Библиотека СОК

CIB UNIGAS®

SERIES K

HEAD X

K590X
K660X
K750X

HEAD V

K575V
K670V

HEAD A

K750A
K890A
K990A

GB
M029146CA
Rev. 0.0
08-2025

LET'S LIGHT UP THE FUTURE.

CIB Unigas was founded in 1972 as a small company by Mr. Claudio Pancolini. The remarkable creative and design skills of its technical staff enabled the company to penetrate the market quickly and effectively. Over the past 50 years, with the goal of promoting eco-sustainable fuels and applications, **CIB Unigas has become one of the leading companies in the design, production and sale of burners for civil and industrial applications.**

Factors such as the progressive shift in demand abroad (over 85% of current turnover) and the willingness to develop a solid distribution network, have allowed the company to **open numerous branches, particularly in the United Kingdom, China, and the United States, in addition to more than 60 official dealers worldwide.** This strengthened and widespread sales network, combined with the complete range of burners offered and the constant participation in international conferences and trade fairs, has made CIB Unigas a leader in its sector.

In 1994, CIB Unigas obtained ISO 9001 quality certification and product certification (CE marking), issued by the most authoritative European certification body (TÜV). This certification is the most comprehensive available in this industrial sector, covering design, production, marketing, and after-sales services. As a result, the company currently meets all national and international requirements to sell, market, and install its products worldwide.

Today, the company is managed by the founder's heirs Mr. Filippo Pancolini and Mr. Riccardo Pancolini, who ensure the continuity not only of the business but also of CIB Unigas' vision: developing technologies with the aim of protect our world and our future.**With over 200 employees, the company produces all its products at its Italian plant facility in Campodarsego (Padua), where its main activities of design, assembly and innovation take place.**

Thanks to the strong flexibility of its production and organizational structure, CIB Unigas is able to meet any demand quickly and according to the specific requirements that arise from the market. This means, not only the ability to produce in series, but above all, the creative strength to satisfy market demands—values that are at the core of the shared efforts at CIB Unigas.





SERIES K

LOW NOx

Low emissions (Class 3 - EN676)
Possibility of working with innovative fuels with low environmental impact, such as hydrogen
Wide modulation range

HEAD X

K590X / K660X / K750X	GAS	7
K590X / K660X / K750X	GAS / LIGHT OIL	11

ULTRA LOW NOx

Low emissions (Class 4 - EN676)
Wide modulation range

HEAD V

K575V / K670V	GAS	15

High flexibility burners

Extensive flexibility
Adjustment flexibility
Ability to work with a variety of fuels
Many types of civil and industrial applications
Special applications and furnaces

HEAD A

K750A / K890A / K990A	GAS	15
K750A / K890A / K990A	GAS / LIGHT OIL	19

DESIGNATION M-. PR. SR. xx. A. 1. 50. EA. xxx.

FUEL
M - NATURAL GAS
L - L.P.G.
B - BIOGAS
C - TOWN GAS
G - LIGHT OIL
A - BIO DIESEL
K - KEROSENE
N - HEAVY OIL UP TO 50 cSt at 50°C (7°E - 50°C)
D - HEAVY OIL UP TO 400 cSt at 50°C (50°E - 50°C)

*** VARIOUS FUEL CONFIGURATIONS AVAILABLE IN THE DUAL-FUEL VERSION**

OPERATION
PR - PROGRESSIVE
MD - FULLY MODULATING

BLAST TUBE
S - STANDARD
M - STANDARD DUAL LENGTH BLAST TUBE
L - LONG

SP - Standard blast tube + ABS polymer (silenced) air intake
SR - Standard blast tube + ABS polymer (silenced) air intake
LP - Extended blast tube + aluminum air intake
LR - Extended blast tube + ABS polymer (silenced) air intake

DESTINATION COUNTRY
GB - UNITED KINGDOM
... AVAILABLE FOR OTHER COUNTRIES UPON REQUES

BURNER MANUFACTURE
A STANDARD
Y SPECIAL

G CONTROL PANEL AND JUNCTION BOX
E JUNCTION BOX

EQUIPMENT
0 2 GAS VALVES
1 2 GAS VALVES + LEAKAGE CONTROL
7 2 GAS VALVES + MAXIMUM GAS PRESSURE SWITCH
8 2 GAS VALVES + LEAKAGE CONTROL AND MAXIMUM GAS PRESSURE SWITCH

GAS CONNECTION
50 DN50
65 DN65
80 DN80
100 DN100
125 DN125

ELECTRONIC VERSION
EA Burners complete with electronic cam
EB Burners complete with electronic cam and inverter
EC Dual fuel burners complete with electronic cam
ED Dual fuel burners complete with electronic cam and inverter
ES Burners complete with electronic cam, without O_2 control, without inverter
EO Burners complete with electronic cam and O_2 control, without inverter
EI Burners complete with electronic cam and inverter, without O_2 control
EK Burners complete with electronic cam with O_2 control and with inverter
EF Burners complete with electronic cam and temperature-compensated flue gas recirculation FGR without O_2 monitoring, without inverter
EG Burners complete with electronic cam, inverter and temperature-compensated flue gas recirculation FGR without O_2 monitoring
EP Burners complete with electronic cam and temperature-compensated flue gas recirculation FGR witht O_2 monitoring, without inverter
ER Burners complete with electronic cam, inverter and temperature-compensated flue gas recirculation FGR with O_2 monitoring l

FLUE GAS RECIRCULATION
FGR Flue gas recirculation

SOME FEATURES ARE NOT INCLUDED IN THIS CATALOGUE

FOR CONFIGURATIONS OF BURNERS IN THE LAMTEC VERSION WITH O_2+CO OXYGEN CONTROL, PLEASE CONTACT OUR SALES DEPARTMENT.

SERIES X

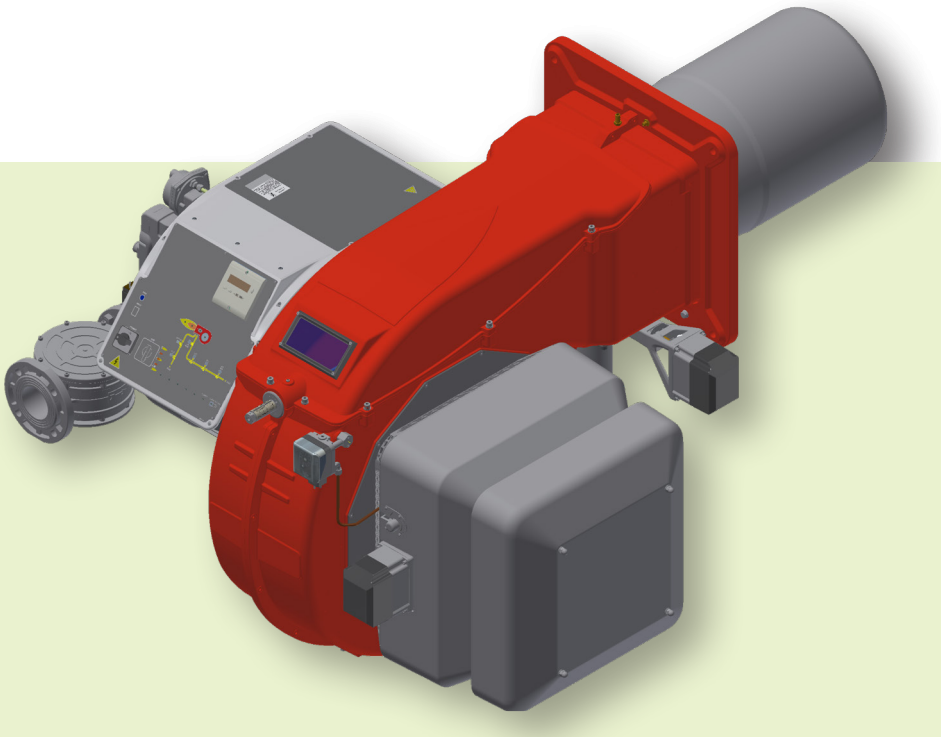
K590X
K660X
K750X

Low NOx

Low emissions (Class 3 - EN676)

Possibility of working with innovative fuels with low environmental impact
such as hydrogen

Wide modulation range

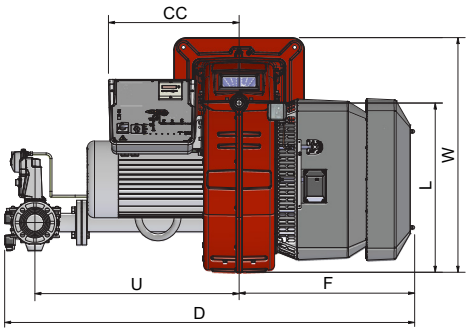


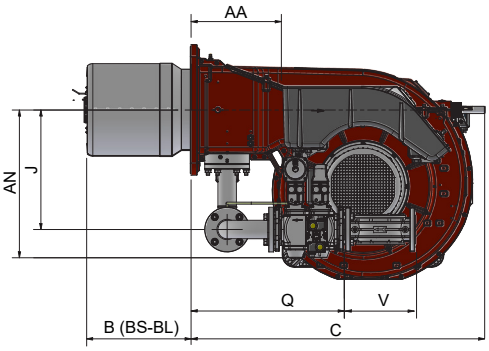
GAS

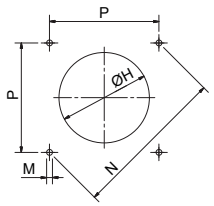
TECHNICAL SPECIFICATIONS

Type	Model	Power kW min	Power kW max	Power supply single-phase electricity auxiliary	Power supply three-phase electric motor	Fan motor kW	Gas connections	Level of noise emissions dBA
K590X	M-.xx.xR.IT.A.1.xxx	670	5.900	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	15,0	DN65 - DN80 - DN100 - DN125	< 85
K660X	M-.xx.xR.IT.A.1.xxx	680	6.600	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	15,0	DN65 - DN80 - DN100 - DN125	< 85
K750X	M-.xx.xR.IT.A.1.xxx	860	7.500	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	15,0	DN65 - DN80 - DN100 - DN125	< 85

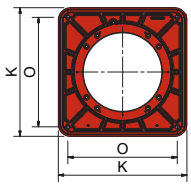
For information on choosing the length of the blast tube, refer to the Technical Information booklet.







