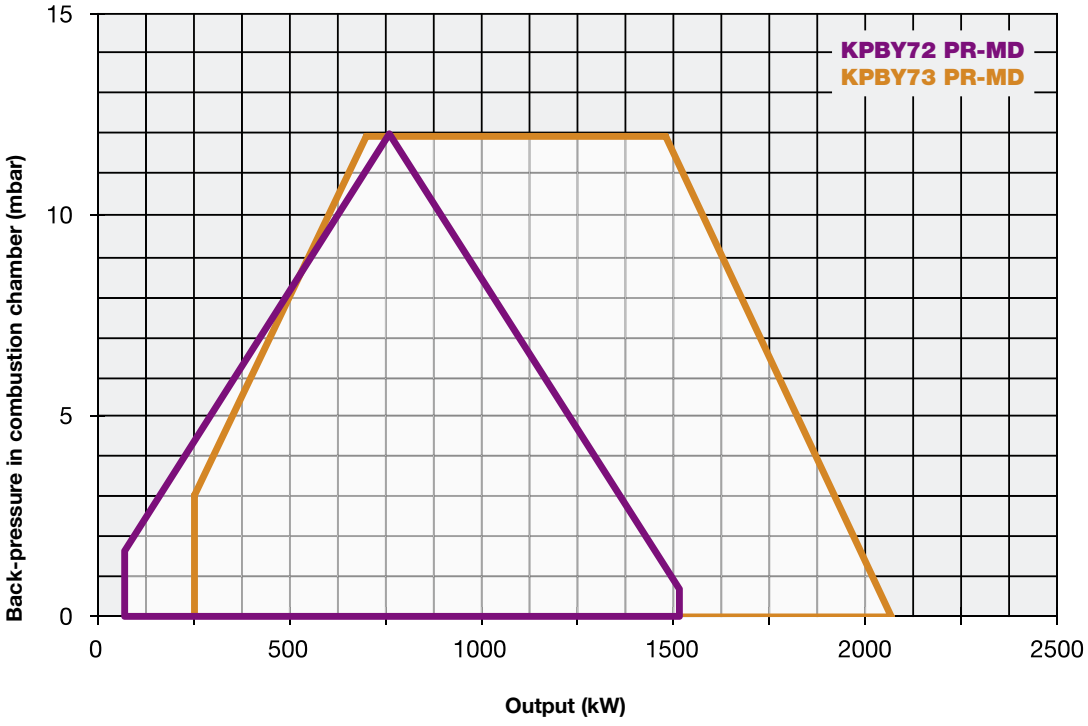
KPBY72 KPBY73 SERIE tecnopress

PNEUMATIC ATOMIZATION WITH ELECTRONIC OPERATION
with viscosity up to 4000 cSt at 50°C (530°E at 50°C)

This particular gas/heavy oil burners series has been developed in order to use compressed air or, alternatively, steam as a fluid to atomize the fuel which gives better combustion results when compared to the traditional atomizing systems.
These burners are provided with a low pressure nozzle which allows consumption levels to be kept low and that limits the general wear of the whole atomization system.
All burners are progressive and are completed with an electrical control cabinet, a pump set, to be installed separately by the final user. The nozzle performs an automatic cleaning process at the end of each cycle.
The plant must be provided with compressed air or steam at 6-10 bar.
Burners are ignited through a pilot which can work both with natural gas or LPG and are suitable to be used with fuels up to 4000 cSt at 50°C (530°E at 50°C).
The standard burner is set up to atomize only with compressed air, when steam is requested for atomization, the burner will be modified through a specific kit. Compressed air must, however, always be present at the burner in the following cases:
- cold start ups when no steam is available
- valve opening for automatic nozzle cleaning

These burners are supplied only in the electronic version in order to optimize the adjustment and to maintain a perfect combustion.



