



CIB UNIGAS

Let's light up tomorrow

GAS Low NO_x BURNERS FACILE

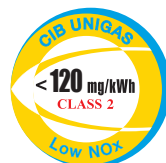


FACILE
Full Auto Control Innovative Line Engineering

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 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 “**Ecologic**” 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_x 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.

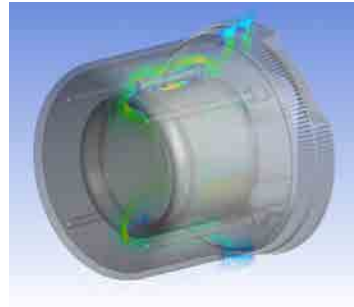
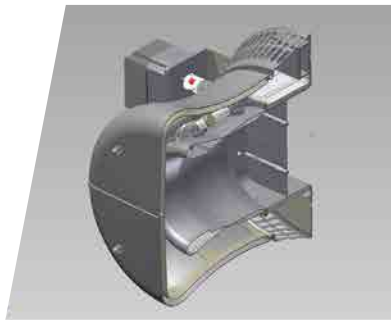
You will find out our closest office and a staff that is more than happy to assist you. Furthermore, you can download all the technical up-to-date documentation you need.

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

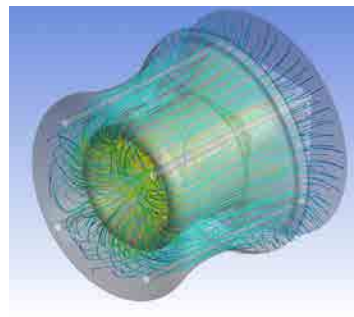
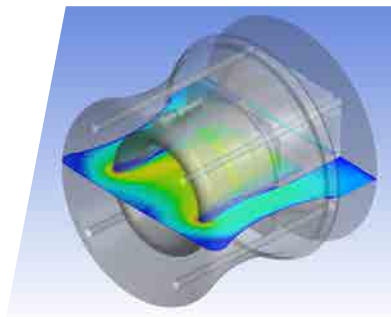
of the burner, and developing a new conception. The burner is no longer seen as a passive device but, on the contrary, interactive and autonomous in relation to the environmental variables and plant conditions. The FACILE system is patented (No. WO2015121800A1).



A SMART SYSTEM

As we all know, there are already electromechanical and electronic burner control systems which allow a certain elasticity and reactivity of the machine according to the change of external variables. However, we decided to go a step further by breaking down a new technological horizon in this

field, thus equipping the machine with a “brain” which can self-tune the fuel/combustive relationship in the initial start-up phase, and maintain the combustion throughout its use in an optimum range of safety and efficiency in relation to the environmental variables and plant conditions.

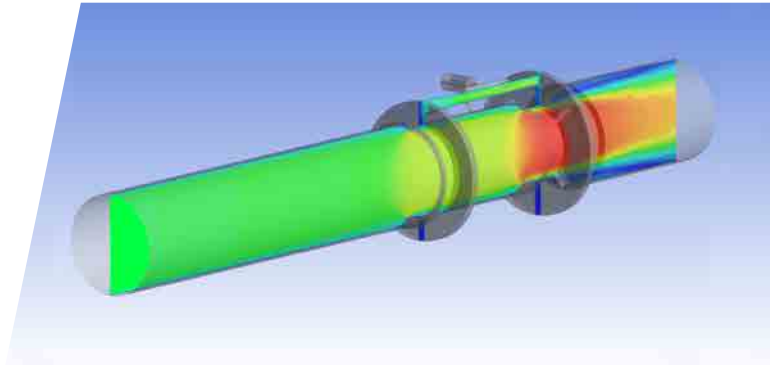


THERE IS A TECHNICIAN BUT YOU CAN'T SEE IT

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.

AS SIMPLE AS FACILE

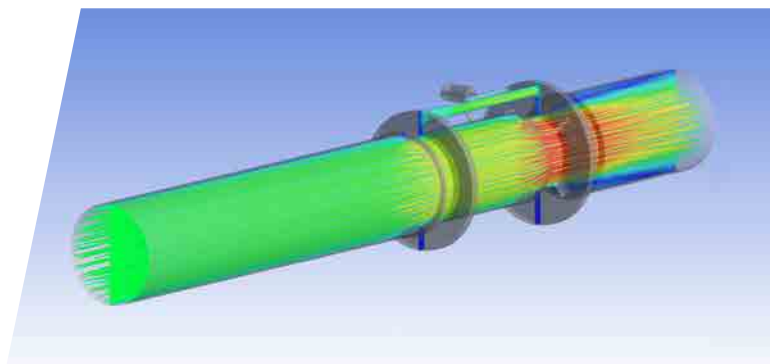
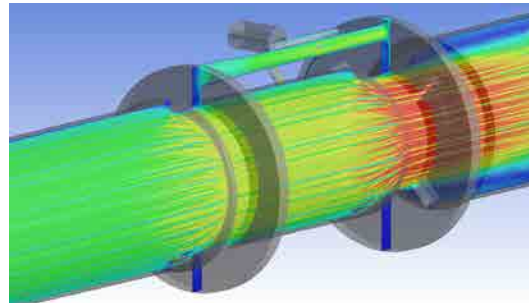
The system does not provide a “Closed Loop” type check with a feedback on combustion (Lambda sensor - O₂ sensor – probe CO), and it is ready to work without any changes which can affect the generator. Of course, the “Closed Loop” type check remains available as an optional. FACILE includes a full modulating 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.



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.



BURNER IDENTIFICATION

TYPE

FR... FRX... TECNOPRESS, NOVANTA SERIES

Type:

Model:

M- . MD . S . IT. A . 1. 50 . FA

FUEL

M - NATURAL GAS

OPERATION

MD - FULLY MODULATING

BLAST TUBE

S - STANDARD
L - LONG

DESTINATION COUNTRY

IT ITALY
... AVAILABLE FOR OTHER COUNTRIES UPON REQUEST

BURNER MANUFACTURE

A STANDARD

EQUIPMENT

1 TWO GAS VALVES AND LEAKAGE CONTROL
8 TWO GAS VALVES, GAS PRESSURE SWITCH (MAX) AND LEAKAGE CONTROL

GAS CONNECTION

32 1 1/4"

40 1 1/2"

50 2"

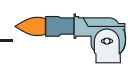
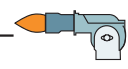
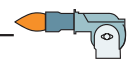
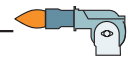
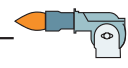
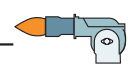
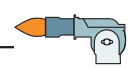
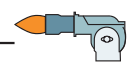
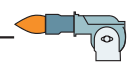
65 DN 65

80 DN80

100 DN100

ELECTRONIC VERSION

FA Burners complete with electronic cam
FB Burners complete with electronic cam and inverter



LOW NO_x GAS BURNERS (Class 2 EN676)

		Power kW	Pag.
TECNOPRESS SERIES	FR63 - FR68	230÷1.200	10
TECNOPRESS SERIES	FR75R - FR75	290÷1.860	13
NOVANTA SERIES	FR91A - FR92A - FR93A	480÷4.100	16

LOW NO_x GAS BURNERS (Class 3 EN676)

		Power kW	Pag.
TECNOPRESS SERIES	FRX 63	230÷830	22
TECNOPRESS SERIES	FRX75S - FRX75R - FRX75	300÷1.800	25
NOVANTA SERIES	FRX91 - FRX92	674÷3.130	28

Pag.

