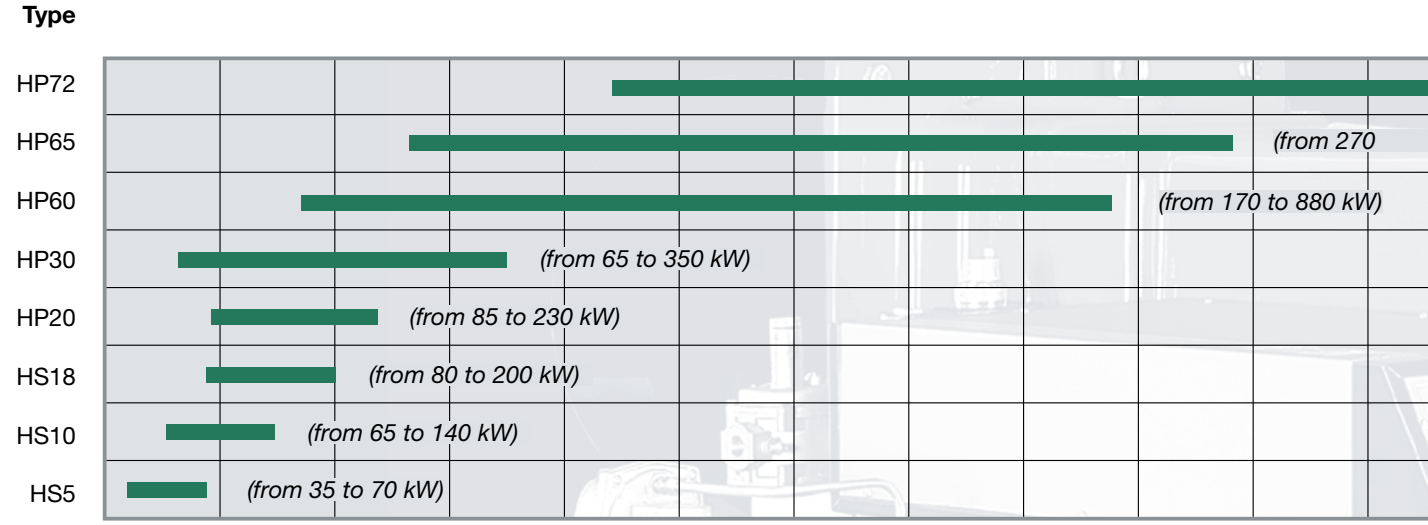
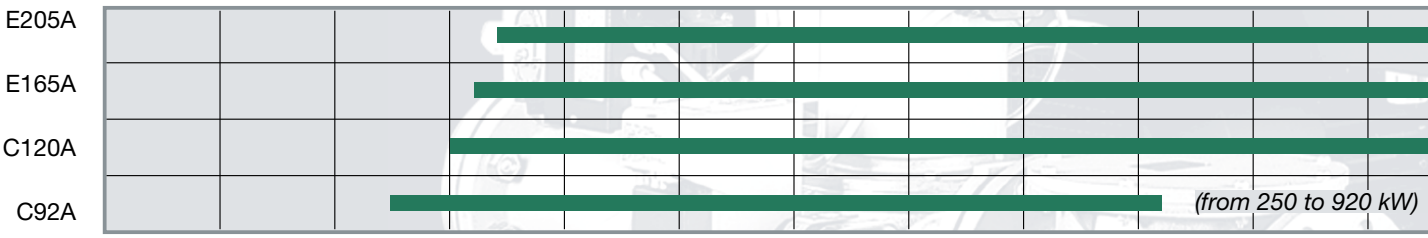
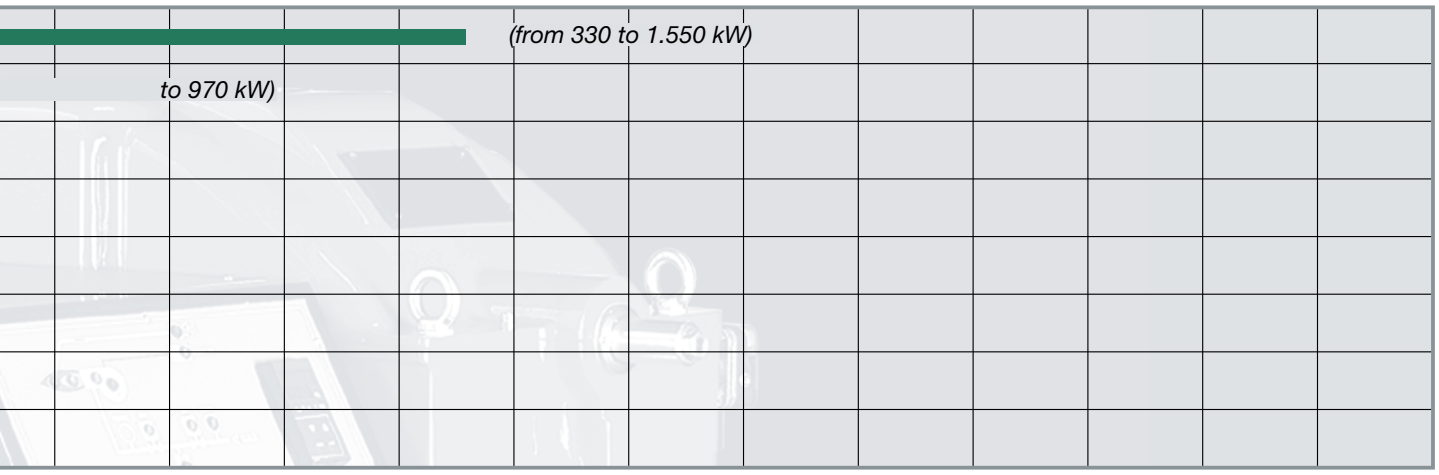
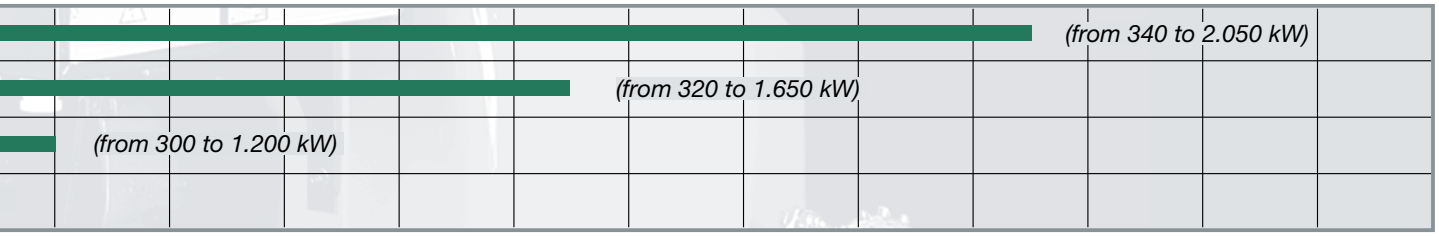
DUAL FUEL BURNERS NATURAL GAS/LIGHT OIL

miniflam series	tecnopress series		NEW tecnopress series	
HS5 - TN	**HP20** - AB/PR/MD	**HP65** - AB/PR/MD	**C92A** - AB/PR/MD...SP	**E165A** - PR/MD...SR
HS10 - TN	**HP30** - AB/PR/MD	**HP72** - AB/PR/MD	**C120A** - AB/PR/MD...SP	**E205A** - PR/MD...SR
HS18 - TN	**HP60** - AB/PR/MD			

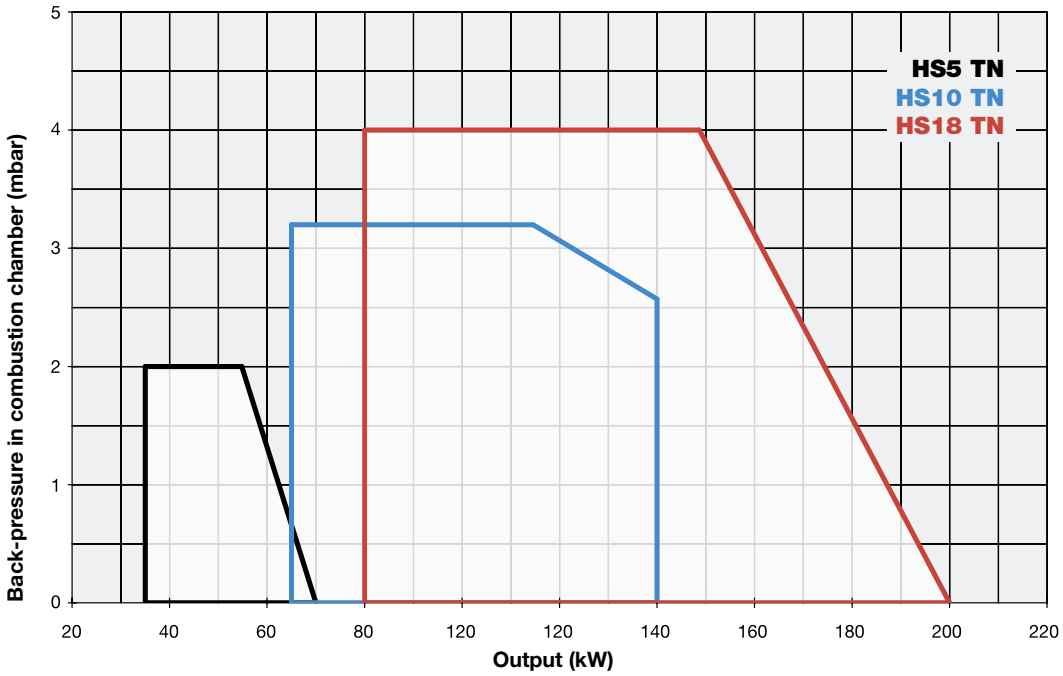





(from 330 to 1.550 kW)
to 970 kW)

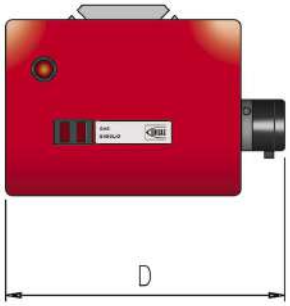

(from 340 to 2.050 kW)
(from 320 to 1.650 kW)
(from 300 to 1.200 kW)

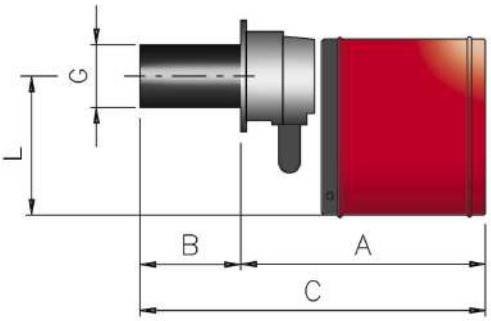
This small output series can work both with gas and light oil according to the fuel availability on the plant.
Clearly all mechanisms have been carefully studied to give the maximum efficiency and are perfectly compatible to work with gas and liquid fuels; in fact fuel change over is simply achieved by a single electrical switch which prompts the burner to carry out a controlled shutdown.
The high perfomance fuel pump is driven by a separate motor running only when oil firing is selected.
Moreover, thanks to its small dimensions, this series is particularly suitable to a quick maintenance. The burners' features are: an housing made in aluminium die-cast, the cover can be easily taken off, a grill on the air inlet prevents any foreign object being drawn into the fan.
The combustion head can be adjusted by means of a graduated screw.