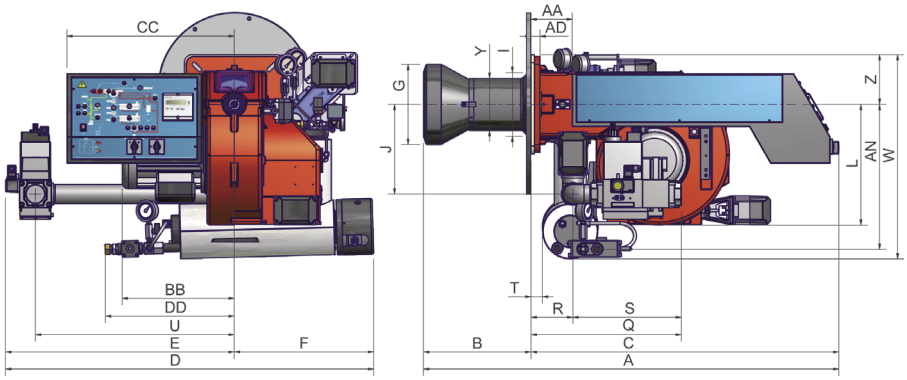
SERIE tecnopress KPBY72 KPBY73

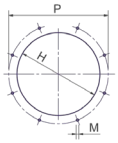
PNEUMATIC ATOMIZATION WITH ELECTRONIC OPERATION
with viscosity up to 4000 cSt at 50°C (530°E at 50°C)

TECHNICAL DETAILS

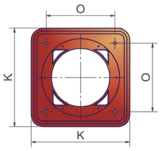
Type	Model	Potenza kW		Alimentazione	Motore ventilatore	Motore pompa	Resistenza olio comb.	Attacchi gas
		min.	max.	elettrica	kW	kW	kW	
KPBY72	MH.xx.S.xx.A.1.xxx	291	1.530	230/400 V 3N ac	2,2	0,75	4,5	2" - DN65 - 80
KPBY73	MH.xx.S.xx.A.1.xxx	320	2.050	230/400 V 3N ac	3,0	0,75	8,0	2" - DN65 - 80

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

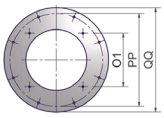




Suggested boiler drilling



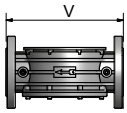
Burner flange



Counterflange

Low pressure pump set (pump, motor and filter) is included, but supplied loose (not assembled on the burner).

DN65 - DN80



Type	Packaging dimensions (mm)			
	l	p	h	kg
KPBY72	1720	1420	1130	370
KPBY73	1720	1420	1130	370

Approximate values

Type	Model	Overall dimensions (mm)																														
		A	AA	AN	B*	BB	C	CC	D	DD	E	F	G	H	J	K	L	M	O		O1	P	R	S	U	V	W	Z	T	Y	PP	QQ
																			min.	max												
KPBY72	MH.xx.x.xx.1.50	1443	150	517	474	373	969	525	1411	470	895	390	320	360	221	300	374	M12	216	250	233	480	150	338	720	-	667	150	43	210	440	480
KPBY72	MH.xx.x.xx.1.65	1443	150	517	474	373	969	525	1400	470	884	390	320	360	456	300	374	M12	216	250	233	480	150	483	678	292	667	150	43	210	440	480
KPBY72	MH.xx.x.xx.1.80	1443	150	517	474	373	969	525	1435	470	919	390	320	360	456	300	374	M12	216	250	233	480	150	535	710	322	667	150	43	210	440	480
KPBY73	MH.xx.x.xx.1.50	1493	150	517	524	373	969	525	1411	470	895	387	320	360	221	300	374	M12	216	250	233	480	150	338	720	-	667	150	43	210	440	480
KPBY73	MH.xx.x.xx.1.65	1493	150	517	524	373	969	525	1400	470	884	387	320	360	456	300	374	M12	216	250	233	480	150	483	678	292	667	150	43	210	440	480
KPBY73	MH.xx.x.xx.1.80	1493	150	517	524	373	969	525	1435	470	919	387	320	360	456	300	374	M12	216	250	233	480	150	535	710	322	667	150	43	210	440	480

