



**CIB UNIGAS**

Let's light up tomorrow

**GAS Low NO<sub>x</sub> BURNERS  
FACILE**



[www.cibunigas.it](http://www.cibunigas.it)

The basis of true progress is the distribution of the advantages it brings, among which improved living standards and the protection of the environment are certainly included.

The CIB UNIGAS burners are developed and manufactured in order to have the minimum environmental impact and the lowest polluting emissions. Duly matched with correct combustion chambers, they can obtain exceptional results which place CIB UNIGAS among the key players of the sector in the world. Working closely with our Research and Development department, our technicians, specialised and dedicated to the implementation of these products, have capitalised on the experience accumulated over the years in the field of **Class 3** Low Nox standard burners (<80 mg/kWh EN 676) in order to create a parallel range of low environmental impact burners. In this way, the "**FACILE**" range was created, which can maintain an emissions' level lower than 55 mg/kWh without flue gas recirculation, complying with CIB UNIGAS recommendations about boiler thermal load value.



### **GENERAL FEATURES**

New soundproofing **NRS** (Noise Reduction System)

Low NO<sub>x</sub> firing head (class 3 ecologic) **LSR**

New fan ventilator system **HVE** (High Ventilation Efficiency)

New electrical panel



The new website of CIB UNIGAS is a world of full information which are available in your own language. After the registration to our website, you can access in your personal area, whenever you want, using PC, smart phone or tablet.

You will find out our closest office and a staff that is more than happy to assist you. Furthermore, you can download all the technical up-to-date documentation you need.

In CIB UNIGAS you can find not only burners for domestic and industrial applications, but also experienced and professional technicians and skilled managers who are always at your disposal and who find customized solutions to meet your requirements. CIB UNIGAS guarantees its products and provides you with a number of service centers all around the world.



## OVERTURNING THE PERSPECTIVE IS FACILE

The FACILE project stems from the vision of creating an easy commissioning burner, and, at the same time, making it more efficient in terms of energy consumption. From the beginning, the goal was to observe the “machine” from a different point of view, away from the classic design stereotypes of the burner, and developing a new conception.

The burner is no longer seen as a passive device but, on the contrary, interactive and autonomous in relation to the environmental variables and plant conditions.

The FACILE system is patented (No. WO2015121800A1).



## THERE IS A TECHNICIAN BUT YOU CAN'T SEE IT

The main characteristic of the system is that it does not need the setting of the burner on plant, and therefore it skips the (sometimes) laborious and expensive commissioning operated by a qualified technician. The fuel curves of the burner are autonomously created by the system in the initial start-up phase, independently from the type of generator and of process. This phase, completely automatic, is generally carried out in 10/20 minutes time, and it does not need any intervention by a technician other than the supervision. This saves a significant amount of time and resources in the initial start-up phase.



## MORE THAN A SIMPLE BURNER

FACILE is not a simple burner, but a “combustion philosophy”. With FACILE the burner operation is granted within its performance characteristics according to the applicable regulations. The system, thus, guarantees safety, and excludes any non-compliant adjustment.

FACILE is, moreover, equipped with a device for remote data control which allows monitoring the burner operation and obtaining parameters and statistics useful for the end user. A specific platform is developed for the service technicians, who can provide a service of predictive maintenance, and simplify the service management and costs.



## AS SIMPLE AS FACILE

The system does not provide a “Closed Loop” type check with a feedback on combustion (Lambda sensor - O<sub>2</sub> sensor – probe CO), and it is ready to work without any changes which can affect the generator. Of course, the “Closed Loop” type check remains available as an optional. FACILE includes a full modulating system with settable p.i.d. parameters, which allow managing the thermoregulation function without adding further devices. The system, moreover, manages the Inverter device to increase the power ratio between maximum and minimum, and to reduce the electrical consumption.

## INDIRECT O<sub>2</sub> CONTROL



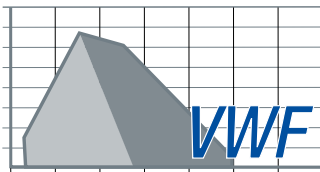
Indirect Oxygen Control: the ratio air/gas is guaranteed and corrected, measuring in real time the mass flow.

## Wi-Fi



FACILE is provided with a system for remote data transmission which allows an analysis of the functioning by the end user, and a service of predictive maintenance.

## VARIABLE WORKING FIELD



Variable Working Field: the performance curve is automatically adapted to the peculiarities of the boiler. Moreover the system guarantees the correct combustion, by limiting the working point where the fan cannot guarantee the necessary air flow rate.

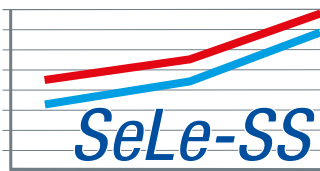
## SELF LEARNING IGNITION POINT



Self Learning - Ignition Point: the ignition point is automatically regulated on a capacity suitable to ensure an optimal ignition, always complying to the EN 676 standards.

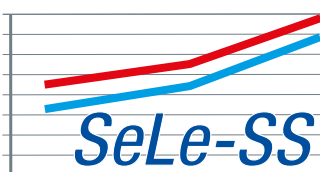
The ignition capacity can be chosen manually up to 50% of the maximum load.

## SELF LEARNING SERVO MOTORS SETTINGS



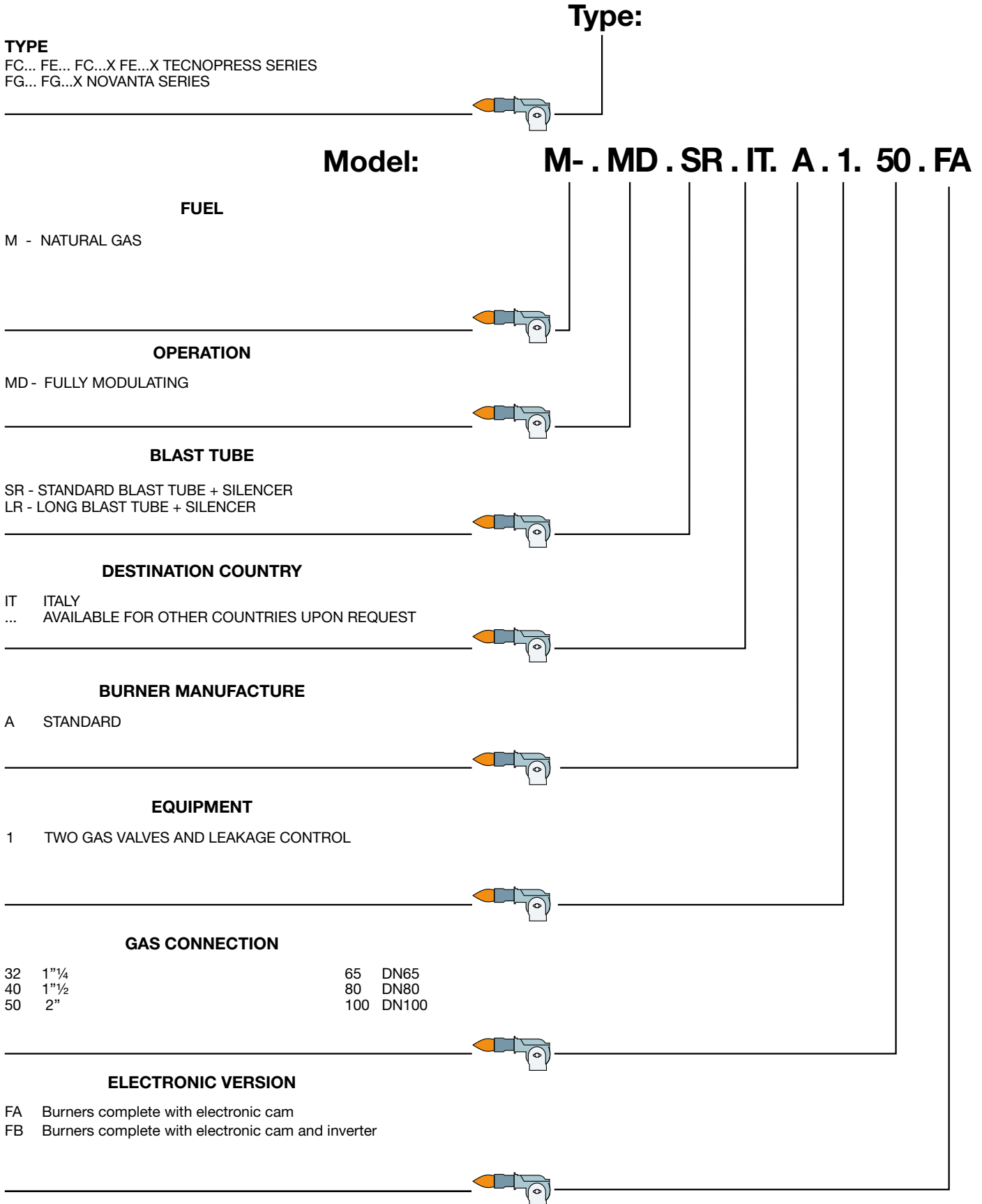
Self Learning - Servo Motors Settings: the system memorizes automatically the working curves of servo-motors to guarantee the functioning also in case of sensors malfunction. The interface warns the user about the change occurred. Based on the flow totalizers, the service can be easily scheduled.

