

# elco

# ULTRA LOW NO<sub>x</sub> SOLUTIONS







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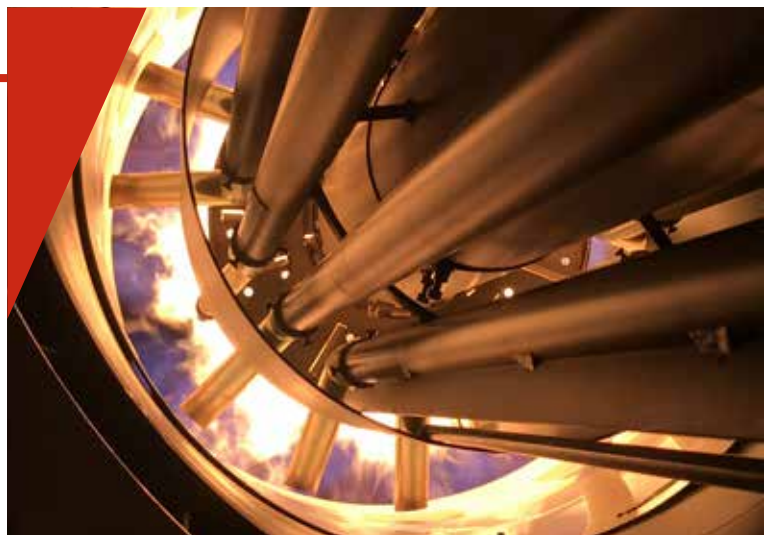


# CUTTING-EDGE BURNERS FOR HEATING AND INDUSTRIAL APPLICATIONS

## OUR COMPANY

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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

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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 on-going 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 reliable products.



## OUR INNOVATIVE SOUL

The perfect combination of expertise and inventive spirit provides ELCO the drive to constantly improve its product lines and create new ones to meet 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 allow NOx emissions to be drastically reduced and which use alternative fuels, as happens for example with hydrogen burners, a product of the future that ELCO is already capable of to offer today.



## 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.

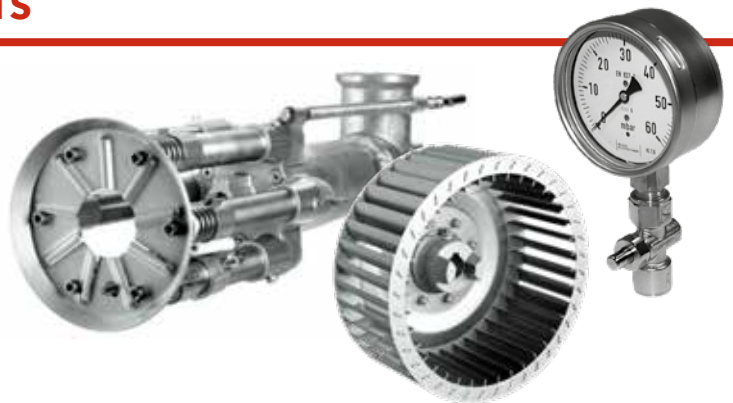
We provide the opportunity for boiler room personnel, operators and engineers to attend a series of training sessions carried out on our test bench by highly qualified instructors, who hold the courses in English, German, French, Italian and Dutch language.

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.

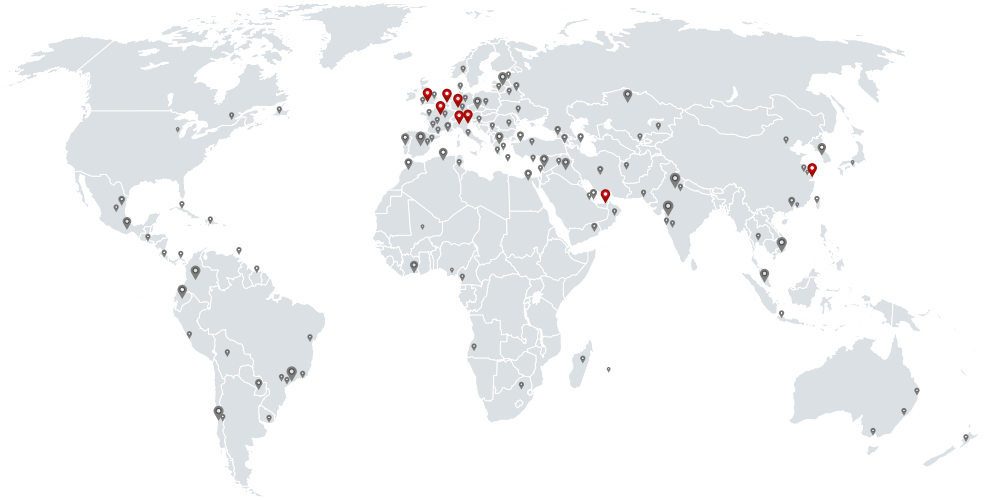


## WORLDWIDE NETWORK

Capitalising on almost 100 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.

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



### 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.

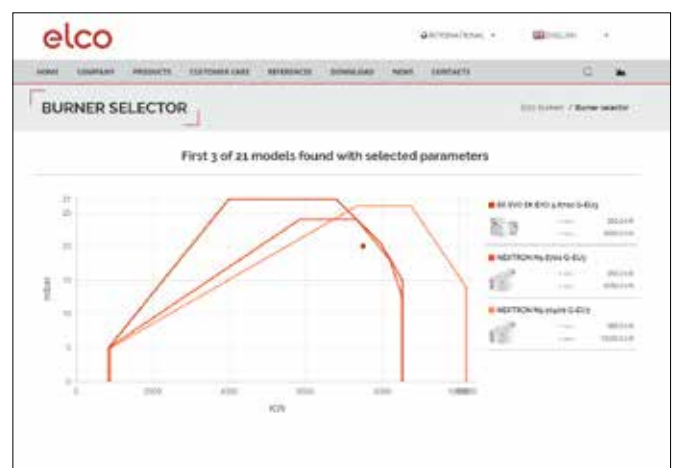
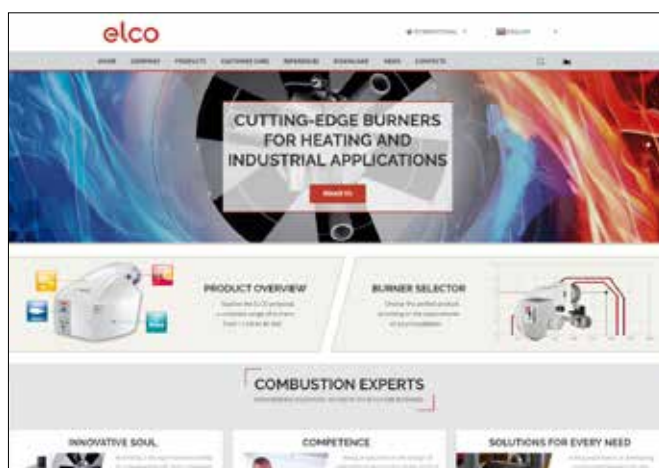
These technicians are able to perform both commissioning and local service and they do it in a very professional and efficient way.

## 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](http://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.



# 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



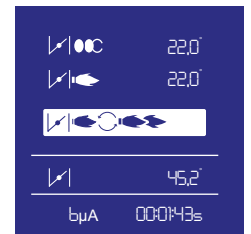
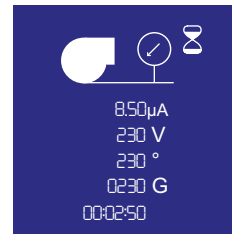
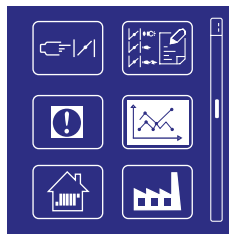
Equipped with the MDE2 System, the universal language Elcogram and the 5-button keyboard, ELCO burners adjust themselves and constantly communicate to the technicians and operators:

- real time information about each ignition and during the running;
- statistical information about the burner operations recorded during the whole year before the maintenance operations.

"ELCOGRAM":  
universal language  
based on symbols  
and numerical data

Display shows  
all information for  
daily operation

Menu-driven burner  
setup and operation  
via keypad



### 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 state of the art 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



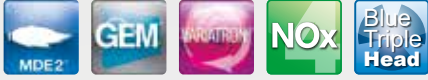
The functional housing design of all ELCO burners, combined with the innovative combustion head technologies, creates the RTC System (Retained Head Adjustment) and provides the user with several advantages:

- 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.

# EK EVO, NEXTRON, N

**LOW NO<sub>x</sub> CLASS 4 MONOBLOCK BURNERS**  
FROM 440 TO 14300 kW  
GAS



**NO<sub>x</sub>**  
**<50**  
**mg/kWh**

## **BLUE TRIPLE HEAD: Extreme low NO<sub>x</sub> values and high flame stability**

ELCO combustion technologies are able to reach the NO<sub>x</sub> levels required by the most stringent standards for all types of boiler furnaces. Thanks to the introduction of the new «Blue Triple Head», the ELCO product range is enriched with new potential, offering burners with exceptional performance which at the same time guarantee NO<sub>x</sub> values well below the limits set by the class 4 of the EN676 Directive, without the application of external fuel gas recirculation technology.

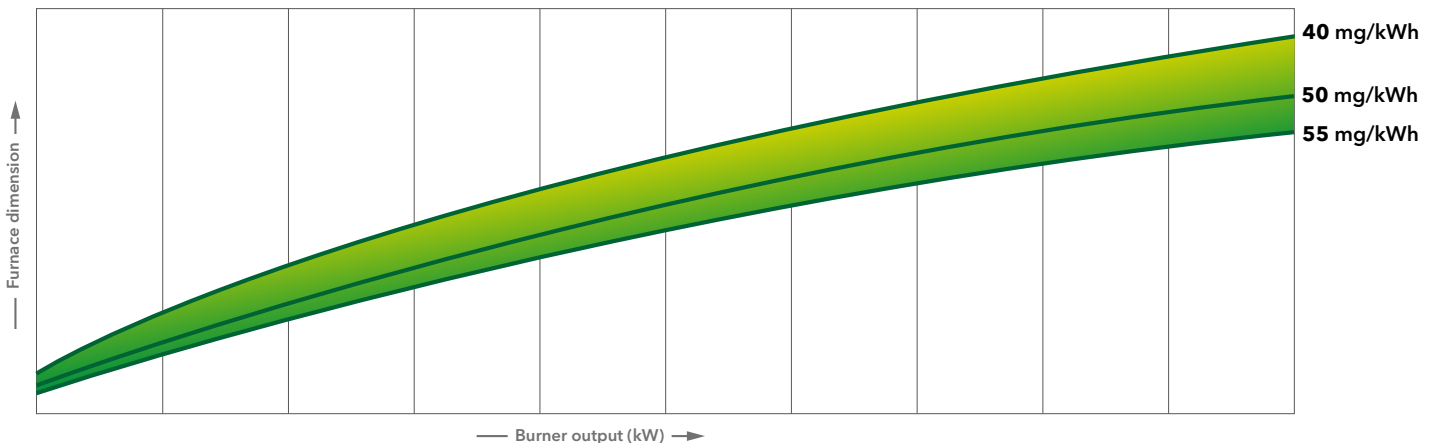
The principle of the "Blue Triple Head" is based on a stage combustion combined with an internal recirculation of the combustion flue gases.

Multi-Stage Combustion allows stable nucleus flame and highest internal flue gas recirculation in next stage.

The result is a very low NO<sub>x</sub> value, a CO tending to 0 and a high stability that guarantee the limits even in standard combustion chambers.



The exceptional performance of the «Blue Triple Head» guarantees the possibility, depending on the size of the combustion chamber, of reaching NO<sub>x</sub> values even lower than 40 mg/kWh.



