

cinquecento SERIES

KRBY512 KRBY515 KRBY520 KRBY525

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, with the aim to achieve 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.

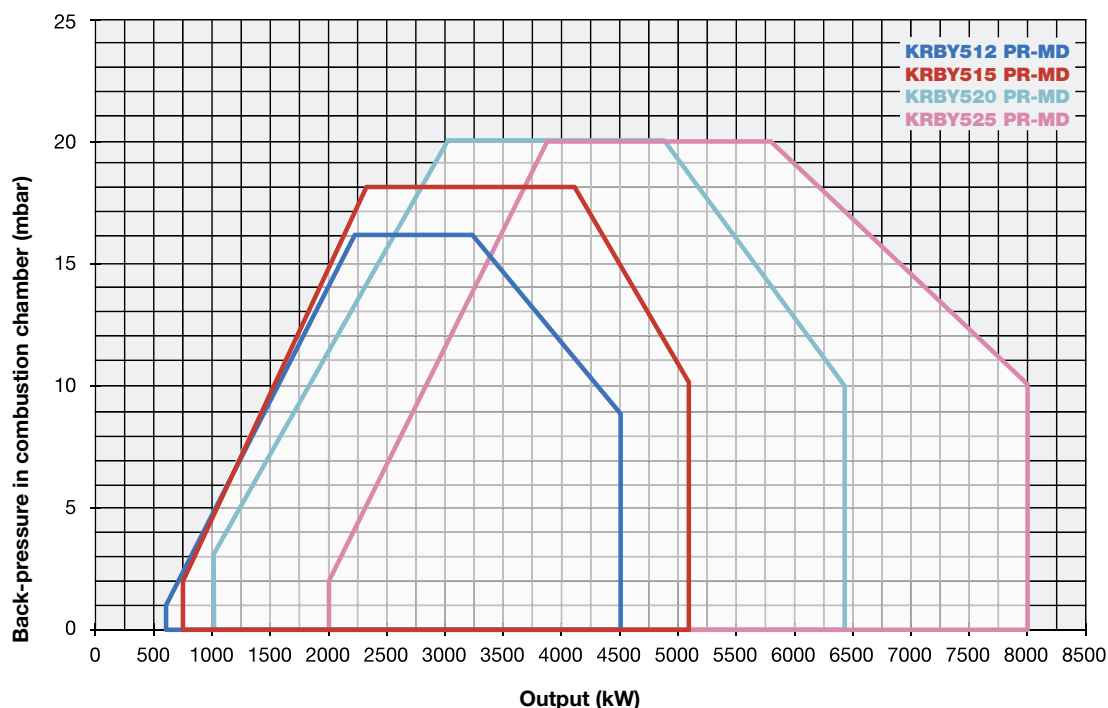
All burners are progressive and are completed with an electrical control cabinet and with a pump oil to be installed by the final user. Furthermore, the nozzle performs an automatic cleaning process at the end of each cycle.

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 with compressed air only; when steam is requested for the atomization, the burner will be modified through 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.



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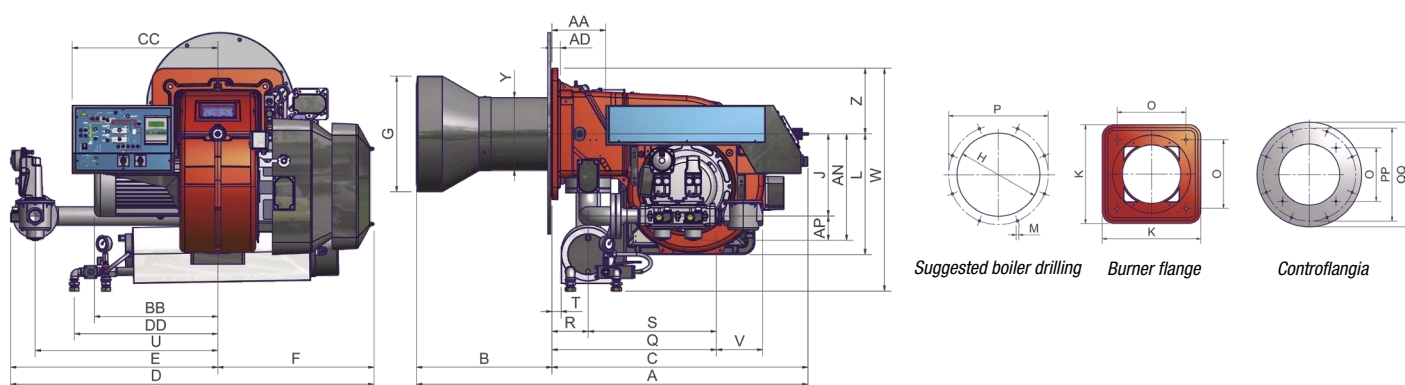
GAS/HEAVY OIL