## SELF CHECKING AIR/GAS RATIO



Self Checking - Air/Gas Ratio: the air/gas ratio is constantly monitored and adapted to guarantee the required power and to maintain the optimal efficiency of the installation.

# BURNER IDENTIFICATION



## LOW NO<sub>x</sub> GAS BURNERS (Class 2 EN676)

		Power kW	Pag.
<b>TECNOPRESS SERIES</b>	FC85A - FC120A	100÷1.200	<b>10</b>
<b>TECNOPRESS SERIES</b>	FE140A - FE186A	290÷1.860	<b>13</b>
<b>NOVANTA SERIES</b>	FG267 - FG305A - FG410A	370÷4.100	<b>16</b>

## LOW NO<sub>x</sub> GAS BURNERS (Class 3 EN676)

		Power kW	Pag.
<b>TECNOPRESS SERIES</b>	FC83X	160÷810	<b>22</b>
<b>TECNOPRESS SERIES</b>	FE115X - FE140X - FE180X	290÷1.800	<b>25</b>
<b>NOVANTA SERIES</b>	FG267X - FG313X	350÷3.000	<b>28</b>

**Pag.**

**GAS TRAINS**

**31**

**ELECTRONIC BURNERS**

**32**

# LOW NO<sub>x</sub> PRODUCTION RANGE

## tecnopress series

**FC85A** - MD  
**FC120A** - MD

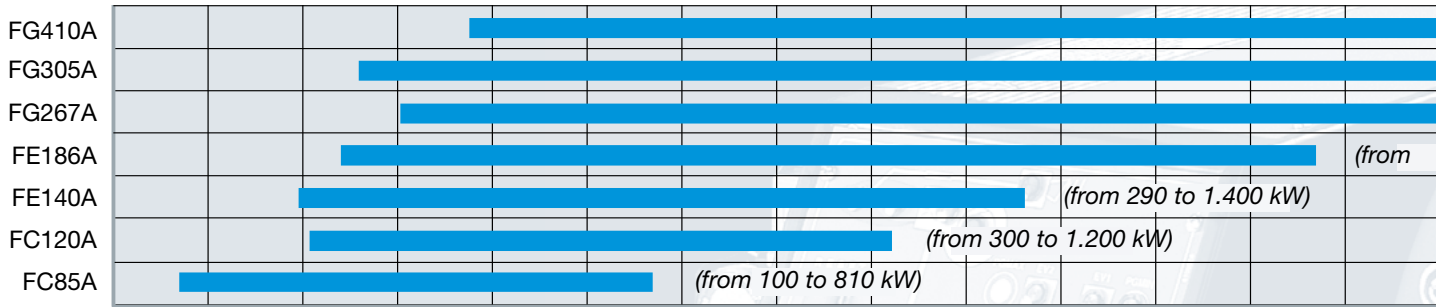
## tecnopress series

**FE140A** - MD  
**FE186A** - MD

## novanta series

**FG267A** - MD  
**FG305A** - MD  
**FG410A** - MD

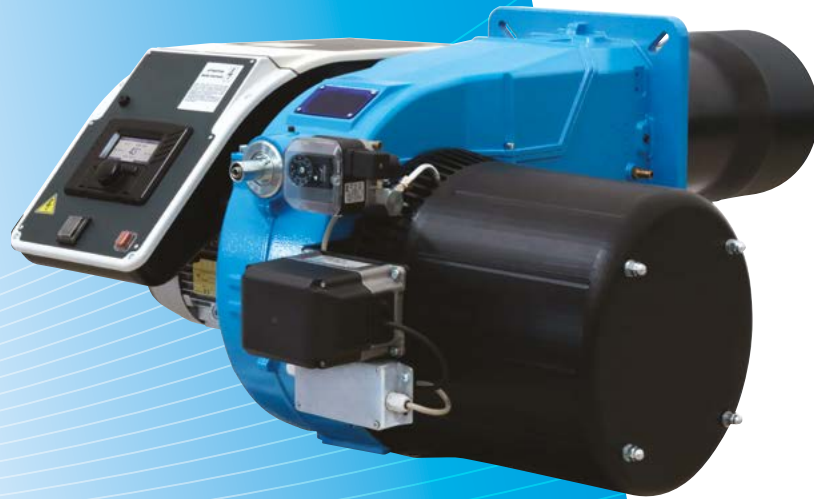
### Type



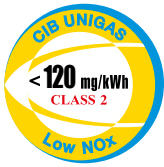




# tecnopress SERIES FC85A FC120A



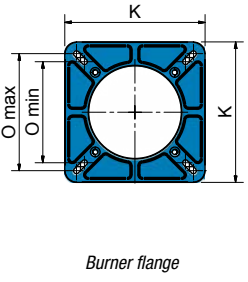
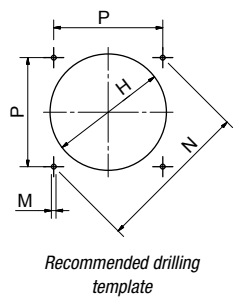
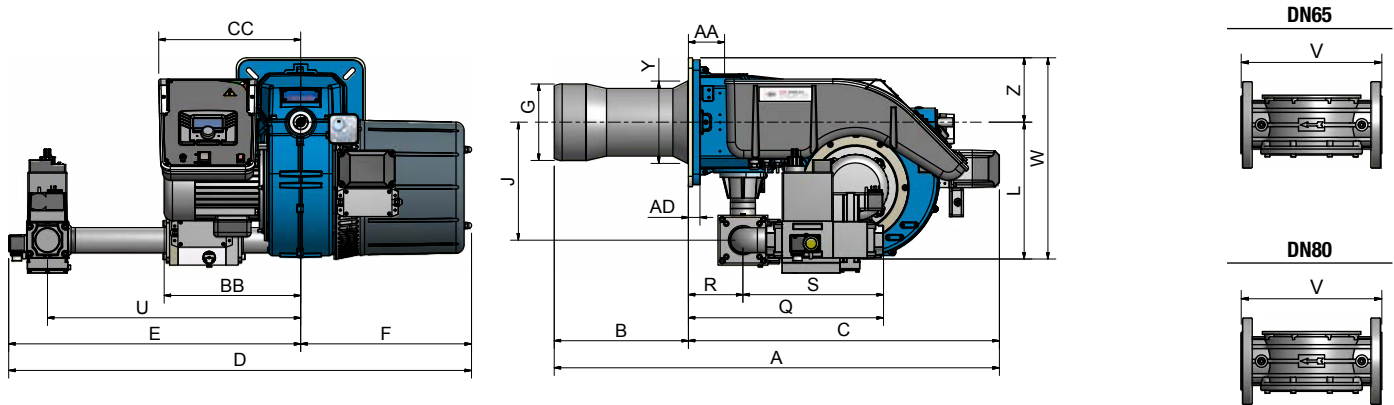
FC120A	[Bar chart showing power range from 300 to 1,200 kW]																			(from 300 to 1.200 kW)
FC85A	[Bar chart showing power range from 100 to 810 kW]														(from 100 to 810 kW)					



# FC85A FC120A **tecnopress** SERIES

## TECHNICAL SPECIFICATIONS

Type	Model	Power kW		Electric power supply	Fan motor kW	Gas connections	Noise level dBA
		min.	max.				
<b>FC85A</b>	M-.xx.xR.IT.A.1.xxx	100	810	230/400 V 3N ac	1,1	1"¼ - 1"½ - 2" - DN65	< 75
<b>FC120A</b>	M-.xx.xR.IT.A.1.xxx	300	1.200	230/400 V 3N ac	1,5	1"½ - 2" - DN65 - DN80	< 75

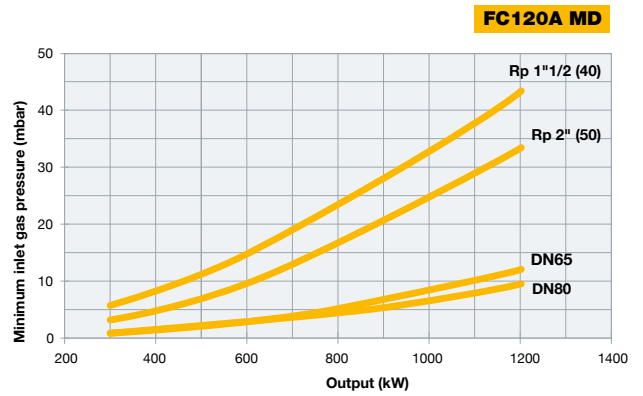
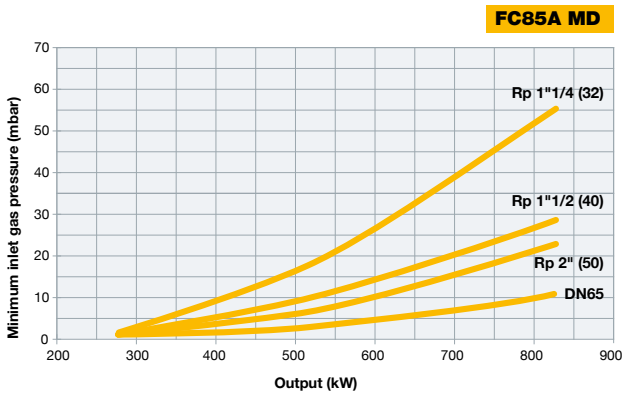
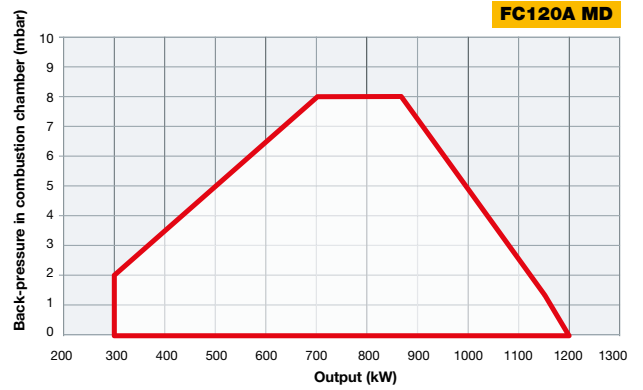
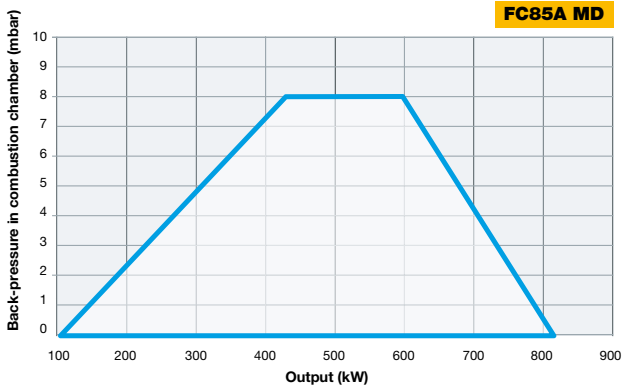