## MAIN TECHNICAL FEATURES

- Two stage progressive/modulating forced draught burner
- Fully electronic modulation system
- High modulation ratio, up to 1:9
- "Blue Triple Head" combustion technology guaranteeing NOx at lowest level
- Configurable industrial switch cabinet to meet the majority of the application requirements
- Easily adjustable combustion head to adapt to different boiler specifications and emission level requirements
- Flame tube available in different lengths
- 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 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
  - 2014/68/EU Pressure Equipment Directive (optional)

## RANGE OVERVIEW



**/ EK EVO**  
440 / 11350 kW  
Page 12

**/ NEXTRON**  
440 / 9440 kW  
Page 20

**/ N**  
1300 / 14300 kW  
Page 28

## PRODUCT LIST

<b>EK EVO 7.4000</b>	440 - 4040 kW	
<b>EK EVO 8.6600</b>	730 - 6610 kW	
<b>EK EVO 9.7200</b>	890 - 7200 kW	
<b>EK EVO 9.9400</b>	980 - 9440 kW	
<b>EK EVO 9.11300</b>	1250 - 11350 kW	
<b>N7.4000</b>	440 - 4040 kW	
<b>N8.6600</b>	730 - 6610 kW	
<b>N9.7200</b>	890 - 7200 kW	
<b>N9.9400</b>	980 - 9440 kW	
<b>N10.12000</b>	1300 - 12400 kW	
<b>N10.14000</b>	1700 - 14300 kW	
<b>N10.16000</b>	in progress	
<b>N11.19500</b>	in progress	
<b>N11.22000</b>	in progress	

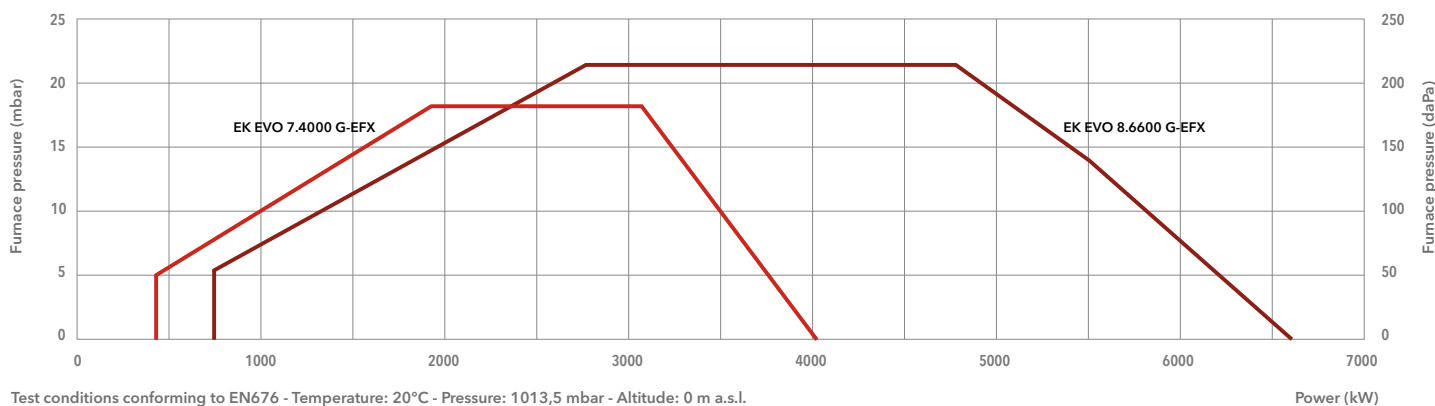
**EKEVO 7 G-EFX / EKEVO 8 G-EFX**

440 ... 6610 kW

Two stage progressive/modulating electronic

NOx  
<50  
mg/kWh

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm<sup>3</sup>
- **Emission class:** Low NOx class 4 (≤60 mg/kWh) according to EN676
- **Protection level:** IP 41

**TECHNICAL DATA**

	EKEVO 7.4000 G-EFX	EKEVO 8.6600 G-EFX	
<b>Operating range</b>	440 – 4040 kW	730 – 6610 kW	
<b>Gas pressure</b>	100 – 500 mbar (100 – 360 mbar for d705)	135 – 500 mbar	
<b>Gas connection</b>	DN65	DN100	
<b>Control box / flame detector</b>	BT300 / KLC	BT300 / KLC	
<b>Auxiliary voltage</b>	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S	
<b>Power supply</b>	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz	
<b>Fan motor</b>	50 Hz – 7,5 kW	50 Hz – 15 kW	
<b>Acoustic level</b>	<80,6 dB(A)	<87,6 dB(A)	
<b>CE certificate</b>	0085CL0215	0085CL0215	
<b>Burner codes (body + head)</b>	KN	3759493	3759813
	KM	3759494	3759814
	KL	3759495	3759815

**GAS TRAINS****SIEMENS**

Models for EK EVO 7	Code
GT-s705-2"	3759284
GT-s701-65	3759280
GT-s702-80	3759281
GT-s703-100	3759282
GT-s704-125	3759283

Models for EK EVO 8	Code
GT-s901-65	3759286
GT-s902-80	3759287
GT-s903-100	3759288
GT-s904-125	3759289

**DUNGS**

Models for EK EVO 7	Code
GT-d705-2" (*)	3759628
GT-d701-65	3759625
GT-d702-80	3759626
GT-d703-100	3759627

Models for EK EVO 8	Code
GT-d901-65	3759630
GT-d902-80	3759631
GT-d903-100	3759632

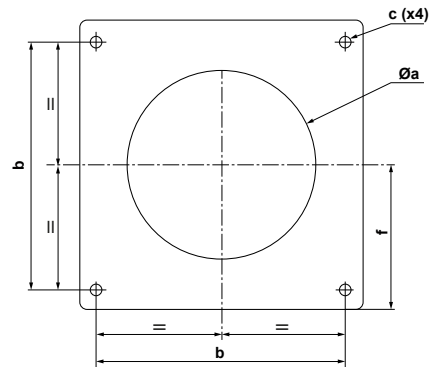
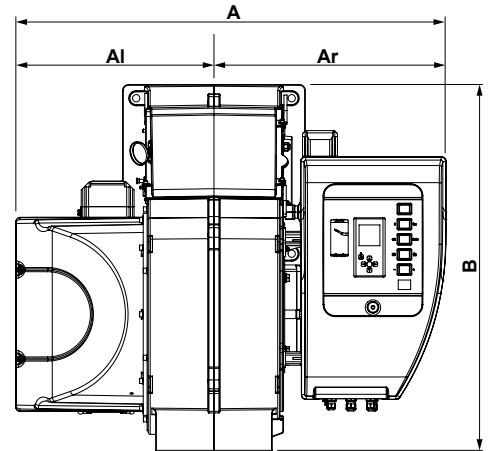
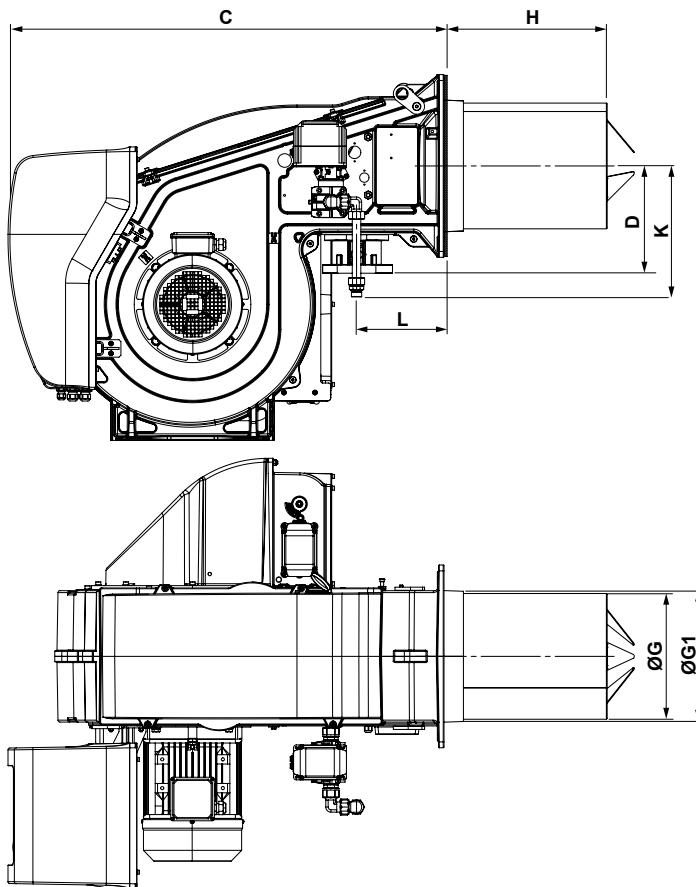
\*: integrated filter

**FILTERS**

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



## DIMENSIONS (mm)



Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			K	L	Øa	b	c	f
										KN	KM	KL						
EK EVO 7.4000	1107	510	597	941	1130	276	235	325	338	420	550	680	320	233	360-400	400	M16	235
EK EVO 8.6600	1323	670	653	1231	1352	307	293	369	376	575	725	875	377*/366**	230	380-410	505	M20	293

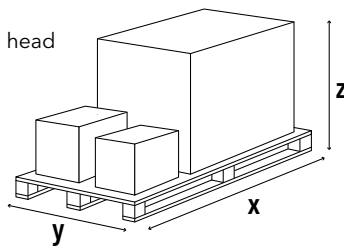
\*: applies to gas connectors DN100/65 and DN100/85

\*\* : applies to gas connectors DN100/100 and DN100/125

## 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 7.4000	2046	1414	1233	300
EK EVO 8.6600	2046	1414	1233	300

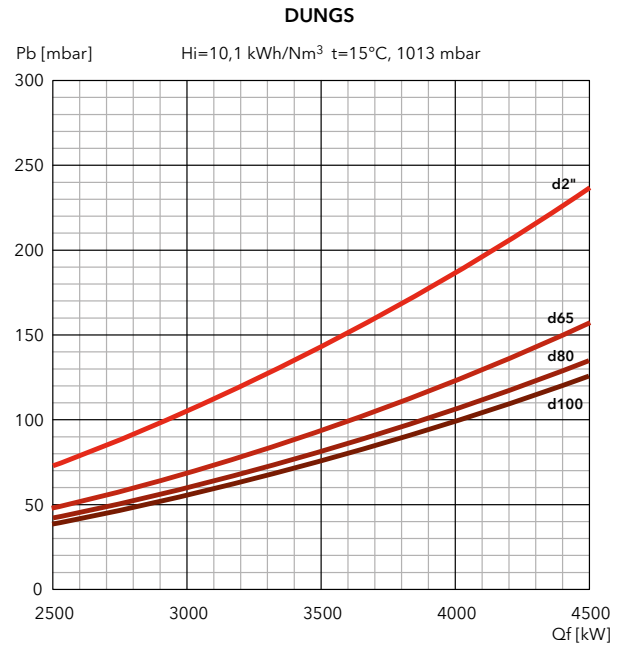
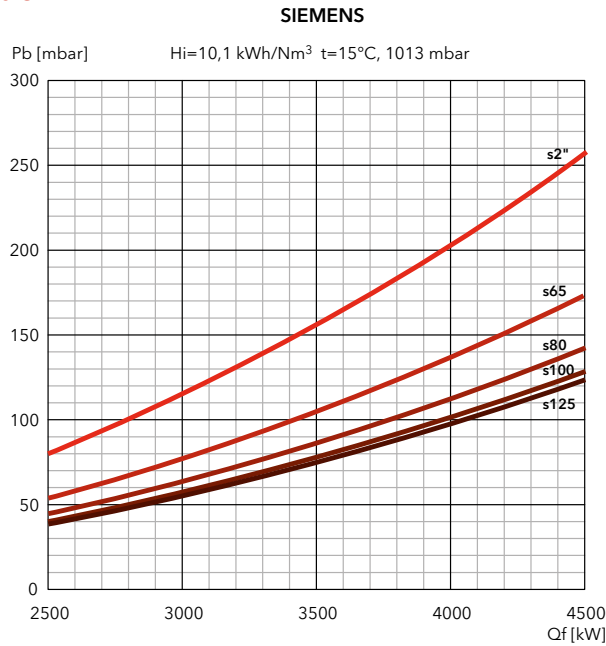
# EKEVO 7 G-EFX / EKEVO 8 G-EFX

440 ... 6610 kW

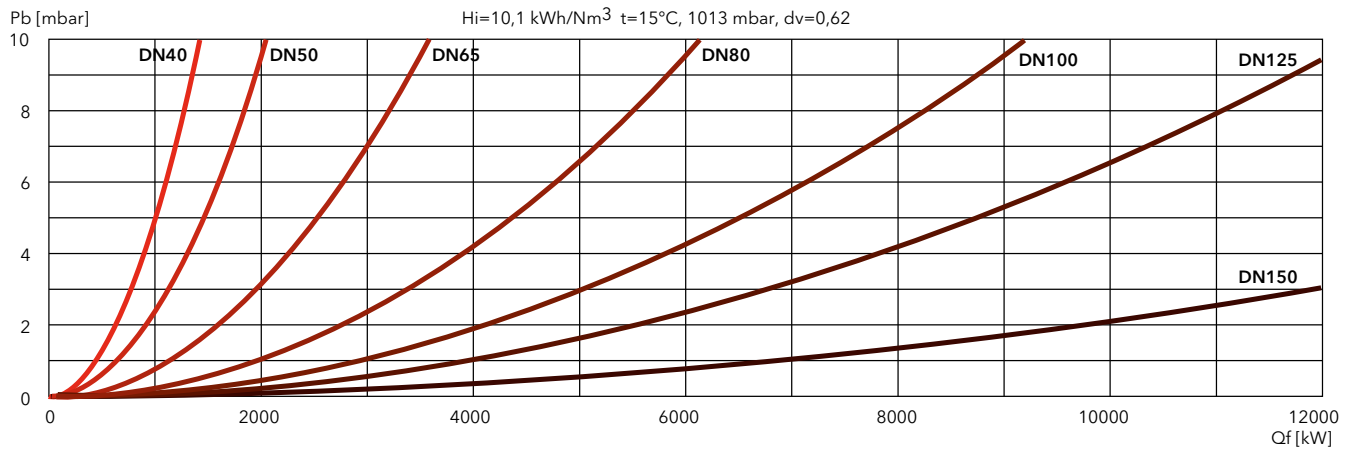
Two stage progressive/modulating electronic