BOILER RECOMMENDED DRILLING TEMPLATE



BURNER FLANGE

PACKAGING DIMENSIONS* (mm)

Type	l	p	h	kg
K590X	2040	1450	1220	430
K660X	2040	1450	1220	455
K750X	2040	1450	1220	455

***INDICATIVE VALUES**

DIMENSIONS* (mm)

Type	Model	AA	AN	B		C	CC	D	F	G	H	J	K	L	M	N	O	P	Q	U	V	W	Y
				BS	BL																		
K590X	M-.xx.xR.IT.A.1.65	373	611	430	530	1201	550	1695	638	360	400	494	540	700	M16	651	460	460	636	845	292	970	356
K590X	M-.xx.xR.IT.A.1.80	373	626	430	530	1201	550	1728	638	360	400	494	540	700	M16	651	460	460	687	875	313	970	356
K590X	M-.xx.xR.IT.A.1.100	373	641	430	530	1201	550	1808	638	360	400	494	540	700	M16	651	460	460	791	939	353	970	356
K590X	M-.xx.xR.IT.A.1.125	373	738	430	530	1201	550	2073	638	360	400	562	540	700	M16	651	460	460	904	1192	479	970	356
K660X	M-.xx.xR.IT.A.1.65	373	611	430	530	1201	550	1695	726	383	423	494	540	700	M16	651	460	460	636	845	292	970	336
K660X	M-.xx.xR.IT.A.1.80	373	626	430	530	1201	550	1728	726	383	423	494	540	700	M16	651	460	460	687	875	313	970	336
K660X	M-.xx.xR.IT.A.1.100	373	641	430	530	1201	550	1808	726	383	423	494	540	700	M16	651	460	460	791	939	353	970	336
K660X	M-.xx.xR.IT.A.1.125	373	738	430	530	1201	550	2073	726	383	423	562	540	700	M16	651	460	460	904	1192	479	970	336
K750X	M-.xx.xR.IT.A.1.65	373	611	430	530	1201	550	1695	726	419	469	494	540	700	M16	651	460	460	636	845	292	970	336
K750X	M-.xx.xR.IT.A.1.80	373	626	430	530	1201	550	1728	726	419	469	494	540	700	M16	651	460	460	687	875	313	970	336
K750X	M-.xx.xR.IT.A.1.100	373	641	430	530	1201	550	1808	726	419	469	494	540	700	M16	651	460	460	791	939	353	970	336
K750X	M-.xx.xR.IT.A.1.125	373	738	430	530	1201	550	2073	726	419	469	562	540	700	M16	651	460	460	904	1192	479	970	336

***INDICATIVE VALUES**

Attention: - The size of the gas train varies according to size and configuration.

ELECTRONIC OPERATION

Model	Gas train	Operation
M-.PR.SR.IT.A.1.65.EA	DN65	PR (*)
M-.PR.SR.IT.A.1.80.EA	DN80	PR (*)
M-.PR.SR.IT.A.1.100.EA	DN100	PR (*)
M-.PR.SR.IT.A.1.125.EA	DN125	PR (*)
M-.MD.SR.IT.A.1.65.ES	DN65	MD
M-.MD.SR.IT.A.1.80.ES	DN80	MD
M-.MD.SR.IT.A.1.100.ES	DN100	MD
M-.MD.SR.IT.A.1.125.ES	DN125	MD

SP = Standard blast tube + aluminum air intake (1)
SR = Standard blast tube + ABS polymer (silenced) air intake
LP = Extended blast tube + aluminum air intake
LR = Extended blast tube + ABS polymer (silenced) air intake (2)
PR = Progressive Adjustment
MD (*) = Modulating adjustment
(for the MD modulating version, the Modulation Kit must be added; see the list of variants)

Modulation kit = Kit to be combined with PR Progressive versions

In the MD modulating version, the burner must be equipped with the relevant modulating probe to complete the supply.

For LPG burners, see the list of variants

(1) For applications on furnaces and rotary drums, see the version with aluminium drawer (SP). Contact Cib Unigas for any clarification.

(2) For the following versions, please contact our offices.

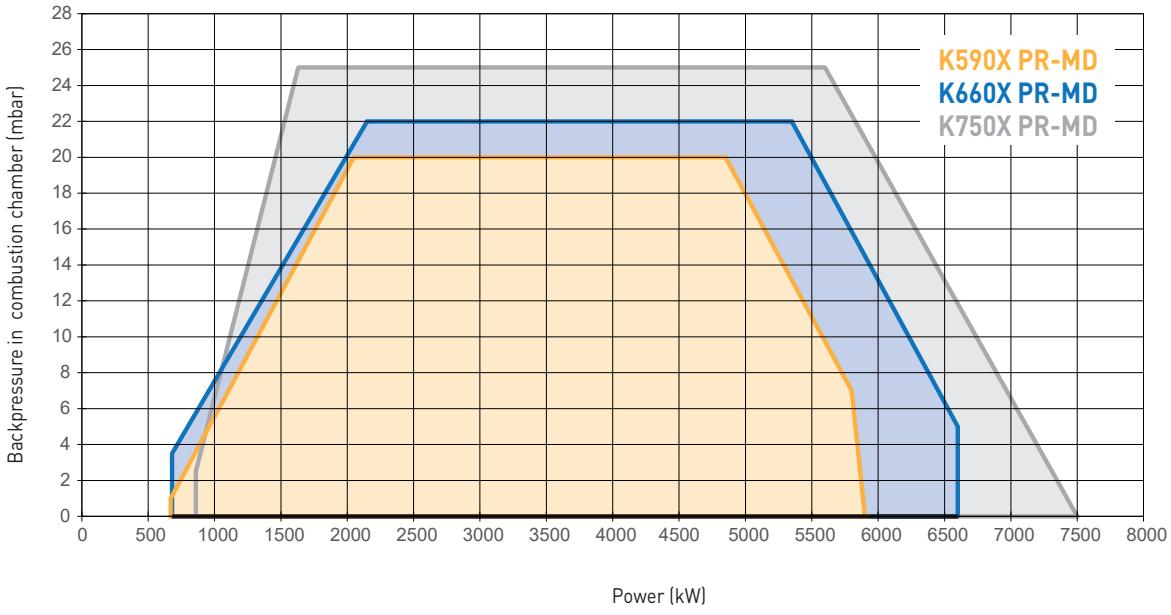
The products comply with European standards EN676 and EN267 and the following directives:
DIRECTIVE GAR 2016/426/EU

NOx emission level:
- Class 3 (<80 mg/kWh) in gas operation according to EN676

For information on choosing the length of the blast tube, refer to the Technical Information booklet.