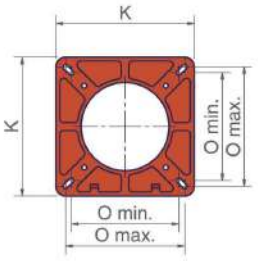


TECHNICAL DETAILS

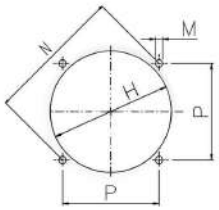
Type	Model	Power kW		Electric power	Fan motor	Pump motor	Gas connections
		min.	max.	supply	kW	kW	
HS5	MG.TN.x.xx.A.0.15	35	70	230 V 1N ac	0,10	0,1	½"
HS10	MG.TN.x.xx.A.0.20	65	140	230 V 1N ac	0,15	0,1	¾"
HS18	MG.TN.x.xx.A.0.25	80	200	230 V 1N ac	0,15	0,1	1"







Burner flange



Suggested boiler drilling

Type	Packaging dimensions (mm)			
	l	p	h	kg
HS5	580	580	360	23
HS10	510	350	730	30
HS15	510	350	730	31

Approximate values

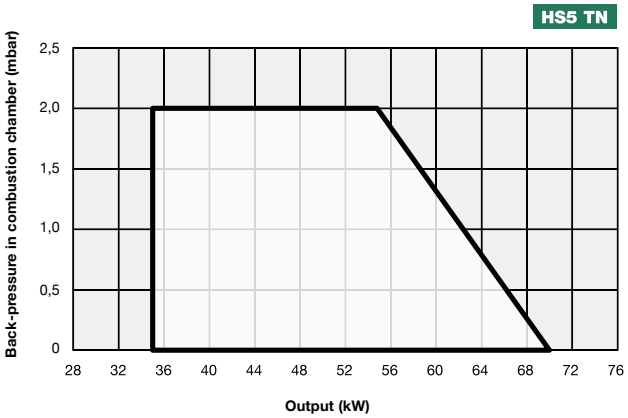
Type	Model	Overall dimensions (mm)								Boiler drilling (mm)					Burner flange (mm)		
		A	B	BL	C	CL	D	G	L	H	M	N	P		K	O	
													min.	max.		min.	max.
HS5	MG.TN.x.xx.A.0.15	320	0÷61	0÷160	380	480	400	80	190	90	M8	130÷189	92	134	162	86	138
HS10	MG.TN.x.xx.A.0.20	351	159	254	510	605	430	108	210	115	M8	148÷189	105	134	162	103	103
HS18	MG.TN.x.xx.A.0.25	348	177	267	525	615	430	126	210	135	M8	148÷189	105	134	162	103	103

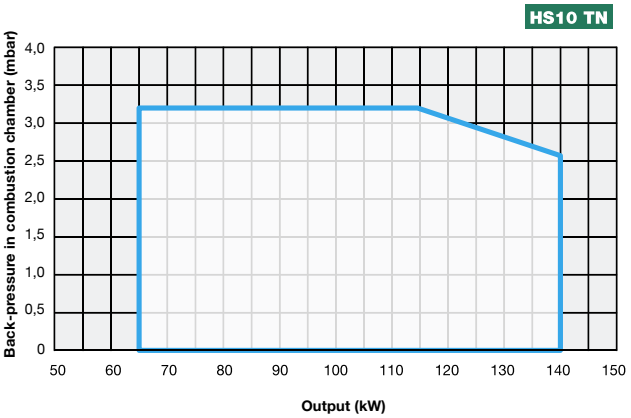
Approximate values

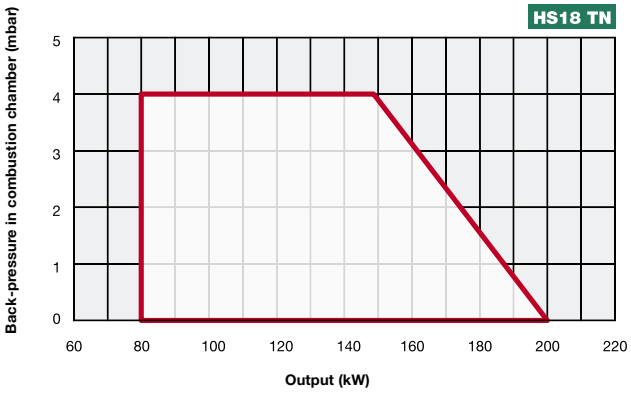
Model	Gas train	Operation	HS5 Code	HS5 Price €	HS10 Code	HS10 Price €
MG.TN.S.xx.A.0.15	½”	TN	001070141		-	
MG.TN.L.xx.A.0.15	½”	TN	001070241		-	
MG.TN.S.xx.A.0.20	¾”	TN	-		002070141	
MG.TN.L.xx.A.0.20	¾”	TN	-		002070241	

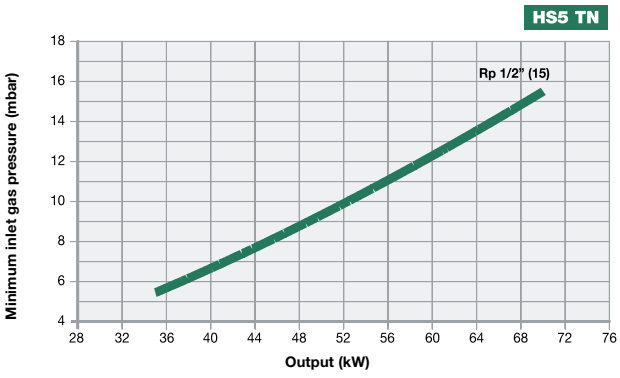
Model	Gas train	Operation	HS18 Code	HS18 Price €
MG.TN.S.xx.A.0.25	1”	TN	002070341	
MG.TN.L.xx.A.0.25	1”	TN	002070441	

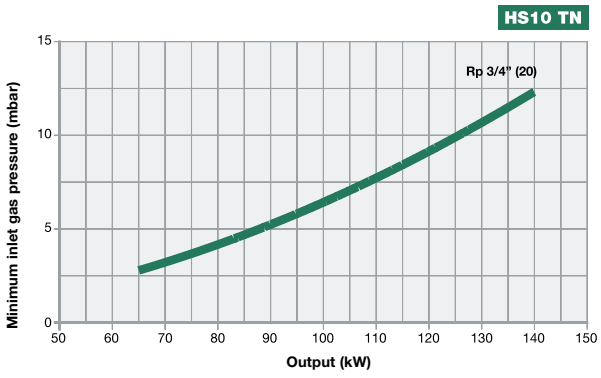
In compliance with:
- GAR Directive 2016/426/EU
- Low Tension Directive 2014/35/UE
- Electromagnetic Compatibility Directive 2014/30/UE
- Machinery Directive 2006/42/CE

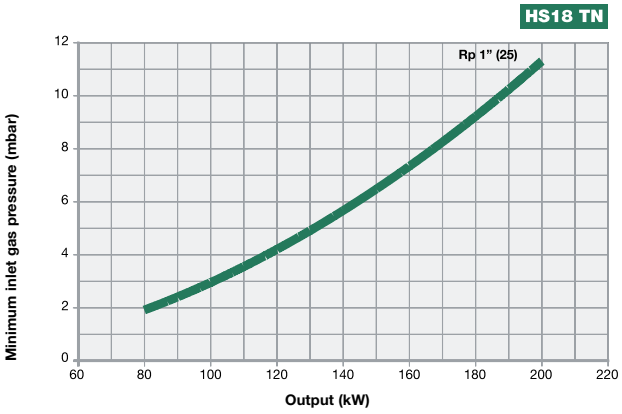










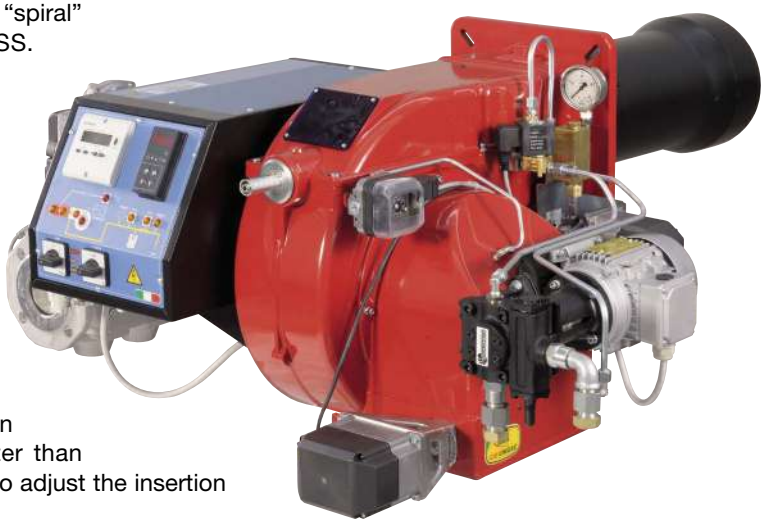


Attention: the graph shows the value of the gas output (kW) against the corresponding pressure without the combustion chamber back pressure. To know the minimum gas pressure at gas train, in order to get the gas output, it is necessary to add the boiler back pressure to the value read on the curve.

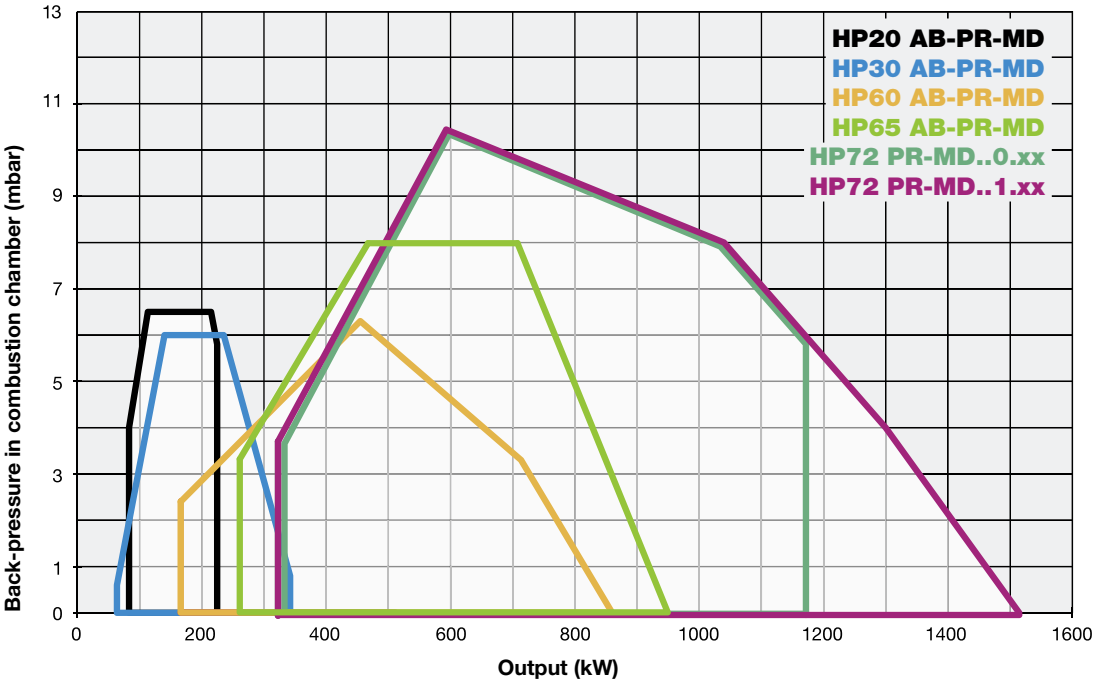
tecnopress SERIES HP20 HP30 HP60 HP65 HP72

GAS/LIGHT OIL

These burners are characterized by the “spiral” line typical of the series TECNOPRESS.
They are suitable both for big and for small outputs (up to 1.550 kW).
Moreover they are suitable to burn either natural gas or light oil thanks to the adjustable combustion head which allows a good performance with both fuels.
The control panel is printed with a mimic diagram fitted with neon lamps to indicate the different stages of the burner operation.
Like all other models, they can work with standard and long combustion head. If the combustion head is shorter than the standard one, a spacer is available to adjust the insertion length into the combustion chamber.
All regulations and settings devices are simple and practical for both fuels thanks to high quality leverages.



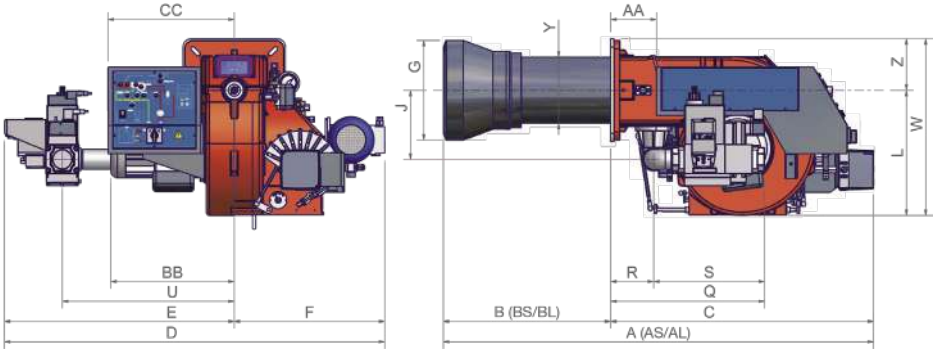
Electronic set up (optional)



TECHNICAL DETAILS

Type	Model	Power kW		Electric power	Fan motor	Pump motor	Gas connections
		min.	max.	supply	kW	kW	
HP20	MG.xx.x.xx.A.0.25	85	230	230 V 1N ac	0,37	0,18	1”
HP30	MG.xx.S.xx.A.0.xx	65	350	230 V 1N ac	0,37	0,18	1”¼ - 1”½
HP60	MG.xx.S.xx.A.0.xx	170	880	230/400 V 3N ac	1,10	0,55	1”¼ - 1”½ - 2” - DN65
HP65	MG.xx.S.xx.A.x.xx	270	970	230/400 V 3N ac	1,50	0,55	1”½ - 2” - DN65
HP72	MG.xx.S.xx.A.0.xx	330	1200	230/400 V 3N ac	2,20	0,55	1”½ - 2” - DN65 - DN80
HP72	MG.xx.S.xx.A.1.xx	330	1550	230/400 V 3N ac	2,20	0,55	1”½ - 2” - DN65 - DN80

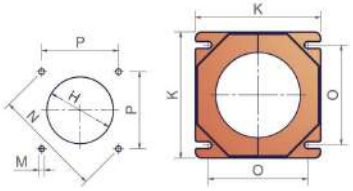
For the configuration of the gas train, see page 101.