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

### EKEVO 7.4000 G-EFX



### FILTERS

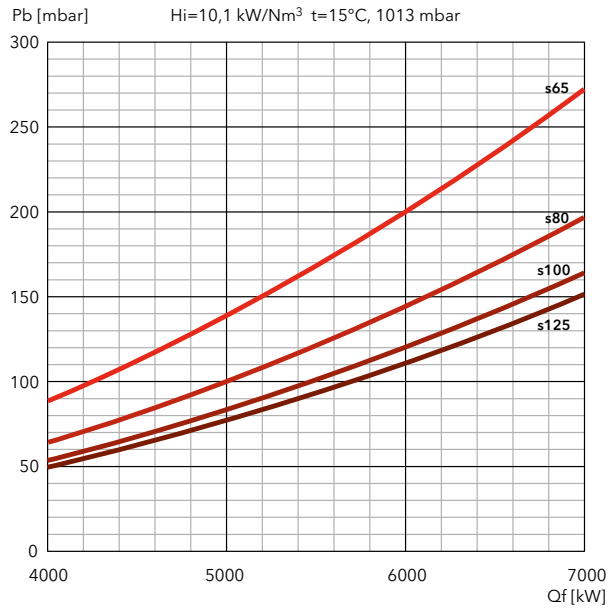




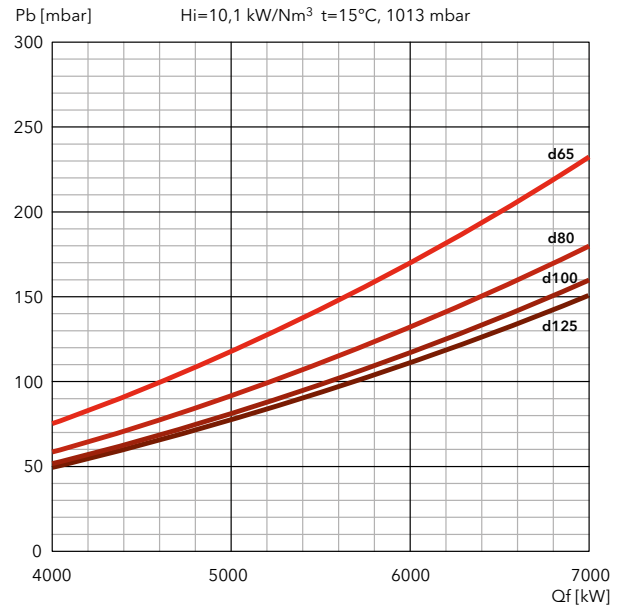
## PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

### EK EVO 8.6600 G-EFX

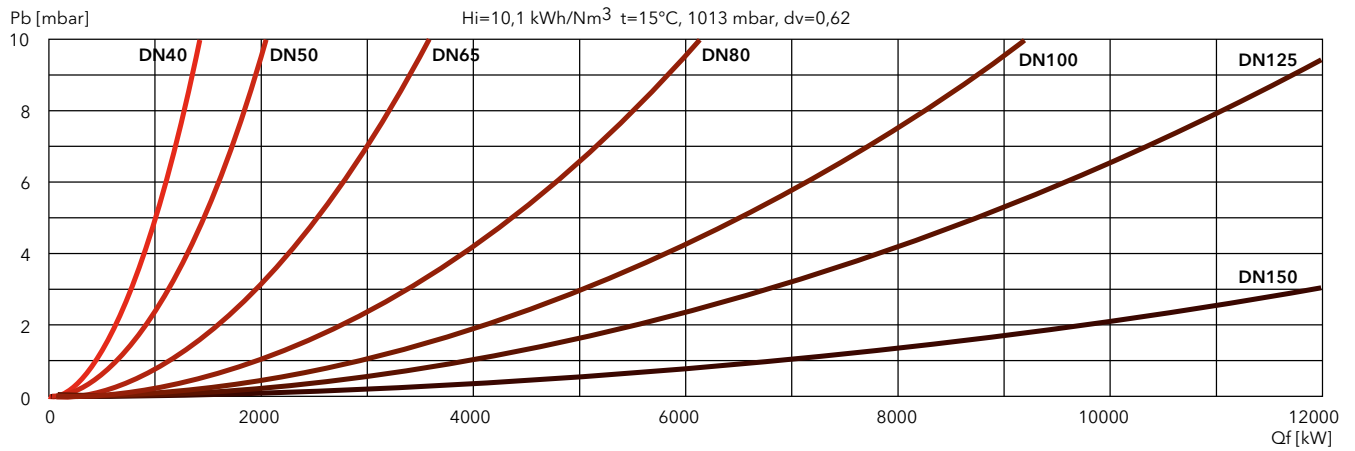
#### SIEMENS



#### DUNGS



## FILTERS



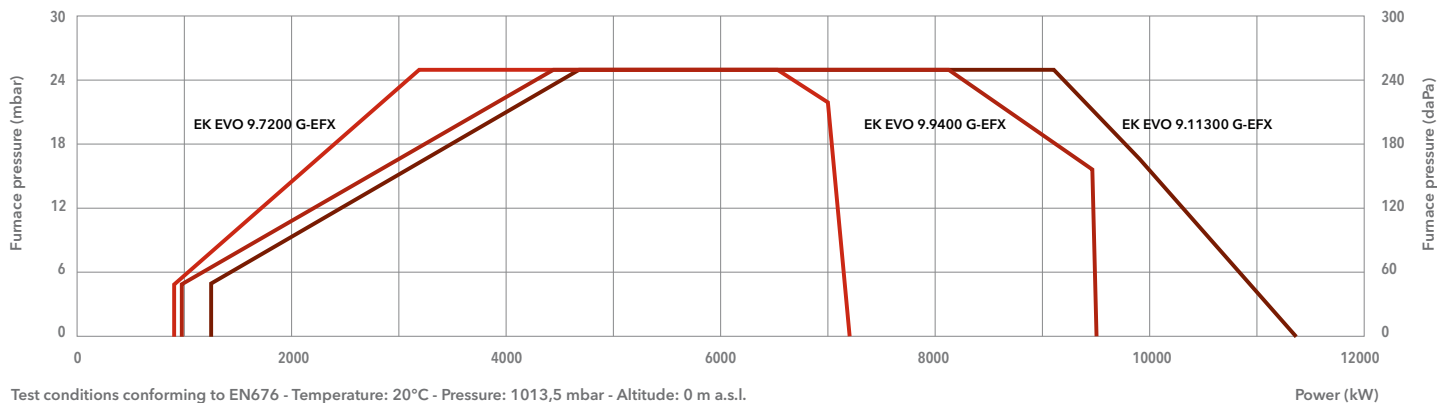
**EKEVO 9 G-EFX**

890 ... 11350 kW

Two stage progressive/modulating electronic


**NOx  
<50  
mg/kWh**

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm<sup>3</sup>
- **Emission class:** Low NOx class 4 (≤60 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 9.7200 G-EFX	EK EVO 9.9400 G-EFX	EK EVO 9.11300 G-EFX
<b>Operating range</b>	890 - 7200 kW	980 - 9440 kW	1250 - 11350 kW
<b>Gas pressure</b>	150 - 500 mbar	175 - 500 mbar	155 - 500 mbar
<b>Gas connection</b>	DN100	DN100	DN100
<b>Control box / flame detector</b>	BT300 / KLC	BT300 / KLC	BT300 / KLC
<b>Auxiliary voltage</b>	1NPE AC 230 V - 50 Hz TN-S	1NPE AC 230 V - 50 Hz TN-S	1NPE AC 230 V - 50 Hz TN-S
<b>Power supply</b>	3PE AC 400 V - 50 Hz	3PE AC 400 V - 50 Hz	3PE AC 400 V - 50 Hz
<b>Fan motor</b>	50 Hz - 22 kW	50 Hz - 22 kW	50 Hz - 37 kW
<b>Acoustic level</b>	<84,4 dB(A)	<87,2 dB(A)	<88,6 dB(A)
<b>CE certificate</b>	0085CL0215	0085CL0215	0085CL0215
<b>Burner codes (body + head)</b>	KN	<b>3760498</b>	<b>3761544</b>
	KM	<b>3760499</b>	<b>3761545</b>
	KL	<b>3760500</b>	<b>3761546</b>

**GAS TRAINS****SIEMENS**

Model	Code
GT-s901-65	3759286
GT-s902-80	3759287
GT-s903-100	3759288
GT-s904-125	3759289

**DUNGS**

Model	Code
GT-d901-65	3759630
GT-d902-80	3759631
GT-d903-100	3759632

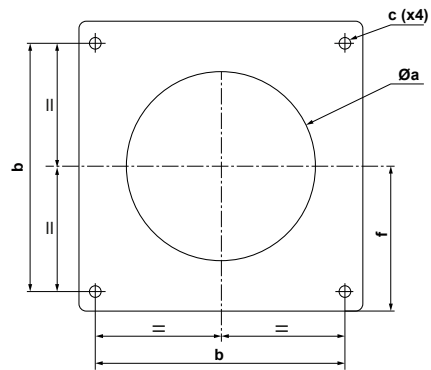
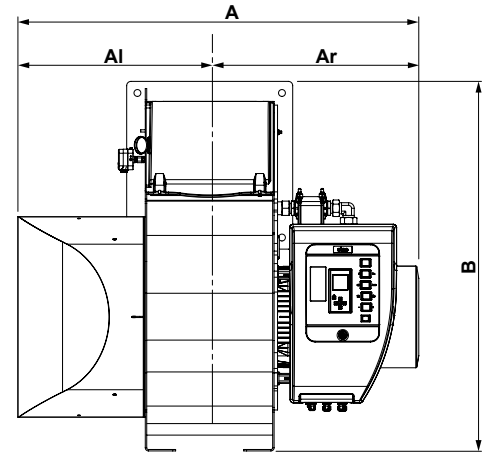
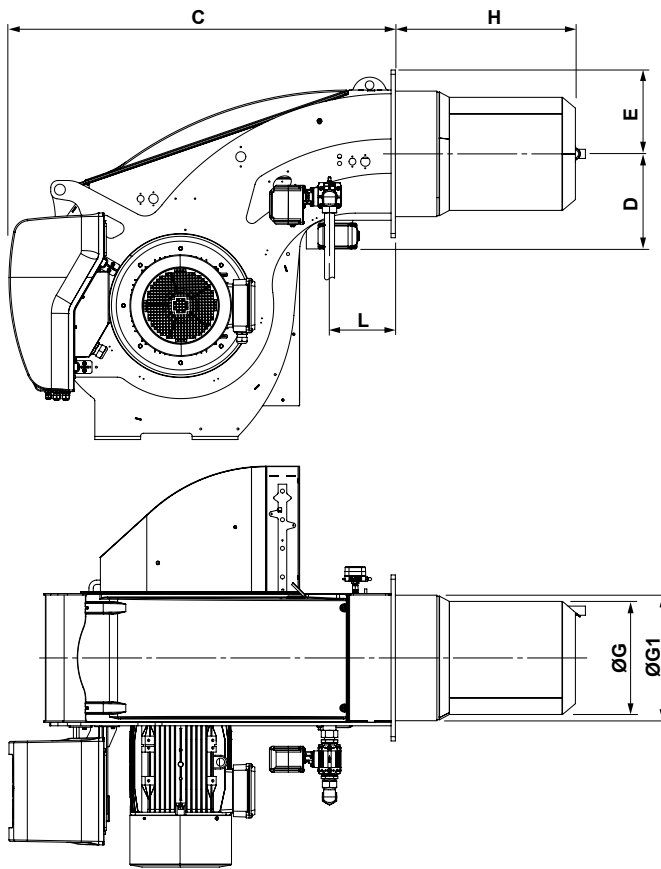
**FILTERS**

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





## DIMENSIONS (mm)

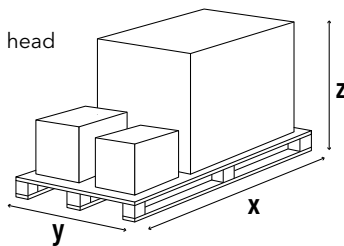


Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H			L	Øa	b	c	f
										KN	KM	KL					
EK EVO 9.7200	1400	670	730	1291	1350	332	293	385	438,5	649	799	949	230	460-480	505	M20	293
EK EVO 9.9400	1400	670	730	1291	1350	332	293	395	438,5	629	779	929	230	460-480	505	M20	293
EK EVO 9.11300	1462	674	788	1291	1350	332	293	395	438,5	629	779	929	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	2046	1414	1233	300
EK EVO 9.9400	2046	1414	1233	300
EK EVO 9.11300	2046	1414	1233	300