Burners also compatible with GPL, H_2

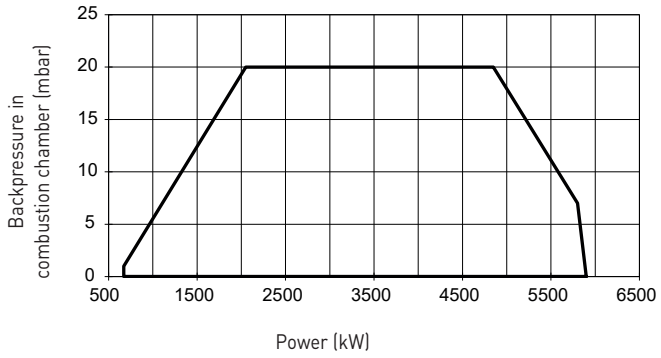
PERFORMANCE CURVES

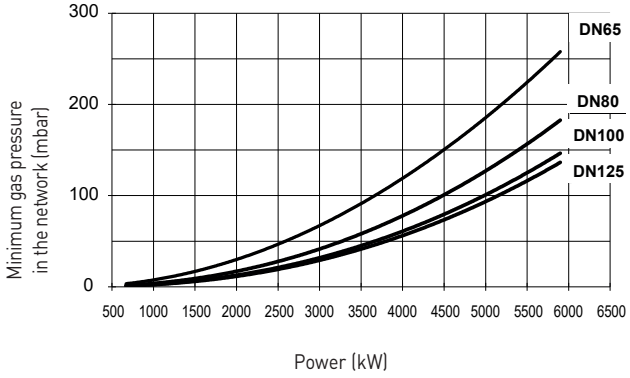


PERFORMANCE CURVES

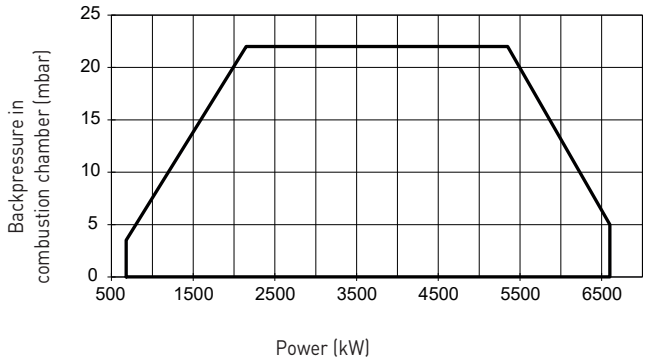
PRESSURE IN THE NETWORK

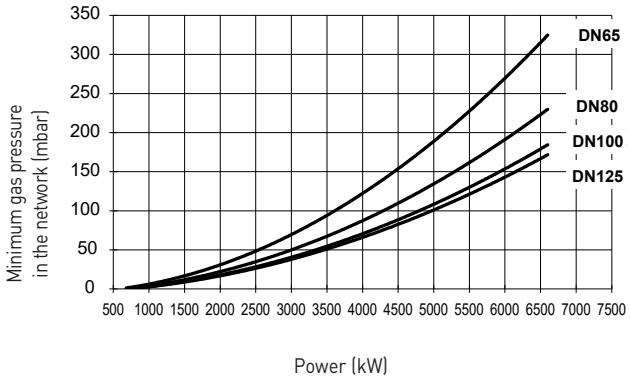
K590X PR-MD



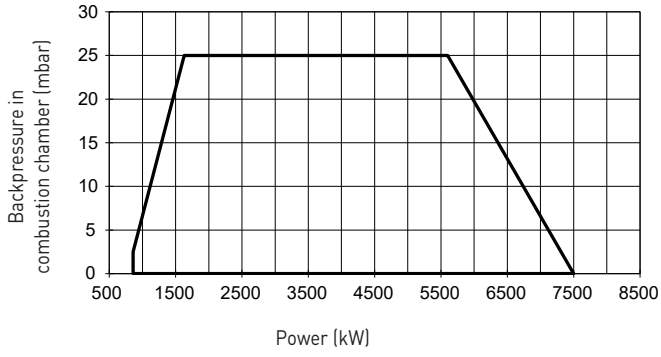


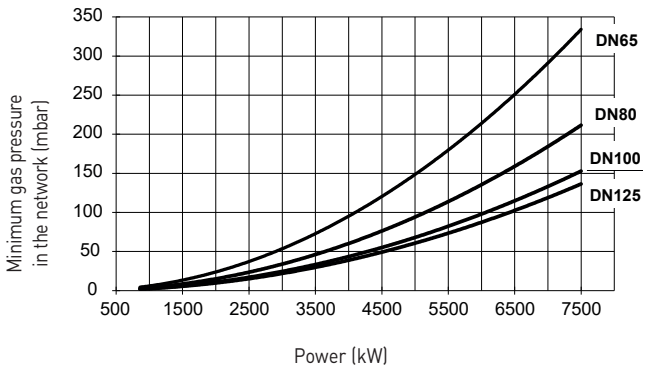
K660X PR-MD





K750X PR-MD





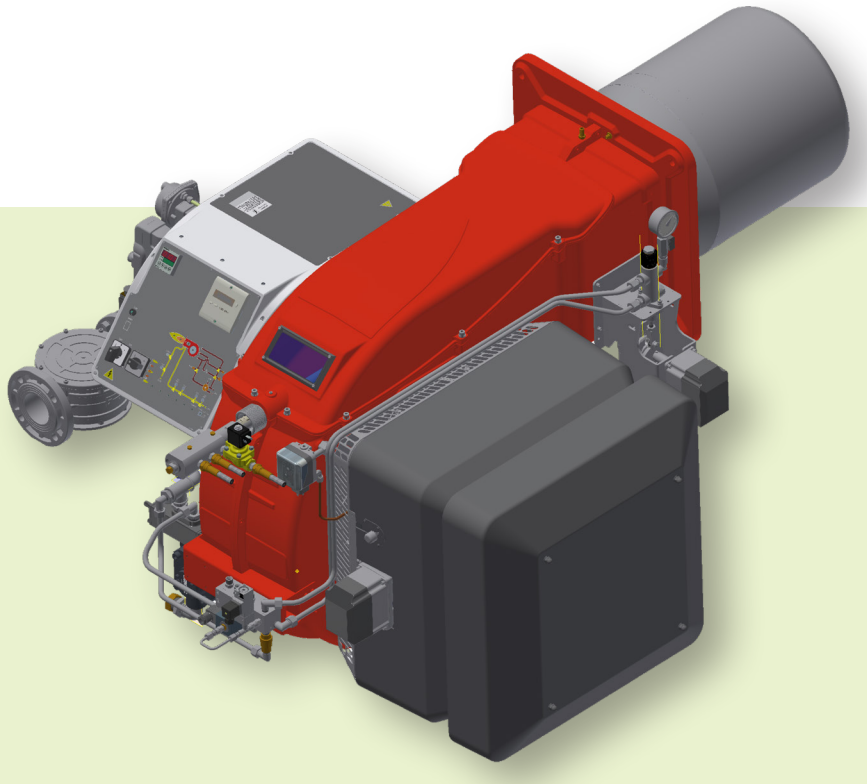
Attention:
- The working range values were determined with reference to laboratory tests with natural gas of lower calorific value Hi=34.02 MJ/Stm³ and density 0.714 kg/Stm³, (Stm³ refers to 1013 mbar and 15° C) and ambient conditions 1013 mbar and 20° C.
- To know the minimum gas pressure in the network, it is necessary to add the boiler back pressure to the value read on the curve.
- The pressure values vary depending on the configuration of the gas ramp. The minimum gas pressure curves refer to gas ramps assembled with standard supply valves.
- In the abscissa is the power value, in the ordinate the corresponding network pressure value net of the pressure in the combustion chamber. In order to know the mi nimum pressure at the ramp inlet, necessary to obtain the required gas flow, the pressure in the combustion chamber must be added to the value read on the ordinate.

HEAD X

K590X
K660X
K750X

Low NOx

- Low emissions (Class 3 - EN676)
- Possibility of working with innovative combustibles with low environmental impact such as
- Ample modulation range

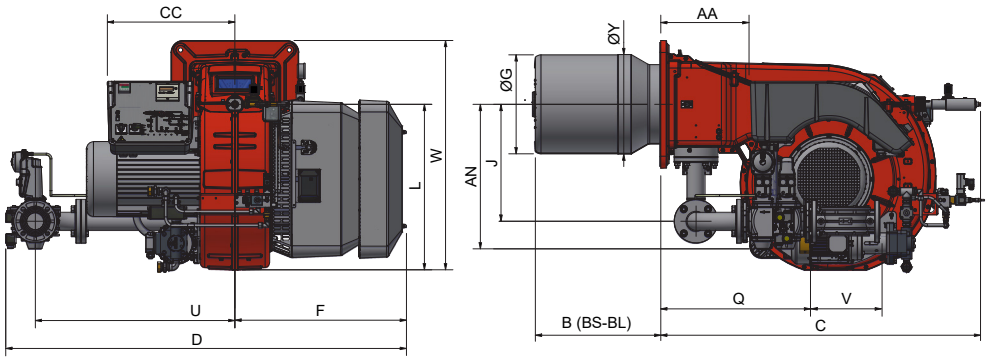


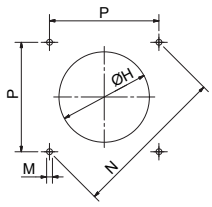
GAS / LIGHT OIL

TECHNICAL SPECIFICATIONS

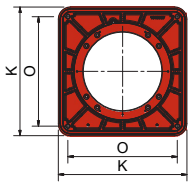
Type	Model	Power kW min	Power kW max	Power supply single-phase electricity auxiliary	Power supply three-phase electric motor	Fan motor kW	Pump motor kW	Gas connections	Level of noise emissions dBA
K590X	MG.xx.xR.IT.A.1.xxx	670	5.900	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	15,0	1,5	DN65 - DN80 - DN100 - DN125	< 85
K660X	MG.xx.xR.IT.A.1.xxx	680	6.600	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	15,0	2,2	DN65 - DN80 - DN100 - DN125	< 85
K750X	MG.xx.xR.IT.A.1.xxx	860	7.500	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	15,0	2,2	DN65 - DN80 - DN100 - DN125	< 85

For information on choosing the length of the blast tube, refer to the Technical Information booklet.





BOILER RECOMMENDED DRILLING TEMPLATE



BURNER FLANGE

PACKAGING DIMENSIONS* (mm)

Type	l	p	h	kg
K590X	2180	1450	1220	495
K660X	2180	1450	1220	530
K750X	2180	1450	1220	530

***INDICATIVE VALUES**

DIMENSIONS* (mm)

Type	Model	AA	AN	B		C	CC	D	F	G	H	J	K	L	M16	N	O	P	Q	U	V	W	Y
				BS	BL																		
K590X	MG.xx.xR.IT.A.1.65	373	611	430	530	1399	550	1695	638	360	400	494	540	700	M16	651	460	460	636	845	292	970	356
K590X	MG.xx.xR.IT.A.1.80	373	626	430	530	1399	550	1728	638	360	400	494	540	700	M16	651	460	460	687	875	313	970	356
K590X	MG.xx.xR.IT.A.1.100	373	641	430	530	1399	550	1808	638	360	400	494	540	700	M16	651	460	460	791	939	353	970	356
K590X	MG.xx.xR.IT.A.1.125	373	738	430	530	1399	550	2073	638	360	400	562	540	700	M16	651	460	460	904	1192	479	970	356
K660X	MG.xx.xR.IT.A.1.65	373	611	430	530	1399	550	1695	726	383	423	494	540	700	M16	651	460	460	636	845	292	970	336
K660X	MG.xx.xR.IT.A.1.80	373	626	430	530	1399	550	1728	726	383	423	494	540	700	M16	651	460	460	687	875	313	970	336
K660X	MG.xx.xR.IT.A.1.100	373	641	430	530	1399	550	1808	726	383	423	494	540	700	M16	651	460	460	791	939	353	970	336
K660X	MG.xx.xR.IT.A.1.125	373	738	430	530	1399	550	2073	726	383	423	562	540	700	M16	651	460	460	904	1192	479	970	336
K750X	MG.xx.xR.IT.A.1.65	373	611	430	530	1399	550	1695	726	419	469	494	540	700	M16	651	460	460	636	845	292	970	336
K750X	MG.xx.xR.IT.A.1.80	373	626	430	530	1399	550	1728	726	419	469	494	540	700	M16	651	460	460	687	875	313	970	336
K750X	MG.xx.xR.IT.A.1.100	373	641	430	530	1399	550	1808	726	419	469	494	540	700	M16	651	460	460	791	939	353	970	336
K750X	MG.xx.xR.IT.A.1.125	373	738	430	530	1399	550	2073	726	419	469	562	540	700	M16	651	460	460	904	1192	479	970	336

***INDICATIVE VALUES**

Attention: - The size of the gas train varies according to size and configuration.

ELECTRONIC OPERATION

Model	Gas train	Operation
MG.PR.SR.IT.A.1.65.EC	DN65	PR (*)
MG.PR.SR.IT.A.1.80.EC	DN80	PR (*)
MG.PR.SR.IT.A.1.100.EC	DN100	PR (*)
MG.PR.SR.IT.A.1.125.EC	DN125	PR (*)
MG.MD.SR.IT.A.1.65.ES	DN65	MD
MG.MD.SR.IT.A.1.80.ES	DN80	MD
MG.MD.SR.IT.A.1.100.ES	DN100	MD
MG.MD.SR.IT.A.1.125.ES	DN125	MD

SP = Standard blast tube + aluminum air intake (1)
SR = Standard blast tube + ABS polymer (silenced) air intake
LP = Extended blast tube + aluminum air intake
LR = Extended blast tube + ABS polymer (silenced) air intake (2)
PR = Progressive Adjustment
MD (*) = Modulating adjustment
(for the MD modulating version, the Modulation Kit must be added; see the list of variants)

Modulation kit = Kit to be combined with PR Progressive versions

In the MD modulating version, the burner must be equipped with the relevant modulating probe to complete the supply.

For LPG burners, see the list of variants

(1) For applications on furnaces and rotary drums, see the version with aluminium drawer (SP). Contact Cib Unigas for any clarification.

(2) For the following versions, please contact our offices.

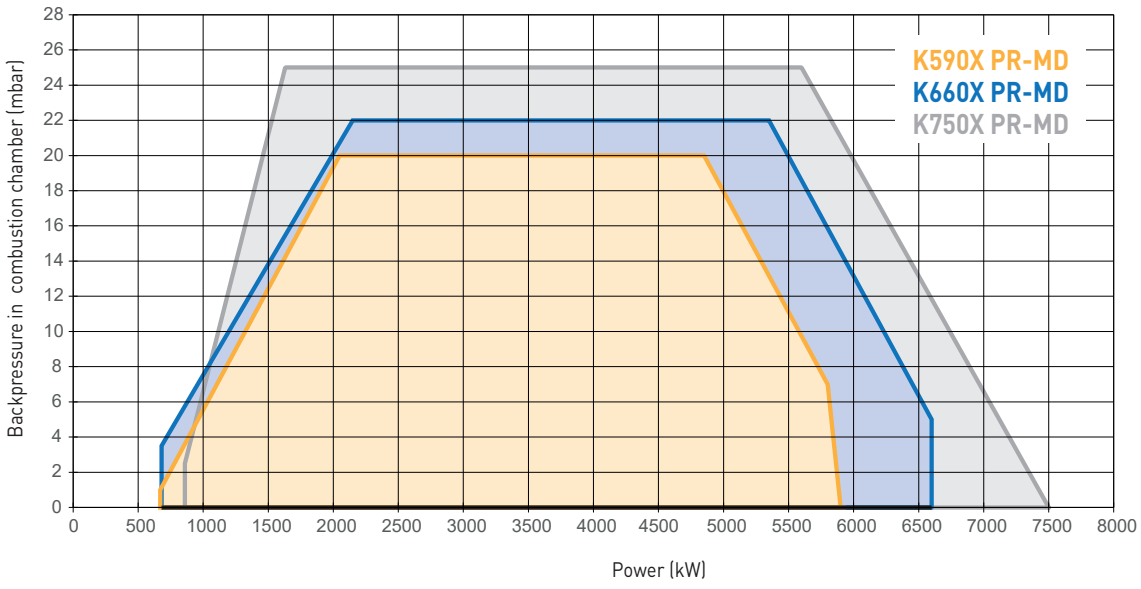
The products comply with European standards EN676 and EN267 and the following directives:
DIRECTIVE GAR 2016/426/EU
DIRECTIVE Low Tension 2014/35/UE
DIRECTIVE Electromagnetic compatibility 2014/30/UE
DIRECTIVE Machinery 2006/42/CE

NOx emission level:
- Class 3 (<80 mg/kWh) in gas operation according to EN676
- Class 2 (< 185 mg/kWh) in light oil operation according to EN267

For information on choosing the length of the blast tube, refer to the Technical Information booklet.