Type	Packaging dimensions (mm)			
	l	p	h	kg
HP20/HP30	980	800	620	75
HP60	1360	930	820	120
HP65	1370	1130	820	130
HP72	1370	1130	820	160

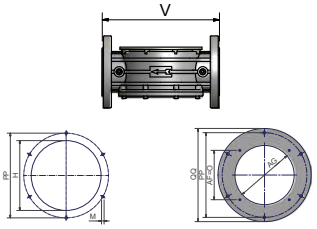
Approximate values

HP20 - HP30 - HP60



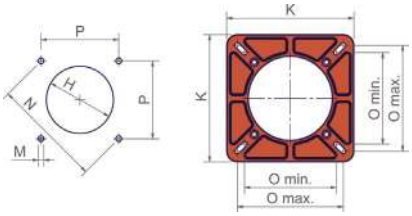
Suggested boiler drilling *Burner flange*

DN65 - DN80



Suggested boiler drilling *Counterflange*

HP65 - HP72



Suggested boiler drilling *Burner flange*

Type	Model	Overall dimensions (mm)																																
		AA	AG	AL	AS	BB	BL	BS	C	CC	D	E	F	G	H	J	K	L	M	N	O min.	O max.	P	PP	Q	QQ	R	S	U	V	W	Y	Z
HP20	MG.xx.x.xx.A.0.25	-	-	813	728	-	258	173	555	-	830	510	320	126	151	178	190	290	M10	219	155	155	155	-	-	-	-	-	360	-	-	115	-
HP30	MG.xx.S.xx.A.0.xx	-	-	-	855	-	-	300	555	-	830	510	320	150	162	178	190	290	M10	219	155	155	155	-	-	-	-	-	360	-	-	133	-
HP60	MG.xx.S.xx.A.0.32	99	-	-	1119	314	-	383	736	362	930	500	430	240	280•	210	240	344	M10	269	190	190	190	-	445	-	112	327	444	-	464	162	120
HP60	MG.xx.S.xx.A.0.40	99	-	-	1119	314	-	383	736	362	930	500	430	240	280•	210	240	344	M10	269	190	190	190	-	445	-	112	327	444	-	464	162	120
HP60	MG.xx.S.xx.A.0.50	99	-	-	1119	314	-	383	736	362	930	500	430	240	280•	210	240	344	M10	269	190	190	190	-	445	-	112	335	444	-	464	162	120
HP60	MG.xx.S.xx.A.0.65	99	-	-	1119	314	-	383	736	362	1115	685	430	240	280•	250	240	420	M10	269	190	190	190	-	845	-	112	403	540	292	540	162	120
HP65	MG.xx.S.xx.A.1.40	139	-	-	1156	347	-	362	794	380	1148	694	454	240	280	208	300	376	M10	330	216	250	233	-	457	-	130	327	519	-	531	162	155
HP65	MG.xx.S.xx.A.1.50	139	-	-	1156	347	-	362	794	380	1148	694	454	240	280	208	300	376	M10	330	216	250	233	-	465	-	130	335	519	-	531	162	155
HP65	MG.xx.S.xx.A.1.65	139	-	-	1156	347	-	362	794	380	1226	772	454	240	280	275	300	393	M10	330	216	250	233	-	533	-	130	403	565	292	548	162	155
HP72	MG.xx.S.xx.A.0.40	139	-	-	1299	373	-	505	794	382	1022	568	454	300	340•	208	300	376	M10	330	216	250	233	400	465	440	130	335	519	-	531	198	155
HP72	MG.xx.S.xx.A.0.50	139	-	-	1299	373	-	505	794	382	1022	568	454	300	340•	208	300	376	M10	330	216	250	233	400	457	440	130	327	519	-	531	198	155
HP72	MG.xx.S.xx.A.0.65	139	-	-	1299	373	-	505	794	382	1120	666	454	300	340•	275	300	393	M10	330	216	250	233	400	533	440	130	403	565	292	548	198	155
HP72	MG.xx.S.xx.A.0.80	139	-	-	1299	373	-	505	794	382	1120	666	454	300	340•	275	300	407	M10	330	216	250	233	400	574	440	130	444	565	310	562	198	155
HP72	MG.xx.S.xx.A.1.40	139	-	-	1299	373	-	505	794	382	1148	694	454	300	340•	208	300	376	M10	330	216	250	233	400	465	440	130	335	519	-	531	198	155
HP72	MG.xx.S.xx.A.1.50	139	-	-	1299	373	-	505	794	382	1148	694	454	300	340•	208	300	376	M10	330	216	250	233	400	457	440	130	327	519	-	531	198	155
HP72	MG.xx.S.xx.A.1.65	139	-	-	1299	373	-	505	794	382	1226	772	454	300	340•	275	300	393	M10	330	216	250	233	400	533	440	130	403	565	292	548	198	155
HP72	MG.xx.S.xx.A.1.80	139	-	-	1299	373	-	505	794	382	1228	774	454	300	340•	275	300	407	M10	330	216	250	233	400	574	440	130	444	565	310	562	198	155

• Install a counter-flange between the burner and the boiler or in alternative, drill the H hole smaller but higher than the Y point and assemble the combustion head inside the boiler.

Approximate values

MECHANICAL OPERATION

Model	Gas train	Operation	HP20 Code	HP20 Price €	HP30 Code	HP30 Price €
MG.AB.S.xx.A.0.25	1”	AB	003070142		-	
MG.PR.S.xx.A.0.25	1”	PR	003070143		-	
MG.AB.S.xx.A.0.32	1”¼	AB	-		003070342	
MG.AB.S.xx.A.0.40	1”½	AB	-		003070542	
MG.PR.S.xx.A.0.32	1”¼	PR (*)	-		003070343	
MG.PR.S.xx.A.0.40	1”½	PR (*)	-		003070543	

Model	Gas train	Operation	HP60 Code	HP60 Price €	HP65 Code	HP65 Price €
MG.AB.S.xx.A.0.32	1”¼	AB	004070542		-	
MG.AB.S.xx.A.0.40	1”¼	AB	004070141		008071242	
MG.AB.S.xx.A.0.50	2”	AB	004070242		008071042	
MG.AB.S.xx.A.0.65	DN65	AB	004070342		008071142	
MG.PR.S.xx.A.0.32	1”¼	PR (*)	004070543		-	
MG.PR.S.xx.A.0.40	1”½	PR (*)	004070143		008071243	
MG.PR.S.xx.A.0.50	2”	PR (*)	004070243		008071043	
MG.PR.S.xx.A.0.65	DN65	PR (*)	004070343		008071143	

Model	Gas train	Operation	HP72 Code	HP72 Price €
MG.AB.S.xx.A.0.40	1”½	AB	008070442	
MG.AB.S.xx.A.0.50	2”	AB	008070142	
MG.AB.S.xx.A.0.65	DN65	AB	008070242	
MG.AB.S.xx.A.0.80	DN80	AB	008070342	
MG.AB.S.xx.A.1.40	1”½	AB	008070452	
MG.AB.S.xx.A.1.50	2”	AB	008070152	
MG.AB.S.xx.A.1.65	DN65	AB	008070252	
MG.AB.S.xx.A.1.80	DN80	AB	008070352	
MG.PR.S.xx.A.0.40	1”½	PR (*)	008070443	
MG.PR.S.xx.A.0.50	2”	PR (*)	008070143	
MG.PR.S.xx.A.0.65	DN65	PR (*)	008070243	
MG.PR.S.xx.A.0.80	DN80	PR (*)	008070343	
MG.PR.S.xx.A.1.40▪	1”½	PR (*)	008070453	
MG.PR.S.xx.A.1.50▪	2”	PR (*)	008070153	
MG.PR.S.xx.A.1.65▪	DN65	PR (*)	008070253	
MG.PR.S.xx.A.1.80▪	DN80	PR (*)	008070353	

▪ Burner equipped with gas leakage control

(*) Progressive PR control, for modulating version MD add € (see price list)
In the full modulating version MD in order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 174).

In compliance with:
- **GAR Directive 2016/426/EU**
- **Low Tension Directive 2014/35/UE**
- **Electromagnetic Compatibility Directive 2014/30/UE**
- **Machinery Directive 2006/42/CE**

ELECTRONIC OPERATION

Model	Gas train	Operation	HP20 Code	HP20 Price €	HP30 Code	HP30 Price €
MG.PR.S.xx.A.1.25.EC	1”	PR (*)	00307015C		-	
MG.PR.S.xx.A.1.32.EC	1”¼	PR (*)	-		00307035C	

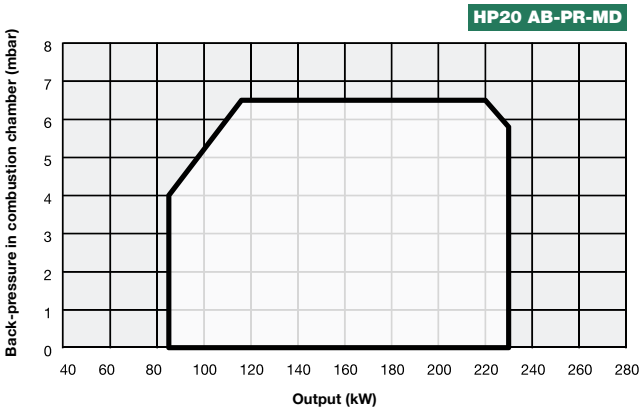
Model	Gas train	Operation	HP60 Code	HP60 Price €	HP65 Code	HP65 Price €
MG.PR.S.xx.A.1.32.EC	1”¼	PR (*)	00407055C			
MG.PR.S.xx.A.1.40.EC	1”½	PR (*)	00407015C		00807125C	
MG.PR.S.xx.A.1.50.EC	2”	PR (*)	00407025C		00807105C	
MG.PR.S.xx.A.1.65.EC	DN65	PR (*)	00407035C		00807115C	

Model	Gas train	Operation	HP72 Code	HP72 Price €
MG.PR.S.xx.A.1.40.EC	1”½	PR (*)	00807045C	
MG.PR.S.xx.A.1.50.EC	2”	PR (*)	00807015C	
MG.PR.S.xx.A.1.65.EC	DN65	PR (*)	00807025C	
MG.PR.S.xx.A.1.80.EC	DN80	PR (*)	00807035C	

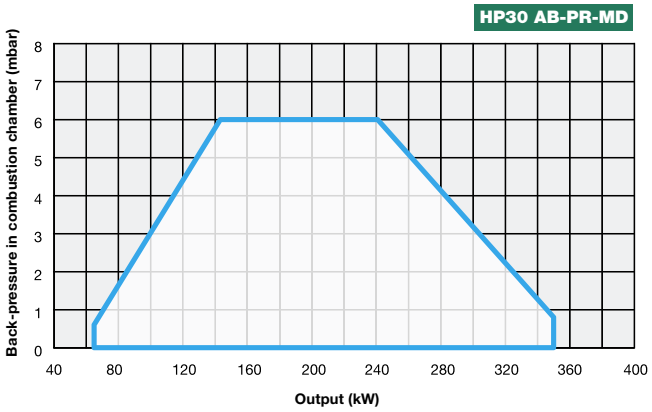
(*) Progressive PR control, for modulating version MD add € (see price list)
In the full modulating version MD in order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 174).