Type	Packaging dimensions (mm)			
	l	p	h	kg
<b>FC85A</b>	-	-	-	-
<b>FC120A</b>	-	-	-	-

Approximate values

Type	Model	Overall dimensions (mm)																											
		AA	AS	AL	BB	BS	BL	C	CC	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	U	V	W	Y	Z
		min.		max.		min.		max.		min.		max.		min.		max.		min.		max.		min.		max.		min.		max.	
<b>FC85A</b>	M-.xx.xR.IT.A.1.32 87	1067	1157	328	320	410	747	342	1113	702	411	184	218	285	300	329	M10	330	216	250	233	408	131	277	609	-	484	198	155
<b>FC85A</b>	M-.xx.xR.IT.A.1.40 87	1067	1157	328	320	410	747	342	1113	702	411	184	218	285	300	329	M10	330	216	250	233	472	131	341	609	-	484	198	155
<b>FC85A</b>	M-.xx.xR.IT.A.1.50 87	1067	1157	328	320	410	747	342	1113	702	411	184	218	285	300	329	M10	330	216	250	233	469	131	338	609	-	484	198	155
<b>FC85A</b>	M-.xx.xR.IT.A.1.65 87	1067	1157	328	320	410	747	342	1113	702	411	184	218	338	300	329	M10	330	216	250	233	672	131	541	748	292	484	198	155
<b>FC120A</b>	M-.xx.xR.IT.A.1.40 87	1253	1363	345	380	490	873	345	1113	702	411	234	264	285	300	339	M10	330	216	250	233	472	131	341	609	-	494	198	155
<b>FC120A</b>	M-.xx.xR.IT.A.1.50 87	1253	1363	345	380	490	873	345	1113	702	411	234	264	285	300	339	M10	330	216	250	233	469	131	338	609	-	494	198	155
<b>FC120A</b>	M-.xx.xR.IT.A.1.65 87	1253	1363	345	380	490	873	345	1113	702	411	234	264	338	300	339	M10	330	216	250	233	672	131	541	748	292	494	198	155
<b>FC120A</b>	M-.xx.xR.IT.A.1.80 87	1253	1363	345	380	490	873	345	1113	702	411	234	264	338	300	339	M10	330	216	250	233	647	131	516	748	310	494	198	155

Approximate values





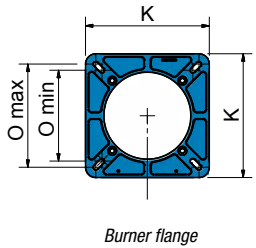
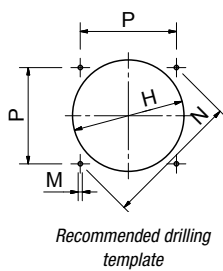
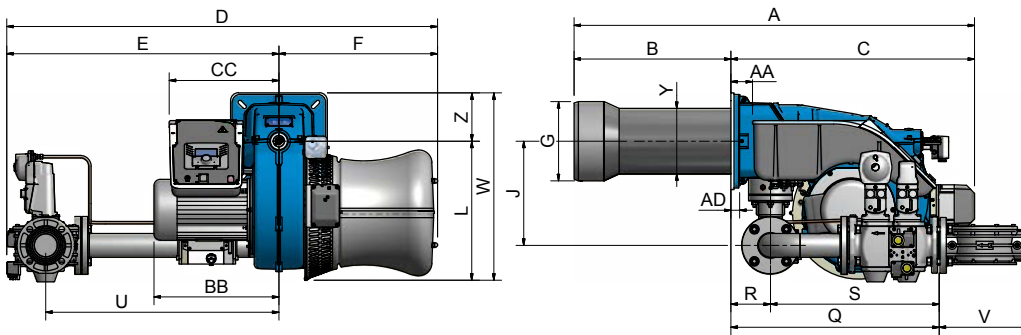
# FE140A FE186A **tecnopress** SERIES



FE186A																	(from 350 to 1.860 kW)					
FE140A												(from 290 to 1.400 kW)										

TECHNICAL SPECIFICATIONS

Type	Model	Power kW		Electric power supply	Fan motor kW	Gas connections	Noise level dBA
		min.	max.				
<b>FE140A</b>	M-.xx.xR.IT.A.1.xxx	290	1.400	230/400 V 3N ac	2,2	1"½ - 2" - DN65 - DN80	< 75
<b>FE186A</b>	M-.xx.SR.IT.A.1.xxx	350	1.860	230/400 V 3N ac	3,0	1"½ - 2" - DN65 - DN80	< 75



Type	Packaging dimensions (mm)			
	l	p	h	kg
<b>FE140A</b>	-	-	-	-
<b>FE186A</b>	-	-	-	-

Approximate values

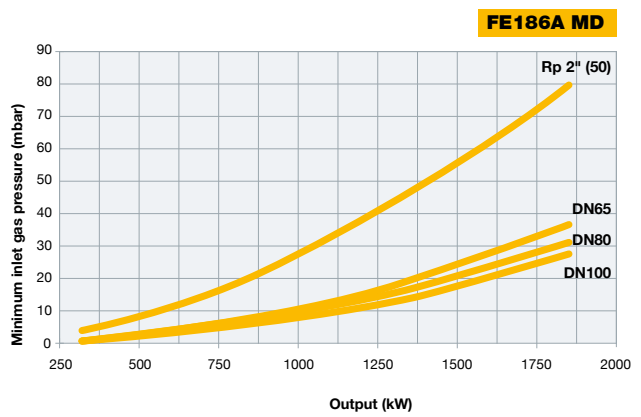
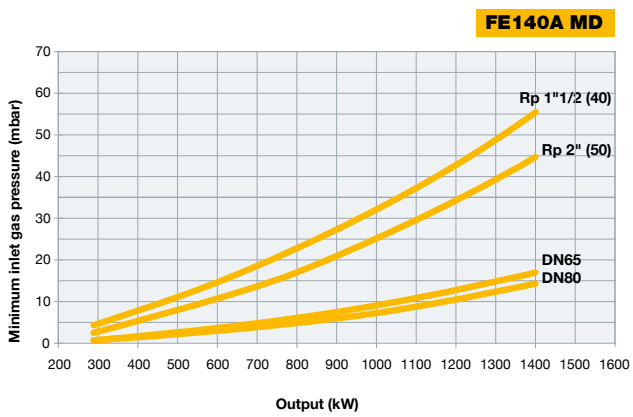
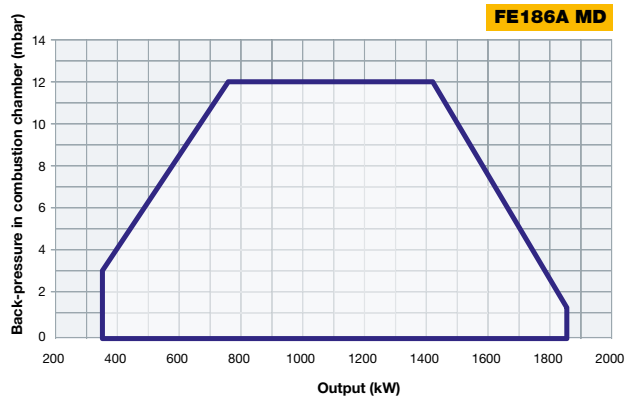
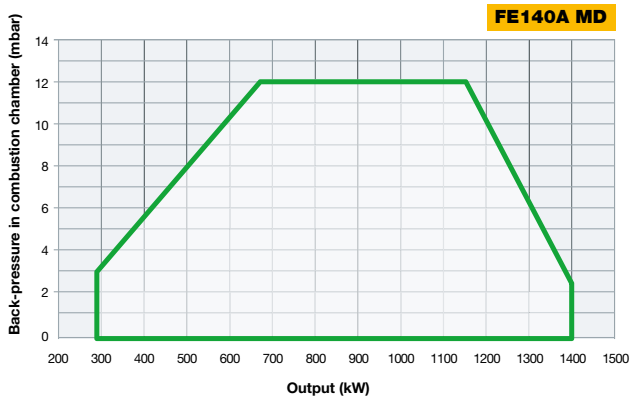
Type	Model	Overall dimensions (mm)																												
		AA	AS	AL	BB	BS	BL	C	CC	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	U	V	W	Y	Z	
		min. max.																												
<b>FE140A</b>	M-.xx.xR.IT.A.1.40	69	1166	1276	401	385	495	781	352	1211	702	509	234	264	285	300	446	M10	330	216	250	233	472	130	342	609	-	601	210	155
<b>FE140A</b>	M-.xx.xR.IT.A.1.50	69	1166	1276	401	385	495	781	352	1211	702	509	234	264	334	300	446	M10	330	216	250	233	468	130	338	609	-	601	210	155
<b>FE140A</b>	M-.xx.xR.IT.A.1.65	69	1166	1276	401	385	495	781	352	1379	870	509	234	264	334	300	446	M10	330	216	250	233	671	130	541	748	292	601	210	155
<b>FE140A</b>	M-.xx.xR.IT.A.1.80	69	1166	1276	401	385	495	781	352	1383	874	509	234	264	447	300	446	M10	330	216	250	233	646	130	516	748	310	601	210	155
<b>FE186A</b>	M-.xx.SR.IT.A.1.40	69	1284	-	401	503	-	781	352	1211	702	509	254	270	334	300	446	M10	330	216	250	233	472	130	342	609	-	601	210	155
<b>FE186A</b>	M-.xx.SR.IT.A.1.50	69	1284	-	401	503	-	781	352	1211	702	509	254	270	334	300	446	M10	330	216	250	233	468	130	338	609	-	601	210	155
<b>FE186A</b>	M-.xx.SR.IT.A.1.65	69	1284	-	401	503	-	781	352	1379	870	509	254	270	447	300	446	M10	330	216	250	233	671	130	541	748	292	601	210	155
<b>FE186A</b>	M-.xx.SR.IT.A.1.80	69	1284	-	401	503	-	781	352	1383	874	509	254	270	447	300	446	M10	330	216	250	233	646	130	516	748	310	601	210	155