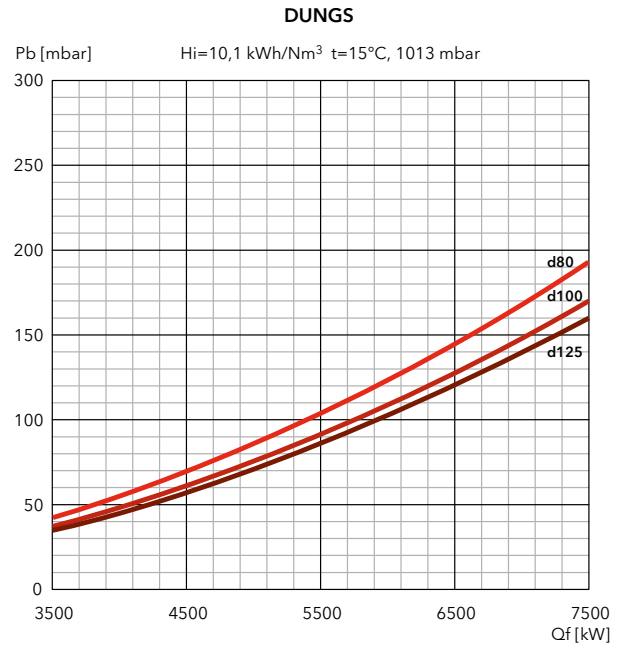
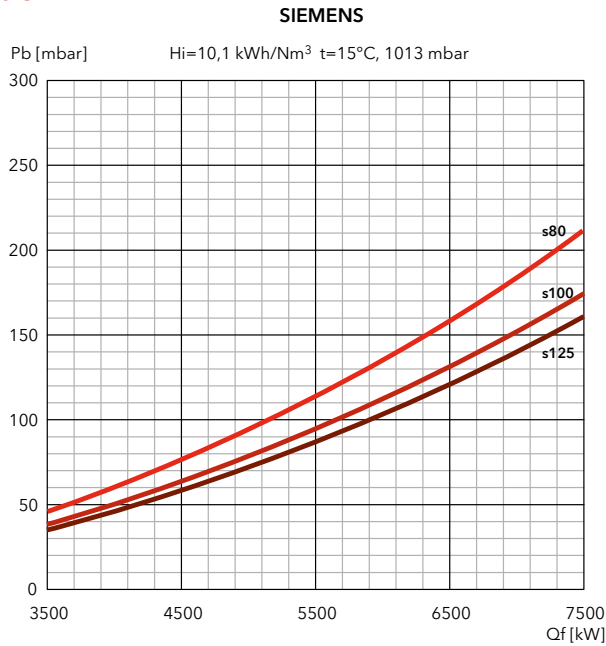
# EKEVO 9 G-EFX

890 ... 11350 kW

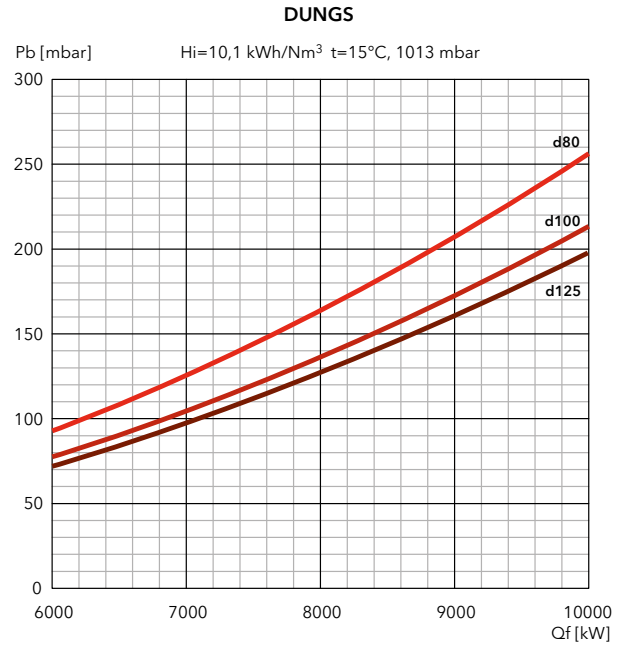
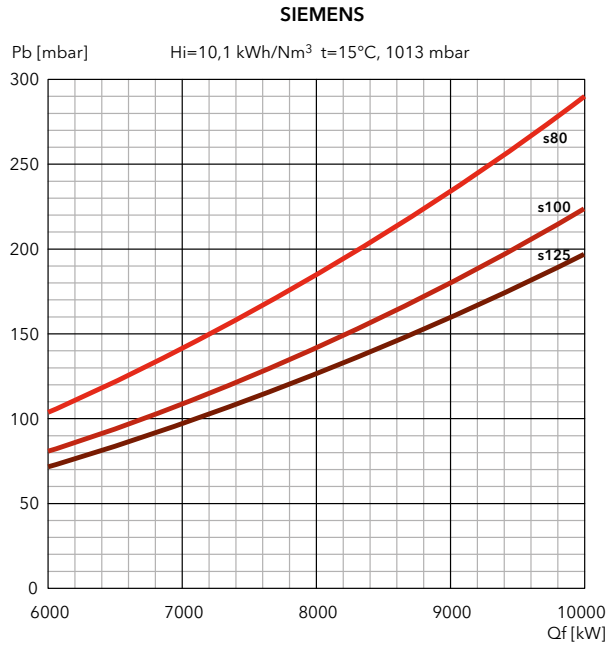
Two stage progressive/modulating electronic

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

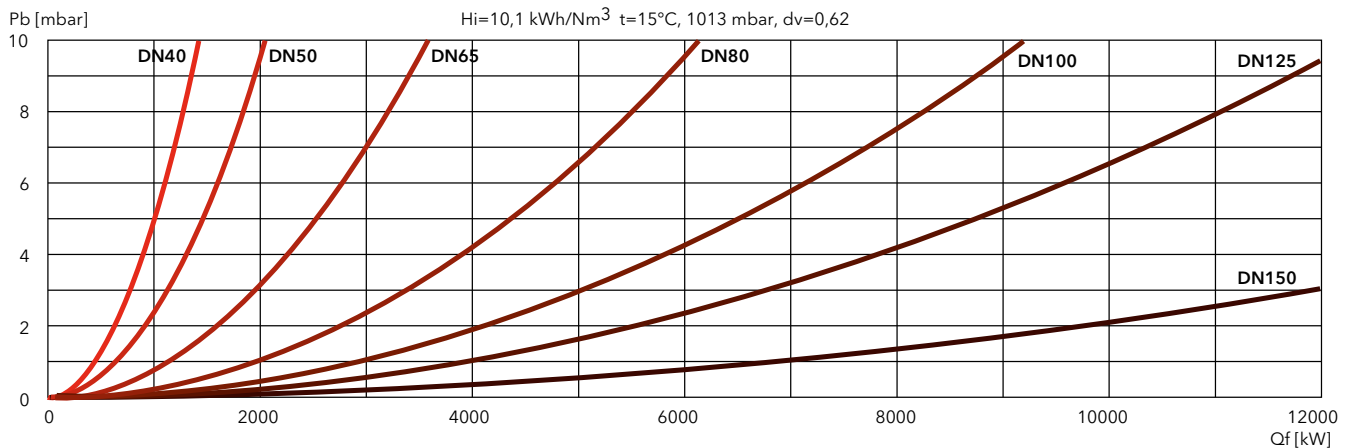
### EK EVO 9.7200 G-EFX



### EK EVO 9.9400 G-EFX



## FILTERS

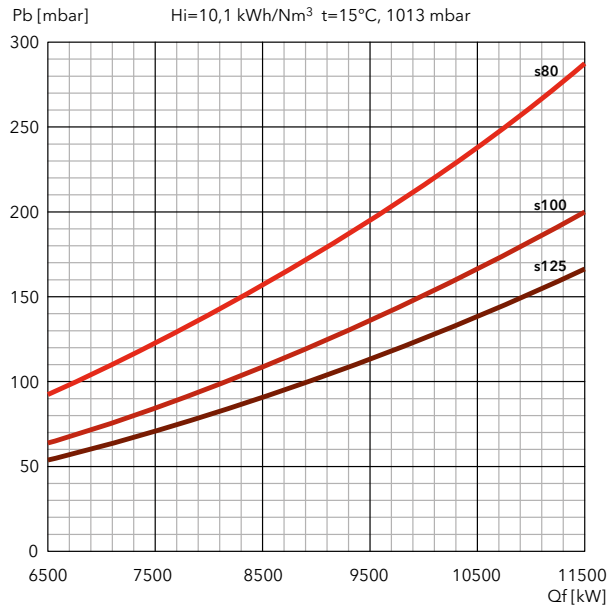




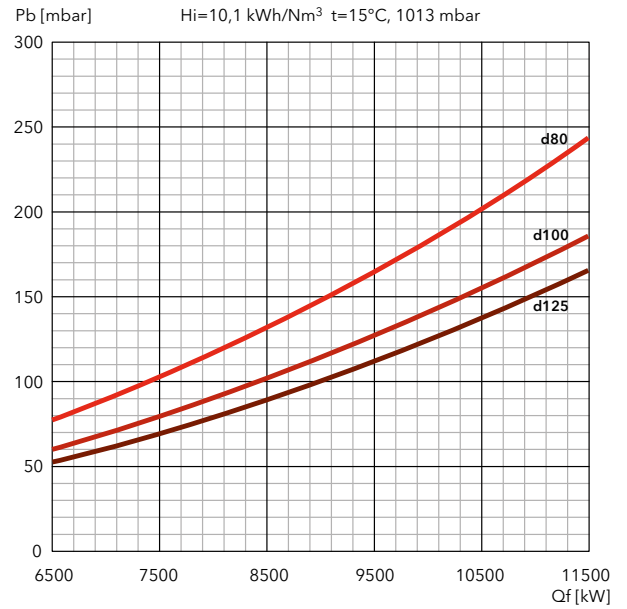
## PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

### EK EVO 9.11300 G-EFX

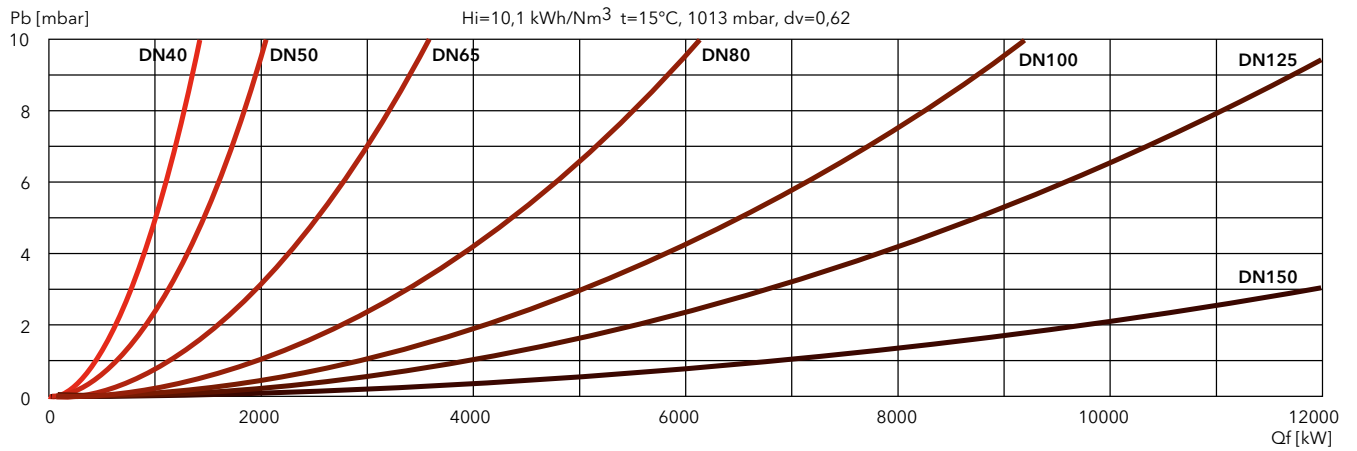
#### SIEMENS



#### DUNGS



## FILTERS



## N7 G-EFX / N8 G-EFX

440 ... 6610 kW

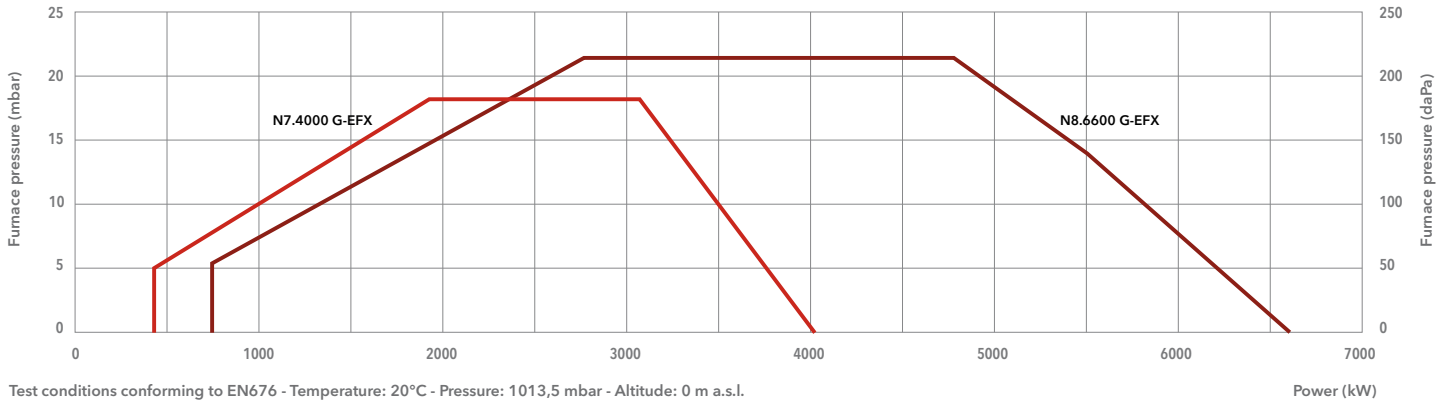
Two stage progressive/modulating electronic

NOx  
<50  
mg/kWh



- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm<sup>3</sup>
- **Emission class:** Low NOx class 4 (≤60 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.