GAS TRAINS

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ELECTRONIC BURNERS

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LOW NO_x PRODUCTION RANGE

tecnopress series

FR63 - MD

FR68 - MD

tecnopress series

FR 75R - MD

FR 75 - MD

novanta series

FR91A - MD

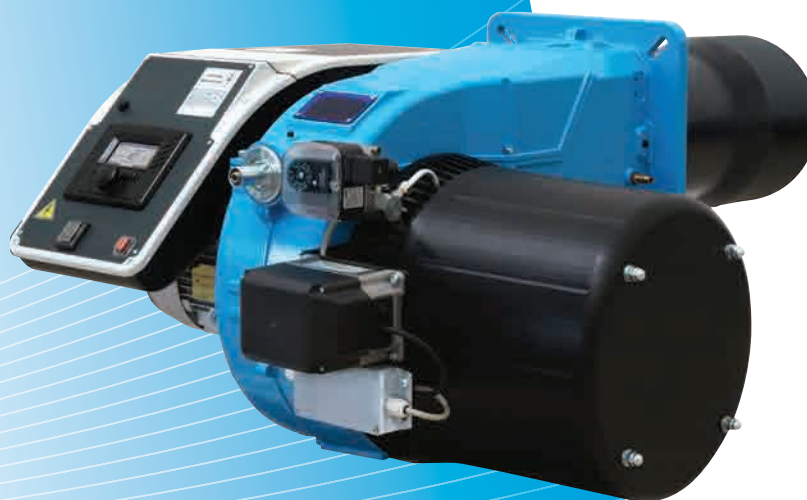
FR92A - MD

FR93A - MD

Type

Model	Power Range (kW)
FR93A	100 - 1,400
FR92A	100 - 1,400
FR91A	100 - 1,400
FR75	150 - 1,350 (from 350 to 1,400 kW)
FR75R	100 - 1,100 (from 290 to 1,400 kW)
FR68	100 - 900 (from 300 to 1,200 kW)
FR63	50 - 850 (from 230 to 850 kW)

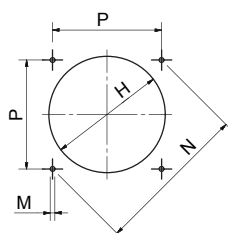
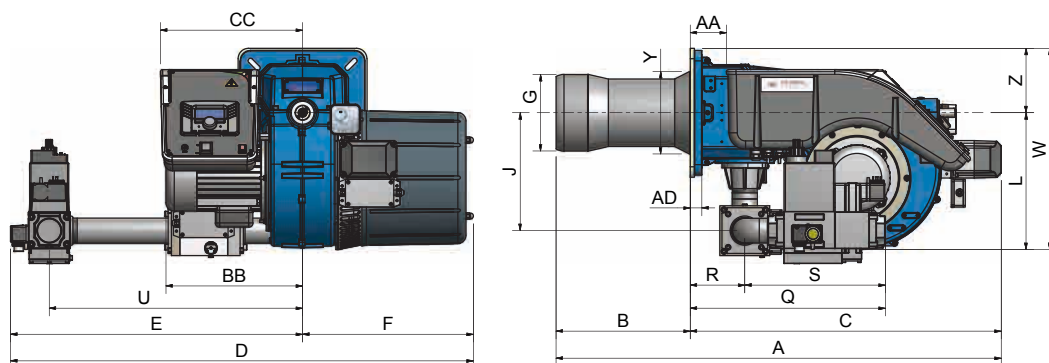
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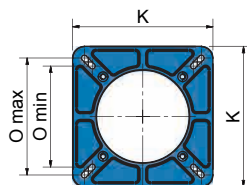
FR68		(from 300 to 1.200 kW)
FR63		(from 230 to 850 kW)

TECHNICAL SPECIFICATIONS

Type	Model	Power kW		Electric power supply	Fan motor kW	Gas connections Rp	Noise level dBA
		min.	max.				
FR63	M-.xx.x.IT.A.1.xxx	230	850	230/400 V 3N ac	1,1	1 1/4" -1 1/2" -2" - DN 65	< 75
FR68	M-.xx.x.IT.A.1.xxx	300	1.200	230/400 V 3N ac	1,5	1 1/2" -2" - DN 65 - DN 80	< 75



Recommended drilling template



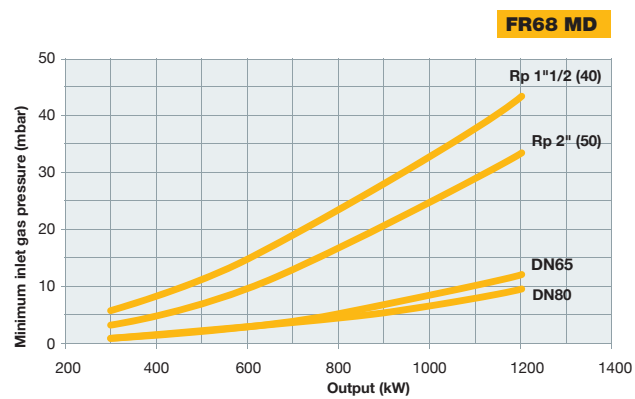
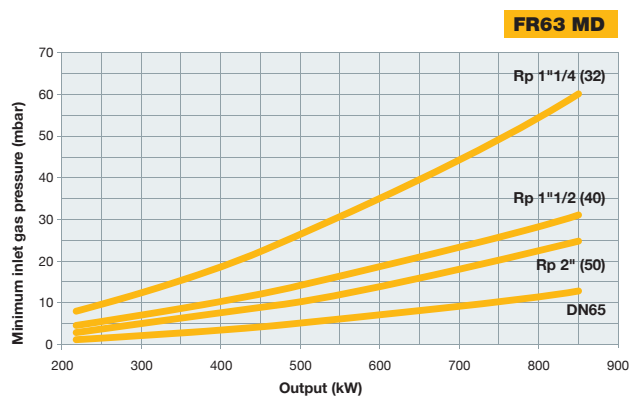
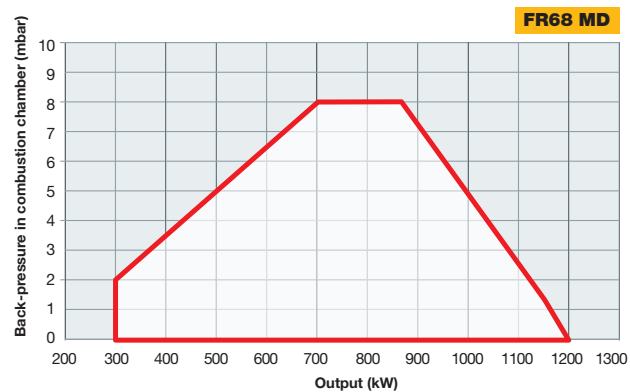
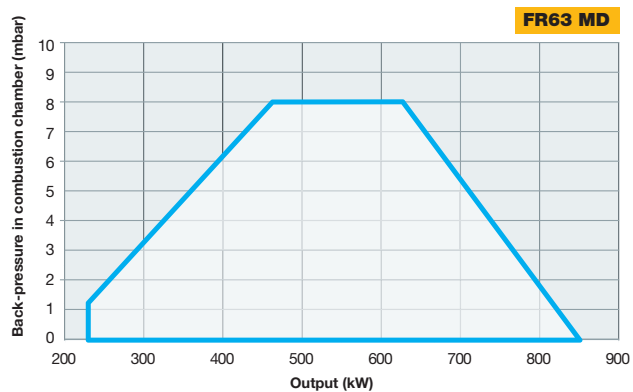
Burner flange