Approximate values





# FE140A FE186A **tecnopress** SERIES





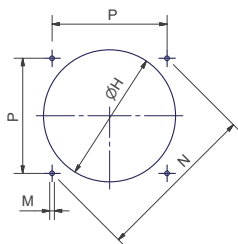
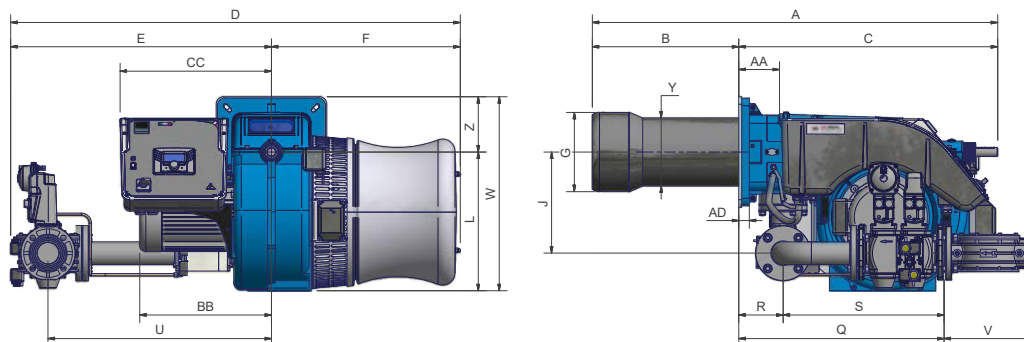
FG410																(from 450 to 4.100 kW)
FG305											(from 370 to 3.200 kW)					
FG267									(from 450 to 2.670 kW)							



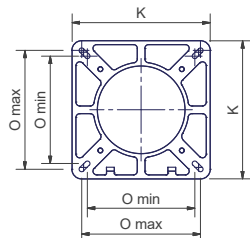
# FG267A FG305A FG410A **novanta** SERIES

## TECHNICAL SPECIFICATIONS

Type	Model	Power kW		Electric power supply	Fan motor kW	Gas connections	Noise level dBA
		min.	max.				
<b>FG267A</b>	M-.MD.xx.SR.IT.A.1.xxx	450	2.670	230/400 V 3N ac	4,0	2" - DN65 - DN80 - DN100	< 75
<b>FG305A</b>	M-.MD.xx.SR.IT.A.1.xxx	370	3.200	230/400 V 3N ac	5,5	2" - DN65 - DN80 - DN100	< 75
<b>FG410A</b>	M-.MD.xx.SR.IT.A.1.xxx	450	4.100	230/400 V 3N ac	7,5	2" - DN65 - DN80 - DN100	< 75



Recommended drilling template



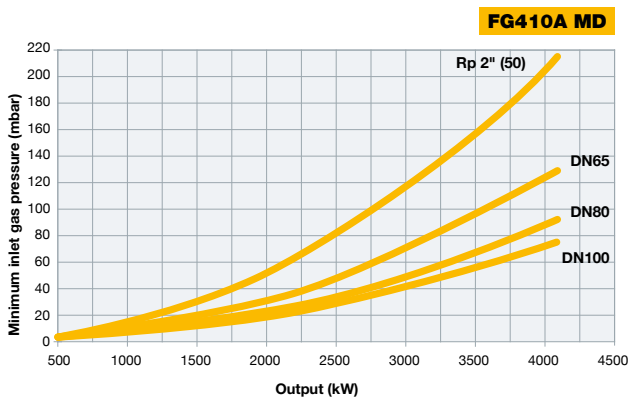
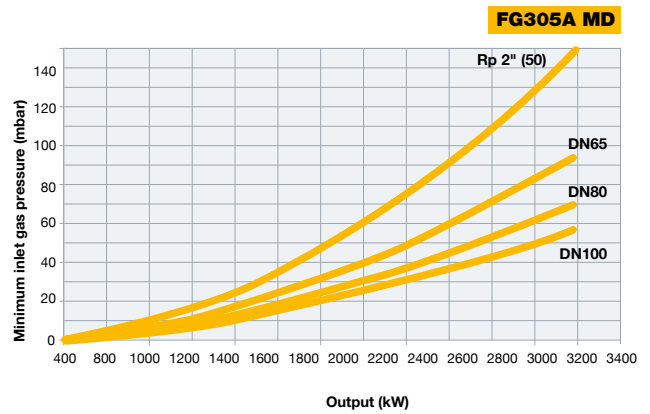
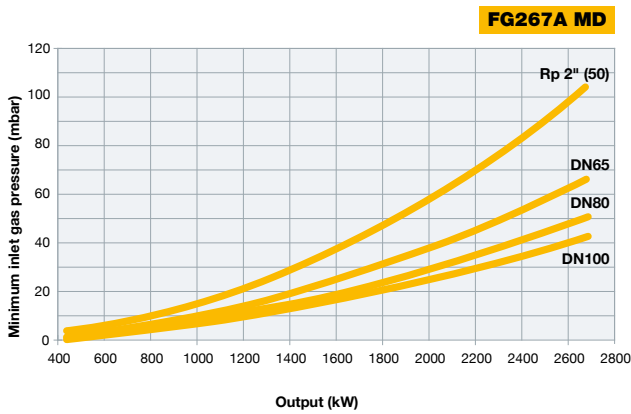
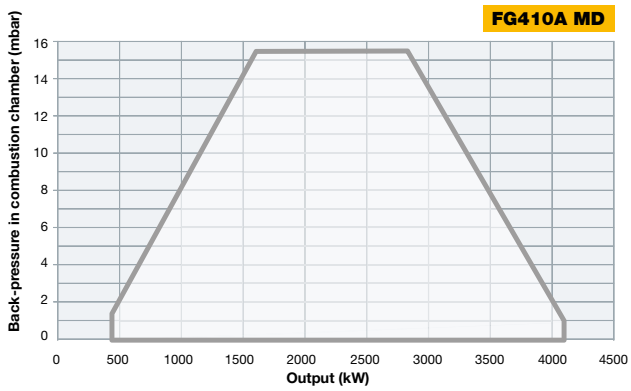
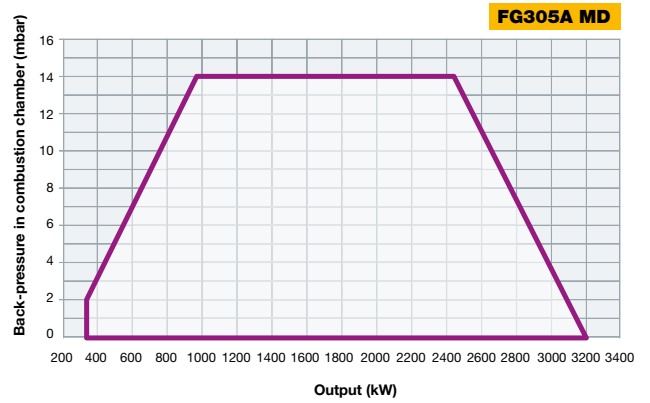
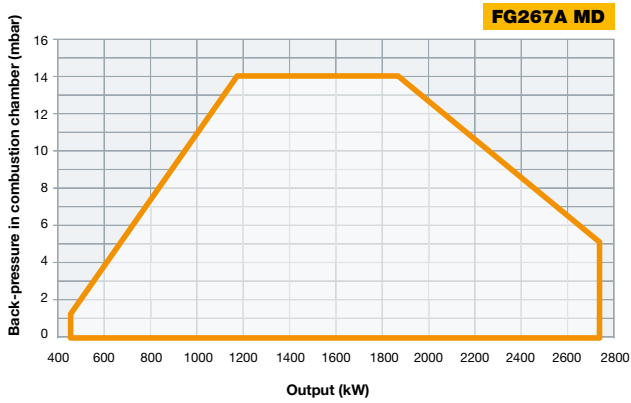
Burner flange