	N7.4000 G-EFX	N8.6600 G-EFX
<b>Operating range</b>	440 – 4040 kW	730 – 6610 kW
<b>Gas pressure</b>	100 – 500 mbar (100 – 360 mbar for d705)	135 – 500 mbar
<b>Gas connection</b>	DN65	DN100
<b>Control box / flame detector</b>	BT300 / KLC	BT300 / KLC
<b>Auxiliary voltage</b>	1NPE AC 230 V – 50 Hz TN-S	1NPE AC 230 V – 50 Hz TN-S
<b>Power supply</b>	3PE AC 400 V – 50 Hz	3PE AC 400 V – 50 Hz
<b>Fan motor</b>	50 Hz – 7,5 kW	50 Hz – 15 kW
<b>Acoustic level</b>	<78 dB(A)	<83,7 dB(A)
<b>CE certificate</b>	0085CL0215	0085CL0215
<b>Burner codes (body + head)</b>	KN	on request
	KM	on request
	KL	on request

### GAS TRAINS

#### SIEMENS

Model	Code
GT-s705-2"	3759284
GT-s701-65	3759280
GT-s702-80	3759281
GT-s703-100	3759282
GT-s704-125	3759283

#### DUNGS

Model	Code
GT-d705-2" (*)	3759628
GT-d701-65	3759625
GT-d702-80	3759626
GT-d703-100	3759627

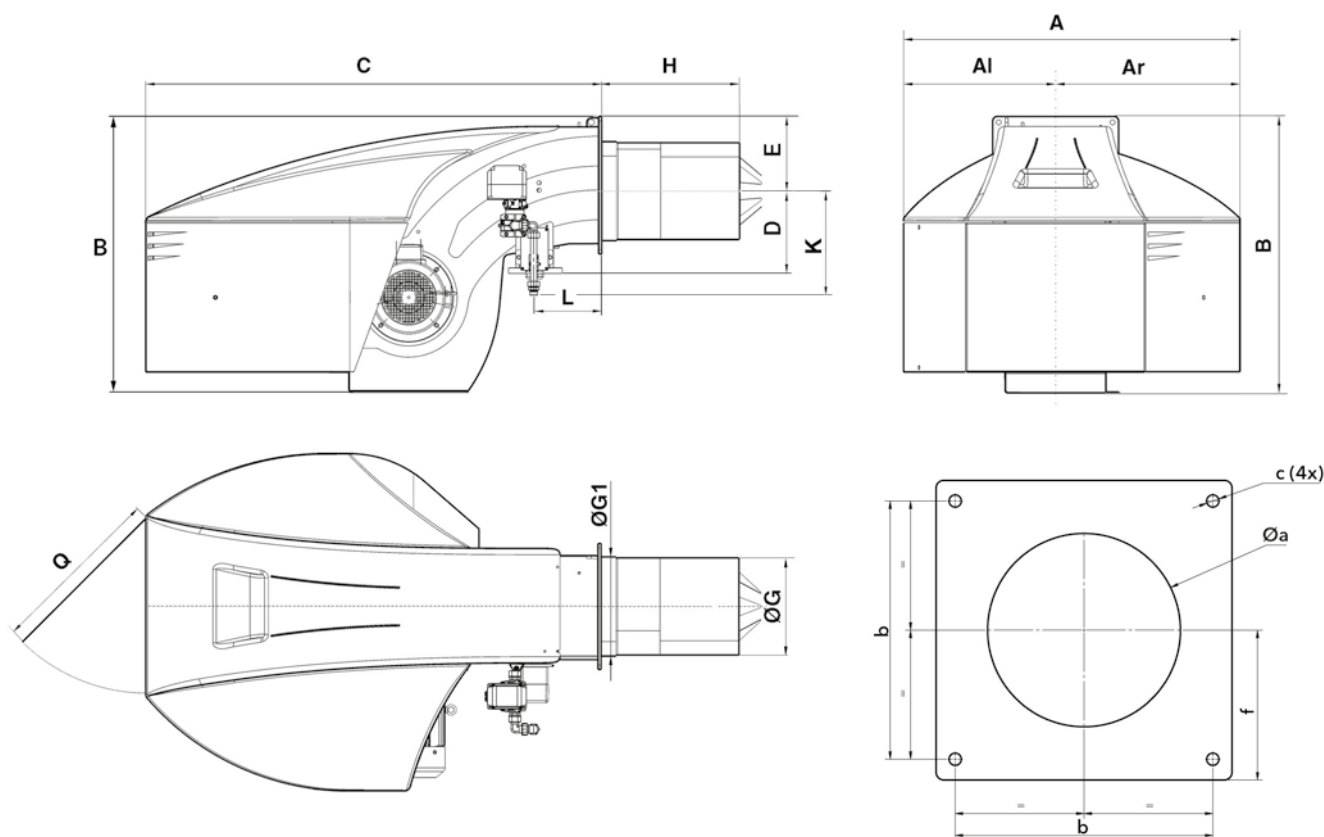
\*: integrated filter

#### FILTERS

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



## DIMENSIONS (mm)



Model	A	AI	Ar	B	C	D	E	ØG	ØG1	H			K	L	Q	Øa	b	c	f
										KN	KM	KL							
<b>N7.4000 G-EFX</b>	1128	510	618	961	1529	276	255	325	338	420	550	680	320	233	600	360-400	400	M16	235
<b>N8.6600 G-EFX</b>	1414	669	745	1231	1930	391	293	369	376	575	725	875	377*/366**	230	800	380-410	505	M20	293

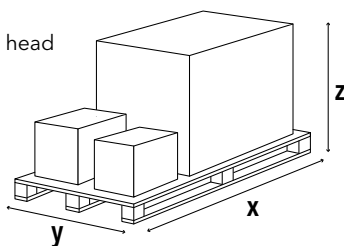
\*: applies to gas connectors DN100/65 and DN100/85

\*\* : applies to gas connectors DN100/100 and DN100/125

## 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	
<b>N7.4000 G-EFX</b>	2300	1500	1573	360
<b>N8.6600 G-EFX</b>	2300	1500	1573	360

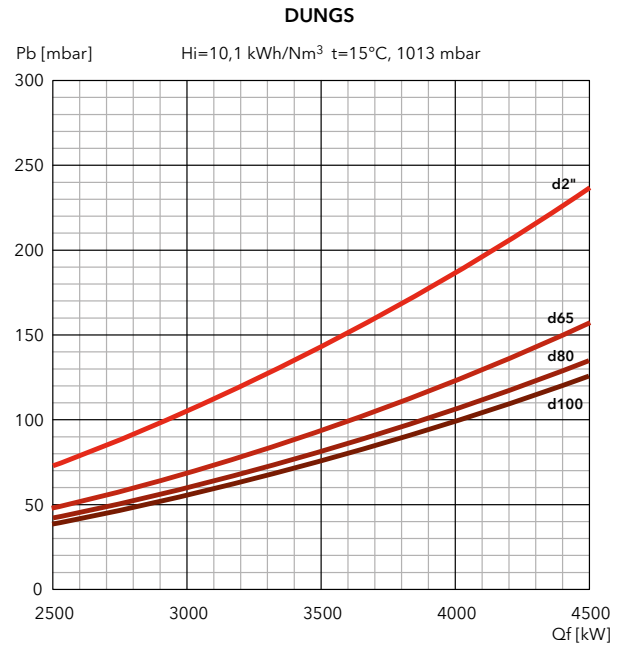
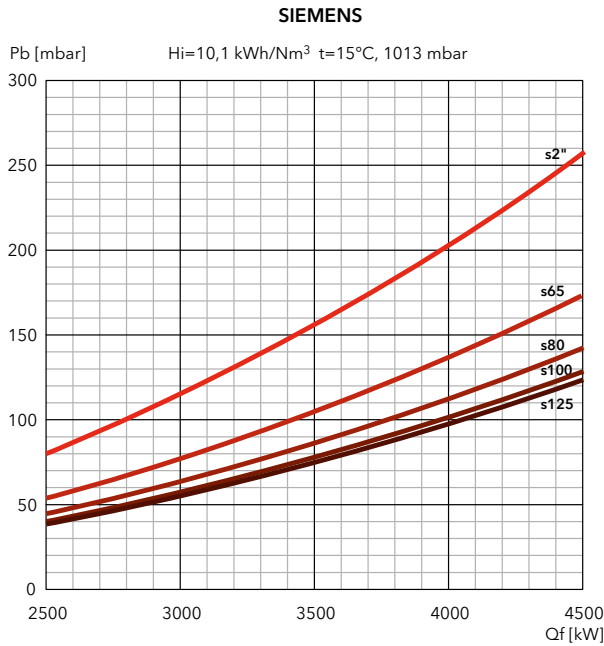
# N6 G-EFX / N7 G-EFX

440 ... 6610 kW

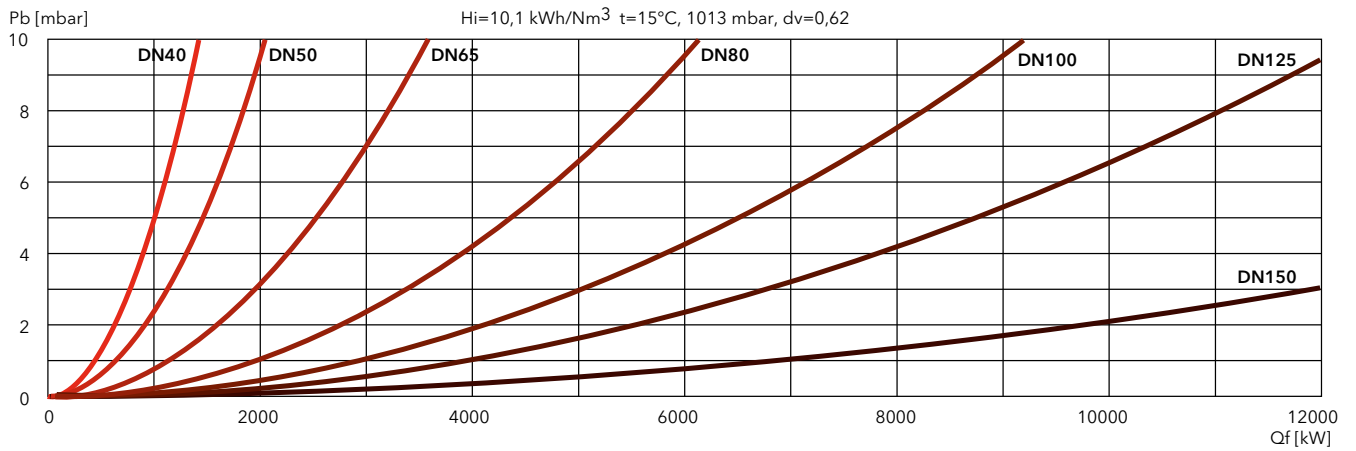
Two stage progressive/modulating electronic