In compliance with:
- GAR Directive 2016/426/EU
- Low Tension Directive 2014/35/UE
- Electromagnetic Compatibility Directive 2014/30/UE
- Machinery Directive 2006/42/CE

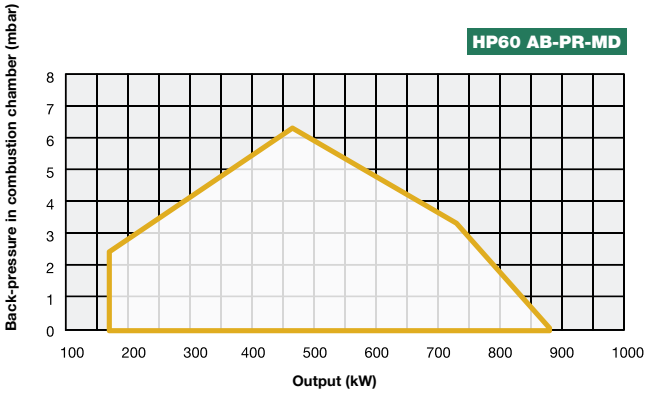
HP20 AB-PR-MD



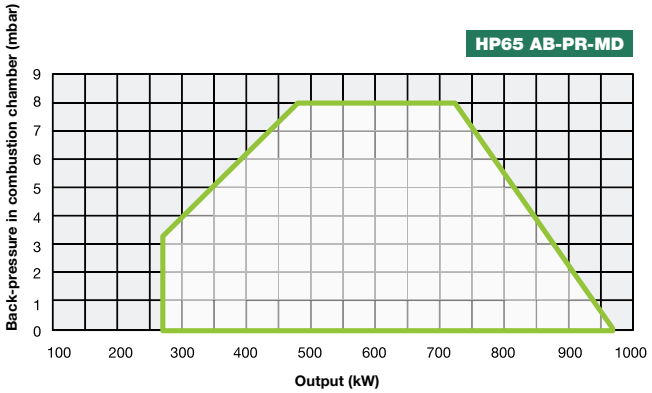
HP30 AB-PR-MD



HP60 AB-PR-MD



HP65 AB-PR-MD



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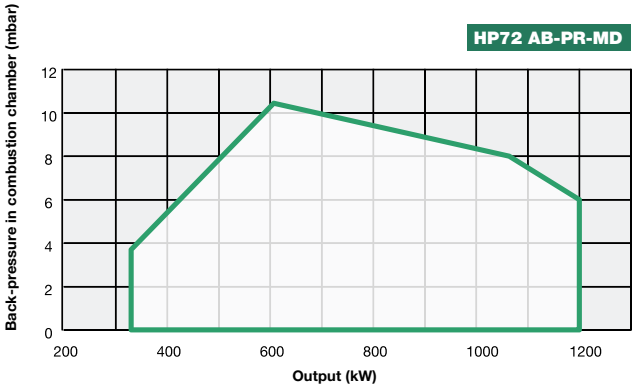

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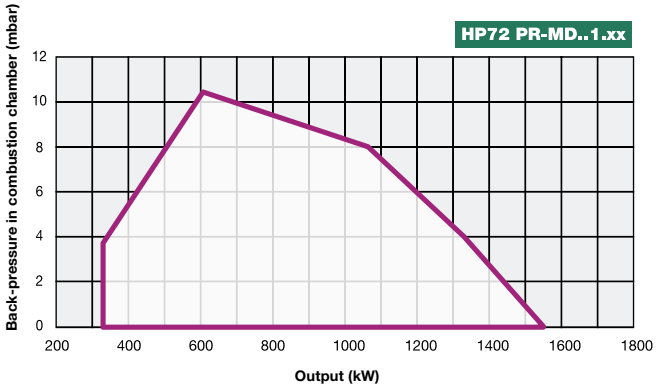
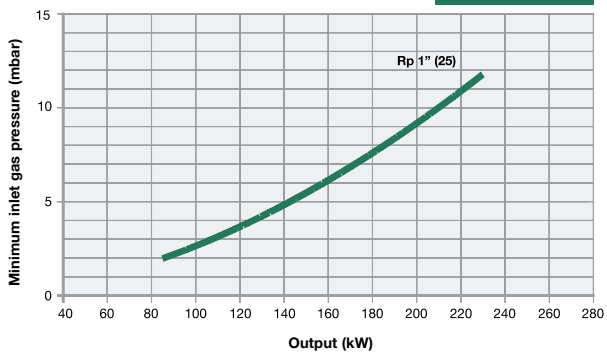
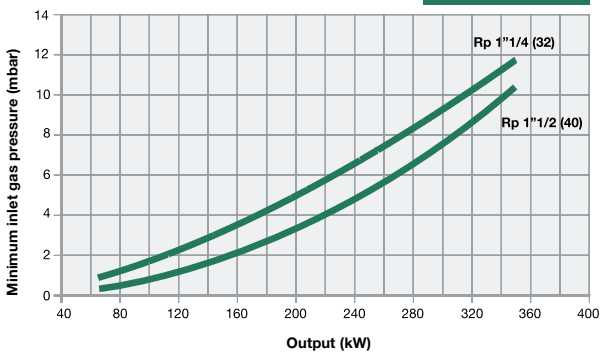


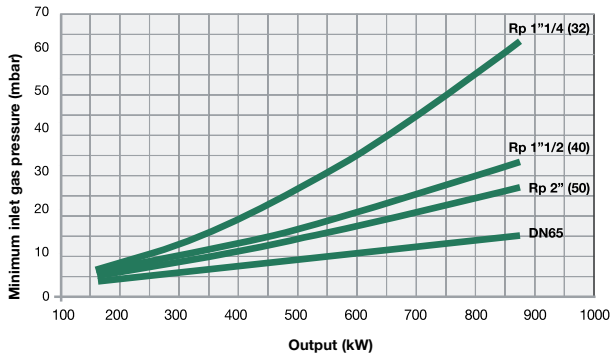
HP20 AB-PR-MD



HP30 AB-PR-MD



HP60 AB-PR-MD



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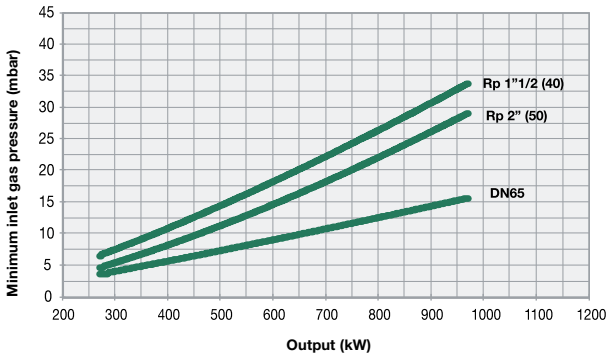

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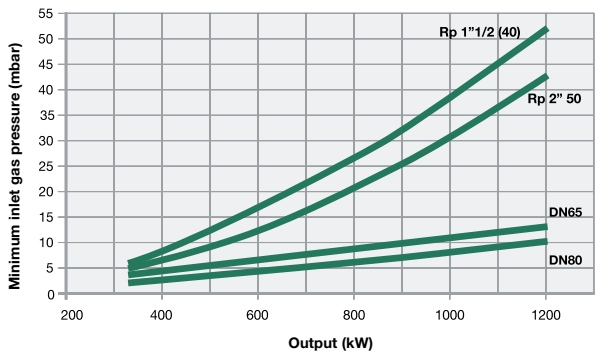
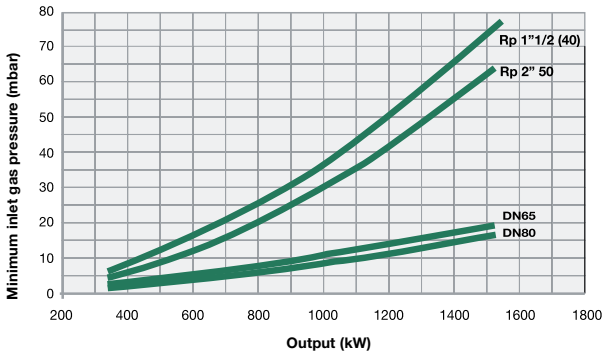
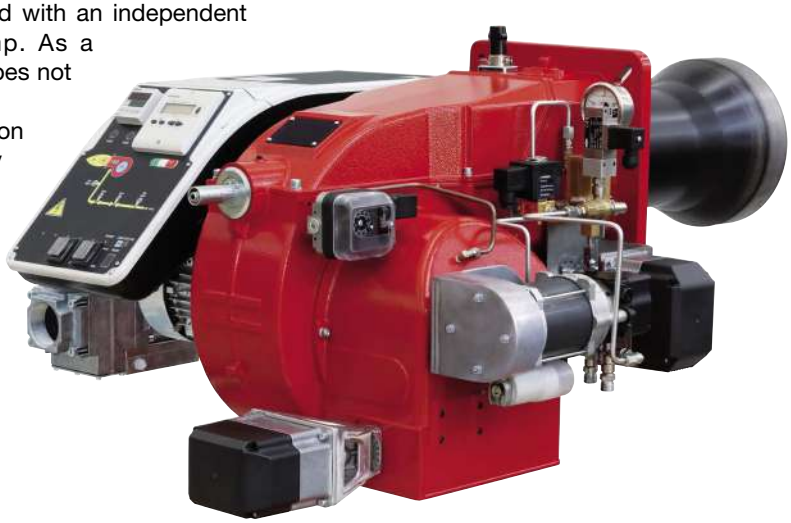


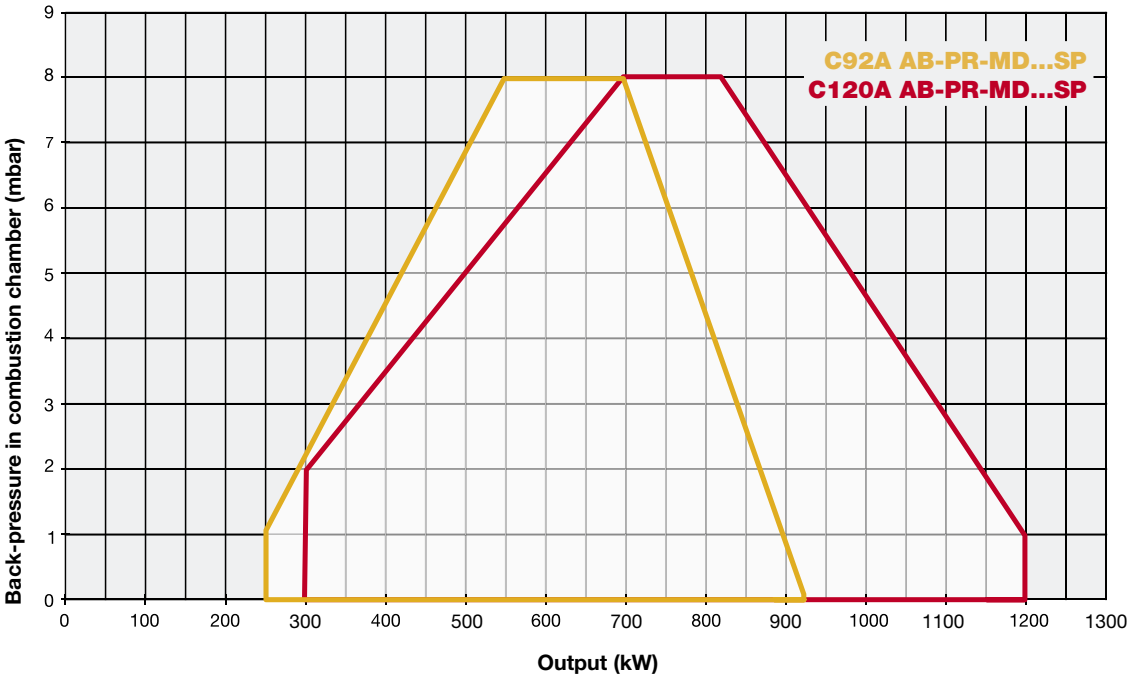
HP72 PR-MD..1.xx



Attention: the graph shows the value of the gas output (kW) against the corresponding pressure without the combustion chamber back pressure. To know the minimum gas pressure at gas train, in order to get the gas output, it is necessary to add the boiler back pressure to the value read on the curve.

Like all the other dual fuels models, this series perfectly combines the mechanical devices and systems typical of gas burners with the ones of light oil burners. In this way this series can burn the two flues separately.
This is possible because these burners are equipped with an independent electric motor for the activation of the oil pump. As a consequence during gas firing, the oil pump motor does not operate and remains off.
They are equipped with a high performance combustion head designed to achieve the maximum efficiency when they work on natural gas; combustion head is also equipped with a by-passing nozzle which, using a pressure
regulator, can reach a turndown ratio 1:3.
The control panel is printed with a mimic diagram fitted with neon lamps to indicate the different stages of the burner operation. The burner is provided by an UV photocell to detect the flame during operation.



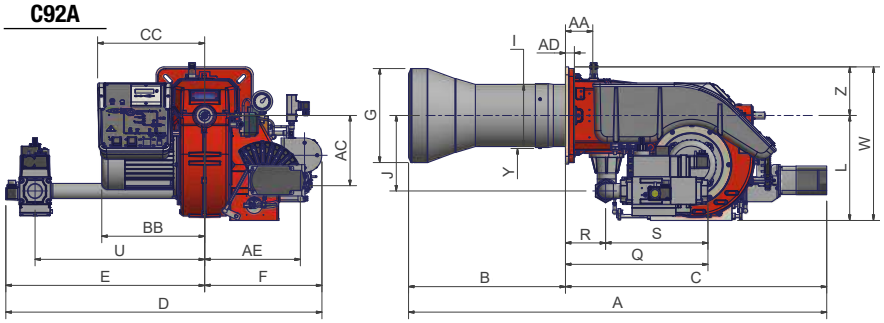


TECHNICAL DETAILS

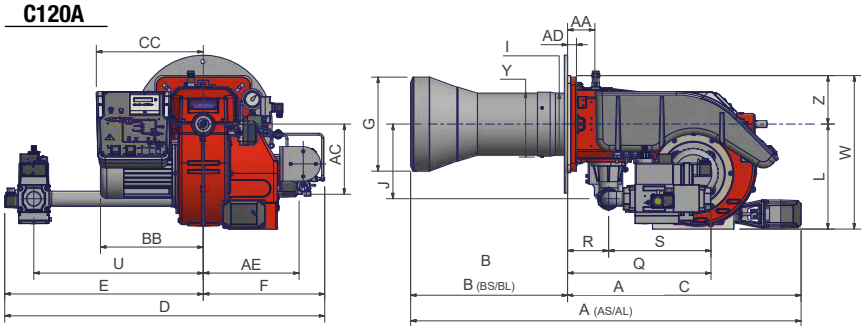
Type	Model	Power kW		Electric power	Fan motor	Pump motor	Gas connections	Noise level
		min.	max.	supply	kW	kW		dBA
C92A	MG.xx.SP.xx.0.xx	250	920	230/400 V 3N ac	1,1	0,55	1"½ - 1"¼ - 2" - DN65	< 80
C120A	MG.xx.SP.xx.0.xx	300	1.200	230/400 V 3N ac	1,5	0,55	1"½ - 2" - DN65 - DN80	< 80

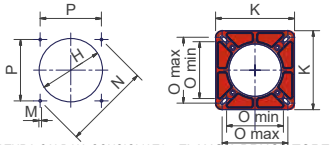
For the configuration of the gas train, see page 101.