Type	Packaging dimensions (mm)			
	l	p	h	kg
<b>FG267A</b>	-	-	-	-
<b>FG305A</b>	-	-	-	-
<b>FG410A</b>	-	-	-	-

Approximate values

Type	Model	Overall dimensions (mm)																												
		AA	AS	AL	BB	BS	BL	C	CC	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	U	V	W	Y	Z	
		min.		max.		min.		max.		min.		max.		min.		max.		min.		max.		min.		max.		min.		max.		
<b>FG267A</b>	M-.MD.SR.IT.A.1.50	135	1356	-	441	490	-	866	507	1357	725	632	265	295	450	360	464	M12	424	280	310	300	532	148	384	624	190	649	228	185
<b>FG267A</b>	M-.MD.SR.IT.A.1.65	135	1356	-	441	490	-	866	507	1603	971	632	265	295	447	360	464	M12	424	280	310	300	632	148	484	846	292	649	228	185
<b>FG267A</b>	M-.MD.SR.IT.A.1.80	135	1356	-	441	490	-	866	507	1634	1002	632	265	295	447	360	464	M12	424	280	310	300	683	148	535	875	310	649	228	185
<b>FG267A</b>	M-.MD.SR.IT.A.1.100	135	1356	-	441	490	-	866	507	1717	1085	632	265	295	447	360	464	M12	424	280	310	300	790	148	642	942	353	649	228	185
<b>FG305A</b>	M-.MD.SR.IT.A.1.50	135	1356	-	441	490	-	866	507	1357	725	632	269	299	450	360	464	M12	424	280	310	300	532	148	384	624	190	649	228	185
<b>FG305A</b>	M-.MD.SR.IT.A.1.65	135	1356	-	441	490	-	866	507	1603	971	632	269	299	447	360	464	M12	424	280	310	300	632	148	484	846	292	649	228	185
<b>FG305A</b>	M-.MD.SR.IT.A.1.80	135	1356	-	441	490	-	866	507	1634	1002	632	269	299	447	360	464	M12	424	280	310	300	683	148	535	875	310	649	228	185
<b>FG305A</b>	M-.MD.SR.IT.A.1.100	135	1356	-	441	490	-	866	507	1717	1085	632	269	299	447	360	464	M12	424	280	310	300	790	148	642	942	353	649	228	185
<b>FG410A</b>	M-.MD.SR.IT.A.1.50	135	1361	-	493	495	-	866	507	1357	725	632	304	344	450	360	464	M12	424	280	310	300	532	148	384	624	190	649	228	185
<b>FG410A</b>	M-.MD.SR.IT.A.1.65	135	1361	-	493	495	-	866	507	1603	971	632	304	344	447	360	464	M12	424	280	310	300	632	148	484	846	292	649	228	185
<b>FG410A</b>	M-.MD.SR.IT.A.1.80	135	1361	-	493	495	-	866	507	1634	1002	632	304	344	447	360	464	M12	424	280	310	300	683	148	535	875	310	649	228	185
<b>FG410A</b>	M-.MD.SR.IT.A.1.100	135	1361	-	493	495	-	866	507	1717	1085	632	304	344	447	360	464	M12	424	280	310	300	790	148	642	942	353	649	228	185

Approximate values





# LOW NO<sub>x</sub> PRODUCTION RANGE

## tecnopress series

**FC83X** - MD

## tecnopress series

**FE115X** - MD  
**FE140X** - MD  
**FE180X** - MD

## novanta series

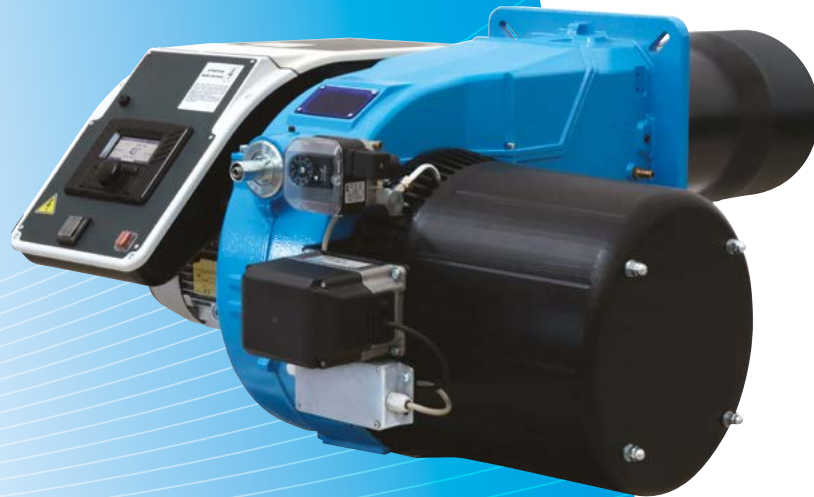
**FG267X** - MD  
**FG313X** - MD

### Type

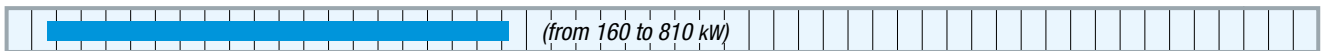
FG313X																			
FG267X																			
FE180X																			
FE140X																			from 290
FE115X																			from 300 to 1.150 kW
FC83X																			from 160 to 810 kW







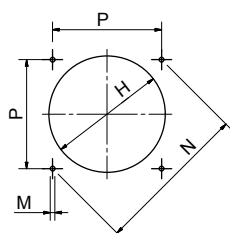
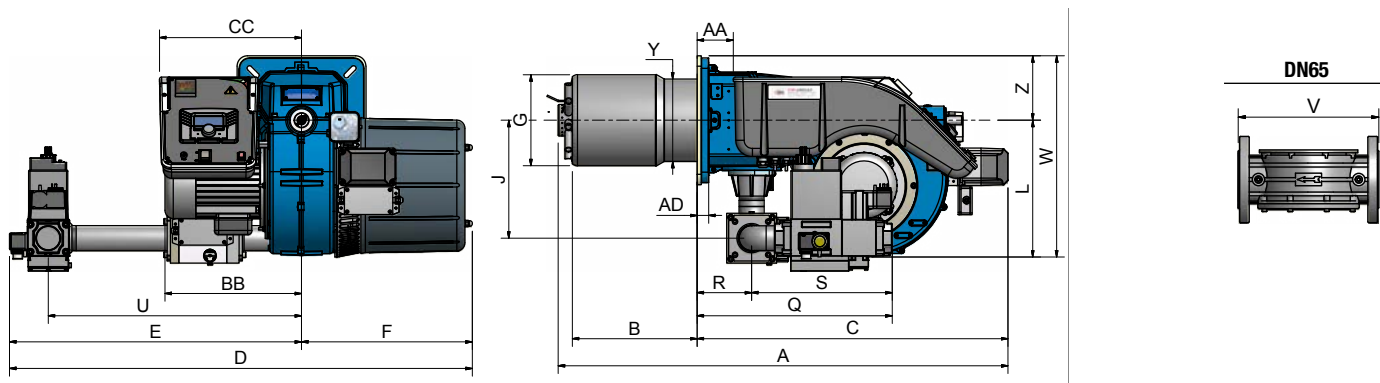
FC83X



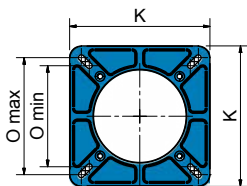


## TECHNICAL SPECIFICATIONS

Type	Model	Power kW		Electric power supply	Fan motor kW	Gas connections	Noise level dBA
		min.	max.				
<b>FC83X</b>	M-.MD.xR.IT.A.1.xxx	160	810	230/400 V 3N ac	1,1	1"¼ - 1"½ - 2" - DN65	< 75



Recommended drilling template



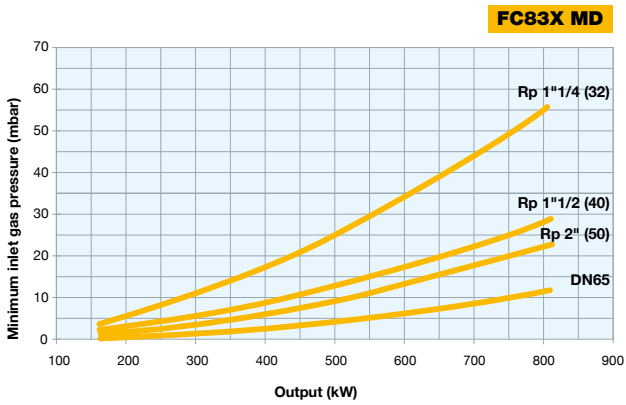
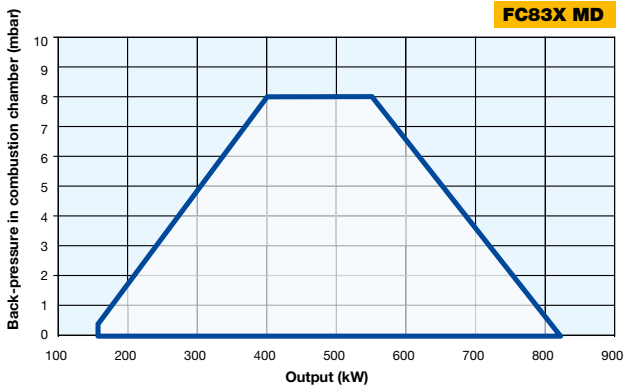
Burner flange