Type	Packaging dimensions (mm)			
	l	p	h	kg
FR63	-	-	-	-
FR68	-	-	-	-

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.											
FR63	M-.xx.x.IT.A.1.32	87	106	71	157	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
FR63	M-.xx.x.IT.A.1.40	87	106	71	157	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
FR63	M-.xx.x.IT.A.1.50	87	106	71	157	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
FR63	M-.xx.x.IT.A.1.65	87	106	71	157	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
FR68	M-.xx.x.IT.A.1.40	87	125	313	363	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
FR68	M-.xx.x.IT.A.1.50	87	125	313	363	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
FR68	M-.xx.x.IT.A.1.65	87	125	313	363	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
FR68	M-.xx.x.IT.A.1.80	87	125	313	363	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

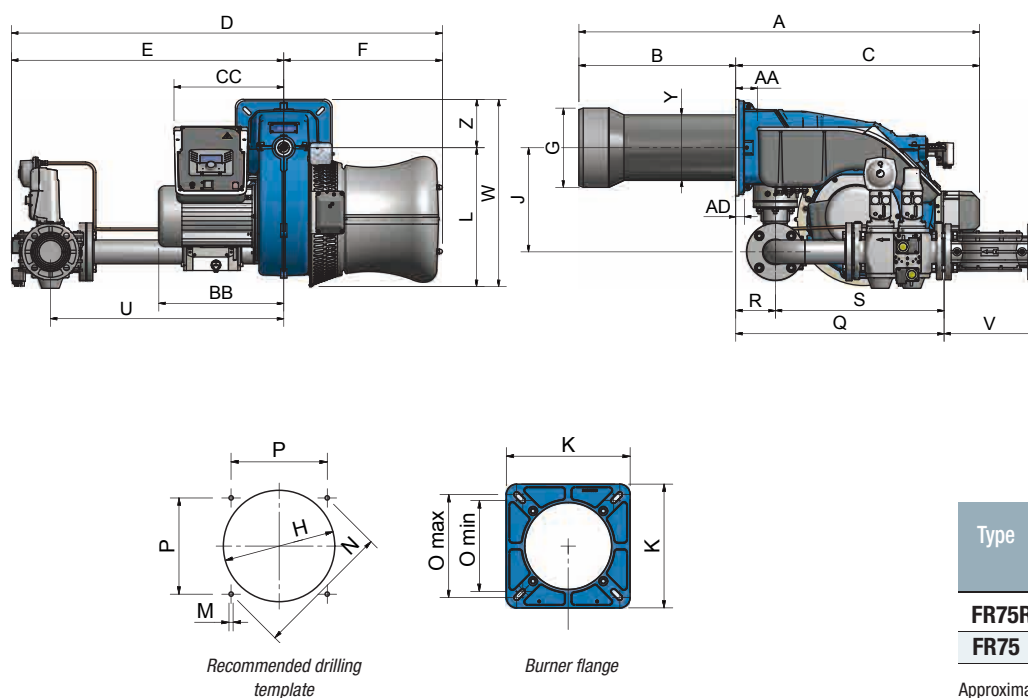
Approximate values





TECHNICAL SPECIFICATIONS

Type	Model	Power kW		Electric power supply	Fan motor kW	Gas connections Rp	Noise level dBA
		min.	max.				
FR75R	M-.xx.x.IT.A.1.xxx	290	1.400	230/400 V 3N ac	2,2	1 1/2" -2" - DN 65 - DN 80	< 75
FR75	M-.xx.x.IT.A.1.xxx	350	1.860	230/400 V 3N ac	3,0	1 1/2" -2" - DN 65 - DN 80	< 75



Type	Packaging dimensions (mm)			
	l	p	h	kg
FR75R	-	-	-	-
FR75	-	-	-	-

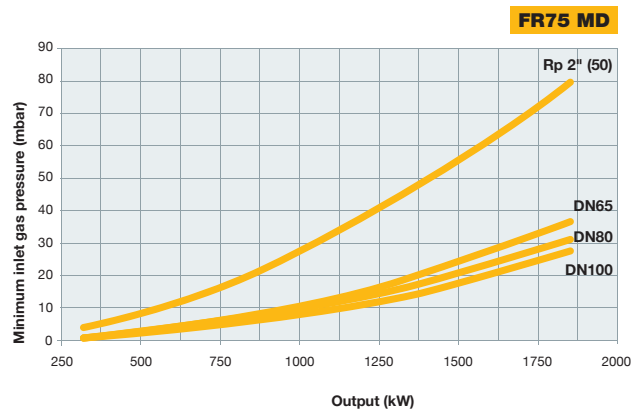
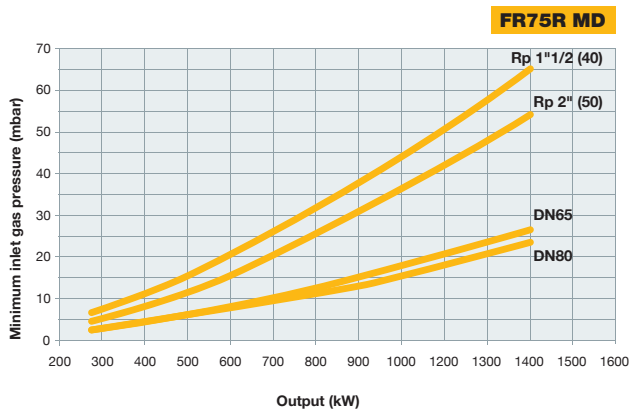
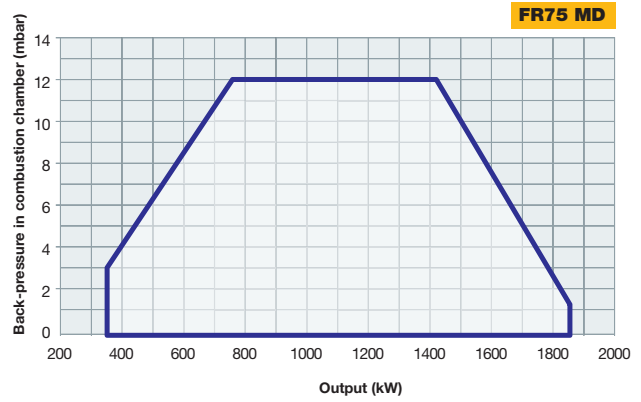
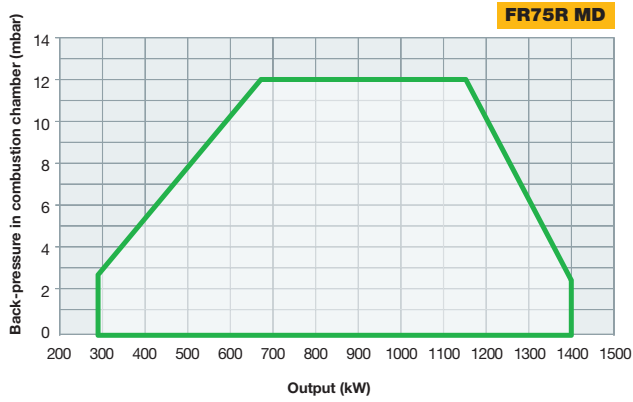
Approximate values

