

This particular heavy oil burners series has been developed in order to use compressed air or, alternatively, steam as a fluid to atomize the fuel with the aim to accomplish a better combustion result compared to the one gained using the traditional atomizing systems.

These burners are provided with a low pressure nozzle which allows consumption levels to be kept low and which also limits the general wear of the whole atomization system.

All burners are progressive and are completed with an electrical control cabinet and with a pump oil to be installed by the final user. Furthermore, the nozzle performs an automatic cleaning process at the end of each cycle.

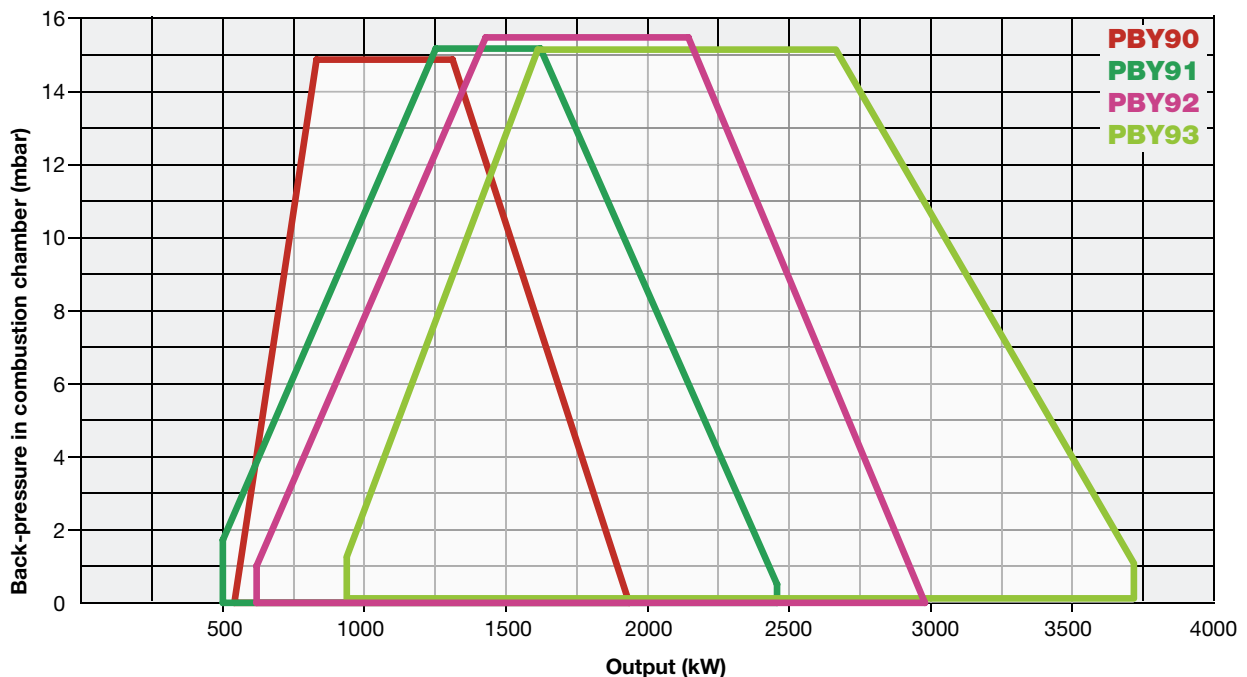
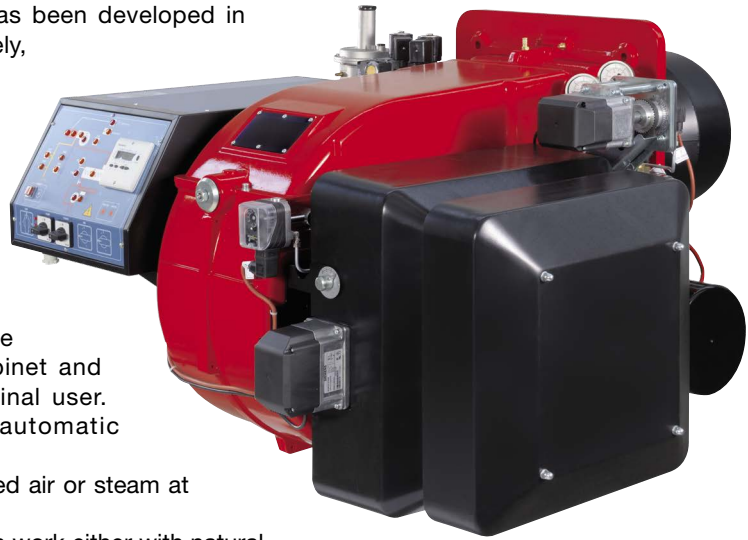
The plant must be provided with compressed air or steam at 6-10 bar.