* The dimension B is reduced by 20 mm with counterflange and gasket.
Approximate values

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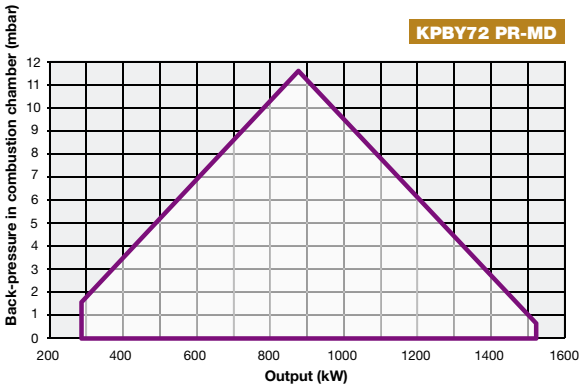
with viscosity up to 4000 cSt at 50°C (530°E at 50°C)

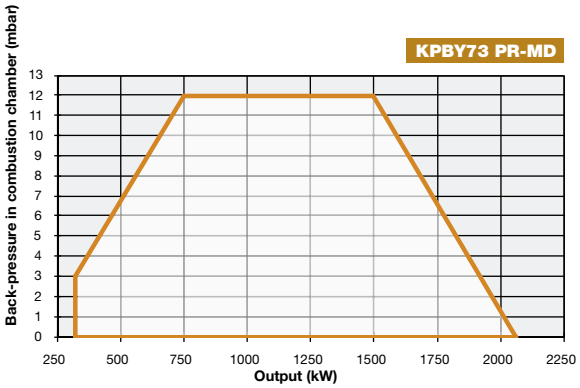
ELECTRONIC OPERATION

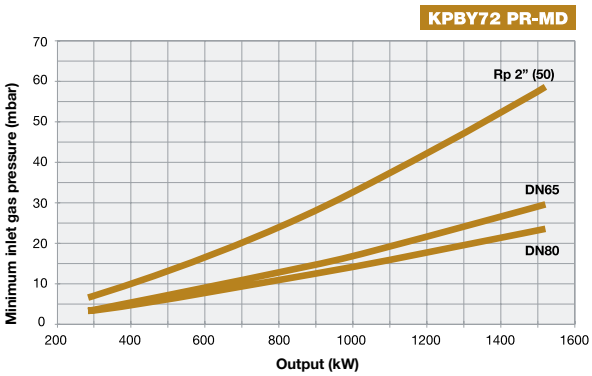
Model	Gas train	Operation	KPBY72 Code	KPBY72 Price €	KPBY73 Code	KPBY73 Price €
HEAVY OIL 4000 cSt at 50°C (530°E at 50°C)						
MH.PR.S.xx.A.1.50.EC	2"	PR	-		-	
MH.PR.S.xx.A.1.65.EC	DN65	PR	-		-	
MH.PR.S.xx.A.1.80.EC	DN80	PR	-		-	

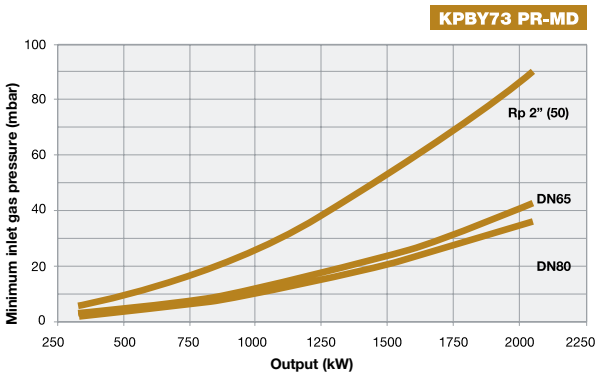
(*) Progressive PR control, for modulating version MD add € (see price list)
In the full modulating version MD in order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 174).

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









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.