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.								
FR75R	M-.xx.S.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
FR75R	M-.xx.S.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
FR75R	M-.xx.S.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
FR75R	M-.xx.S.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
FR75	M-.xx.S.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
FR75	M-.xx.S.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
FR75	M-.xx.S.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
FR75	M-.xx.S.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



FR75R FR75 **tecnopress** SERIES





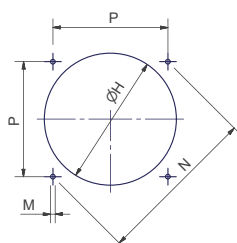
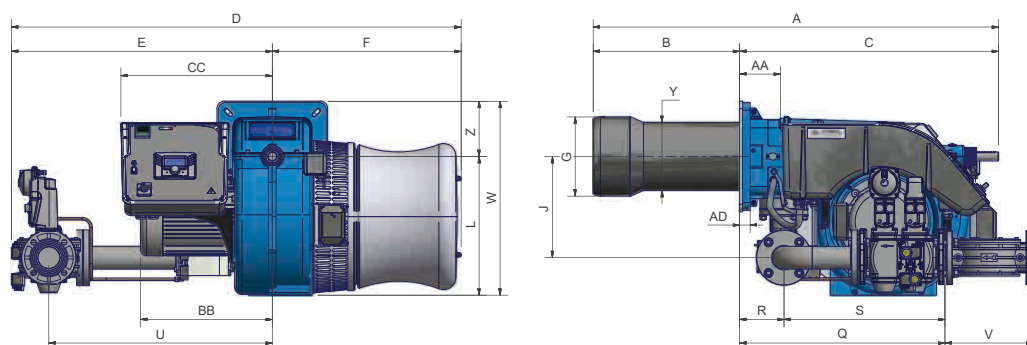
FR93A	(from 550 to 4.100 kW)
FR92A	(from 480 to 3.050 kW)
FR91A	(from 480 to 2.670 kW)



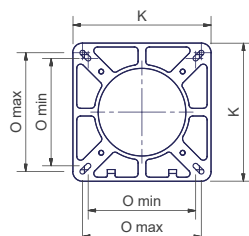
FR91A FR92A FR93A novanta SERIES

TECHNICAL SPECIFICATIONS

Type	Model	Power kW		Electric power supply	Fan motor kW	Gas connections Rp	Noise level dBA
		min.	max.				
FR91A	M-.xx.x.IT.A.1.xxx	480	2.670	230/400 V 3N ac	4,0	2" - DN65 - DN80 - DN100	< 75
FR92A	M-.xx.x.IT.A.1.xxx	480	3.050	230/400 V 3N ac	5,5	2" - DN65 - DN80 - DN100	< 75
FR93A	M-.xx.x.IT.A.1.xxx	550	4.100	230/400 V 3N ac	7,5	2" - DN65 - DN80 - DN100	< 75



Recommended drilling template



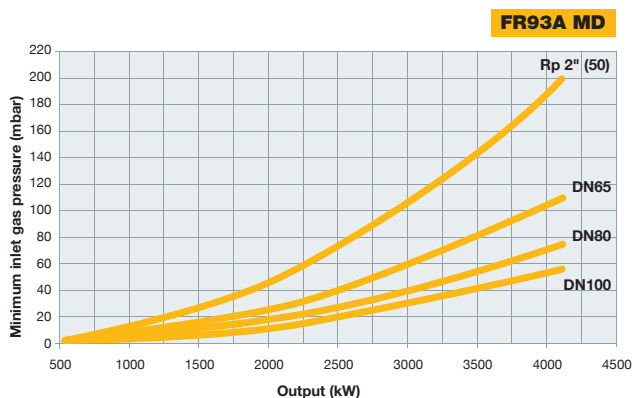
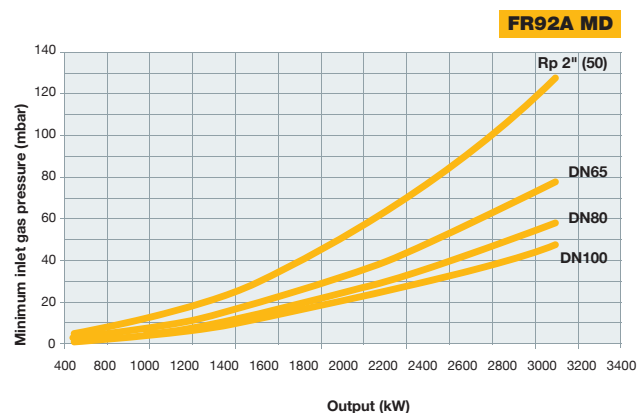
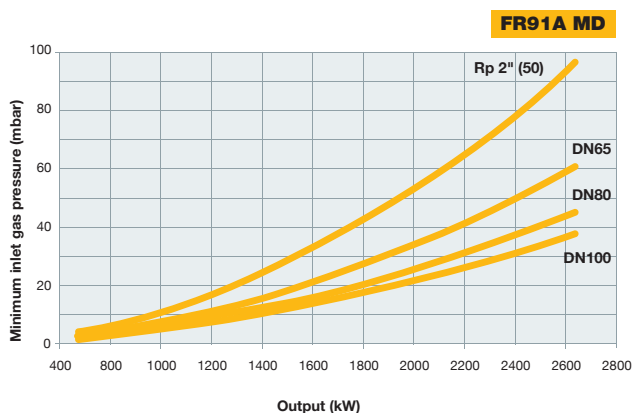
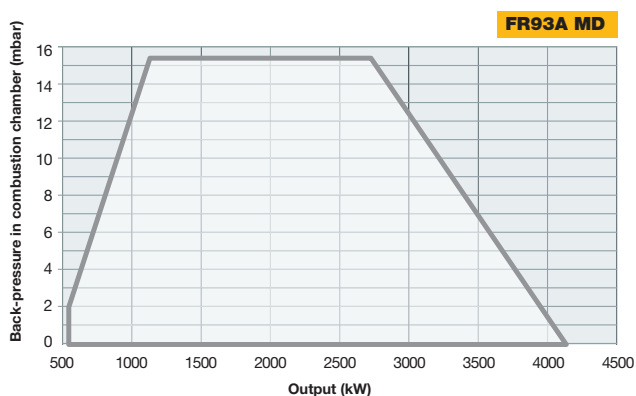
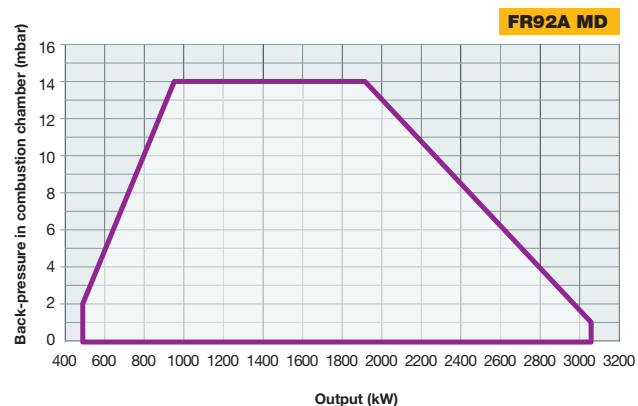
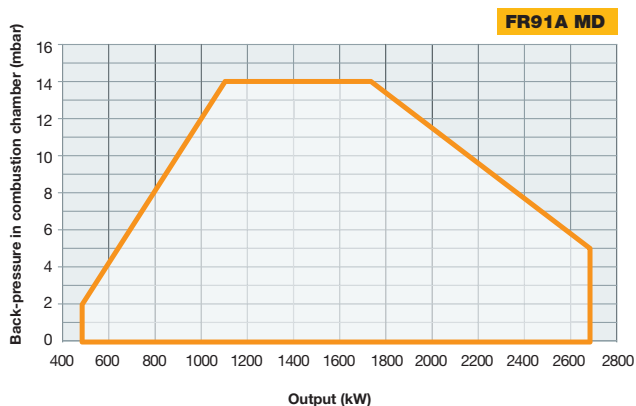
Burner flange

