x 42 mm	**5318353048**
		DN50 x 45 mm	**5318428082**
	Welded flange PN40 according to DIN 2635, form C from C22 as external flange for oil mounting PN40	DN15	**5318557486**
		DN20	**3333101916**
		DN25	**5318556494**
		DN32	**5318556507**
		DN40 x 42 mm	**5318556518**
		DN50 x 45 mm	**5318575308**

SEALS AND CONNECTING KIT

Screwing set: 1 seal, pin screws, hexagon nuts, lining washer	DN15 PN16 / PN40	**3752201**
	DN20 PN16 / PN40	**3752202**
	DN25 PN16 / PN40	**3752203**

BALL VALVE

0...60°C for 64 bar, 0...120°C for 40 bar, 20...150°C for 30 bar	1/4"	**1478736157**
	1/2"	**1478736168**
	3/4"	**1478736179**
	1"	**1478736180**
-20...150°C for 16 bar	DN25	**1478732910**
	DN32	**1478732921**
	DN40	**1478732932**
	DN50	**1478732943**
	DN65	**1478732954**
	DN80	**1478732965**
-20...120°C for 40 bar, -20...150°C for 30 bar	DN15	**1478734938**
	DN20	**1478734949**
	DN25	**1478734950**
	DN32	**1478734961**
	DN40	**1478734972**
	DN50	**1478734983**

LIGHT OIL FILTER

300 – 100 l/h	Rp3/8" male (burner side) / female – 70 µm – one pipe	**3333110172**
700 – 200 l/h	Rp1/2" female (burner side) / female – 75 µm – one pipe	**3333115483**
300 – 100 l/h	Rp3/8" male (burner side) / female – 70 µm – two pipes	**3333110175**
700 – 200 l/h	Rp1/2" female (burner side) / female – 75 µm – two pipes	**3755728**

OIL FILTER FD FOR SUCTION AND PRESSURE OPERATION

Oil pressure max. 2 bar

Rp 1/2" – 700 l/h	**3754100**
Rp 3/4" – 1700 l/h	**3754101**
Rp 1" – 2000 l/h	**3754102**

LIGHT OIL FLOW COUNTER

Without pulse transducer	10 ... 400 l/h	16 bar	Rp1/2"	**1368746803**
	10 ... 400 l/h	16 bar	DN15	**1368746892**
	30 ... 1000 l/h	16 bar	Rp3/4"	**1368746836**
	30 ... 1000 l/h	16 bar	DN20	**1368746927**
	75 ... 2000 l/h	16 bar	Rp1"	**1368746869**
	75 ... 2000 l/h	16 bar	DN25	**1368746950**
With pulse transducer RV 0,1 (Reed)	10 ... 400 l/h	16 bar	Rp1/2"	**1368746814**
	10 ... 400 l/h	16 bar	DN15	**1368746905**
	30 ... 1000 l/h	16 bar	Rp3/4"	**1368746847**
	30 ... 1000 l/h	16 bar	DN20	**1368746938**
	75 ... 2000 l/h	16 bar	Rp1"	**1368746870**
	75 ... 2000 l/h	16 bar	DN25	**1368746961**
With pulse transducer IN 0,01 (Inductive)	10 ... 400 l/h	16 bar	Rp1/2"	**1368746825**
	10 ... 400 l/h	16 bar	DN15	**1368746916**
	30 ... 1000 l/h	16 bar	Rp3/4"	**1368746858**
	30 ... 1000 l/h	16 bar	DN20	**1368746949**
	75 ... 2000 l/h	16 bar	Rp1"	**1368746881**
	75 ... 2000 l/h	16 bar	DN25	**1368746972**
Threaded connection	VSR – Rp1/2"			**3753933**
	VSR – Rp3/4"			**3754536**
	VSR – Rp1"			**3755097**

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