Burners are ignited through a pilot which can work either with natural gas or LPG and are suitable to be used with fuels with a viscosity up to 4.000 cSt at 50°C (530°E at 50°).

The standard version of burners is set up to atomize only with compressed air, when steam is requested for the atomization, the burner will be modified though a specific kit.

However, compressed air must be always present at the burner in the following cases:

- cold start ups when no steam is available
- valve opening for automatic nozzle cleaning.



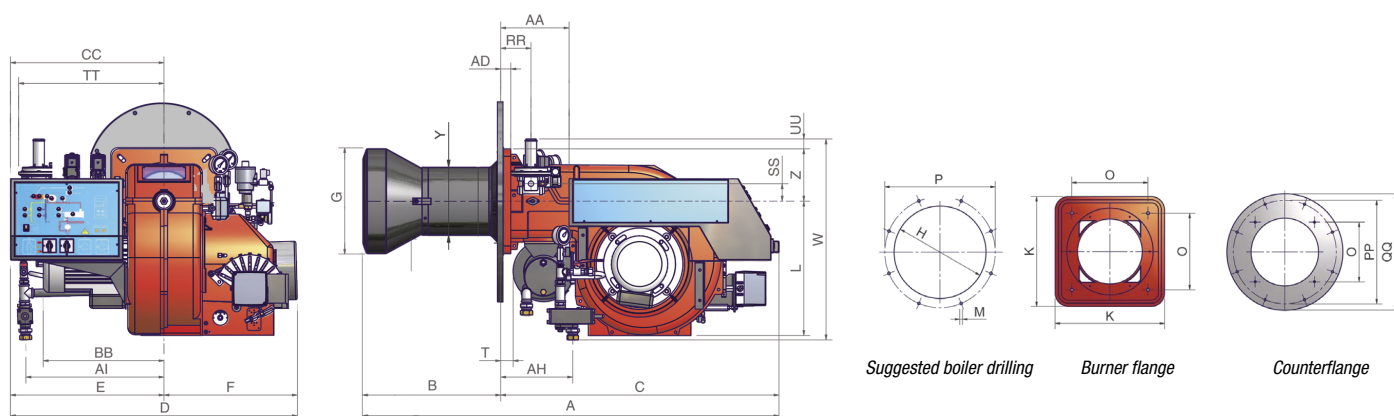
novanta SERIES PBX90 PBX91 PBX92 PBX93

HEAVY OIL

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

TECHNICAL DETAILS

Type	Model	Output kW		Auxiliary electrical power supply	Motor electrical power supply	Fan motor kW	Pump motor kW	Resistor kW
		min.	max.					
PBX90	H-.xx.S.xx.A.xx	670	2.000	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	3,0	0,75	8,0
PBX91	H-.xx.S.xx.A.xx	500	2.500	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	4,0	0,75	8,0
PBX92	H-.xx.S.xx.A.xx	700	3.000	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	5,5	0,75	12,0
PBX93	H-.xx.S.xx.A.xx	900	3.700	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	7,5	0,75	18,0



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

Type	Packaging dimensions (mm)			
	l	p	h	kg
PBX90/91/92	1.730	1.280	1.020	330

Approximate values

Type	Model	Overall dimensions (mm)																														
		A	AA	AD	AH	AI	B	BB	C	CC	D	E	F	G	H	K	L	M	N	O		P	RR	SS	T	TT	UU	W	Y	Z	PP	QQ
																				min.	max.											
PBY90	H-.xx.x.xx.A.xx	1287	237	35	250	479	318	419	964	532	992	532	460	306	346	360	464	M12	424	280	310	500	105	60	43	504	34	693	228	180	500	550
PBY91	H-.xx.x.xx.A.xx	1290	237	35	250	479	321	419	964	532	992	532	460	324	364	360	464	M12	424	280	310	500	105	60	43	504	34	693	228	180	500	550
PBY92	H-.xx.x.xx.A.xx	1296	237	35	250	479	327	419	964	532	992	532	460	365	405	360	464	M12	424	280	310	500	105	60	43	504	34	693	228	180	500	550
PBY93	H-.xx.x.xx.A.xx	1296	237	35	250	479	327	419	964	532	992	532	460	365	405	360	464	M12	424	280	310	500	105	60	43	504	34	693	228	180	500	550

Approximate values

The dimensions B are reduced by 20 mm with counterflange and gasket.

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