Type	Packaging dimensions (mm)			
	l	p	h	kg
FR91A	-	-	-	-
FR92A	-	-	-	-
FR93A	-	-	-	-

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.										
FR91A	M-.xx.x.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
FR91A	M-.xx.x.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
FR91A	M-.xx.x.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	313	649	228	185
FR91A	M-.xx.x.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
FR92A	M-.xx.x.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
FR92A	M-.xx.x.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
FR92A	M-.xx.x.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	313	649	228	185
FR92A	M-.xx.x.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
FR93A	M-.xx.x.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
FR93A	M-.xx.x.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
FR93A	M-.xx.x.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	313	649	228	185
FR93A	M-.xx.x.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_x PRODUCTION RANGE

tecnopress series

FRX63 - MD

tecnopress series

FRX75S - MD

FRX75R - MD

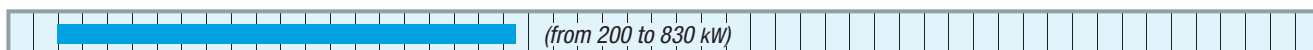
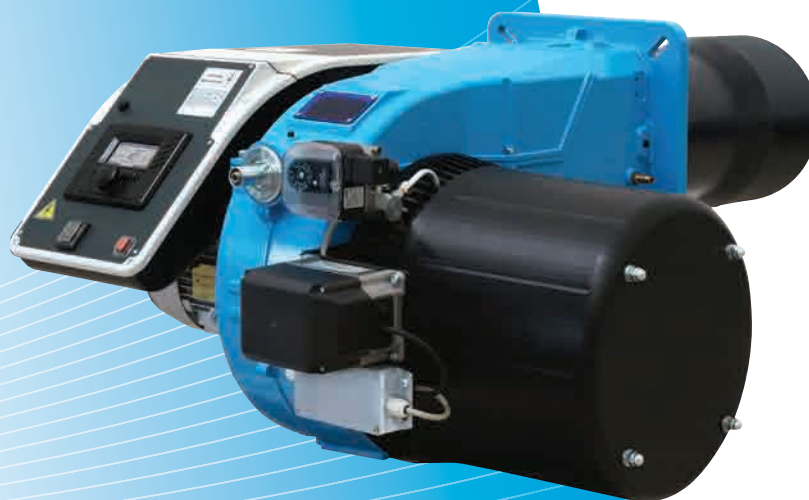
FRX75 - MD

novanta series

FRX91 - MD

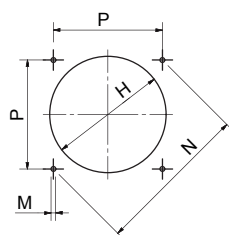
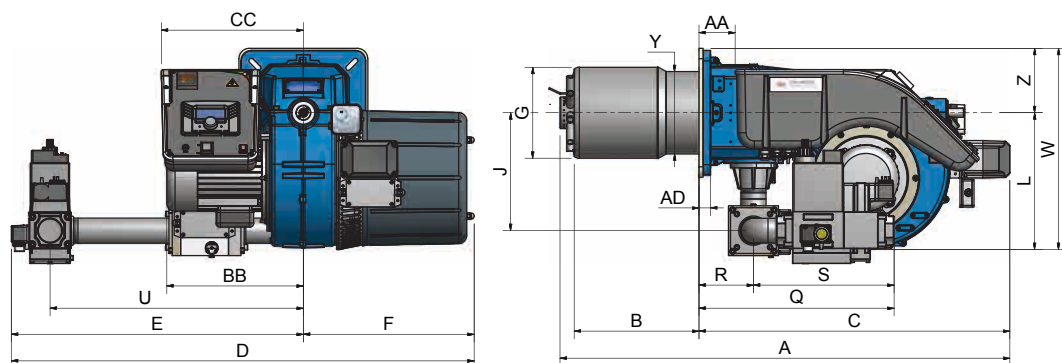
FRX92 - MD

Type	Power range (kW)
FRX92	(from 200 to 830 kW)
FRX91	(from 200 to 830 kW)
FRX75	(from 200 to 830 kW)
FRX75R	(from 290 to 1.150 kW)
FRX75S	(from 300 to 1.150 kW)
FRX63	(from 200 to 830 kW)