Burners also compatible with GPL, H_2
Burners also compatible with bio-oli

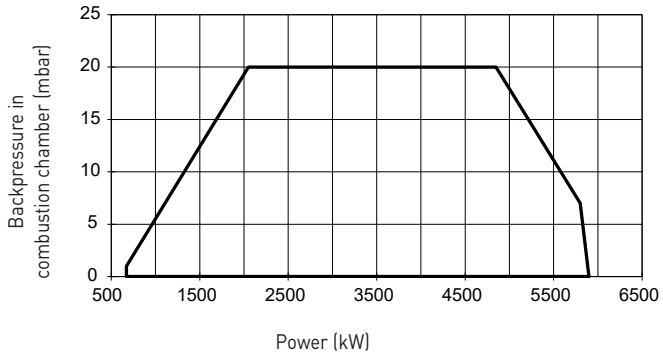
PERFORMANCE CURVES

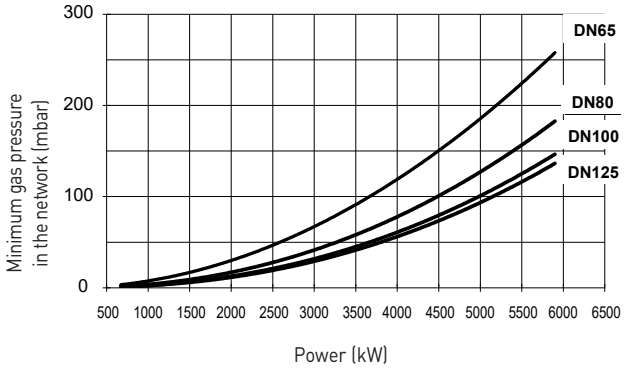


PERFORMANCE CURVES

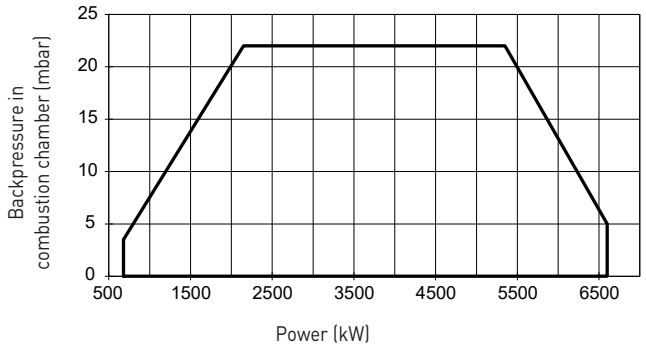
PRESSURE IN THE NETWORK

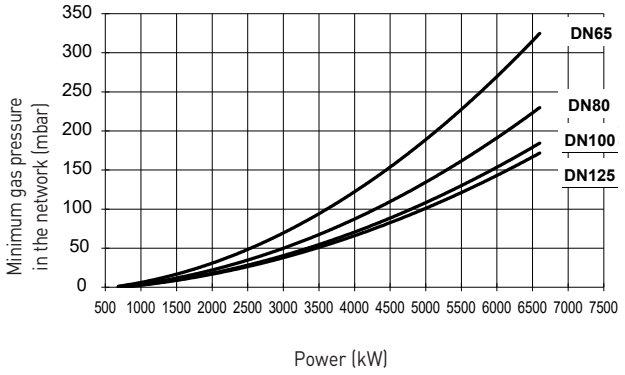
K590X PR-MD



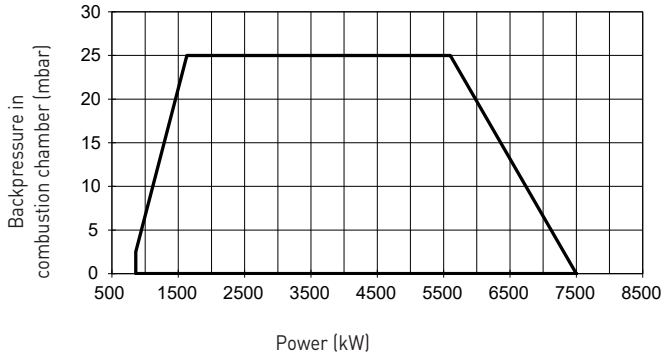


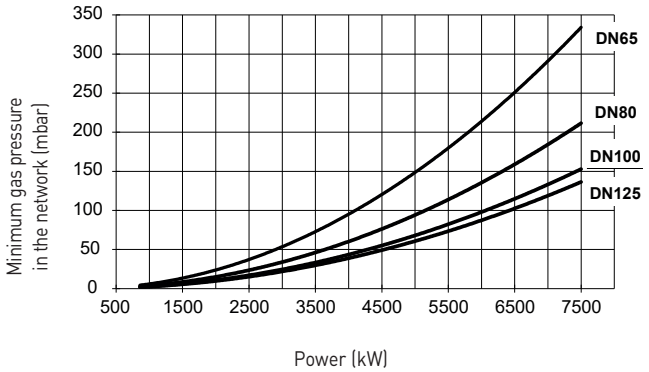
K660X PR-MD





K750X PR-MD





Attention:
- The working range values were determined with reference to laboratory tests with natural gas of lower calorific value Hi=34.02 MJ/Stm³ and density 0.714 kg/Stm³, (Stm³ refers to 1013 mbar and 15° C) and ambient conditions 1013 mbar and 20° C.
- To know the minimum gas pressure in the network, it is necessary to add the boiler back pressure to the value read on the curve.
- The pressure values vary depending on the configuration of the gas ramp. The minimum gas pressure curves refer to gas ramps assembled with standard supply valves.
- In the abscissa is the power value, in the ordinate the corresponding network pressure value net of the pressure in the combustion chamber. In order to know the mi nimum pressure at the ramp inlet, necessary to obtain the required gas flow, the pressure in the combustion chamber must be added to the value read on the ordinate.

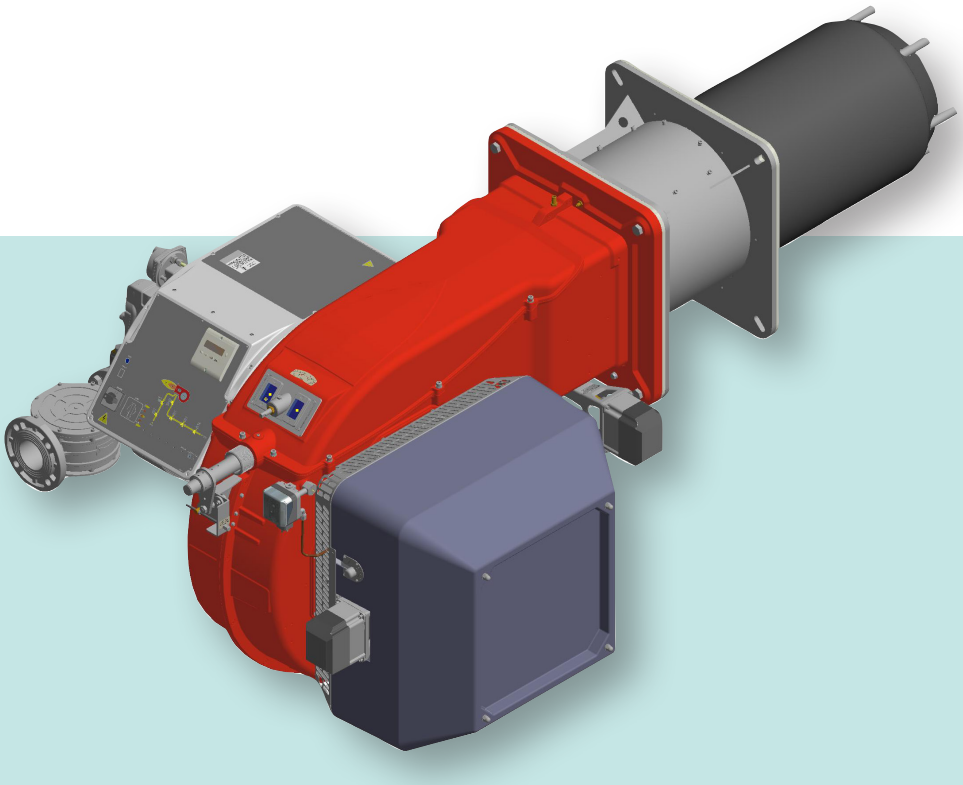
HEAD N

K575V
K670V

Ultra Low NOx

Low emissions (Class 4 - EN676)