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

### N7.4000 G-EFX



### FILTERS

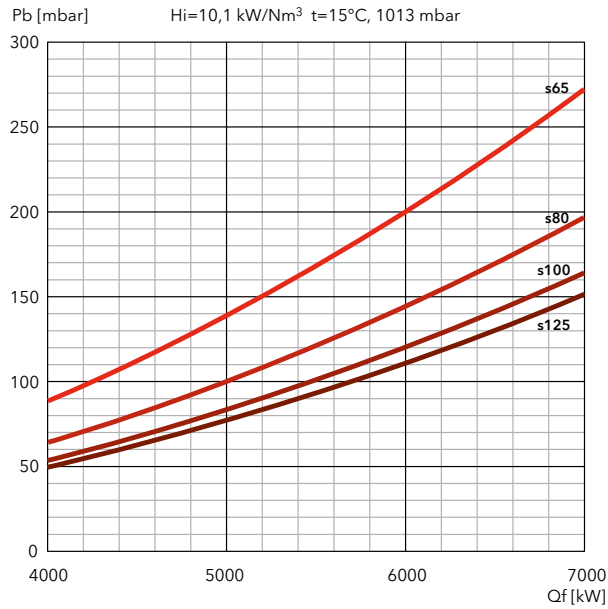




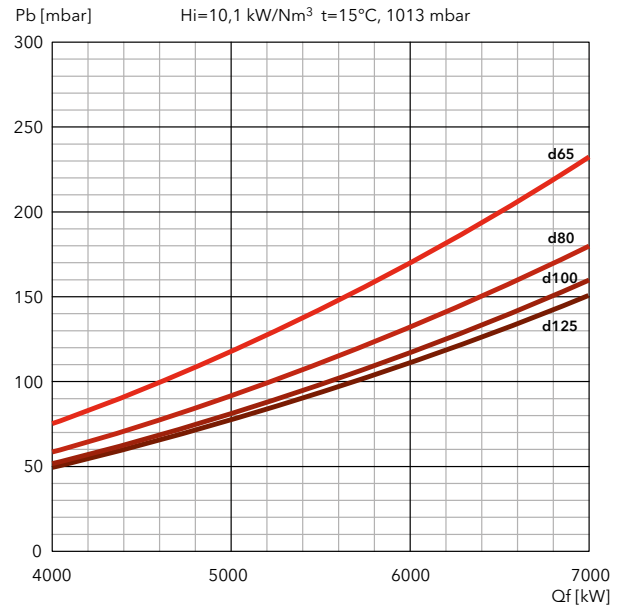
## PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

### N8.6600 G-EFX

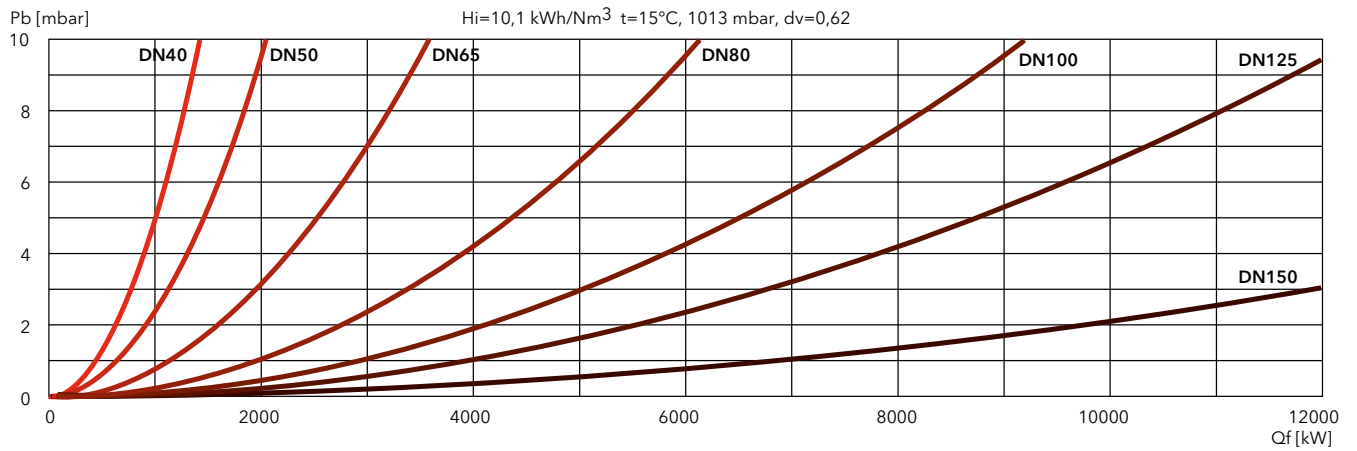
#### SIEMENS



#### DUNGS



## FILTERS



# N9 G-EFX

890 ... 9940 kW

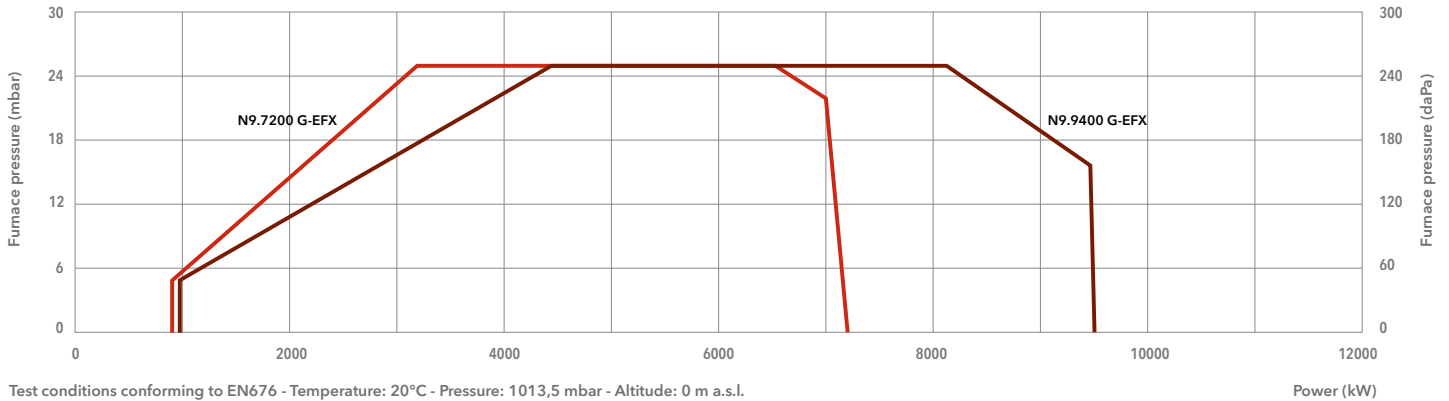
Two stage progressive/modulating electronic

NOx  
<50  
mg/kWh



- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm<sup>3</sup>
- **Emission class:** Low NOx class 4 (≤60 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-EFX	N9.9400 G-EFX
<b>Operating range</b>	890 - 7200 kW	980 - 9440 kW
<b>Gas pressure</b>	150 - 500 mbar	175 - 500 mbar
<b>Gas connection</b>	DN100	DN100
<b>Control box / flame detector</b>	BT300 / KLC	BT300 / KLC
<b>Auxiliary voltage</b>	1NPE AC 230 V - 50 Hz TN-S	1NPE AC 230 V - 50 Hz TN-S
<b>Power supply</b>	3PE AC 400 V - 50 Hz	3PE AC 400 V - 50 Hz
<b>Fan motor</b>	50 Hz - 22 kW	50 Hz - 22 kW
<b>Acoustic level</b>	<79,5 dB(A)	<82,3 dB(A)
<b>CE certificate</b>	0085CL0215	0085CL0215
<b>Burner codes (body + head)</b>	KN	on request
	KM	on request
	KL	on request

## GAS TRAINS

### SIEMENS

Model	Code
GT-s901-65	3759286
GT-s902-80	3759287
GT-s903-100	3759288
GT-s904-125	3759289

### DUNGS

Model	Code
GT-d902-80	3759631
GT-d903-100	3759632
GT-d904-125	on request

\*: integrated filter

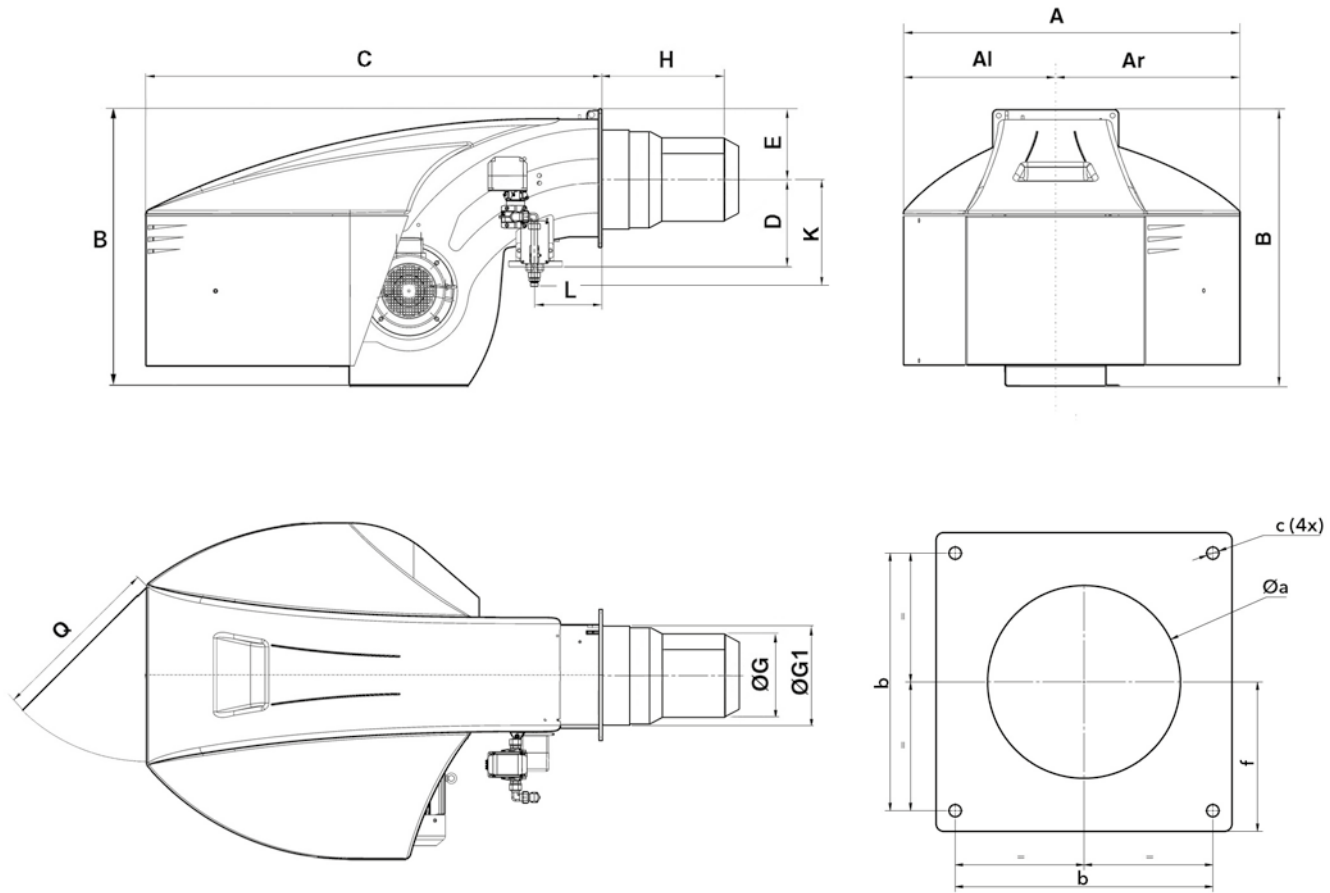
### FILTERS

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





## DIMENSIONS (mm)

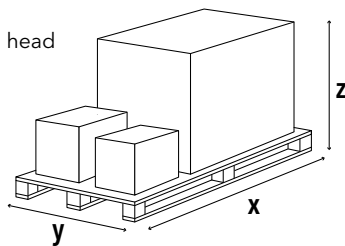


Model	A	AI	Ar	B	C	D	E	ØG	ØG1	H			L	Q	Øa	b	c	f
										KN	KM	KL						
N9.7200 G-EFX	1414	669	745	1291	1928	416	293	385	438,5	649	799	949	230	800	460-480	505	M20	293
N9.9400 G-EFX	1414	669	745	1291	1928	416	293	395	438,5	629	779	929	230	800	460-480	505	M20	293