C92A



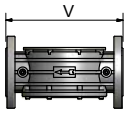
C120A

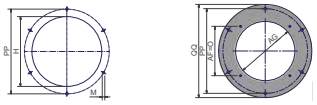




Suggested boiler drilling — *Burner flange*

DN65 - DN80





Suggested boiler drilling — *Counterflange*

Type	Packaging dimensions (mm)			
	l	p	h	kg
C92A	1730	1280	1020	140
C120A	1730	1280	1020	140

Approximate values

Type	Model	Overall dimensions (mm)																																
		AA	AC	AD	AE	AG	A	BB	B	C	CC	D	E	F	G	H	I	J	K	L	M	N	O min.	O max.	P	PP	Q	QQ	R	S	U	V	W	Y	Z
C92A	MG.xx.SP.xx.A.0.32	87	224	28	306	-	1192	328	358	834	342	1008	634	374	240	270	198	241	300	335	M10	330	216	250	233	-	387	-	131	256	541	-	490	162	155
C92A	MG.xx.SP.xx.A.0.40	87	224	28	306	-	1192	328	358	834	342	1008	634	374	240	270	198	241	300	335	M10	330	216	250	233	-	458	-	131	327	541	-	490	162	155
C92A	MG.xx.SP.xx.A.0.50	87	224	28	306	-	1192	328	358	834	342	1008	634	374	240	270	198	241	300	335	M10	330	216	250	233	-	471	-	131	340	525	-	490	162	155
C92A	MG.xx.SP.xx.A.0.65	87	224	28	306	-	1192	328	358	834	342	1094	720	374	240	270	198	241	300	335	M10	330	216	250	233	-	571	-	131	440	593	292	490	162	155
C120A	MG.xx.SP.xx.A.1.40	87	224	28	306	280	1334	328	500	834	342	993	619	374	300	330	211	238	300	335	M12	330	216	250	233	400	458	440	131	327	541	-	490	198	155
C120A	MG.xx.SP.xx.A.1.50	87	224	28	306	280	1334	328	500	834	342	993	619	374	300	330	211	238	300	335	M12	330	216	250	233	400	469	440	131	338	541	-	490	198	155
C120A	MG.xx.SP.xx.A.1.65	87	224	28	306	280	1334	328	500	834	342	1064	690	374	300	330	211	284	300	335	M12	330	216	250	233	400	539	440	131	408	565	292	490	198	155
C120A	MG.xx.SP.xx.A.1.80	87	224	28	306	280	1334	328	500	834	342	1064	690	374	300	330	211	284	300	335	M12	330	216	250	233	400	559	440	131	428	565	310	490	198	155

Approximate values

MECHANICAL OPERATION

Model	Gas train	Operation	C92A...SP		C120A ...SP	
			Code	Price €	Code	Price €
MG.AB.SP.xx.A.0.32	1"¼	AB	033070142		-	
MG.AB.SP.xx.A.0.40	1"½	AB	033070242		033070542	
MG.AB.SP.xx.A.0.50	2"	AB	033070342		033070642	
MG.AB.SP.xx.A.0.65	DN65	AB	033070442		033070742	
MG.AB.SP.xx.A.0.80	DN80	AB	-		033070842	
MG.PR.SP.xx.A.0.32	1"¼	PR (*)	033070143		-	
MG.PR.SP.xx.A.0.40	1"½	PR (*)	033070243		033070543	
MG.PR.SP.xx.A.0.50	2"	PR (*)	033070343		033070643	
MG.PR.SP.xx.A.0.65	DN65	PR (*)	033070443		033070743	
MG.PR.SP.xx.A.0.80	DN80	PR (*)	-		033070843	

(*) Progressive PR control, for modulating version MD add € (see price list)
In the full modulating version MD in order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 174).

In compliance with:
- GAR Directive 2016/426/EU
- Low Tension Directive 2014/35/UE
- Electromagnetic Compatibility Directive 2014/30/UE
- Machinery Directive 2006/42/CE

ELECTRONIC OPERATION

Model	Gas train	Operation	C92A		C120A ...SP	
			Code	Price €	Code	Price €
MG.PR.SP.xx.A.1.32.EC	1"¼	PR (*)	03307015C		-	
MG.PR.SP.xx.A.1.40.EC	1"½	PR (*)	03307025C		03307055C	
MG.PR.SP.xx.A.1.50.EC	2"	PR (*)	03307035C		03307065C	
MG.PR.SP.xx.A.1.65.EC	DN65	PR (*)	03307045C		03307075C	
MG.PR.SP.xx.A.1.80.EC	DN80	PR (*)	-		03307085C	

(*) Progressive PR control, for modulating version MD add € (see price list)
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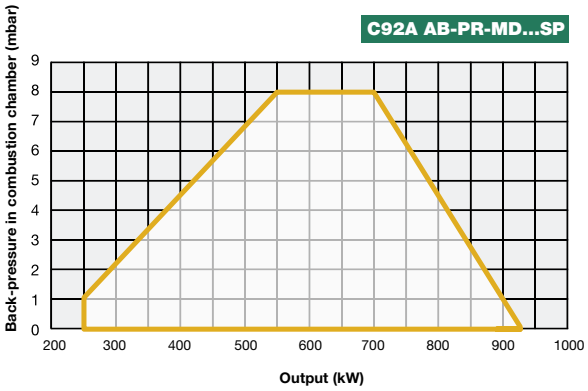
In compliance with:
- GAR Directive 2016/426/EU
- Low Tension Directive 2014/35/UE
- Electromagnetic Compatibility Directive 2014/30/UE
- Machinery Directive 2006/42/CE

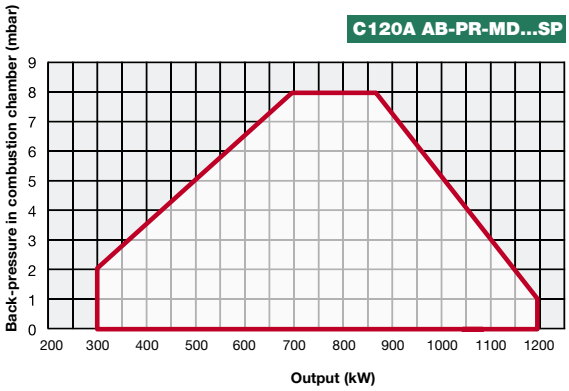
ELECTRONIC OPERATION

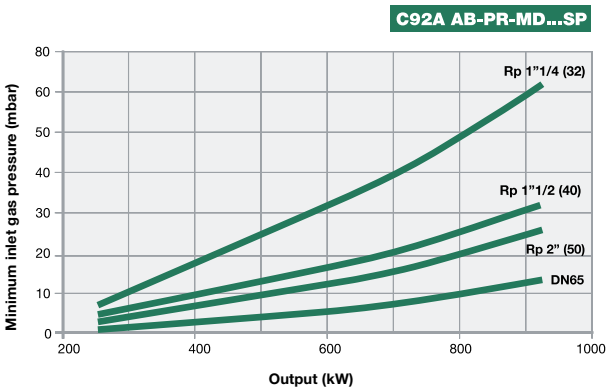
Model	Gas train	Operation	C92A		C120A ...SP	
			Code	Price €	Code	Price €
MG.MD.SP.xx.A.1.32.ES	1"¼	MD (**)	03307015S		-	
MG.MD.SP.xx.A.1.40.ES	1"½	MD (**)	03307025S		03307055S	
MG.MD.SP.xx.A.1.50.ES	2"	MD (**)	03307035S		03307065S	
MG.MD.SP.xx.A.1.65.ES	DN65	MD (**)	03307045S		03307075S	
MG.MD.SP.xx.A.1.80.ES	DN80	MD (**)	-		03307085S	

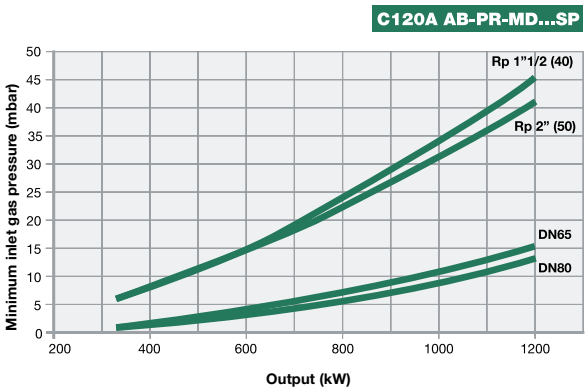
(**) The burners are already MD version.
In order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 174).

In compliance with:
- GAR Directive 2016/426/EU
- Low Tension Directive 2014/35/UE
- Electromagnetic Compatibility Directive 2014/30/UE
- Machinery Directive 2006/42/CE









Attention: the graph shows the value of the gas output (kW) against the corresponding pressure without the combustion chamber back pressure. To know the minimum gas pressure at gas train, in order to get the gas output, it is necessary to add the boiler back pressure to the value read on the curve.

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This is possible because these burners are equipped with an independent electric motor for the activation of the oil pump.
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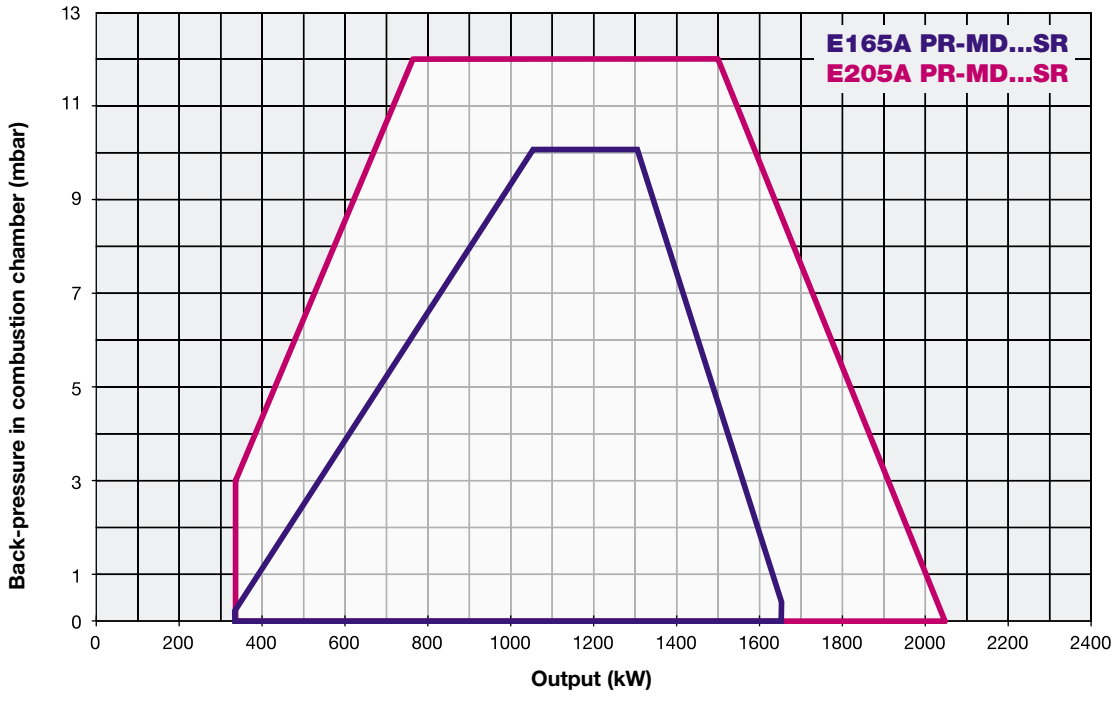
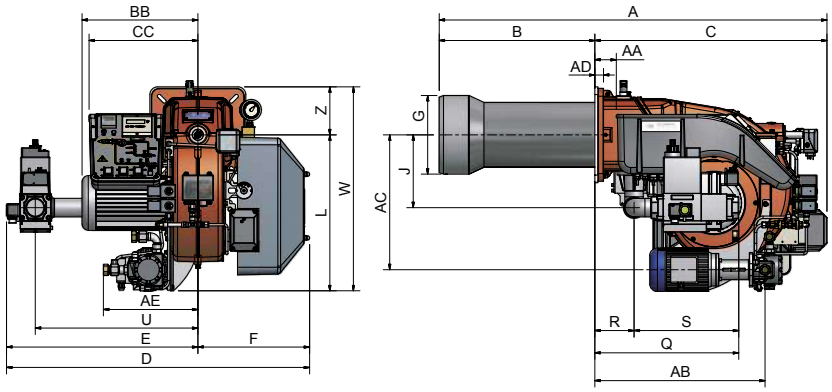
The control panel is printed with a mimic diagram fitted with neon lamps to indicate the different stages of the burner operation. The burner is provided by an UV photocell to detect the flame during operation.