Wide modulation range



GAS

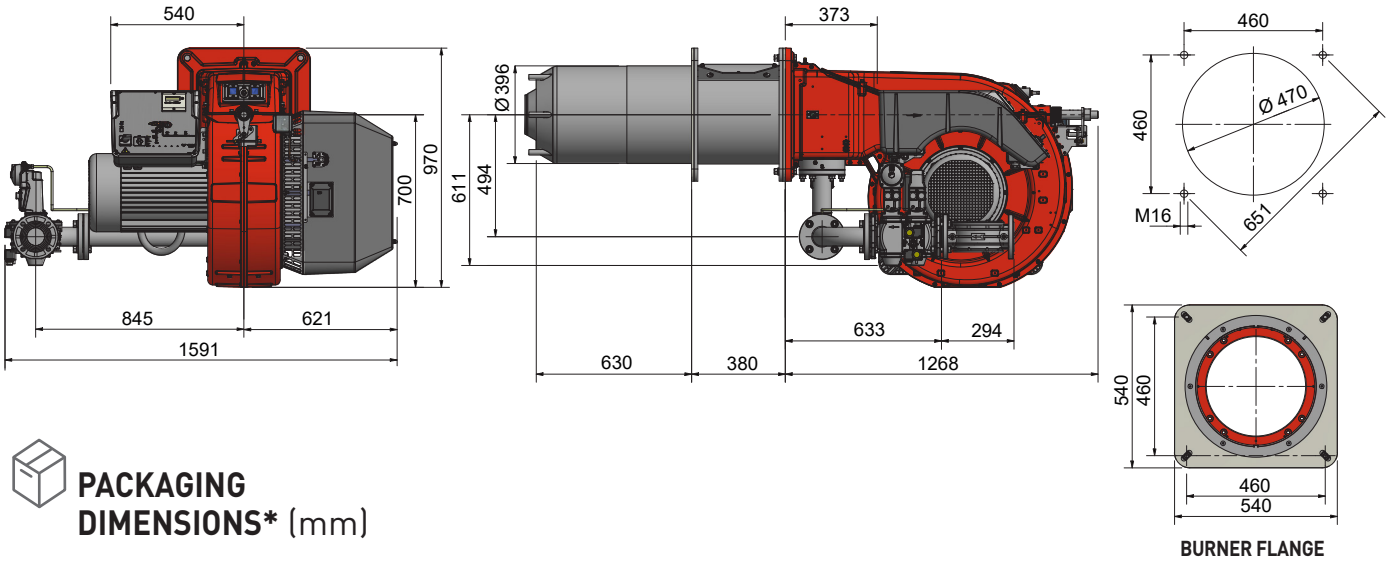
TECHNICAL SPECIFICATIONS

Type	Model	Power kW min	Power kW max	Power supply single-phase electricity auxiliary	Power supply three-phase electric motor	Fan motor kW	Gas connections	Level of noise emissions dBA
K575V	M-.xx.S.IT.A.1.xxx	830	5.740	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	15	2" - DN65 - DN80 - DN100	82,2
K670V	M-.xx.S.IT.A.1.65	550	6.750	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	15	2" - DN65 - DN80 - DN100	85,6

For information on choosing the length of the blast tube, refer to the Technical Information booklet.

DIMENSIONS* (mm)

K670V M-.MD.SR.IT.A.1.65.EA



PACKAGING DIMENSIONS* (mm)

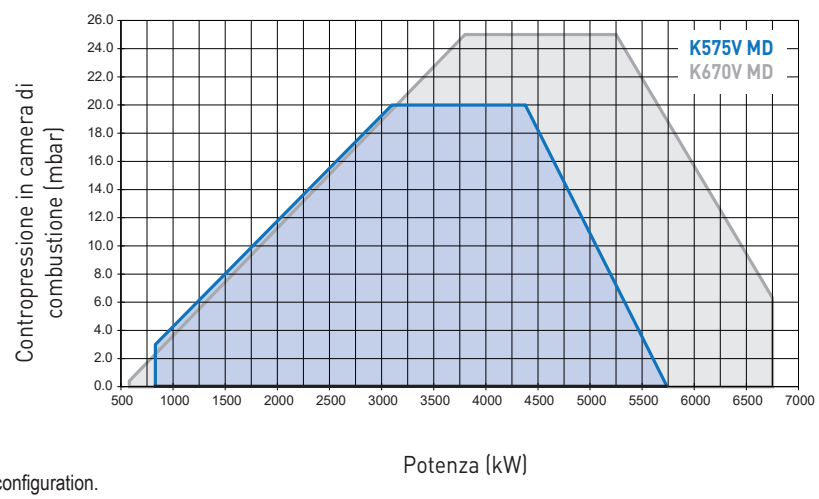
Type	l	p	h	kg
K575V	2040	1450	1220	430
K670V	2040	1450	1220	455

***INDICATIVE VALUES**

ELECTRONIC OPERATION

Model	Gas train	Operation
M-.PR.SR.IT.A.1.65.EA	DN65	PR (*)
M-.PR.SR.IT.A.1.80.EA	DN80	PR (*)
M-.PR.SR.IT.A.1.100.EA	DN100	PR (*)
M-.PR.SR.IT.A.1.125.EA	DN125	PR (*)
M-.MD.SR.IT.A.1.65.ES	DN65	MD
M-.MD.SR.IT.A.1.80.ES	DN80	MD
M-.MD.SR.IT.A.1.100.ES	DN100	MD
M-.MD.SR.IT.A.1.125.ES	DN125	MD

PERFORMANCE CURVES



Attention: - The size of the gas train varies according to size and configuration.

ELECTRONIC OPERATION

SP = Standard blast tube + aluminum air intake (1)
SR = Standard blast tube + ABS polymer (silenced) air intake
LP = Extended blast tube + aluminum air intake
LR = Extended blast tube + ABS polymer (silenced) air intake (2)
PR = Progressive Adjustment
MD (*) = Modulating adjustment
(for the MD modulating version, the Modulation Kit must be added; see the list of variants)

Modulation kit = Kit to be combined with PR Progressive versions

In the MD modulating version, the burner must be equipped with the relevant modulating probe to complete the supply.

For LPG burners, see the list of variants

(1) For applications on furnaces and rotary drums, see the version with aluminium drawer (SP). Contact Cib Unigas for any clarification.

(2) For the following versions, please contact our offices.

The products comply with European standards EN676 and EN267 and the following directives:
DIRECTIVE GAR 2016/426/EU

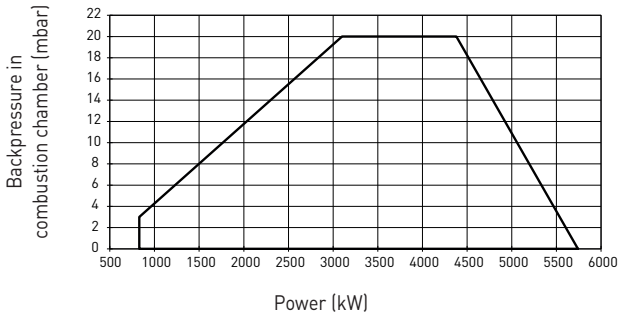
NOx emission level:
- Class 4 (<60 mg/kWh) in gas operation according to EN676

For information on choosing the length of the blast tube, refer to the Technical Information booklet.

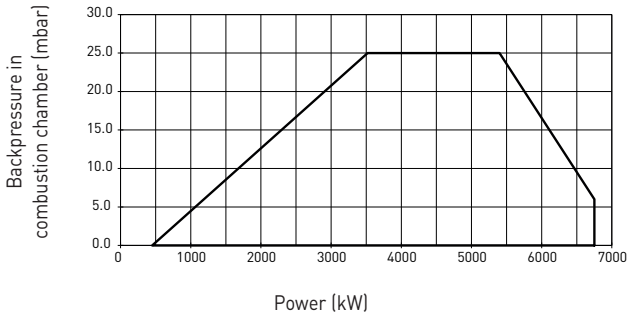
Burners also compatible with GPL, H_2

PERFORMANCE CURVES

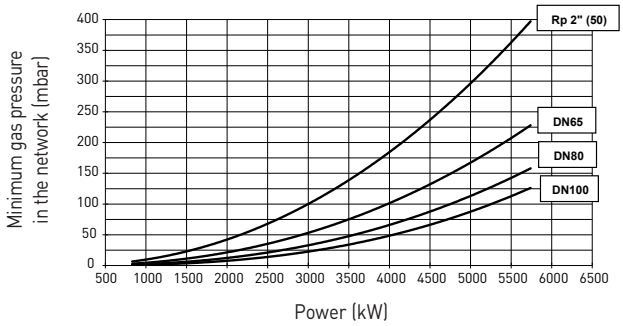
K575V

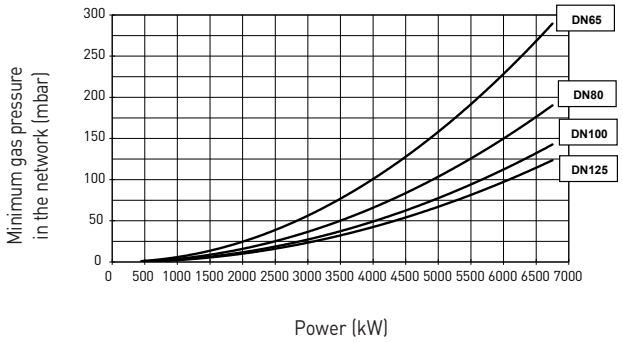


K670V



PRESSURE IN THE NETWORK





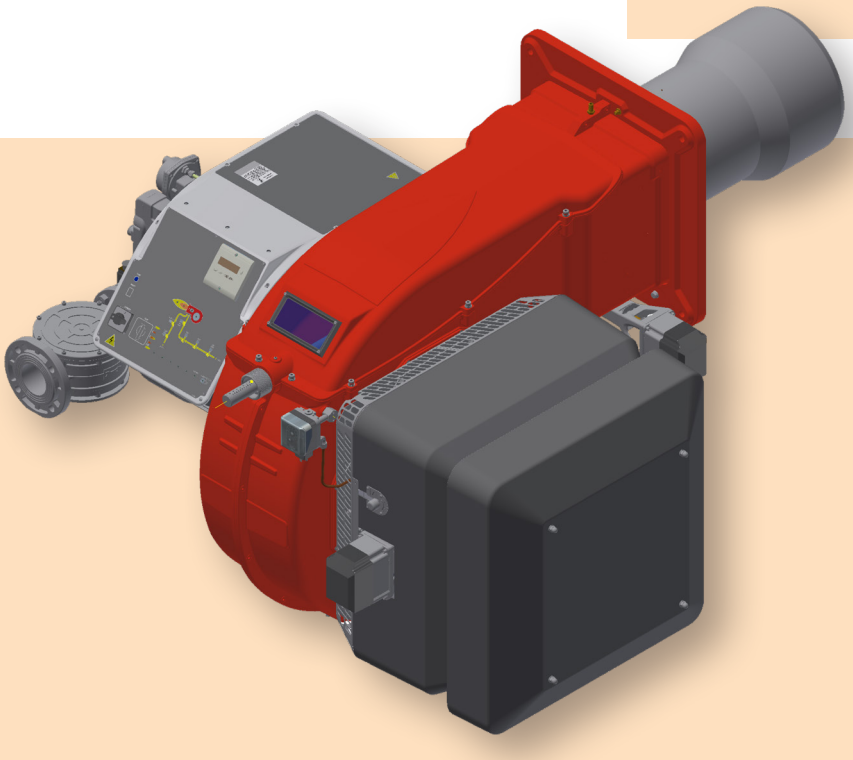
Attention:
- The working range values were determined with reference to laboratory tests with natural gas of lower calorific value Hi=34.02 MJ/Stm³ and density 0.714 kg/Stm³, (Stm³ refers to 1013 mbar and 15° C) and ambient conditions 1013 mbar and 20° C.
- To know the minimum gas pressure in the network, it is necessary to add the boiler back pressure to the value read on the curve.
- The pressure values vary depending on the configuration of the gas ramp. The minimum gas pressure curves refer to gas ramps assembled with standard supply valves.
- In the abscissa is the power value, in the ordinate the corresponding network pressure value net of the pressure in the combustion chamber. In order to know the mi nimum pressure at the ramp inlet, necessary to obtain the required gas flow, the pressure in the combustion chamber must be added to the value read on the ordinate.