## 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-EFX	2046	1414	1233	300
N9.9400 G-EFX	2046	1414	1233	300

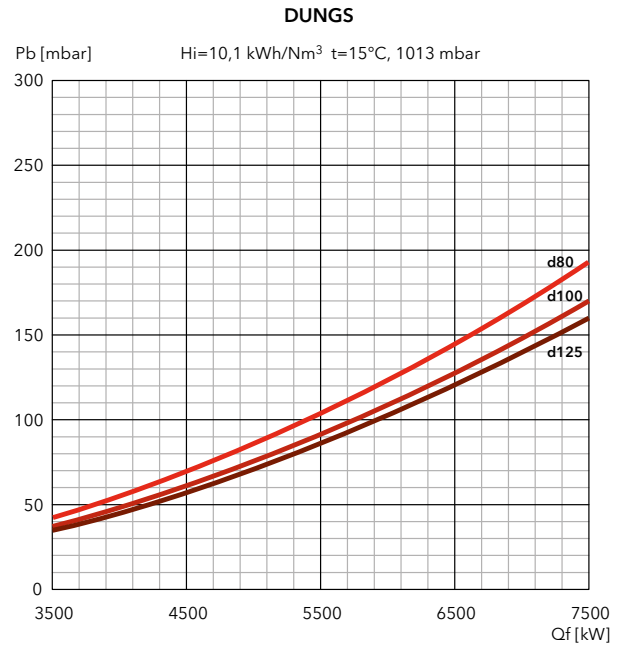
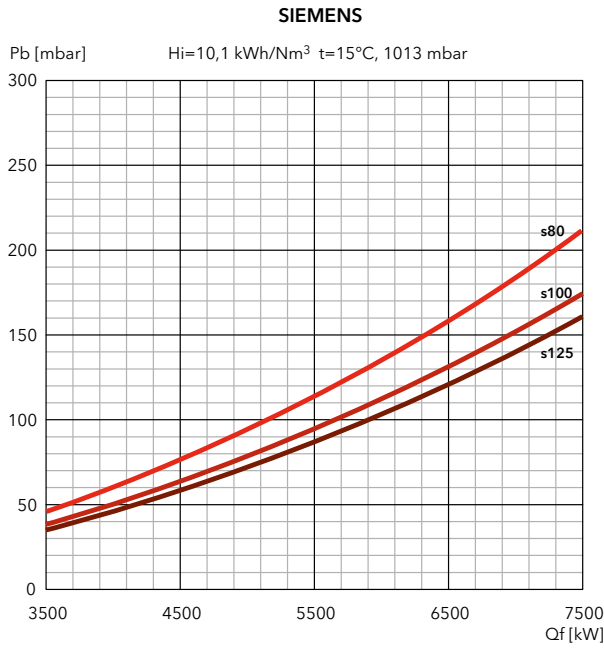
# N9 G-EFX

890 ... 9940 kW

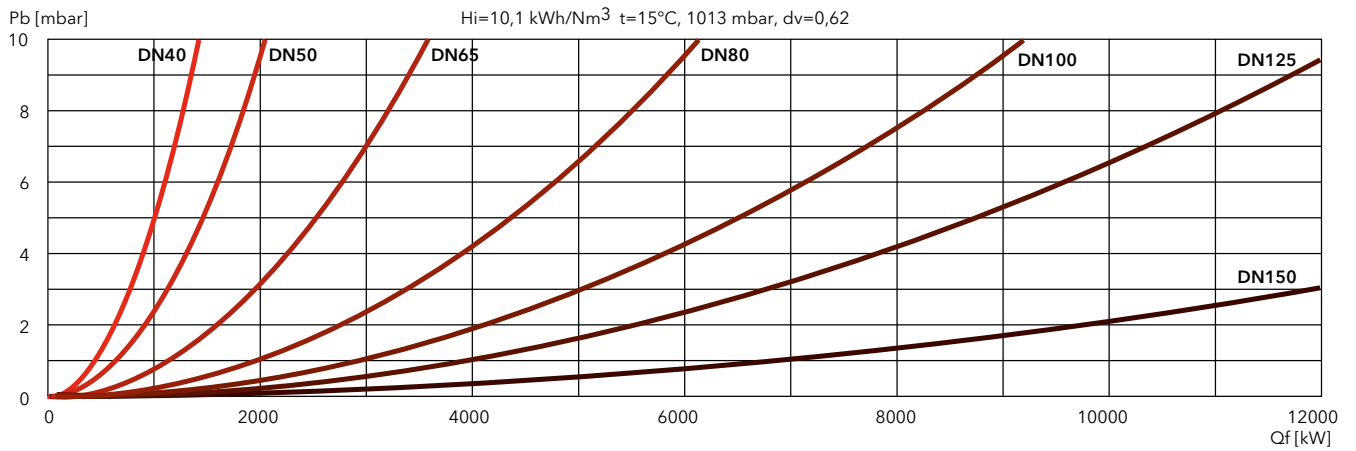
Two stage progressive/modulating electronic

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

### N9.7200 G-EFX



## FILTERS

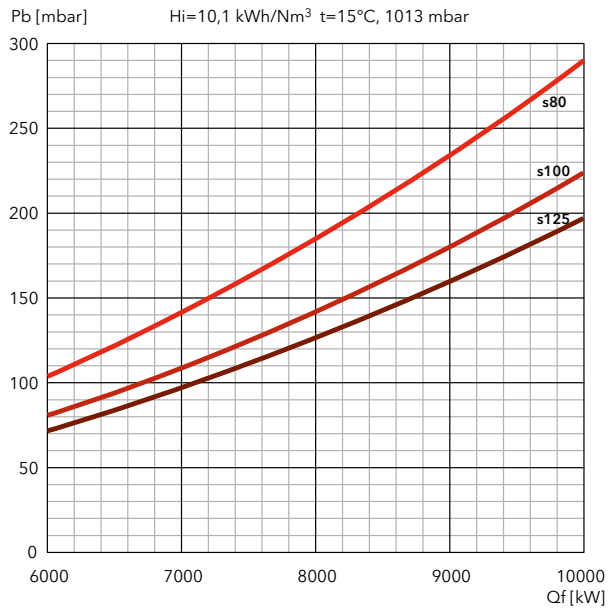




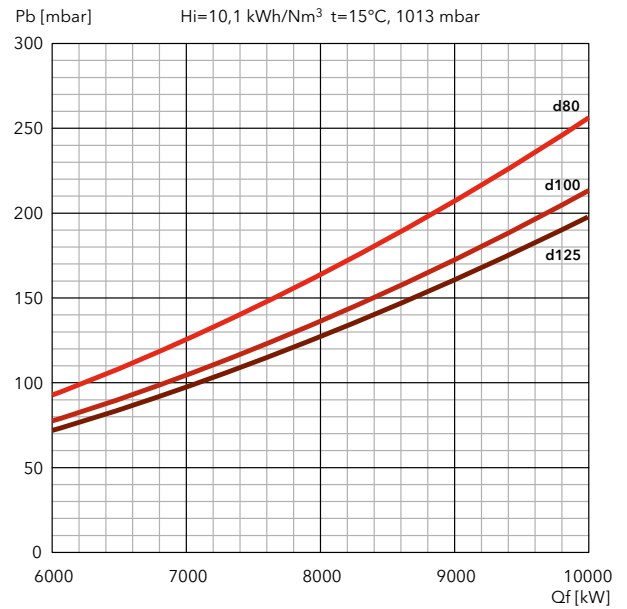
## PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

### N9.9400 G-EFX

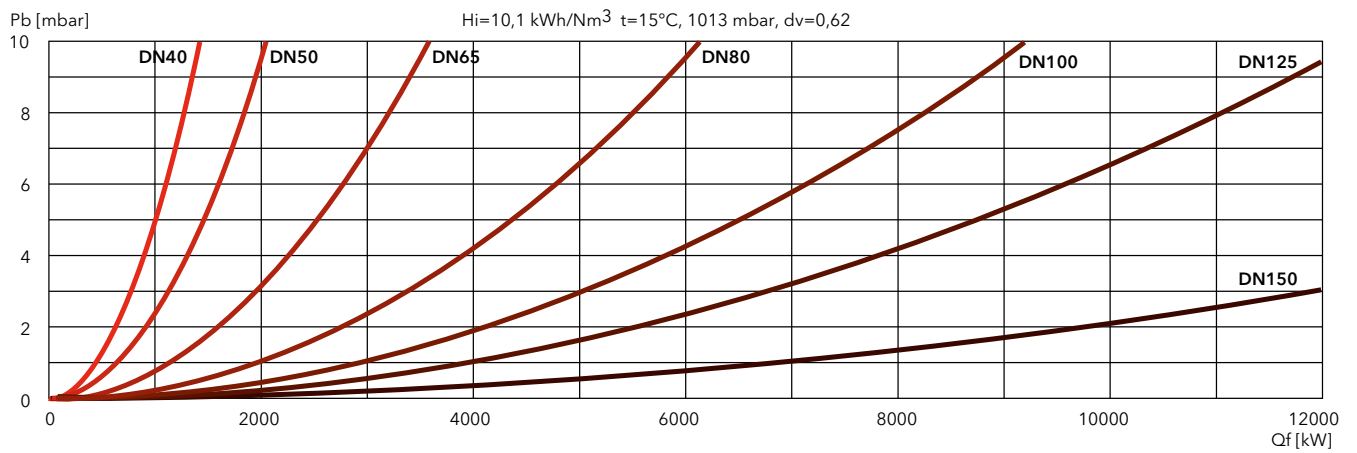
#### SIEMENS



#### DUNGS



## FILTERS



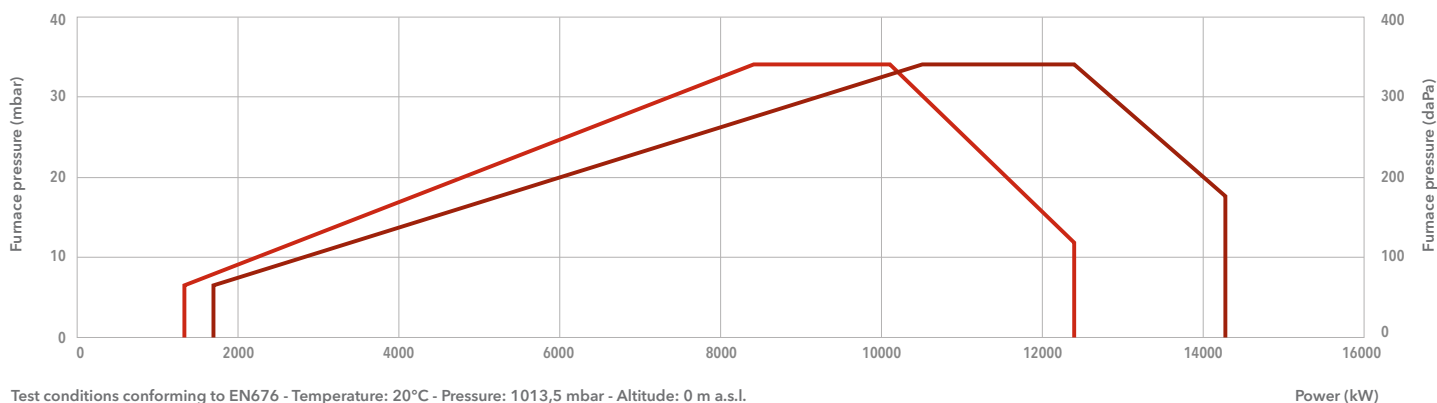
**N10****GAS****ULTRA Low NO<sub>x</sub>****N10 G-EFX**

1300 ... 14300 kW

Two stage progressive/modulating electronic

**NO<sub>x</sub>**  
**<50**  
mg/kWh

- **Fuels:** natural gas, Hi = 6,99 ... 11,39 kWh/Nm<sup>3</sup>
- **Emission class:** Low NO<sub>x</sub> class 4 (≤60 mg/kWh) according to EN676
- **Protection level:** IP 41 (IP 54 as option)

**TECHNICAL DATA**

	<b>N10.12000.37 G-EFX</b>	<b>N10.14000.45 G-EFX</b>
<b>Operating range</b>	1300 - 12400 kW	1700 - 14300 kW
<b>Gas connection</b>	DN100	DN100
<b>Control box / flame detector</b>	Etamatic OEM / FFS 08 UV-4	Etamatic OEM / FFS 08 UV-4
<b>Fan motor</b>	50/60 Hz - 37 kW	50/60 Hz - 45 kW
<b>Acoustic level</b>	< 95 dB(A)	< 95 dB(A)
<b>Complete burner code</b>	on request	on request

**GAS TRAINS****SIEMENS**

Model	Code
s DN80-DN100	on request
s DN100-DN100	on request
s DN125-DN100	on request
s DN150-DN100	on request