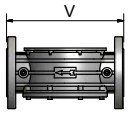
TECHNICAL DETAILS

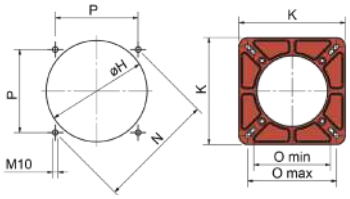
Type	Model	Power kW min.	Power kW max.	Electric power supply	Fan motor kW	Pump motor kW	Gas connections	Noise level dBA
E165A	MG.xx.SR.xx.A.1.xx	320	1.650	230/400 V 3N ac	2,2	0,55	1"½ - 2" - DN65 - DN80	< 75
E205A	MG.xx.SR.xx.A.1.xx	340	2.050	230/400 V 3N ac	3,0	0,55	1"½ - 2" - DN65 - DN80	< 75

For the configuration of the gas train, see page 101.



DN65 - DN80





Suggested boiler drilling *Burner flange*

Type	Packaging dimensions (mm) l	p	h	kg
E165A	1730	1280	1020	160
E205A	1730	1280	1020	160

Approximate values

Type	Model	Overall dimensions (mm) A	AA	AB	B	BB	C	CC	D	E	F	G	H	J	K	L	M	N	O min.	O max.	P	Q	R	S	U	V	W	Z
E165A	MG.xx.SR.xx.A.1.40	1331	69	550	500	372	831	352	1050	716	362	234	264	233	300	503	M10	330	216	250	233	457	130	327	541	-	658	155
E165A	MG.xx.SR.xx.A.1.50	1331	69	550	500	372	831	352	985	651	362	234	264	233	300	503	M10	330	216	250	233	472	130	342	526	-	658	155
E165A	MG.xx.SR.xx.A.1.65	1331	69	550	500	372	831	352	1134	800	362	234	264	233	300	503	M10	330	216	250	233	562	130	432	593	292	658	155
E165A	MG.xx.SR.xx.A.1.80	1331	69	550	500	372	831	352	1108	774	362	234	264	233	300	503	M10	330	216	250	233	562	130	432	565	310	658	155
E205A	MG.xx.SR.xx.A.1.40	1334	69	550	503	403	831	352	1050	716	362	254	270	235	300	503	M10	330	216	250	233	457	130	327	541	-	658	155
E205A	MG.xx.SR.xx.A.1.50	1334	69	550	503	403	831	352	985	651	362	254	270	235	300	503	M10	330	216	250	233	472	130	342	526	-	658	155
E205A	MG.xx.SR.xx.A.1.65	1334	69	550	503	403	831	352	1134	800	362	254	270	235	300	503	M10	330	216	250	233	562	130	432	593	292	658	155
E205A	MG.xx.SR.xx.A.1.80	1334	69	550	503	403	831	352	1108	774	362	254	270	235	300	503	M10	330	216	250	233	558	130	428	565	310	658	155

Approximate values

MECHANICAL OPERATION

Model	Gas train	Operation	E165A...SR Code	E165A...SR Price €	E205A...SR Code	E205A...SR Price €
MG.PR.SR.xx.A.1.40	1"½	PR (*)	030071753		030072153	
MG.PR.SR.xx.A.1.50	2"	PR (*)	030071853		030072253	
MG.PR.SR.xx.A.1.65	DN65	PR (*)	030071953		030072353	
MG.PR.SR.xx.A.1.80	DN80	PR (*)	030072053		030072453	

(*) Progressive PR control, for modulating version MD add € (see price list)
In the full modulating version MD in order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 174).

In compliance with:
- GAR Directive 2016/426/EU
- Low Tension Directive 2014/35/UE
- Electromagnetic Compatibility Directive 2014/30/UE
- Machinery Directive 2006/42/CE

ELECTRONIC OPERATION

Model	Gas train	Operation	E165A...SR Code	E165A...SR Price €	E205A...SR Code	E205A...SR Price €
MG.PR.SR.xx.A.1.40.EC	1"½	PR (*)	03007175C		03007215C	
MG.PR.SR.xx.A.1.50.EC	2"	PR (*)	03007185C		03007225C	
MG.PR.SR.xx.A.1.65.EC	DN65	PR (*)	03007195C		03007235C	
MG.PR.SR.xx.A.1.80.EC	DN80	PR (*)	03007205C		03007245C	

(*) Progressive PR control, for modulating version MD add € (see price list)
In the full modulating version MD in order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 174).

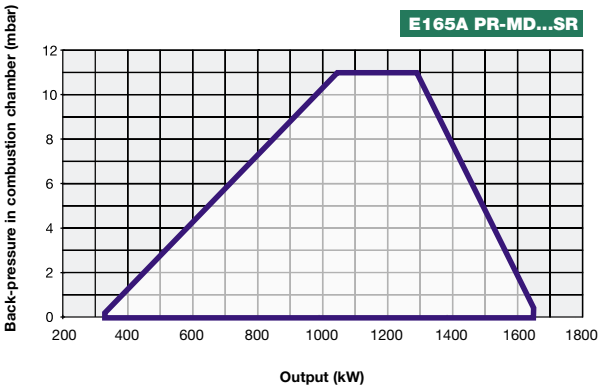
In compliance with:
- GAR Directive 2016/426/EU
- Low Tension Directive 2014/35/UE
- Electromagnetic Compatibility Directive 2014/30/UE
- Machinery Directive 2006/42/CE

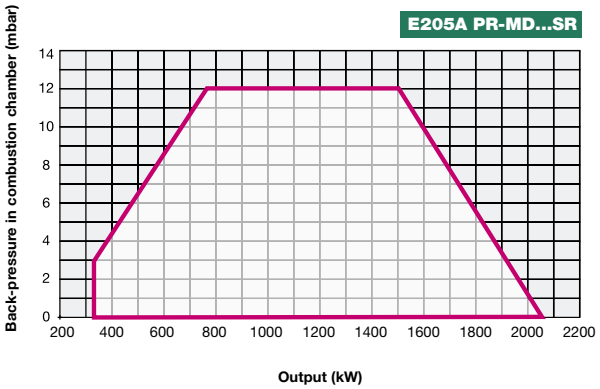
ELECTRONIC OPERATION

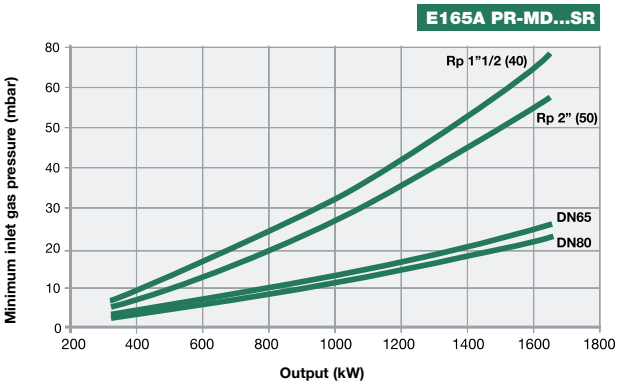
Model	Gas train	Operation	E165A...SR Code	E165A...SR Price €	E205A...SR Code	E205A...SR Price €
MG.MD.SR.xx.A.1.40.ES	1"½	MD (**)	03007175S		03007215S	
MG.MD.SR.xx.A.1.50.ES	2"	MD (**)	03007185S		03007225S	
MG.MD.SR.xx.A.1.65.ES	DN65	MD (**)	03007195S		03007235S	
MG.MD.SR.xx.A.1.80.ES	DN80	MD (**)	03007205S		03007245S	

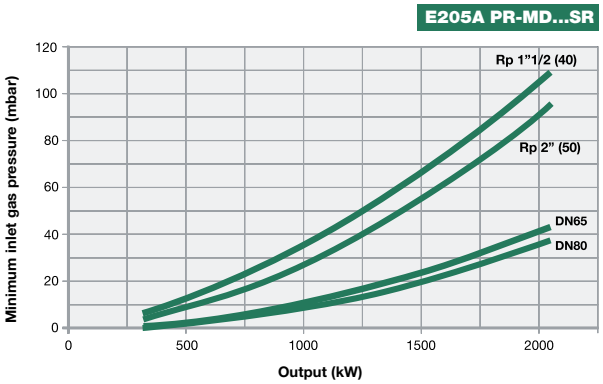
(**) The burners are already MD version.
In order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 174).

In compliance with:
- GAR Directive 2016/426/EU
- Low Tension Directive 2014/35/UE
- Electromagnetic Compatibility Directive 2014/30/UE
- Machinery Directive 2006/42/CE









Attention: the graph shows the value of the gas output (kW) against the corresponding pressure without the combustion chamber back pressure. To know the minimum gas pressure at gas train, in order to get the gas output, it is necessary to add the boiler back pressure to the value read on the curve.

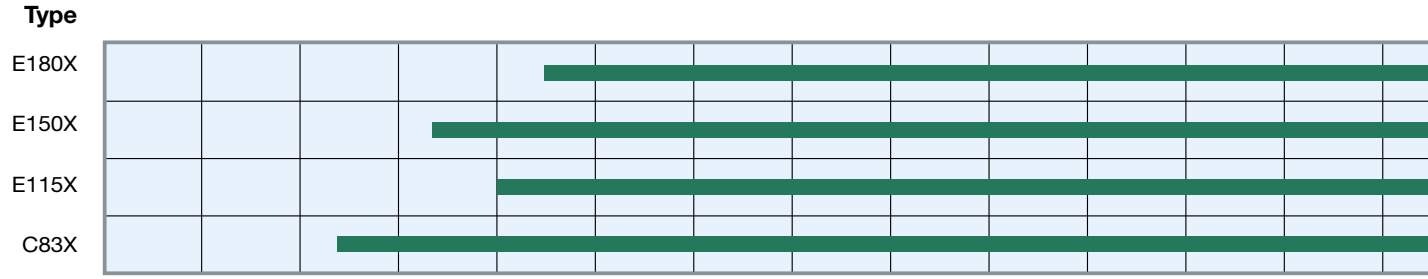
LOW NO_x DUAL FUEL BURNERS NATURAL GAS/LIGHT OIL

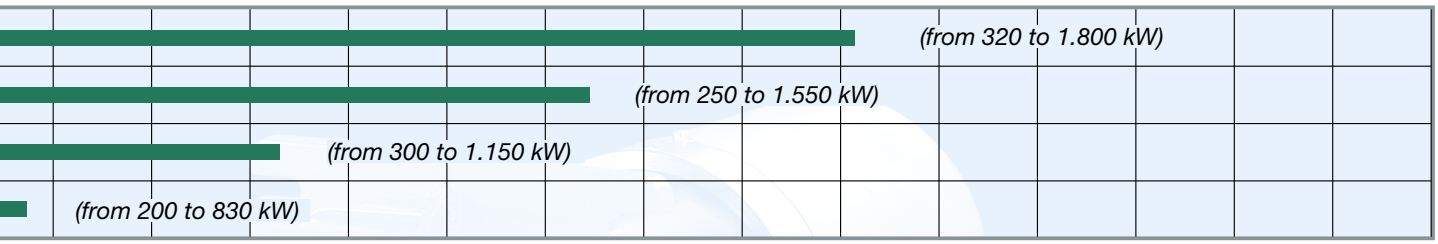
NEW **tecnopress series**

C83X...xP - PR/MD

NEW **tecnopress series**

E115X...xR - PR/MD
E150X...xR - PR/MD
E180X...xR - PR/MD

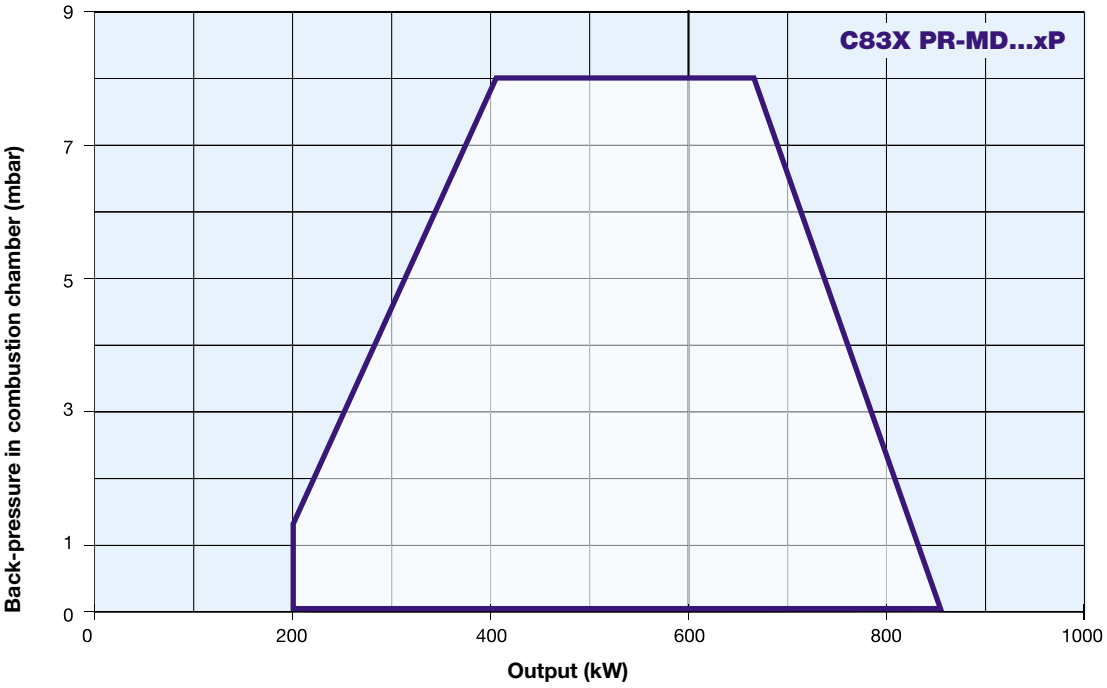



(from 320 to 1.800 kW)
(from 250 to 1.550 kW)
(from 300 to 1.150 kW)
(from 200 to 830 kW)