Type	Packaging dimensions (mm)			
	l	p	h	kg
<b>FC83X</b>	-	-	-	-

Approximate values

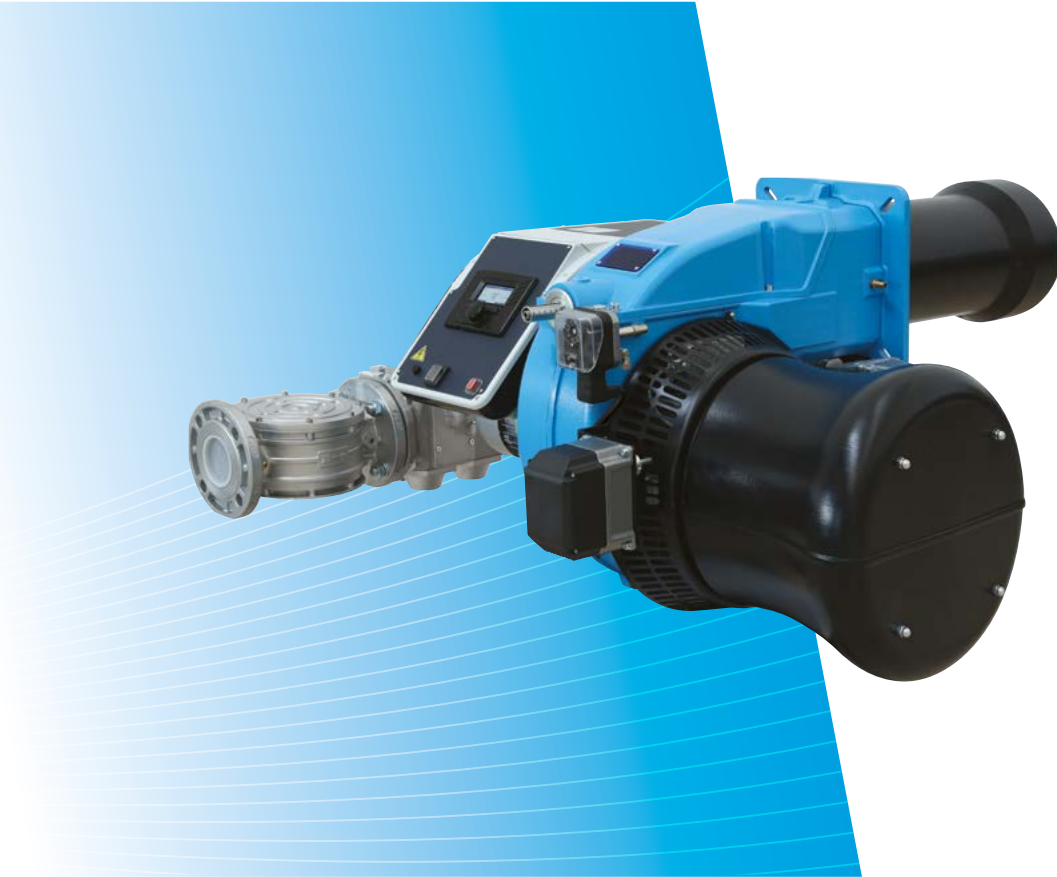
Type	Model	Overall dimensions (mm)																													
		AA	AD	AS	AL	BB	BS	BL	C	CC	D	E	F	G	H	J	K	L	M	N	O min.	O max.	P	Q	R	S	U	V	W	Y	Z
<b>FC83X</b>	M-.MD.xR.IT.A.1.32	87	28	1081	1167	328	300	450	747	342	1113	702	411	219	249	285	360	329	M10	330	216	250	233	408	131	277	609	-	484	198	155
<b>FC83X</b>	M-.MD.xR.IT.A.1.40	87	28	1081	1167	328	300	450	747	342	1113	702	411	219	249	285	360	329	M10	330	216	250	233	473	131	342	609	-	484	198	155
<b>FC83X</b>	M-.MD.xR.IT.A.1.50	87	28	1081	1167	328	300	450	747	342	1113	702	411	219	249	284	360	329	M10	330	216	250	233	469	131	338	609	-	484	198	155
<b>FC83X</b>	M-.MD.xR.IT.A.1.65	87	28	1081	1167	328	300	450	747	342	1281	870	411	219	249	284	360	329	M10	330	216	250	233	672	131	541	748	292	484	198	155

Approximate values





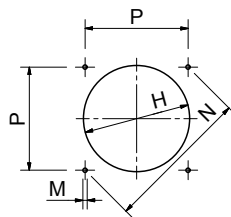
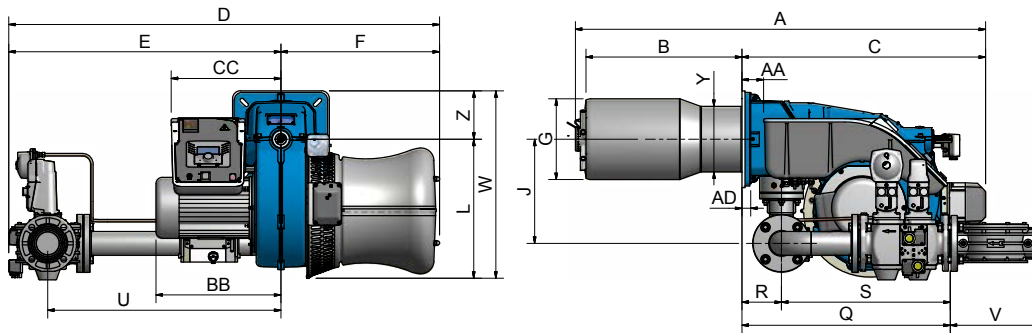
# FE115X FE140X FE180X **tecnopress** SERIES



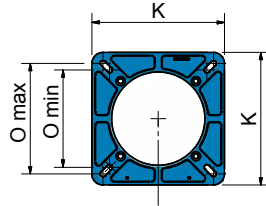
FE180X	[Blue bar representing power range]															(from 350 to 1.800 kW)
FE140X	[Blue bar representing power range]										(from 290 to 1.400 kW)					
FE115X	[Blue bar representing power range]								(from 300 to 1.150 kW)							

TECHNICAL SPECIFICATIONS

Type	Model	Power kW		Electric power supply	Fan motor kW	Gas connections	Noise level dBA
		min.	max.				
<b>FE115X</b>	M-.xx.xR.IT.A.1.xxx	300	1.150	230/400 V 3N ac	2,2	1"½ - 2" - DN65 - DN80	< 75
<b>FE140X</b>	M-.xx.xR.IT.A.1.xxx	290	1.400	230/400 V 3N ac	2,2	1"½ - 2" - DN65 - DN80	< 75
<b>FE180X</b>	M-.xx.xR.IT.A.1.xxx	350	1.800	230/400 V 3N ac	3,0	1"½ - 2" - DN65 - DN80	< 75



Recommended drilling template



Burner flange

Type	Packaging dimensions (mm)			
	l	p	h	kg
<b>FE115X</b>	-	-	-	-
<b>FE140X</b>	-	-	-	-
<b>FE180X</b>	-	-	-	-