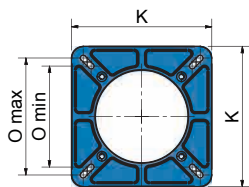


TECHNICAL SPECIFICATIONS

Type	Model	Power kW		Electric power supply	Fan motor kW	Gas connections Rp	Noise level dBA
		min.	max.				
FRX63	M-.xx.x.IT.A.1.xxx	200	830	230/400 V 3N ac	1,1	1 1/4" - 1 1/2" - 2" - DN65	< 75



Recommended drilling template



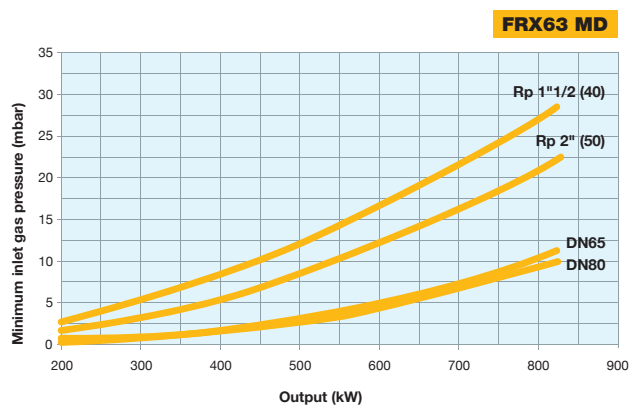
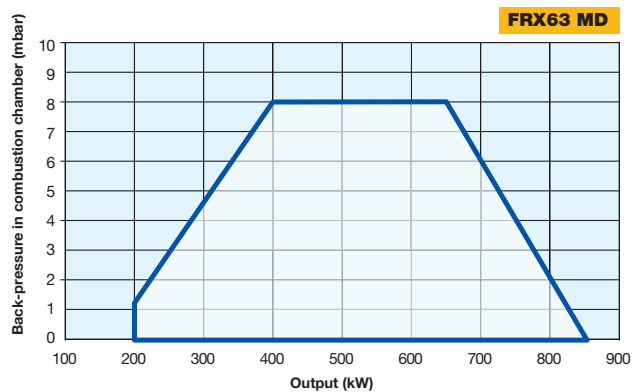
Burner flange

Type	Packaging dimensions (mm)			
	l	p	h	kg
FRX63	-	-	-	-

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.									
FRX63	M-.xx.x.IT.A.1.32	87	28	1081	1166	328	300	385	747	342	1113	702	411	219	249	285	360	329	M10	330	216	250	233	408	131	277	609	-	484	198	155
FRX63	M-.xx.x.IT.A.1.40	87	28	1081	1166	328	300	385	747	342	1113	702	411	219	249	285	360	329	M10	330	216	250	233	473	131	342	609	-	484	198	155
FRX63	M-.xx.x.IT.A.1.50	87	28	1081	1166	328	300	385	747	342	1113	702	411	219	249	284	360	329	M10	330	216	250	233	469	131	338	609	-	484	198	155
FRX63	M-.xx.x.IT.A.1.65	87	28	1081	1166	328	300	385	747	342	1281	870	411	219	249	284	360	329	M10	330	216	250	233	672	131	541	748	292	484	198	155

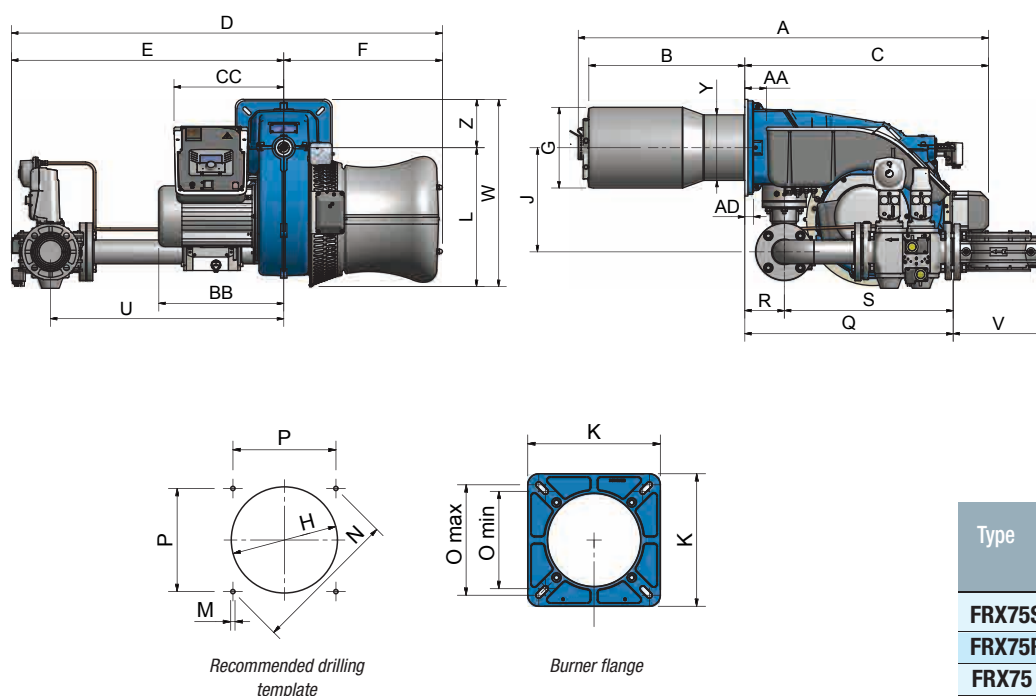
Approximate values



25

TECHNICAL SPECIFICATIONS

Type	Model	Power kW		Electric power supply	Fan motor kW	Gas connections Rp	Noise level dBA
		min.	max.				
FRX75S	M-.xx.x.ITA.1.xxx	300	1.150	230/400 V 3N ac	2,2	1 1/2" - 2" - DN65 - DN80	< 75
FRX75R	M-.xx.x.ITA.1.xxx	290	1.400	230/400 V 3N ac	2,2	1 1/2" - 2" - DN65 - DN80	< 75
FRX75	M-.xx.x.ITA.1.xxx	350	1.800	230/400 V 3N ac	3,0	1 1/2" - 2" - DN65 - DN80	< 75