HEAD A

K750A
K890A
K990A

Highly flexible burners

- Extensive flexibility
- Adjustment flexibility
- Possibility of working with all types of vacuum furnaces
- Many types of civil and industrial applications

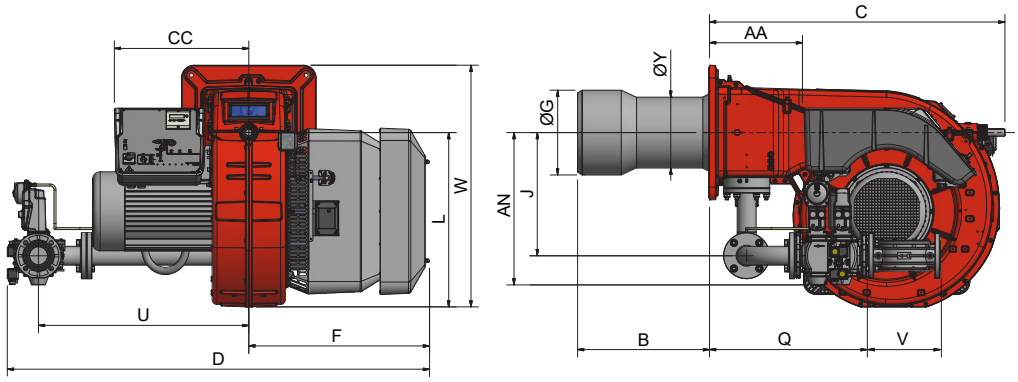


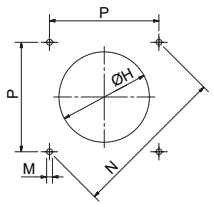
GAS

TECHNICAL SPECIFICATIONS

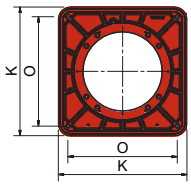
Type	Model	Power kW min	Power kW max	Power supply single-phase electricity auxiliary	Power supply three-phase electric motor	Fan motor kW	Gas connections	Level of noise emissions dBA
K750A	M-.xx.SR.IT.A.1.xxx	880	7.500	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	15,0	DN65 - DN80 - DN100 - DN125	< 85
K890A	M-.xx.SR.IT.A.1.xxx	1.000	8.900	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	15,0	DN65 - DN80 - DN100 - DN125	< 85
K990A	M-.xx.SR.IT.A.1.xxx	1.820	9.900	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	15,0	DN80 - DN100 - DN125	< 85

For information on choosing the length of the blast tube, refer to the Technical Information booklet.





BOILER RECOMMENDED DRILLING TEMPLATE



BURNER FLANGE

DIMENSIONI IMBALLO* (mm)

Type	l	p	h	kg
K750A	2040	1450	1220	475
K890A	2040	1450	1220	480
K990A	2040	1450	1220	485

*** INDICATIVE VALUES (REFERRED TO THE MODEL WITH DN80 GAS TRAIN)**

DIMENSIONS* (mm)

Type	Model	AA	AN	B(S)	C	CC	D	F	G	H	J	K	L	M	N	O	P	Q	U	V	W	Y
K750A	M-.xx.SR.IT.A.1.65	373	611	530	1211	540	1695	726	340	380	494	540	700	M16	651	460	460	636	845	292	970	328
K750A	M-.xx.SR.IT.A.1.80	373	626	530	1211	540	1728	726	340	380	494	540	700	M16	651	460	460	687	875	313	970	328
K750A	M-.xx.SR.IT.A.1.100	373	641	530	1211	540	1808	726	340	380	494	540	700	M16	651	460	460	791	939	353	970	328
K750A	M-.xx.SR.IT.A.1.125	373	738	530	1211	540	2073	726	340	380	562	540	700	M16	651	460	460	904	1192	479	970	328
K890A	M-.xx.SR.IT.A.1.65	373	611	530	1211	540	1695	726	400	440	494	540	700	M16	651	460	460	636	845	292	970	328
K890A	M-.xx.SR.IT.A.1.80	373	626	530	1211	540	1728	726	400	440	494	540	700	M16	651	460	460	687	875	313	970	328
K890A	M-.xx.SR.IT.A.1.100	373	641	530	1211	540	1808	726	400	440	494	540	700	M16	651	460	460	791	939	353	970	328
K890A	M-.xx.SR.IT.A.1.125	373	738	530	1211	540	2073	726	400	440	562	540	700	M16	651	460	460	904	1192	479	970	328
K990A	M-.xx.SR.IT.A.1.80	373	626	530	1211	540	1728	726	434	484	494	540	700	M16	651	460	460	687	875	313	970	328
K990A	M-.xx.SR.IT.A.1.100	373	641	530	1211	540	1808	726	434	484	494	540	700	M16	651	460	460	791	939	353	970	328

***INDICATIVE VALUES**

Attention: - The size of the gas train varies according to size and configuration.

MECHANICAL OPERATION

Model	Gas train	Operation
M-.PR.SR.IT.A.1.65	DN65	PR (*)
M-.PR.SR.IT.A.1.80	DN80	PR (*)
M-.PR.SR.IT.A.1.100	DN100	PR (*)
M-.PR.SR.IT.A.1.125	DN 125	PR (*)

ELECTRONIC OPERATION

Model	Gas train	Operation
M-.PR.SR.IT.A.1.65.EA	DN65	PR (*)
M-.PR.SR.IT.A.1.80.EA	DN80	PR (*)
M-.PR.SR.IT.A.1.100.EA	DN100	PR (*)
M-.PR.SR.IT.A.1.125.EA	DN 125	PR (*)
M-.MD.SR.IT.A.1.65.ES	DN65	MD
M-.MD.SR.IT.A.1.80.ES	DN80	MD
M-.MD.SR.IT.A.1.100.ES	DN100	MD
M-.MD.SR.IT.A.1.125.ES	DN 125	MD

SP = Standard blast tube + aluminum air intake (1)
SR = Standard blast tube + ABS polymer (silenced) air intake
LP = Extended blast tube + aluminum air intake
LR = Extended blast tube + ABS polymer (silenced) air intake (2)
PR = Progressive Adjustment
MD (*) = Modulating adjustment
(for the MD modulating version, the Modulation Kit must be added; see the list of variants)

Modulation kit = Kit to be combined with PR Progressive versions

In the MD modulating version, the burner must be equipped with the relevant modulating probe to complete the supply.

For LPG burners, see the list of variants

(1) For applications on furnaces and rotary drums, see the version with aluminium drawer (SP). Contact Cib Unigas for any clarification.

(2) For the following versions, please contact our offices.

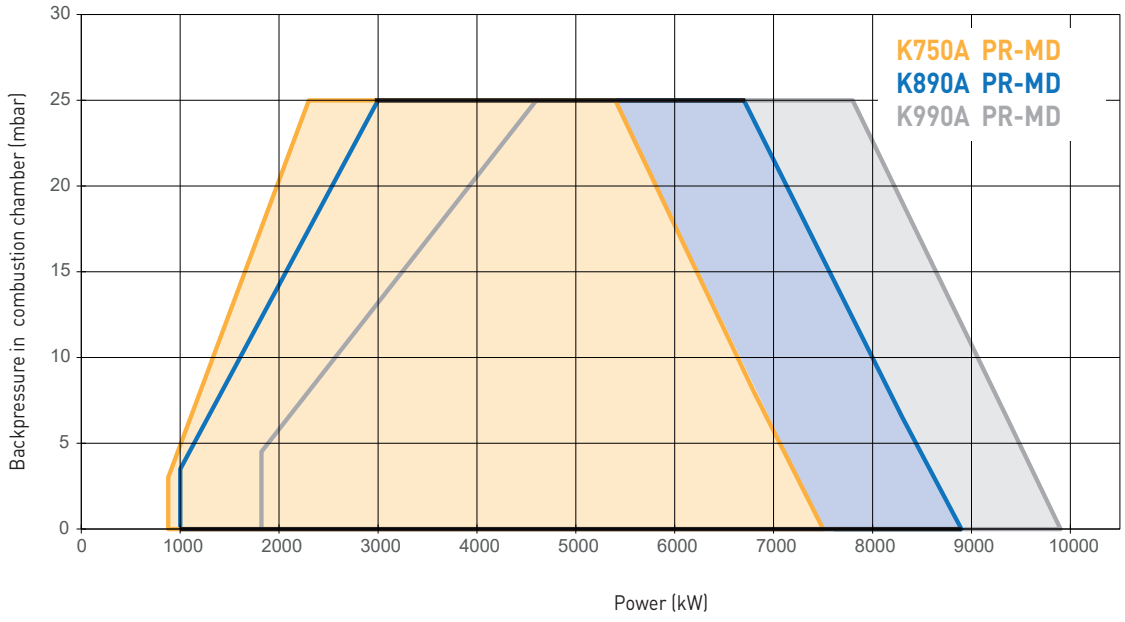
The products comply with European standards EN676 and EN267 and the following directives:
DIRECTIVE GAR 2016/426/EU

NOx emission level:
- Class 2 (<120 mg/kWh) in gas operation according to EN676

For information on choosing the length of the blast tube, refer to the Technical Information booklet.