Approximate values

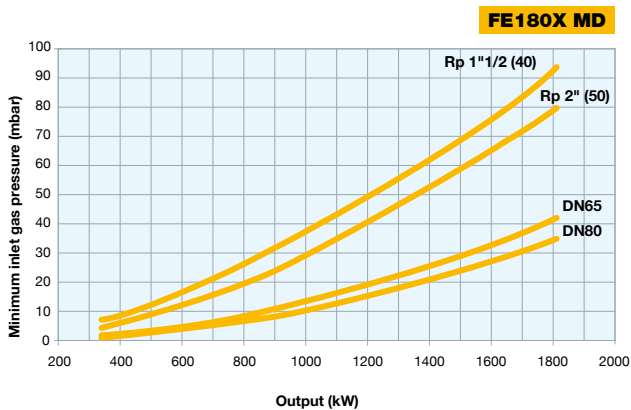
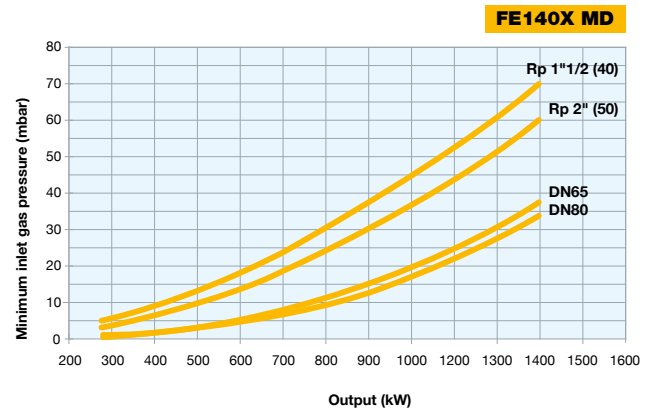
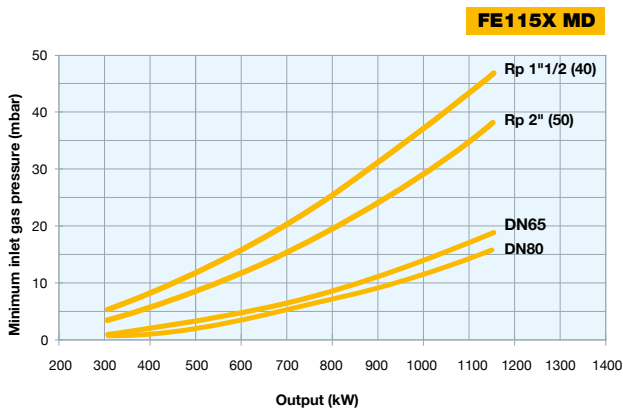
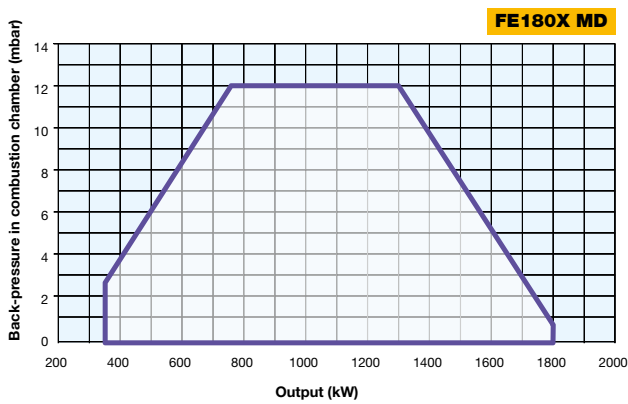
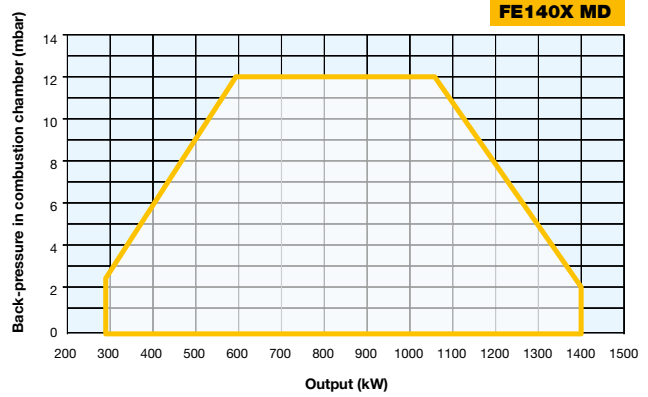
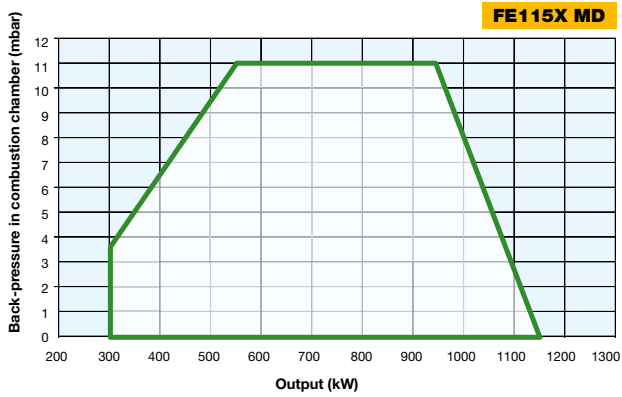
Type	Model	Overall dimensions (mm)																													
		AA	AD	AS	AL	BB	BS	BL	C	CC	D	E	F	G	H	J	K	L	M	N	O		P	Q	R	S	U	V	W	Y	Z
		min.		max.		min.		max.		min.		max.		min.		max.		min.		max.		min.		max.		min.		max.		min.	
<b>FE115X</b>	M-.MD.xR.IT.A.1.40	69	28	1120	1205	372	305	390	781	352	1113	702	411	219	249	285	300	340	M10	330	216	250	233	471	130	341	609	-	495	210	155
<b>FE115X</b>	M-.MD.xR.IT.A.1.50	69	28	1120	1205	372	305	390	781	352	1113	702	411	219	249	285	300	340	M10	330	216	250	233	468	130	338	609	-	495	210	155
<b>FE115X</b>	M-.MD.xR.IT.A.1.65	69	28	1120	1205	372	305	390	781	352	1281	870	411	219	249	337	300	340	M10	330	216	250	233	671	130	541	748	292	495	210	155
<b>FE115X</b>	M-.MD.xR.IT.A.1.80	69	28	1120	1205	372	305	390	781	352	1281	870	411	219	249	337	300	340	M10	330	216	250	233	646	130	516	748	310	495	210	155
<b>FE140X</b>	M-.MD.xR.IT.A.1.40	69	28	1215	1315	372	400	500	781	352	1211	702	509	286	280	285	300	446	M10	330	216	250	233	471	130	341	609	-	601	210	155
<b>FE140X</b>	M-.MD.xR.IT.A.1.50	69	28	1215	1315	372	400	500	781	352	1211	702	509	286	280	285	300	446	M10	330	216	250	233	468	130	338	609	-	601	210	155
<b>FE140X</b>	M-.MD.xR.IT.A.1.65	69	28	1215	1315	372	400	500	781	352	1379	870	509	286	280	337	300	446	M10	330	216	250	233	671	130	541	748	292	601	210	155
<b>FE140X</b>	M-.MD.xR.IT.A.1.80	69	28	1215	1315	372	400	500	781	352	1379	870	509	286	280	337	300	446	M10	330	216	250	233	646	130	516	748	310	601	210	155
<b>FE180X</b>	M-.MD.xR.IT.A.1.40	69	28	1215	1315	401	400	500	781	352	1211	702	509	259	280	285	300	446	M10	330	216	250	233	471	130	341	609	-	601	210	155
<b>FE180X</b>	M-.MD.xR.IT.A.1.50	69	28	1215	1315	401	400	500	781	352	1211	702	509	259	280	337	300	446	M10	330	216	250	233	468	130	338	609	-	601	210	155
<b>FE180X</b>	M-.MD.xR.IT.A.1.65	69	28	1215	1315	401	400	500	781	352	1379	870	509	259	280	337	300	446	M10	330	216	250	233	671	130	541	748	292	601	210	155
<b>FE180X</b>	M-.MD.xR.IT.A.1.80	69	28	1215	1315	401	400	500	781	352	1379	870	509	259	280	337	300	446	M10	330	216	250	233	646	130	516	748	310	601	210	155

Approximate values





# FE115X FE140X FE180X **tecnopress** SERIES



**novanta** SERIES **FG267X FG313X**



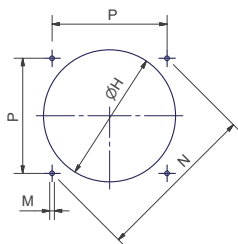
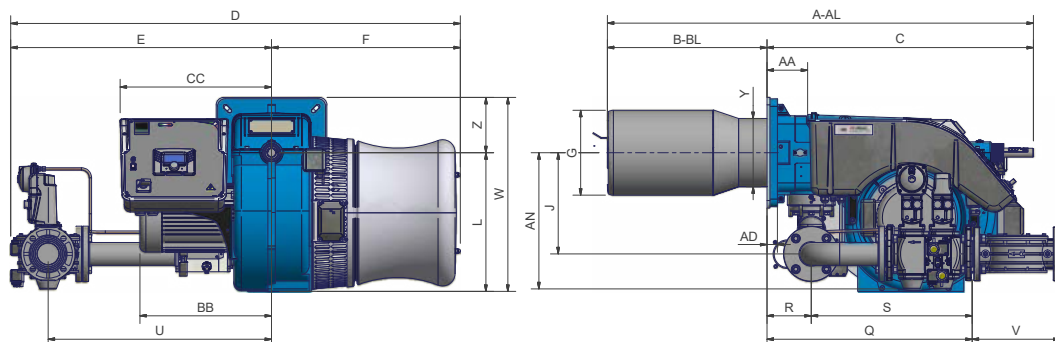
FG313X																(from 500 to 3.000 kW)
FG267X											(from 350 to 2.670 kW)					



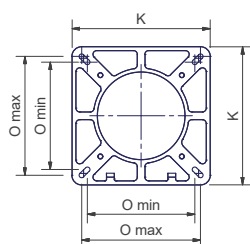
# FG267X FG313X **novanta** SERIES

## TECHNICAL SPECIFICATIONS

Type	Model	Power kW		Electric power supply	Fan motor kW	Gas connections	Noise level dBA
		min.	max.				
<b>FG267X</b>	M-.xx.xR.IT.A.1.xxx	350	2.670	230/400 V 3N ac	7,5	2" - DN65 - DN80 - DN100	< 75
<b>FG313X</b>	M-.xx.xR.IT.A.1.xxx	500	3.000	230/400 V 3N ac	7,5	2" - DN65 - DN80 - DN100	< 75