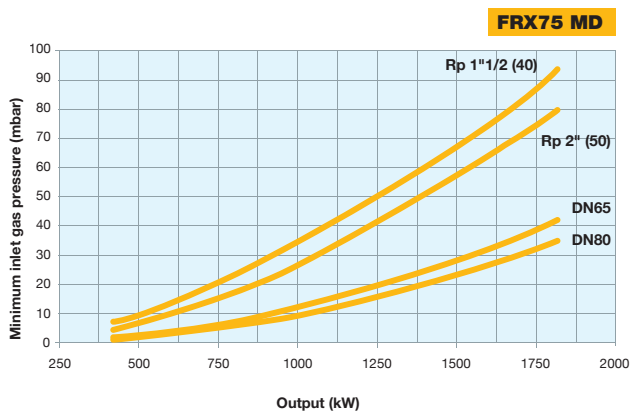
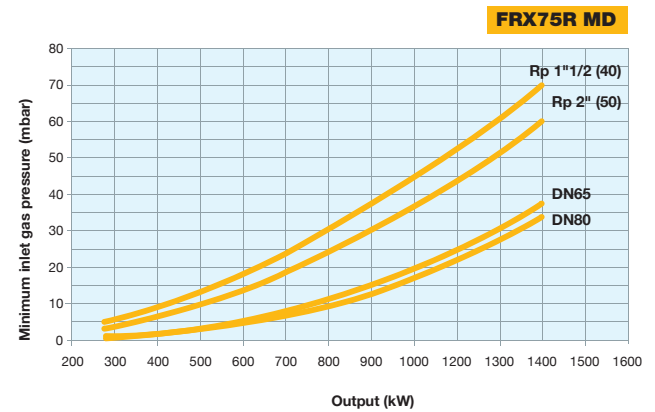
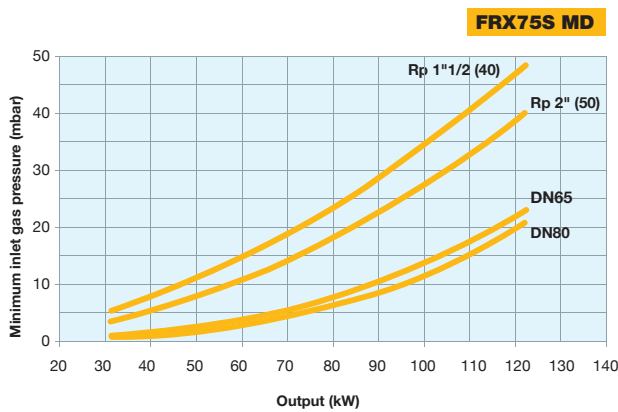
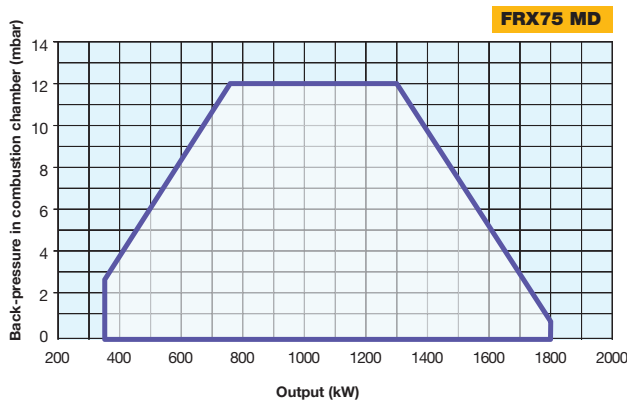
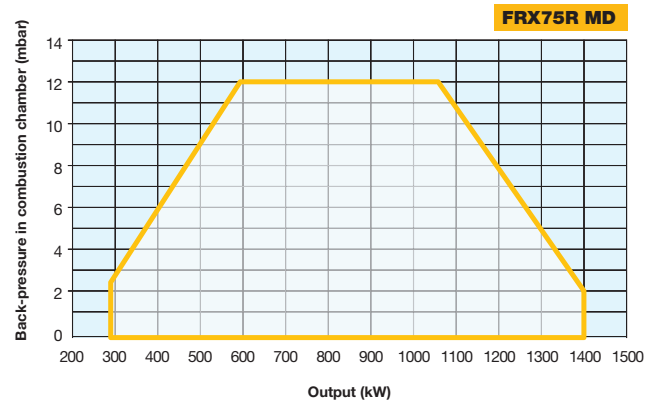
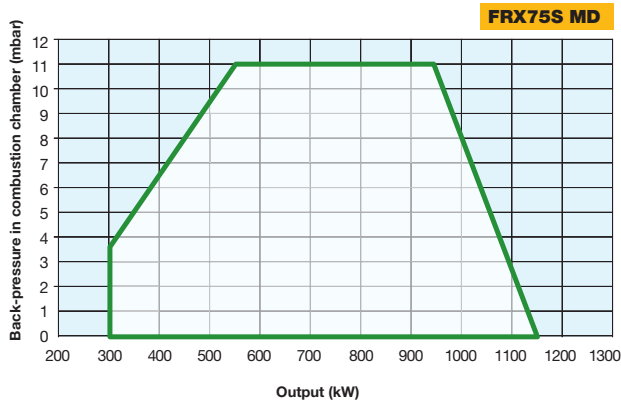


Type	Packaging dimensions (mm)			
	l	p	h	kg
FRX75S	-	-	-	-
FRX75R	-	-	-	-
FRX75	-	-	-	-

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.								
FRX75S	M-.xx.x.ITA.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
FRX75S	M-.xx.x.ITA.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
FRX75S	M-.xx.x.ITA.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
FRX75S	M-.xx.x.ITA.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
FRX75R	M-.xx.x.ITA.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
FRX75R	M-.xx.x.ITA.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
FRX75R	M-.xx.x.ITA.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
FRX75R	M-.xx.x.ITA.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
FRX75	M-.xx.x.ITA.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
FRX75	M-.xx.x.ITA.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
FRX75	M-.xx.x.ITA.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
FRX75	M-.xx.x.ITA.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

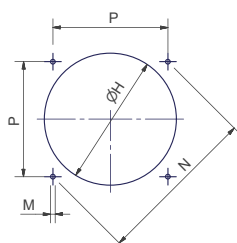
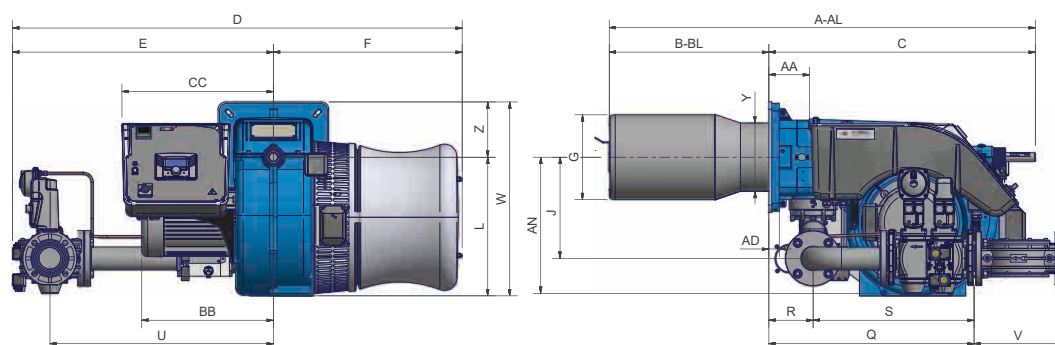
Approximate values



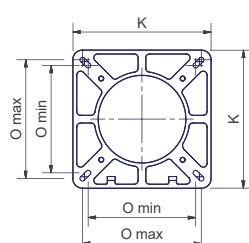
[illegible]