Burners also compatible with GPL, biogas, syngas, off gas

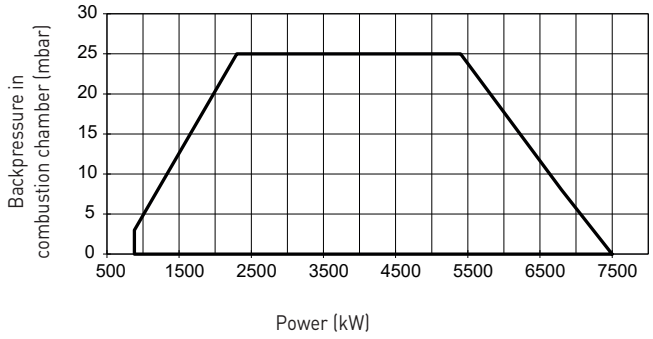
PERFORMANCE CURVES

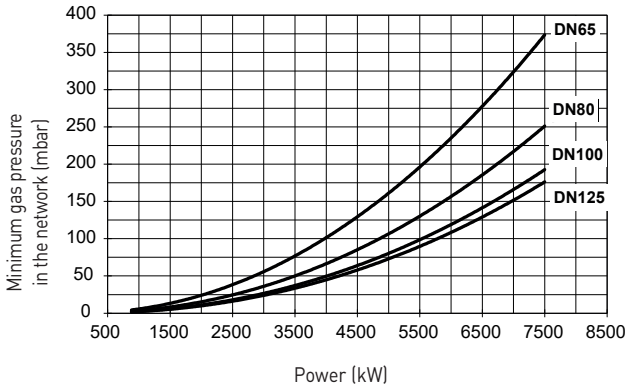


PERFORMANCE CURVES

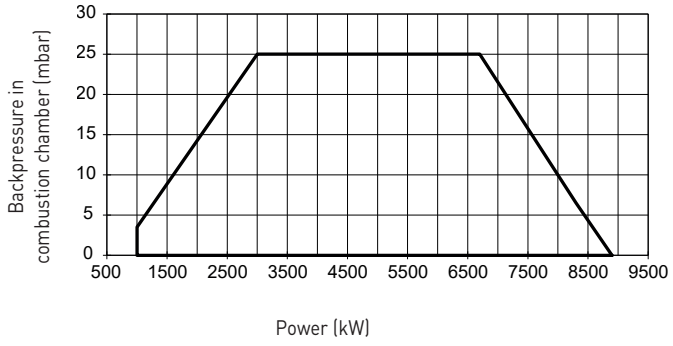
PRESSURE IN THE NETWORK

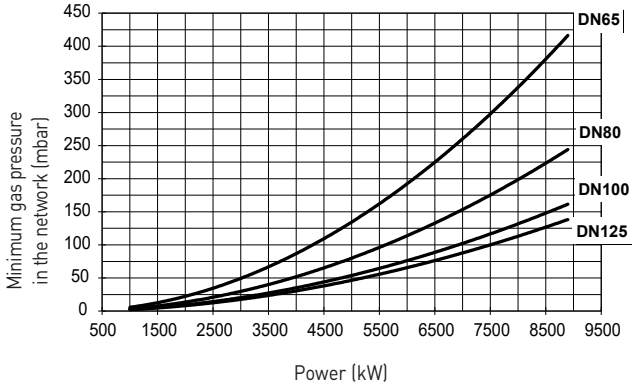
K750A PR-MD



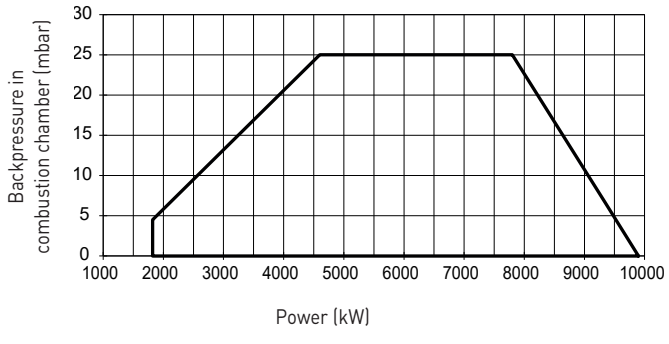


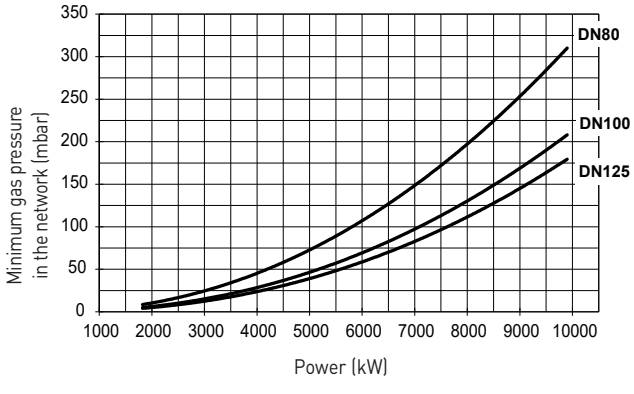
K890A PR-MD





K990A PR-MD





Attention:

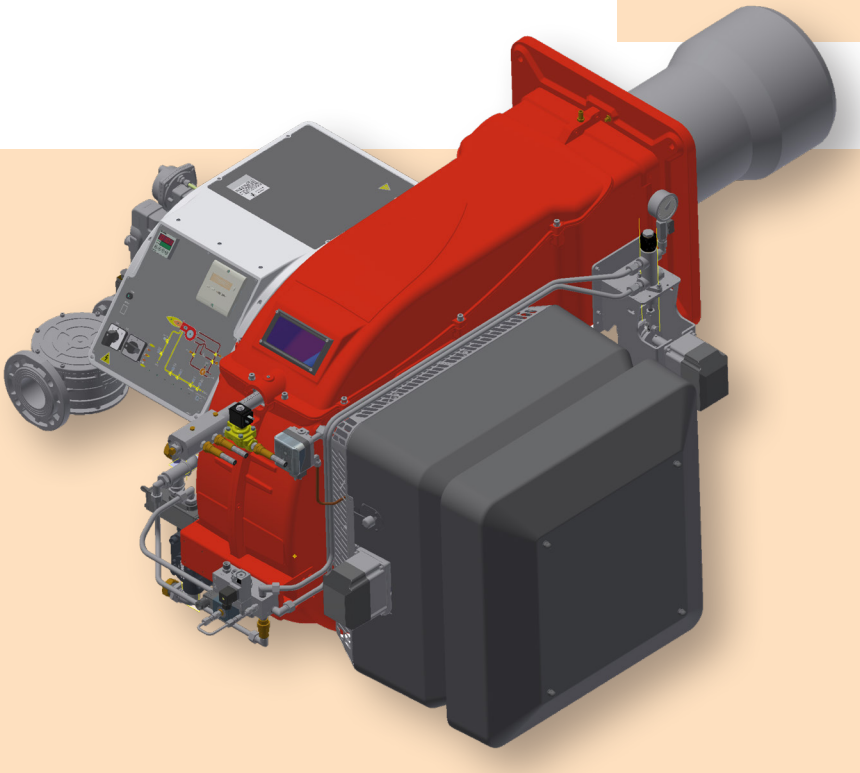
- The working range values were determined with reference to laboratory tests with natural gas of lower calorific value Hi=34.02 MJ/Stm³ and density 0.714 kg/Stm³, (Stm³ refers to 1013 mbar and 15° C) and ambient conditions 1013 mbar and 20° C.
- To know the minimum gas pressure in the network, it is necessary to add the boiler back pressure to the value read on the curve.
- The pressure values vary depending on the configuration of the gas ramp. The minimum gas pressure curves refer to gas ramps assembled with standard supply valves.
- In the abscissa is the power value, in the ordinate the corresponding network pressure value net of the pressure in the combustion chamber. In order to know the mi nimum pressure at the ramp inlet, necessary to obtain the required gas flow, the pressure in the combustion chamber must be added to the value read on the ordinate.

HEAD A

K750A
K890A
K990A

Highly flexible burners

- Extensive flexibility
- Adjustment flexibility
- Possibility of working with all types of vacuum furnaces
- Many types of civil and industrial applications

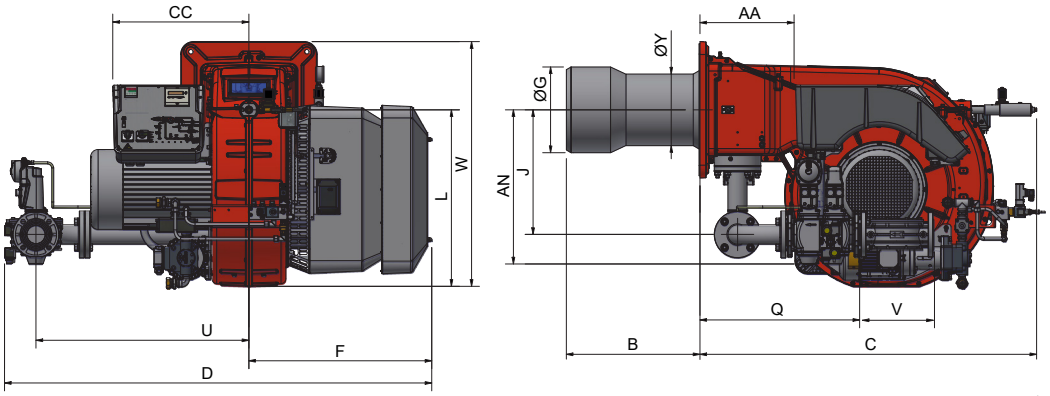


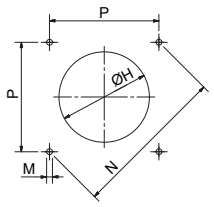
GAS / LIGHT OIL

TECHNICAL SPECIFICATIONS

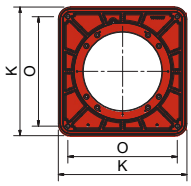
Type	Model	Power kW min	Power kW max	Power supply single-phase electricity auxiliary	Power supply three-phase electric motor	Fan motor kW	Pump motor kW	Gas connections	Level of noise emissions dBA
K750A	MG.xx.SR.IT.A.1.xxx	880	7.500	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	15,0	2,2	DN65 - DN80 - DN100 - DN125	< 85
K890A	MG.xx.SR.IT.A.1.xxx	1.000	8.900	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	15,0	3	DN65 - DN80 - DN100 - DN125	< 85
K990A	MG.xx.SR.IT.A.1.xxx	1.820	9.900	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	15,0	4	DN80 - DN100 - DN125	< 85

For information on choosing the length of the blast tube, refer to the Technical Information booklet.





BOILER RECOMMENDED DRILLING TEMPLATE



BURNER FLANGE

PACKAGING DIMENSIONS* (mm)

Type	l	p	h	kg
K750A	2180	1450	1220	520
K890A	2180	1450	1220	530
K990A	2180	1450	1220	540

***VALORI INDICATIVI RIFERITI AL MODELLO CON RAMPA GAS DN80**

DIMENSIONS* (mm)

Type	Model	AA	AN	B(L)	C	CC	D	F	G	H	J	K	L	M	N	O	P	Q	U	V	W
K750A	MG.xx.SR.IT.A.1.65	373	611	530	1393	540	1695	726	340	380	494	540	700	M16	651	460	460	637	845	292	970
K750A	MG.xx.SR.IT.A.1.80	373	626	530	1393	540	1728	726	340	380	494	540	700	M16	651	460	460	688	875	313	970
K750A	MG.xx.SR.IT.A.1.100	373	641	530	1393	540	1808	726	340	380	494	540	700	M16	651	460	460	791	939	353	970
K750A	MG.xx.SR.IT.A.1.125	373	737	530	1393	540	2073	726	340	380	562	540	700	M16	651	460	460	904	1192	479	970
K890A	MG.xx.SR.IT.A.1.65	373	611	530	1393	540	1695	726	400	440	494	540	700	M16	651	460	460	637	845	292	970
K890A	MG.xx.SR.IT.A.1.80	373	626	530	1393	540	1728	726	400	440	494	540	700	M16	651	460	460	688	875	313	970
K890A	MG.xx.SR.IT.A.1.100	373	641	530	1393	540	1808	726	400	440	494	540	700	M16	651	460	460	791	939	353	970
K890A	MG.xx.SR.IT.A.1.125	373	737	530	1393	540	2073	726	400	440	562	540	700	M16	651	460	460	904	1192	479	970
K990A	MG.xx.SR.IT.A.1.80	373	626	530	1393	540	1728	726	434	484	494	540	700	M16	651	460	460	688	875	313	970
K990A	MG.xx.SR.IT.A.1.100	373	641	530	1393	540	1808	726	434	484	494	540	700	M16	651	460	460	791	939	353	970
K990A	MG.xx.SR.IT.A.1.125	373	737	530	1393	540	2073	726	434	484	562	540	700	M16	651	460	460	904	1192	479	970

***INDICATIVE VALUES**

Attention: - The size of the gas train varies according to size and configuration.