Recommended drilling template



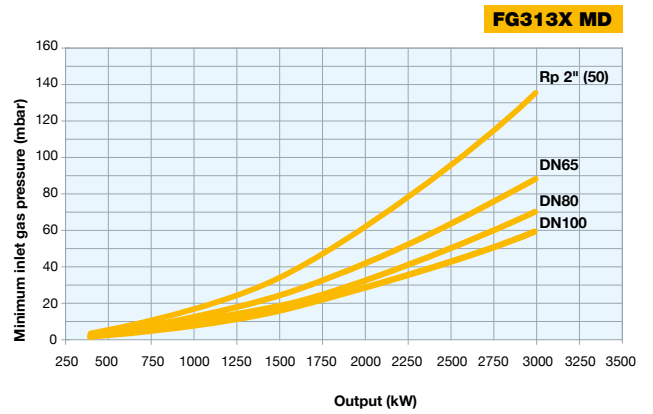
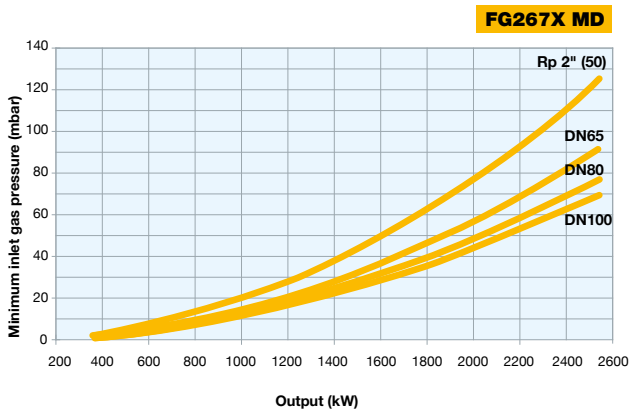
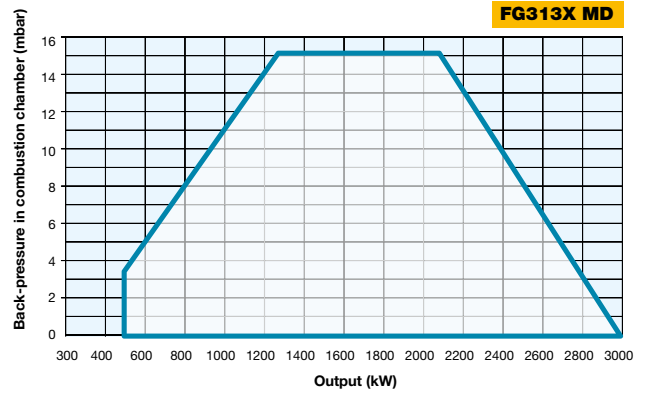
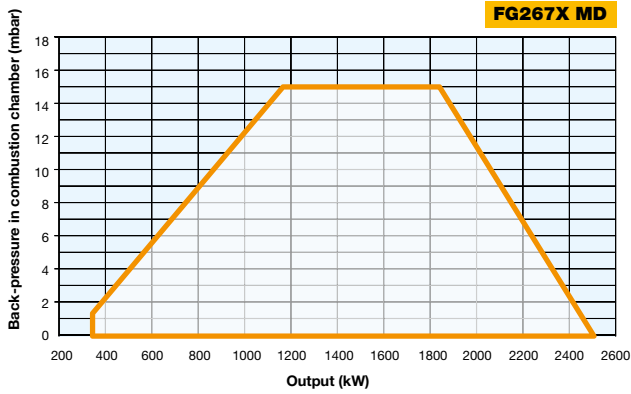
Burner flange

Type	Packaging dimensions (mm)			
	l	p	h	kg
<b>FRX91</b>	-	-	-	-
<b>FRX92</b>	-	-	-	-

Approximate values

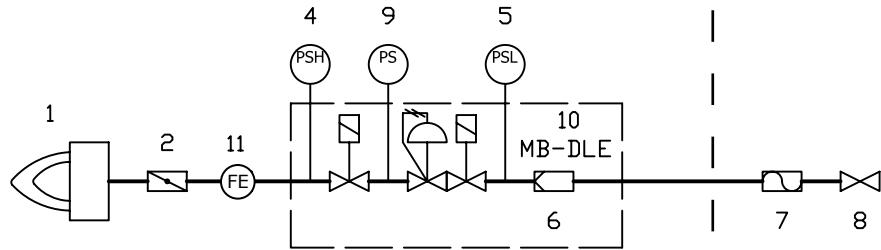
Type	Model	Overall dimensions (mm)																														
		AA	AD	AN	AS	AL	BB	BS	BL	C	CC	D	E	F	G	H	J	K	L	M	N	O		P	Q	R	S	U	V	W	Y	Z
		min.		max.		min.		max.		min.		max.		min.		max.		min.		max.		min.		max.		min.		max.		min.		max.
<b>FG267X</b>	M-.MD.xR.IT.A.1.50	135	35	550	1317	1417	493	390	490	892	507	1357	725	632	259	289	450	360	464	M12	424	280	310	300	532	148	384	624	190	649	228	185
<b>FG267X</b>	M-.MD.xR.IT.A.1.65	135	35	564	1317	1417	493	390	490	892	507	1603	971	632	259	289	447	360	464	M12	424	280	310	300	632	148	484	846	292	649	228	185
<b>FG267X</b>	M-.MD.xR.IT.A.1.80	135	35	579	1317	1417	493	390	490	892	507	1634	1002	632	259	289	447	360	464	M12	424	280	310	300	683	148	535	875	310	649	228	185
<b>FG267X</b>	M-.MD.xR.IT.A.1.100	135	35	592	1317	1417	493	390	490	892	507	1717	1085	632	259	289	447	360	464	M12	424	280	310	300	790	148	642	942	353	649	228	185
<b>FG313X</b>	M-.MD.xR.IT.A.1.50	135	35	550	1347	1457	493	420	530	892	507	1357	725	632	286	316	450	360	464	M12	424	280	310	300	532	148	384	624	190	649	228	185
<b>FG313X</b>	M-.MD.xR.IT.A.1.65	135	35	564	1347	1457	493	420	530	892	507	1603	971	632	286	316	447	360	464	M12	424	280	310	300	632	148	484	846	292	649	228	185
<b>FG313X</b>	M-.MD.xR.IT.A.1.80	135	35	579	1347	1457	493	420	530	892	507	1634	1002	632	286	316	447	360	464	M12	424	280	310	300	683	148	535	875	310	649	228	185
<b>FG313X</b>	M-.MD.xR.IT.A.1.100	135	35	592	1347	1457	493	420	530	892	507	1717	1085	632	286	316	447	360	464	M12	424	280	310	300	790	148	642	942	353	649	228	185

Approximate values

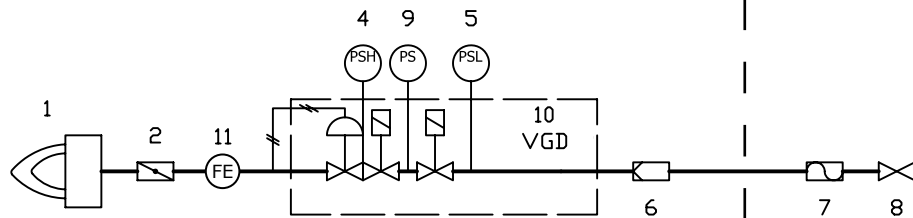


MANUFACTURER | INSTALLER

Gas train with valves group MB-DLE  
(2 valves + gas filter + pressure governor + leakage control pressure switch).



Gas train with valves group VGD  
with built-in gas pressure governor +  
leakage control pressure switch



## KEY

- |   |  |    |                                 |
|---|--|----|---------------------------------|
| 1 | Burner                                 | 7  | Anti-vibrating joint            |
| 2 | Butterfly valve                        | 8  | Manual cut off valve            |
| 4 | Maximum gas pressure switch (optional) | 9  | Leakage control pressure switch |
| 5 | Minimum gas pressure switch            | 10 | Valves group                    |
| 6 | Gas filter                             | 11 | Flow sensor                     |

# ELECTRONIC BURNERS



Model	Series	Fuel	Type	HAGC31
<b>FA</b>	TECNOPRESS	gas	FC85A - FC120A FC83X	●
<b>FA</b>	TECNOPRESS	gas	FE140A - FE186A FE115X - FE140X - FE180X	●
<b>FA</b>	NOVANTA	gas	FG267A - FG305A - FG410A FG267X - FG313X	●
<b>FB</b>	TECNOPRESS	gas	FC85A - FC120A FC83X	●
<b>FB</b>	TECNOPRESS	gas	FE140A - FE186A FE115X - FE140X - FE180X	●
<b>FB</b>	NOVANTA	gas	FG267A - FG305A - FG410A FG267X - FG313X	●

FA Burners complete with electronic cam

FB Burners complete with electronic cam and inverter



					
	RC21	STE4,5BO gas	STE4,5Q3 gas	STE4,5Q3 air	INVERTER
	•	•		•	
	•		•	•	
	•		•	•	
	•	•		•	•
	•		•	•	•
	•		•	•	•







**CIB UNIGAS**

**C.I.B. UNIGAS S.p.A.**

Via L. Galvani, 9 - 35011 CAMPODARSEGO (PD) - Italy

Tel. +39 049 9200944 - Fax +39 049 9200945 - 9201269

Fax Export +39 049 9202105

cibunigas@cibunigas.it

[www.cibunigas.it](http://www.cibunigas.it)