tecnopress SERIES C83X...xP

GAS/LIGHT OIL

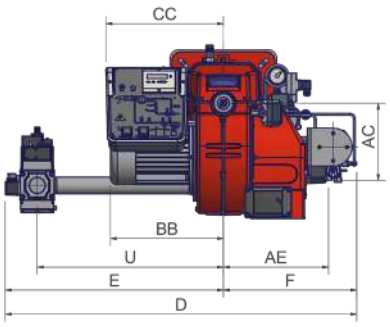
This burner is characterized by the «spiral» line typical of the series TECNOPRESS. It is suitable both for medium and small output up to 830 kW.
Moreover it is suitable to burn either natural gas or light oil, thanks to the adjustable combustion head which allows a good performance with both fuels.
The control panel is printed with a mimic diagram fitted with neon lamps to indicate the different stages of the burner operation and any abnormalities.
Like all the other models, it can work with standard and long combustion head. If the combustion head is shorter than the standard one, a spacer is available to adjust the insertion length into the combustion chamber.
All regulations and setting devices are simple and practical for both fuels thanks to the high quality leverages.
This new series of burners integrates our well known performance and reliability characteristics with the new air inlet system equipped with a silencer and a new combustion head which guarantees low pollutant emissions (gas side < 80mg/kWh Class 3 EN676).

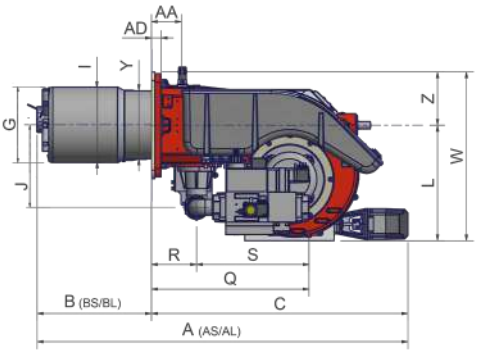


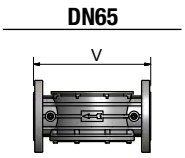
TECHNICAL DETAILS

Type	Model	Power kW		Electric power	Fan motor	Pump motor	Gas connections	Noise level
		min.	max.	supply	kW	kW		dBA
C83X	MG.xx.xP.xx.0.xx	200	830	230/400 V 3N ac	1,1	0,55	1"¼ - 1"½ - 2" - DN65	< 80

For the configuration of the gas train, see page 101.







Type	Packaging dimensions (mm)			
	l	p	h	kg
C83X	1730	1280	1020	140

Approximate values

Type	Model	Overall dimensions (mm)																														
		AA	AC	AD	AE	AS	AL	BB	BS	BL	C	CC	D	E	F	G	H	I	J	K	L	M	N	O		P	Q	R	S	U	V	W	Y	Z
																								min.	max.									
C83X	MG.xx.xP.xx.A.0.32	87	224	28	306	1134	1284	328	300	450	834	342	1008	634	374	240	270	198	241	300	335	M10	330	216	250	233	387	131	256	541	-	490	162	155
C83X	MG.xx.xP.xx.A.0.40	87	224	28	306	1134	1284	328	300	450	834	342	1008	634	374	240	270	198	241	300	335	M10	330	216	250	233	458	131	327	541	-	490	162	155
C83X	MG.xx.xP.xx.A.0.50	87	224	28	306	1134	1284	328	300	450	834	342	1008	634	374	240	270	198	241	300	335	M10	330	216	250	233	471	131	340	525	-	490	162	155
C83X	MG.xx.xP.xx.A.0.65	87	224	28	306	1134	1284	328	300	450	834	342	1094	720	374	240	270	198	241	300	335	M10	330	216	250	233	571	131	440	593	292	490	162	155

Approximate values

MECHANICAL OPERATION

Model	Gas train	Operation	C83X...xP Code	Price €
MG.PR.SP.xx.A.0.32	1"¼	PR	033070943	
MG.PR.SP.xx.A.0.40	1"½	PR	033071143	
MG.PR.SP.xx.A.0.50	2"	PR	033071343	
MG.PR.SP.xx.A.0.65	DN65	PR	033071543	

SP = Standard combustion head (BS)
LP = For long combustion head version (BL) increase the price (see price list)
(*) Progressive PR control, for modulating version MD add € (see price list)
In the full modulating version MD in order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 174).

In compliance with:
- GAR Directive 2016/426/EU
- Low Tension Directive 2014/35/UE
- Electromagnetic Compatibility Directive 2014/30/UE
- Machinery Directive 2006/42/CE

ELECTRONIC OPERATION

Model	Gas train	Operation	C83X...xP Code	Price €
MG.PR.SP.xx.A.1.32.EC	1"¼	PR	03307095C	
MG.PR.SP.xx.A.1.40.EC	1"½	PR	03307115C	
MG.PR.SP.xx.A.1.50.EC	2"	PR	03307135C	
MG.PR.SP.xx.A.1.65.EC	DN65	PR	03307155C	

SP = Standard combustion head (BS)
LP = For long combustion head version (BL) increase the price (see price list)
(*) Progressive PR control, for modulating version MD add € (see price list)
In the full modulating version MD in order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 174).

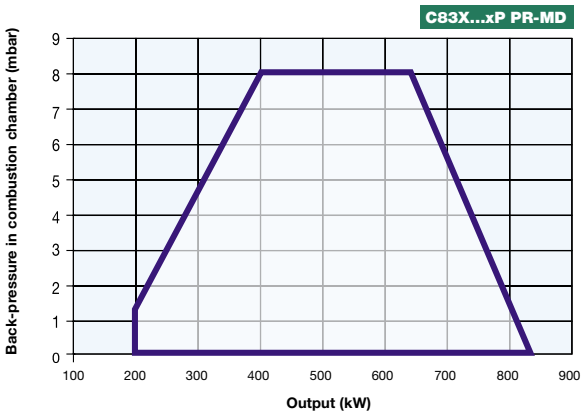
In compliance with:
- GAR Directive 2016/426/EU
- Low Tension Directive 2014/35/UE
- Electromagnetic Compatibility Directive 2014/30/UE
- Machinery Directive 2006/42/CE

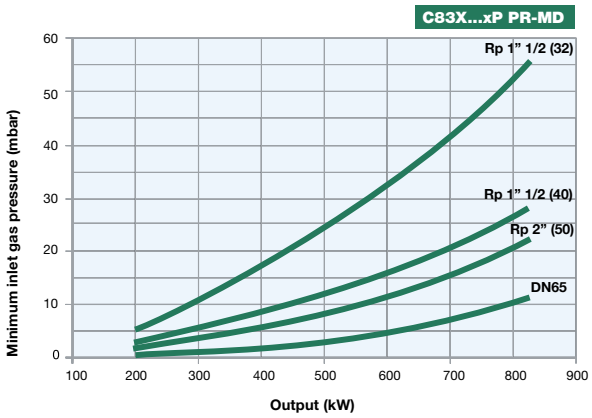
ELECTRONIC OPERATION

Model	Gas train	Operation	C83X...xP Code	Price €
MG.MD.SP.xx.A.1.32.ES	1"¼	MD(*)	03307095S	
MG.MD.SP.xx.A.1.40.ES	1"½	MD(*)	03307115S	
MG.MD.SP.xx.A.1.50.ES	2"	MD(*)	03307135S	
MG.MD.SP.xx.A.1.65.ES	DN65	MD(*)	03307155S	

SP = Standard combustion head (BS)
LP = For long combustion head version (BL) increase the price (see price list)
(**) The burners are already MD version.
In order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 174).

In compliance with:
- GAR Directive 2016/426/EU
- Low Tension Directive 2014/35/UE
- Electromagnetic Compatibility Directive 2014/30/UE
- Machinery Directive 2006/42/CE



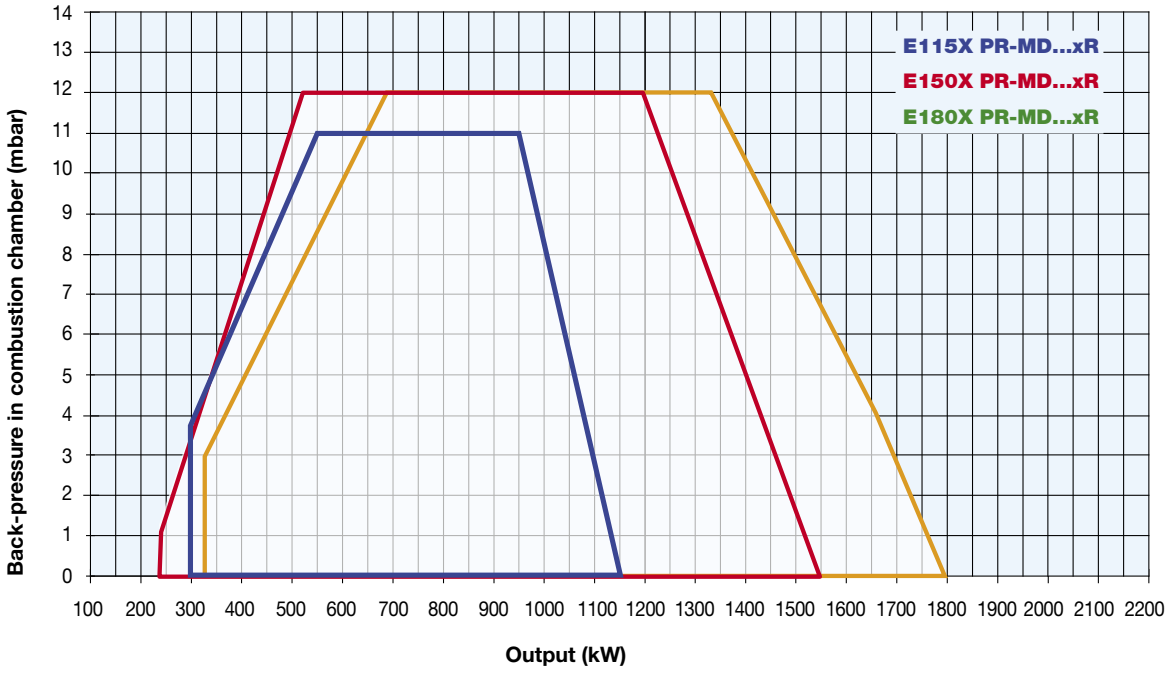


Attention: the graph shows the value of the gas output (kW) against the corresponding pressure without the combustion chamber back pressure. To know the minimum gas pressure at gas train, in order to get the gas output, it is necessary to add the boiler back pressure to the value read on the curve.

tecnopress SERIES E115X E150X E180X...xR

GAS/LIGHT OIL

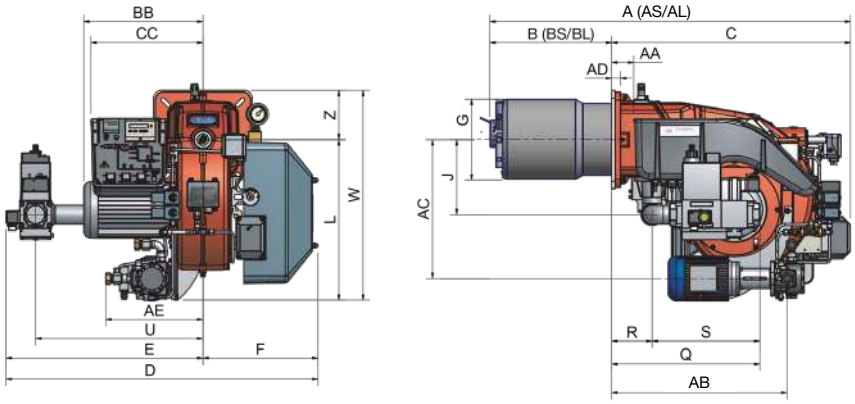
These burners are characterized by the “spiral” line typical of the series TECNOPRESS. They are suitable both for big and for small outputs up to 1900 kW.
Moreover they are suitable to burn either natural gas or light oil thanks to the adjustable combustion head which allows a good performance with both fuels.
The control panel is printed with a mimic diagram fitted with neon lamps to indicate the different stages of the burner operation.
Like all the other models, they can work with standard and long combustion head. If the combustion head is shorter than the standard one, a spacer is available to adjust the insertion length into the combustion chamber. All regulations and settings devices are simple and practical for both fuels thanks to high quality leverages.
This new series of burners integrates the well known performance and reliability characteristics and has the new air inlet system with built-in silencer and the new combustion head which guarantees low pollutant emissions (gas side < 80mg/kWh class 3 EN 676).