MECHANICAL OPERATION

Model	Gas train	Operation
MG.PR.SR.IT.A.1.65	DN65	PR (*)
MG.PR.SR.IT.A.1.80	DN80	PR (*)
MG.PR.SR.IT.A.1.100	DN100	PR (*)
MG.PR.SR.IT.A.1.125	DN 125	PR (*)

ELECTRONIC OPERATION

Model	Gas train	Operation
MG.PR.SR.IT.A.1.65.EC	DN65	PR (*)
MG.PR.SR.IT.A.1.80.EC	DN80	PR (*)
MG.PR.SR.IT.A.1.100.EC	DN100	PR (*)
MG.PR.SR.IT.A.1.125.EC	DN125	PR (*)
MG.MD.SR.IT.A.1.65.ES	DN65	MD
MG.MD.SR.IT.A.1.80.ES	DN80	MD
MG.MD.SR.IT.A.1.100.ES	DN100	MD
MG.MD.SR.IT.A.1.125.ES	DN125	MD

SP = Standard blast tube + aluminum air intake (1)
SR = Standard blast tube + ABS polymer (silenced) air intake
LP = Extended blast tube + aluminum air intake
LR = Extended blast tube + ABS polymer (silenced) air intake (2)
PR = Progressive Adjustment
MD (*) = Modulating adjustment
(for the MD modulating version, the Modulation Kit must be added; see the list of variants)

Modulation kit = Kit to be combined with PR Progressive versions

Nella versione modulante MD per completare la fornitura è necessario corredare il bruciatore della relativa sonda modulante.

For LPG burners, see the list of variants

(1) For applications on furnaces and rotary drums, see the version with aluminium drawer (SP). Contact Cib Unigas for any clarification.

(2) For the following versions, please contact our offices.

The products comply with European standards EN676 and EN267 and the following directives:
DIRECTIVE GAR 2016/426/EU
DIRECTIVE Low Tension 2014/35/UE
DIRECTIVE Electromagnetic compatibility 2014/30/UE
DIRECTIVE Machinery 2006/42/CE

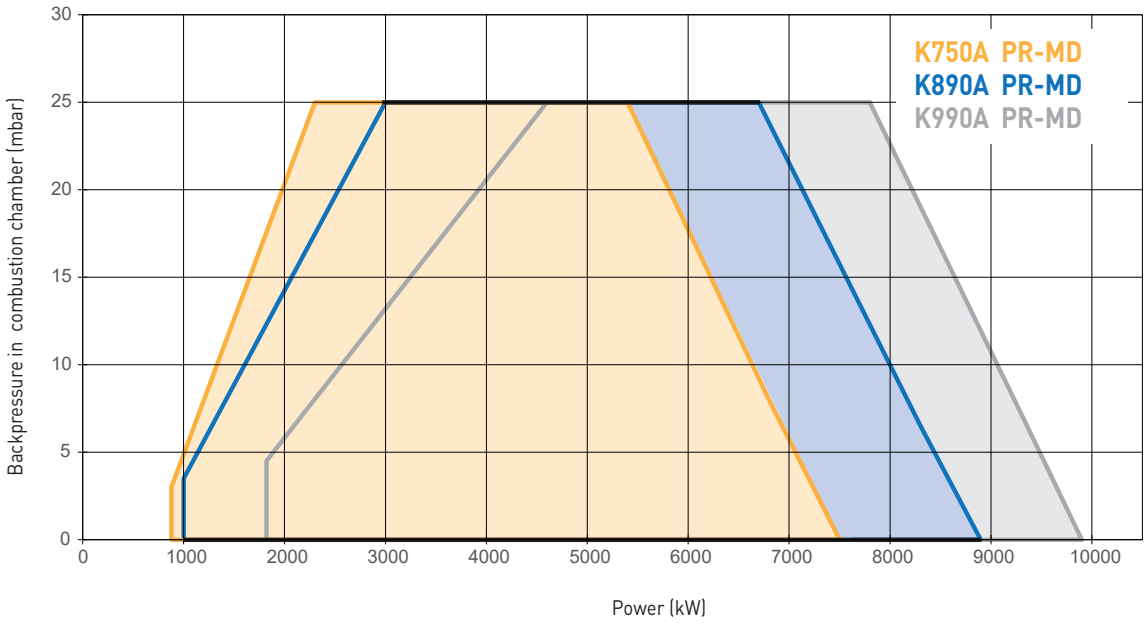
NOx emission level:
- Class 2 (<120 mg/kWh) in gas operation according to EN676
- Class 1 (< 250 mg/kWh) in light oil operation according to EN267

For information on choosing the length of the blast tube, refer to the Technical Information booklet.

Burners also compatible with GPL, biogas, syngas, off gas, H_2

Burners also compatible with bio-oli

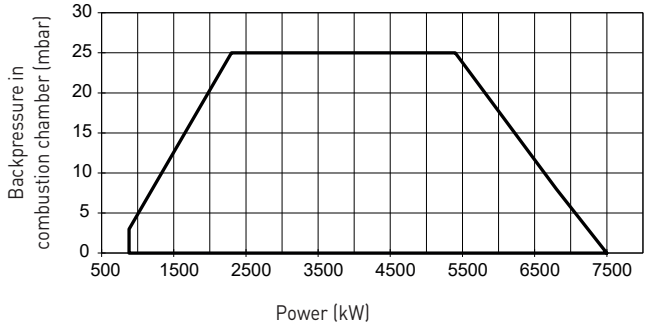
PERFORMANCE CURVES

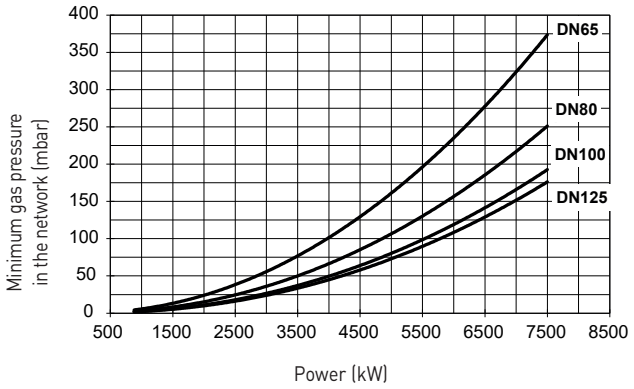


PERFORMANCE CURVES

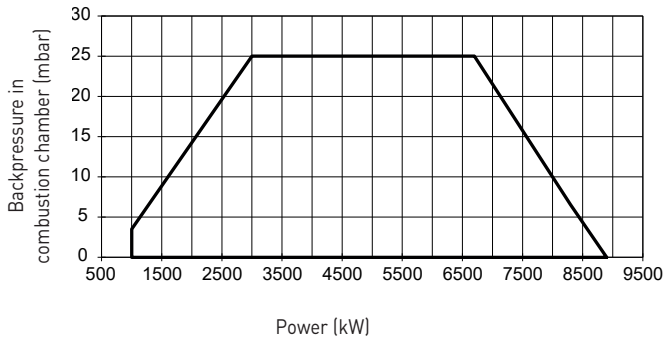
PRESSURE IN THE NETWORK

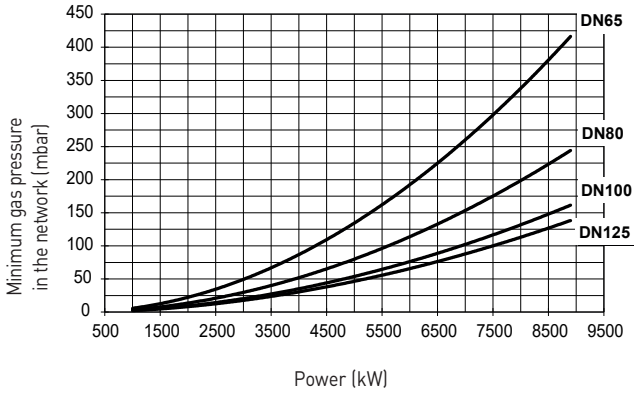
K750A PR-MD



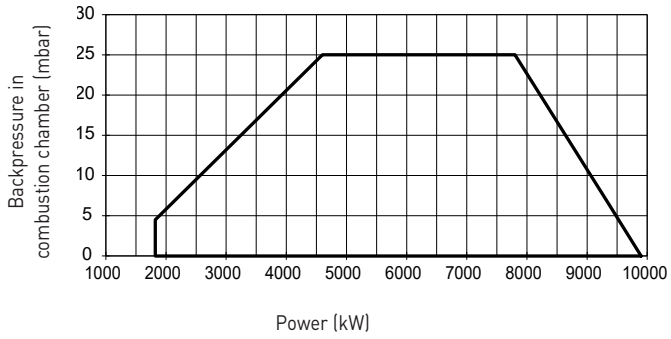


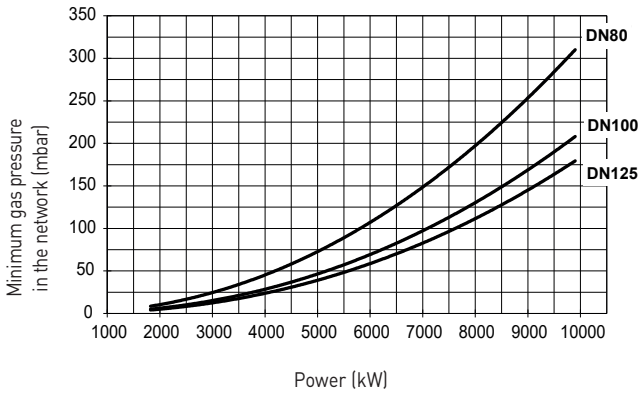
K890A PR-MD





K990A PR-MD





Attention:
- The working range values were determined with reference to laboratory tests with natural gas of lower calorific value Hi=34.02 MJ/Stm³ and density 0.714 kg/Stm³, (Stm³ refers to 1013 mbar and 15° C) and ambient conditions 1013 mbar and 20° C.
- To know the minimum gas pressure in the network, it is necessary to add the boiler back pressure to the value read on the curve.
- The pressure values vary depending on the configuration of the gas ramp. The minimum gas pressure curves refer to gas ramps assembled with standard supply valves.
- In the abscissa is the power value, in the ordinate the corresponding network pressure value net of the pressure in the combustion chamber. In order to know the mi nimum pressure at the ramp inlet, necessary to obtain the required gas flow, the pressure in the combustion chamber must be added to the value read on the ordinate.



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Note: specifications and data subject to change.
Errors and omissions excepted.