TECHNICAL SPECIFICATIONS

Type	Model	Power kW		Electric power supply	Fan motor kW	Gas connections Rp	Noise level dBA
		min.	max.				
FRX91	M-.xx.x.xx.A.1.xxx	674	2.670	230/400 V 3N ac	7,5	2" - DN65 - DN80 - DN100	< 75
FRX92	M-.xx.x.xx.A.1.xxx	680	3.130	230/400 V 3N ac	7,5	2" - DN65 - DN80 - DN100	< 75



Recommended drilling template



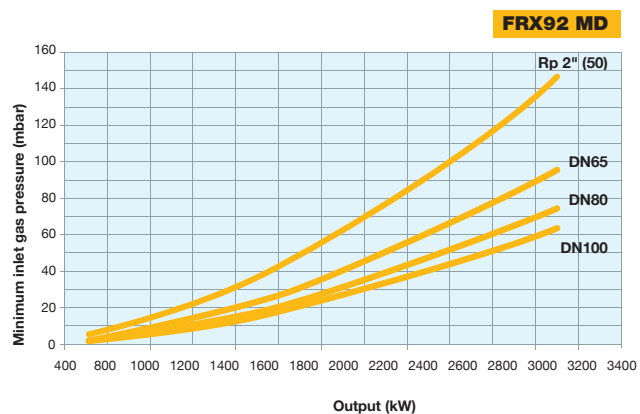
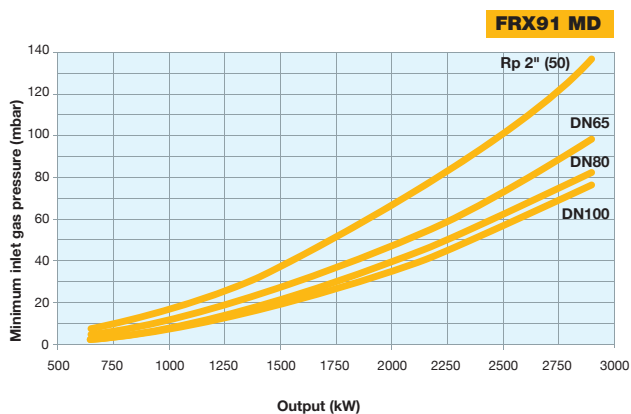
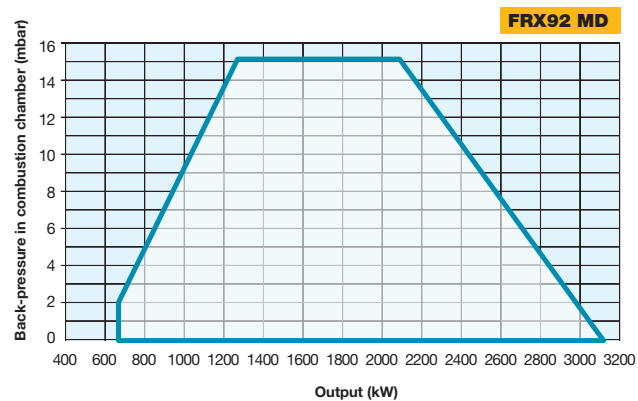
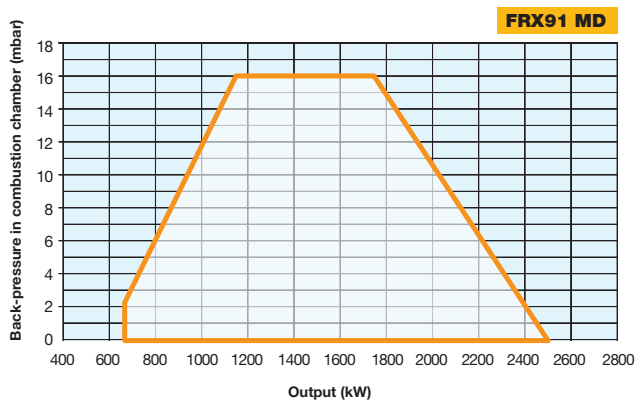
Burner flange

Type	Packaging dimensions (mm)			
	l	p	h	kg
FRX91	-	-	-	-
FRX92	-	-	-	-

Approximate values

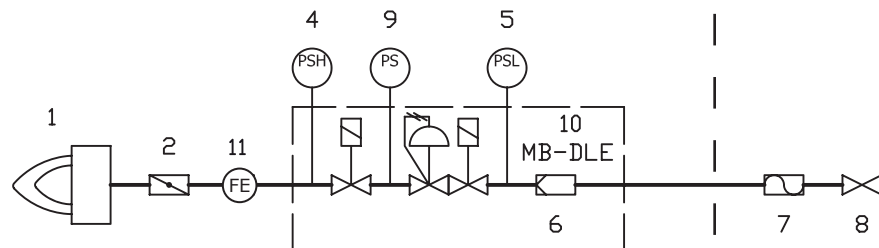
Type	Model	Overall dimensions (mm)																														
		AA	AD	AN	AS	AL	BB	BS	BL	C	CC	D	E	F	G	H	J	K	L	M	N	O		P	Q	R	S	U	V	W	Y	Z
																						min. max.										
FRX91	M-.xx.x.IT.A.1.50	135	35	550	1317	1417	493	390	490	892	507	1357	725	632	259	289	450	360	464	M12	424	280	310	300	532	148	384	624	190	649	228	185
FRX91	M-.xx.x.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
FRX91	M-.xx.x.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	313	649	228	185
FRX91	M-.xx.x.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
FRX92	M-.xx.x.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
FRX92	M-.xx.x.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
FRX92	M-.xx.x.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	313	649	228	185
FRX92	M-.xx.x.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

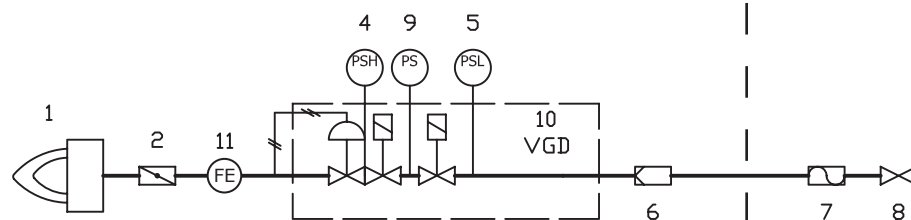


MANUFACTURER | INSTALLER

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	
FA	TECNOPRESS	gas	FR63 - FR68 - FRX63	●	
FA	TECNOPRESS	gas	FR75R - FR75 - FRX75S - FRX75R - FRX75	●	
FA	NOVANTA	gas	FR91A - FR92A - FR93A - FRX91 - FRX92	●	
FB	TECNOPRESS	gas	FR63 - FR68 - FRX63	●	
FB	TECNOPRESS	gas	FR75R - FR75 - FRX75S - FRX75R - FRX75	●	
FB	NOVANTA	gas	FR91A - FR92A - FR93A - FRX91 - FRX92	●	

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
	•	•		•	
	•		•	•	
	•		•	•	
	•	•		•	•
	•		•	•	•
	•		•	•	•

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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