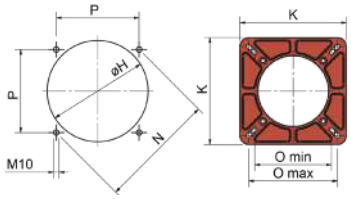


TECHNICAL DETAILS

Type	Model	Power kW		Electric power	Fan motor	Pump motor	Gas connections	Noise level
		min.	max.	supply	kW	kW		dBA
E115X	MG.xx.xR.xx.0.xx	300	1.150	230/400 V 3N ac	2,2	0,55	1"½ - 2" - DN65 - DN80	< 75
E150X	MG.xx.xR.xx.1.xx	250	1.550	230/400 V 3N ac	2,2	0,55	1"½ - 2" - DN65 - DN80	< 75
E180X	MG.xx.xR.xx.1.xx	320	1.800	230/400 V 3N ac	3,0	0,55	1"½ - 2" - DN65 - DN80	< 75

For the configuration of the gas train, see page 101.





Suggested boiler drilling *Burner flange*

Type	Packaging dimensions (mm)			
	l	p	h	kg
E115X	1730	1280	1020	160
E150X	1730	1280	1020	160
E180X*	1730	1280	1020	160

Approximate values
* Approximate values (regarding model with gas train DN 80)

Type	Model	Overall dimensions (mm)																												
		AA	AB	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	Z
																					min.	max.								
E115X	MG.xx.SR.xx.A.0.40	69	550	1170	1255	372	305	390	831	352	925	591	362	210	240	233	300	503	M10	330	216	250	233	457	130	327	541	-	658	155
E115X	MG.xx.SR.xx.A.0.50	69	550	1170	1255	372	305	390	831	352	860	526	362	210	240	233	300	503	M10	330	216	250	233	472	130	342	526	-	658	155
E115X	MG.xx.SR.xx.A.0.65	69	550	1170	1255	372	305	390	831	352	1052	718	362	210	240	233	300	503	M10	330	216	250	233	562	130	432	593	292	658	155
E115X	MG.xx.SR.xx.A.0.80	69	550	1170	1255	372	305	390	831	352	1026	692	362	210	240	233	300	503	M10	330	216	250	233	558	130	428	565	310	658	155
E150X	MG.xx.SR.xx.A.1.40	69	550	1265	1331	372	400	500	831	352	1050	716	362	259	280	233	300	503	M10	330	216	250	233	457	130	327	541	-	658	155
E150X	MG.xx.SR.xx.A.1.50	69	550	1265	1331	372	400	500	831	352	985	651	362	259	280	233	300	453	M10	330	216	250	233	472	130	342	526	-	658	155
E150X	MG.xx.SR.xx.A.1.65	69	550	1265	1331	372	400	500	831	352	1134	800	362	259	280	233	300	453	M10	330	216	250	233	562	130	432	593	292	658	155
E150X	MG.xx.SR.xx.A.1.80	69	550	1265	1331	372	400	500	831	352	1108	774	362	259	280	233	300	453	M10	330	216	250	233	562	130	432	565	310	658	155
E180X	MG.xx.SR.xx.A.1.40	69	550	1265	1365	403	400	500	831	352	1050	716	362	259	280	235	300	420	M10	330	216	250	233	457	130	327	541	-	658	155
E180X	MG.xx.SR.xx.A.1.50	69	550	1265	1365	403	400	500	831	352	985	651	362	259	280	235	300	453	M10	330	216	250	233	472	130	342	526	-	658	155
E180X	MG.xx.SR.xx.A.1.65	69	550	1265	1365	403	400	500	831	352	1134	800	362	259	280	235	300	453	M10	330	216	250	233	562	130	432	593	292	658	155
E180X	MG.xx.SR.xx.A.1.80	69	550	1265	1365	403	400	500	831	352	1108	774	362	259	280	235	300	453	M10	330	216	250	233	558	130	428	565	310	658	155

Approximate values

MECHANICAL OPERATION

Model	Gas train	Operation	E115X...xR		E150X...xR		E180X...xR	
			Code	Price €	Code	Price €	Code	Price €
MG.PR.SR.xx.A.0.40	1"½	PR (*)	030072543		-		-	
MG.PR.SR.xx.A.0.50	2"	PR (*)	030072743		-		-	
MG.PR.SR.xx.A.0.65	DN65	PR (*)	030072943		-		-	
MG.PR.SR.xx.A.0.80	DN80	PR (*)	030073143		-		-	
MG.PR.SR.xx.A.1.40	1"½	PR (*)	-		030074953		030075753	
MG.PR.SR.xx.A.1.50	2"	PR (*)	-		030075153		030075953	
MG.PR.SR.xx.A.1.65	DN65	PR (*)	-		030075353		030076153	
MG.PR.SR.xx.A.1.80	DN80	PR (*)	-		030075553		030076353	

SR = Standard combustion head (BS)
LR = For long combustion head version (BL) increase the price (see price list)
(*) Progressive PR control, for modulating version MD add € (see price list)
In the full modulating version MD in order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 174).
In compliance with:
- GAR Directive 2016/426/EU - Low Tension Directive 2014/35/UE - Electromagnetic Compatibility Directive 2014/30/UE - Machinery Directive 2006/42/CE

ELECTRONIC OPERATION

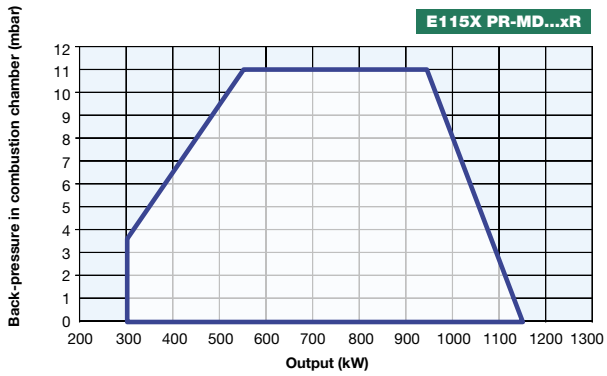
Model	Gas train	Operation	E115X...xR		E150X...xR		E180X...xR	
			Code	Price €	Code	Price €	Code	Price €
MG.PR.SR.xx.A.1.40.EC	1"½	PR (*)	03007255C		03007495C		03007575C	
MG.PR.SR.xx.A.1.50.EC	2"	PR (*)	03007275C		03007515C		03007595C	
MG.PR.SR.xx.A.1.65.EC	DN65	PR (*)	03007295C		03007535C		03007615C	
MG.PR.SR.xx.A.1.80 EC	DN80	PR (*)	03007315C		03007555C		03007635C	

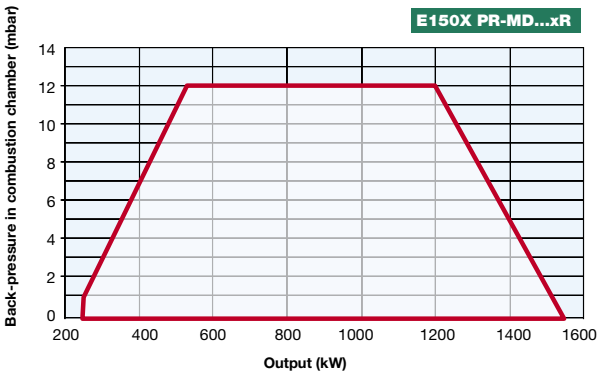
SR = Standard combustion head (BS)
LR = For long combustion head version (BL) increase the price (see price list)
(*) Progressive PR control, for modulating version MD add € (see price list)
In the full modulating version MD in order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 174).
In compliance with:
- GAR Directive 2016/426/EU - Low Tension Directive 2014/35/UE - Electromagnetic Compatibility Directive 2014/30/UE - Machinery Directive 2006/42/CE

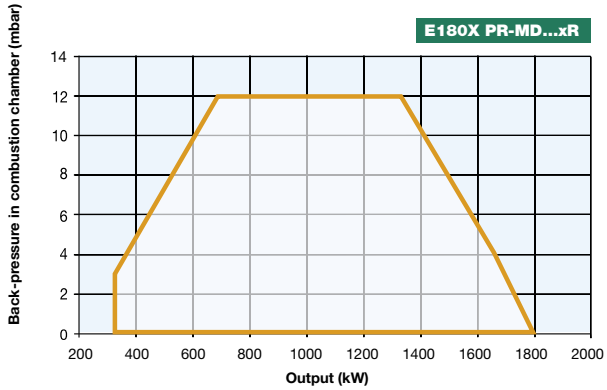
ELECTRONIC OPERATION

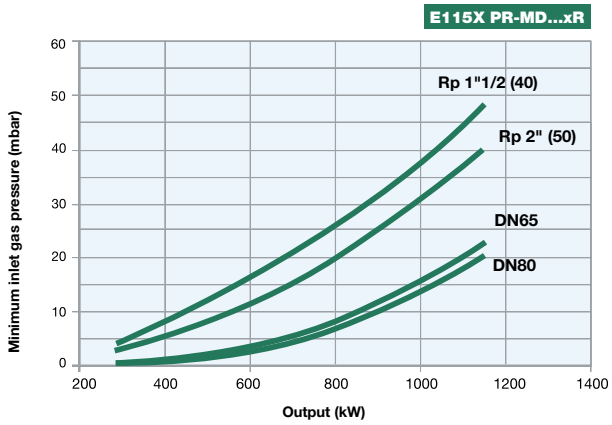
Model	Gas train	Operation	E115X...xR		E150X...xR		E180X...xR	
			Code	Price €	Code	Price €	Code	Price €
MG.MD.SR.xx.A.1.40.ES	1"½	MD (**)	03007255S		03007495S		03007575S	
MG.MD.SR.xx.A.1.50.ES	2"	MD (**)	03007275S		03007515S		03007595S	
MG.MD.SR.xx.A.1.65.ES	DN65	MD (**)	03007295S		03007535S		03007615S	
MG.MD.SR.xx.A.1.80.ES	DN80	MD (**)	03007315S		03007555S		03007635S	

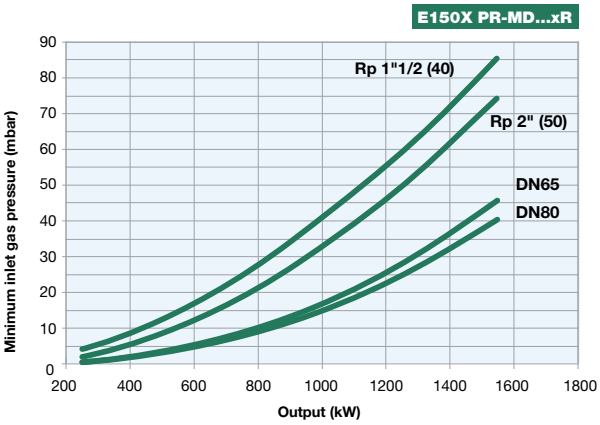
SR = Standard combustion head (BS)
LR = For long combustion head version (BL) increase the price (see price list)
(**) The burners are already MD version.
In order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 174).
In compliance with:
- GAR Directive 2016/426/EU - Low Tension Directive 2014/35/UE - Electromagnetic Compatibility Directive 2014/30/UE - Machinery Directive 2006/42/CE

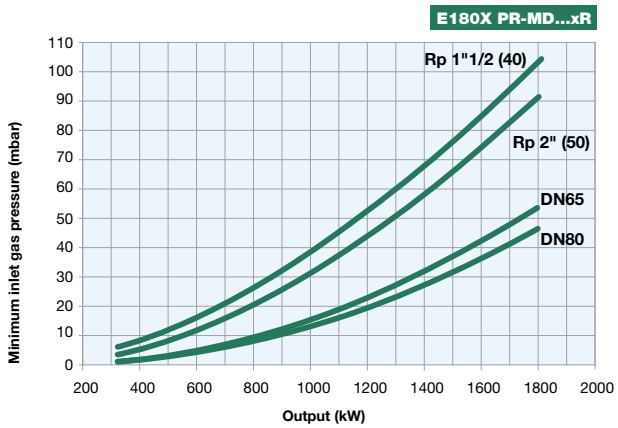












Attention: the graph shows the value of the gas output (kW) against the corresponding pressure without the combustion chamber back pressure. To know the minimum gas pressure at gas train, in order to get the gas output, it is necessary to add the boiler back pressure to the value read on the curve.