**DUNGS**

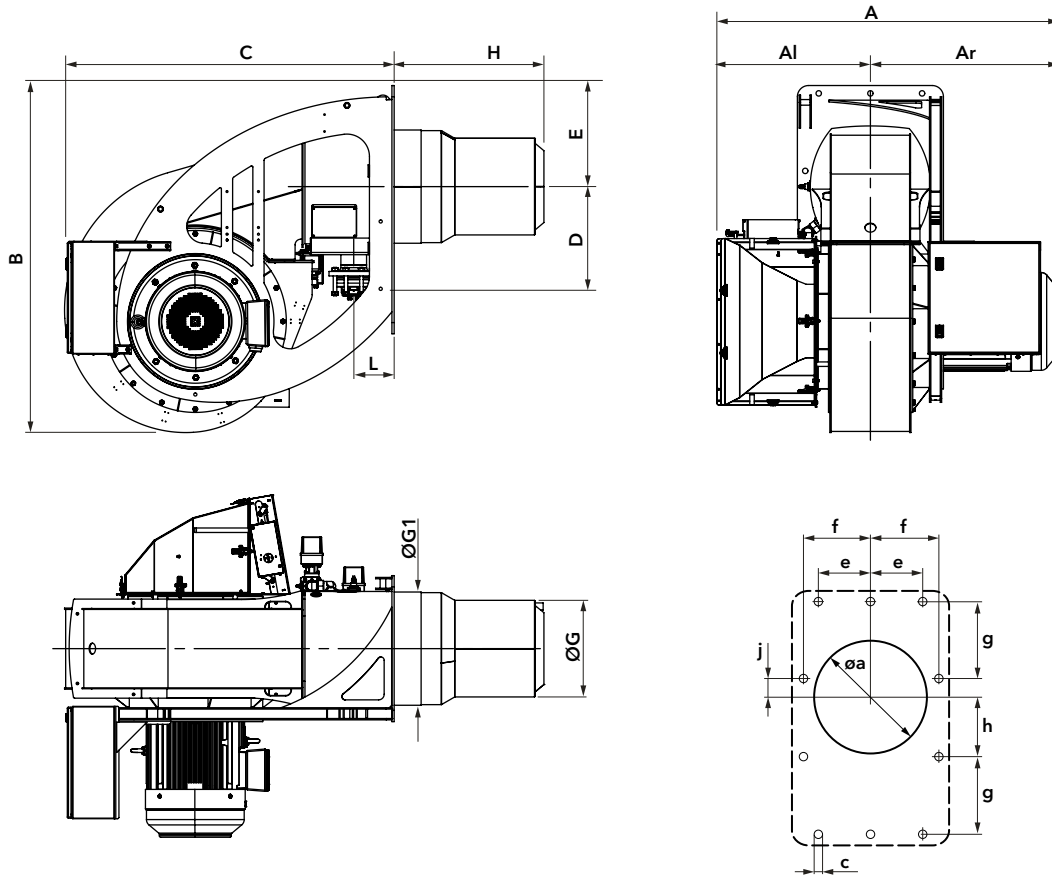
Model	Code
d DN80-DN100	on request
d DN100-DN100	on request
d DN125-DN100	on request

**FILTERS**

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



## DIMENSIONS (mm)



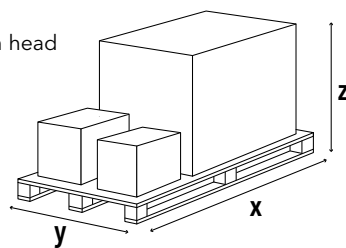
Model	A	Al	Ar	B	C	D	E	ØG	ØG1	H	L	Øa	c	e	f	g	h	j
N10.12000.37 G-EFX	1441	683	758	1545	1467	446	450	430	504	667*	180	525	M20	230	290	345	275	70
N10.14000.45 G-EFX	1530	683	847	1545	1467	446	450	467	504	667*	180	525	M20	230	290	345	275	70

\*: 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	
N10.12000.37 G-EFX	2200	1800	1900	1000
N10.14000.45 G-EFX	2200	1800	1900	1070

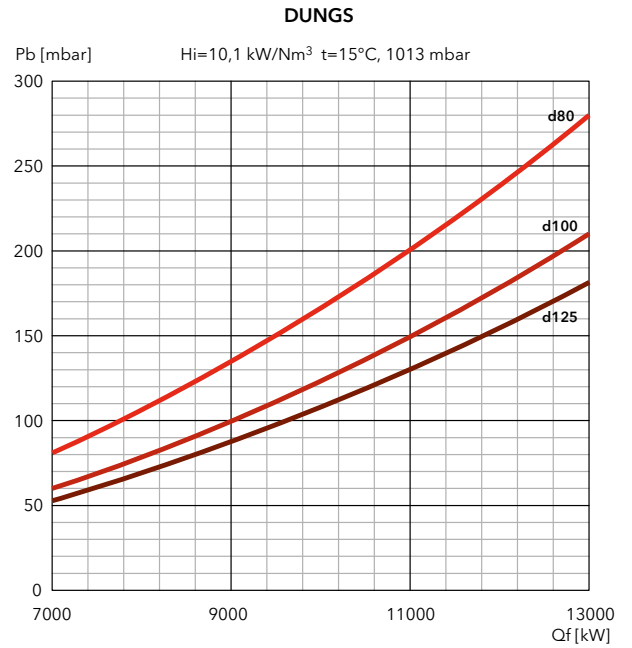
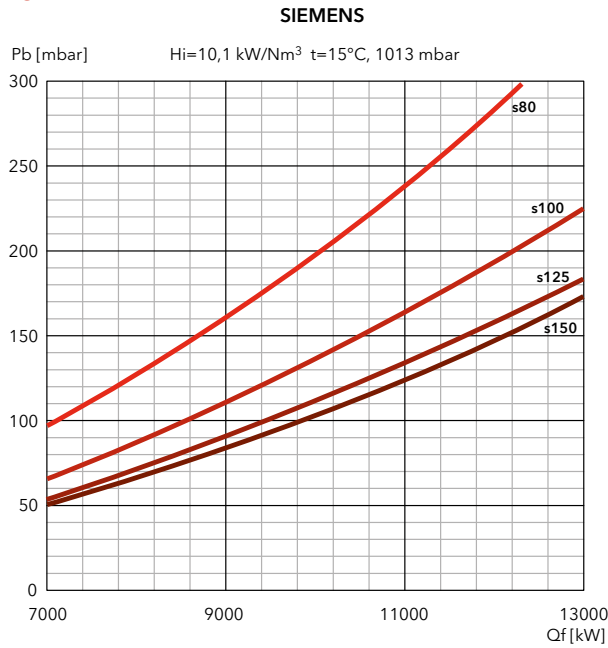
# N10 G-EFX

1300 ... 14300 kW

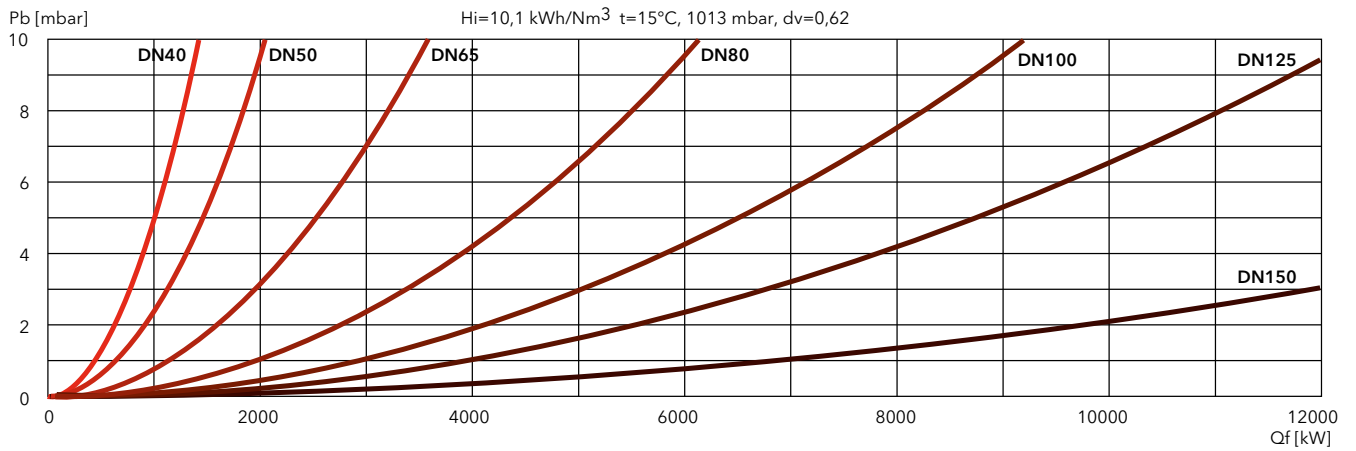
Two stage progressive/modulating electronic

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

### N10.12000.37 G-EFX



## FILTERS

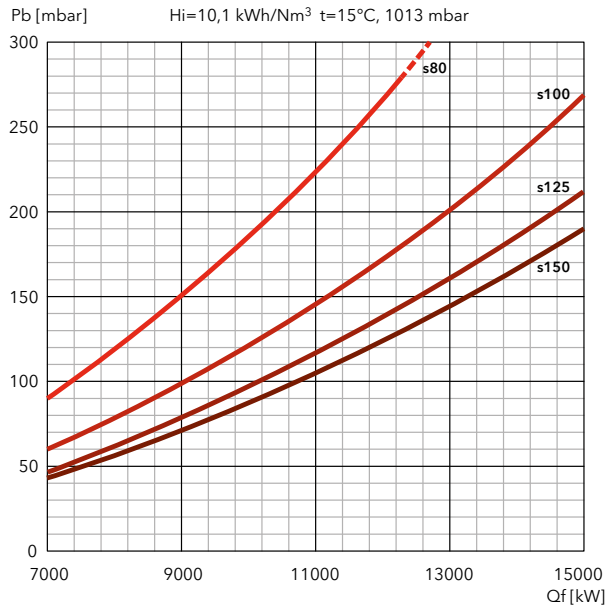




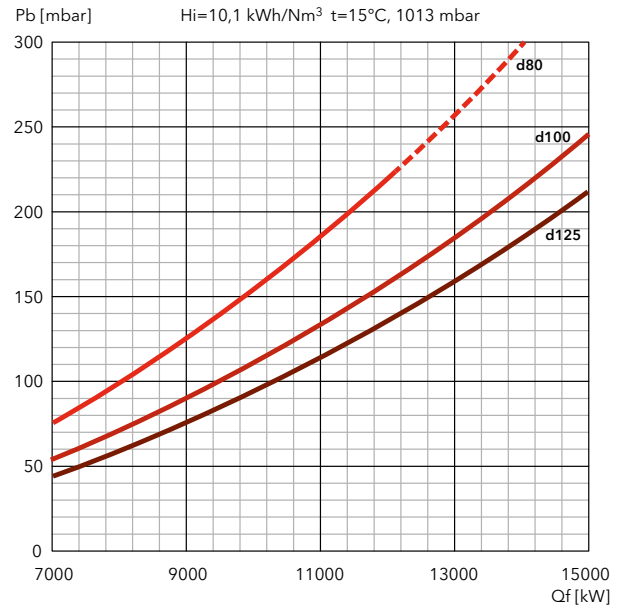
## PRESSURE LOSS [BURNER HEAD + GAS TRAIN] (mbar)

### N10.14000.45 G-EFX

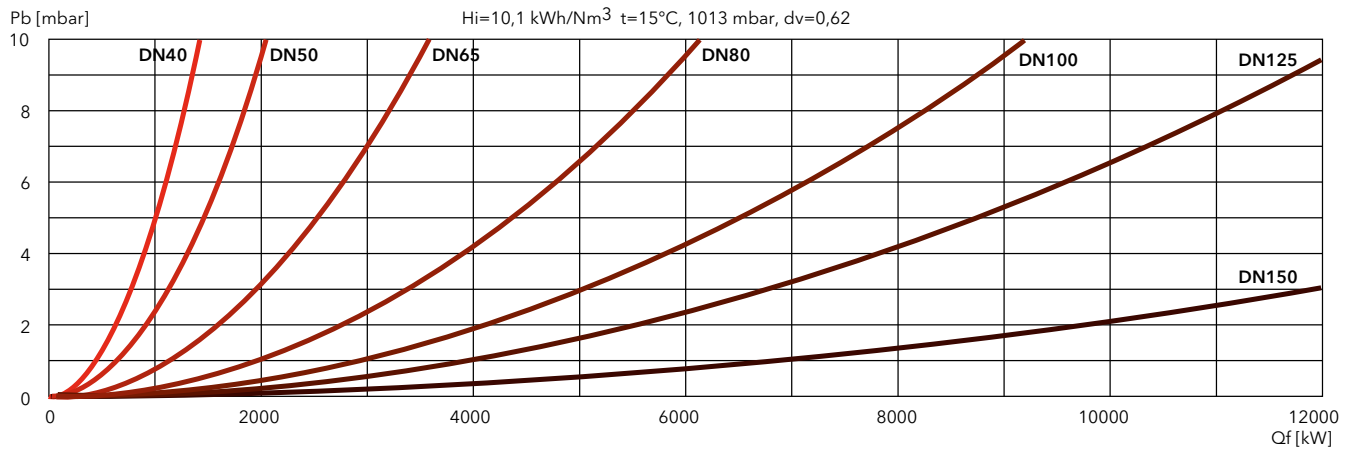
#### SIEMENS



#### DUNGS



## FILTERS



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Version 1.1 | 22/07/2024

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