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TECHNICAL DETAILS

Type	Model	Output kW		Auxiliary electrical power supply	Motor electrical power supply	Fan motor kW	Pump motor kW	Resistor kW	Gas connections Rp	Noise level dBA
		min.	max.							
KRBY512	MH.xx.S.xx.A.1.xxx.xx	600	4.500	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	9,2	0,75	18	2" - DN65 - DN80 - DN100	81,7
KRBY515	MH.xx.S.xx.A.1.xxx.xx	770	5.200	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	11,0	0,75	18	2" - DN65 - DN80 - DN100	82,3
KRBY520	MH.xx.S.xx.A.1.xxx.xx	1.000	6.400	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	15,0	0,75	24	2" - DN65 - DN80 - DN100	83,2
KRBY525	MH.xx.S.xx.A.1.xxx.xx	2.000	8.000	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	18,5	0,75	24	DN65 - DN80 - DN100	84,9

For the configuration of the gas train, see page 112-113.



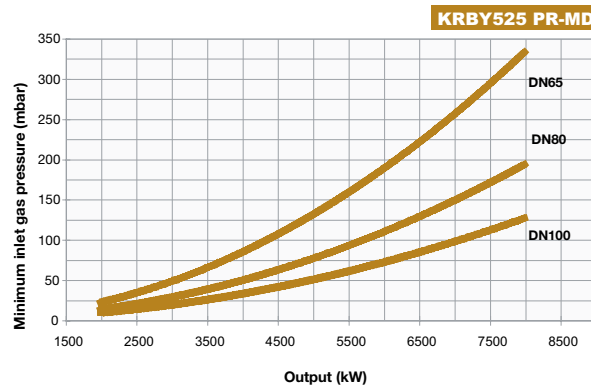
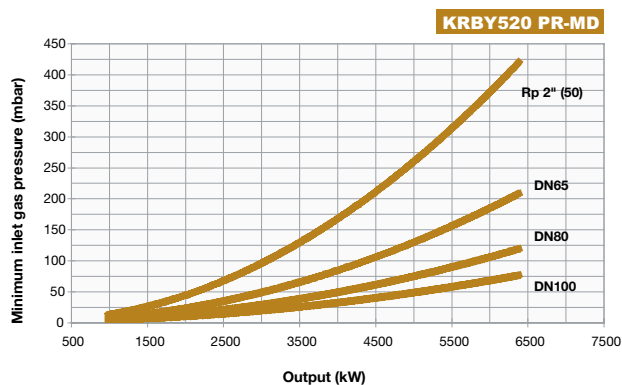
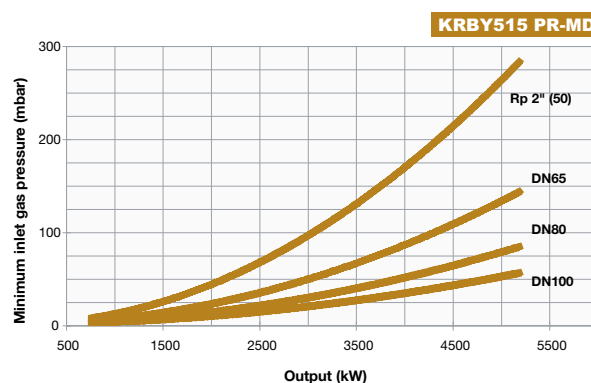
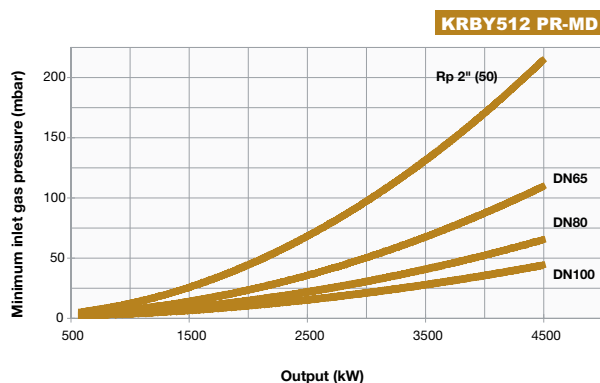
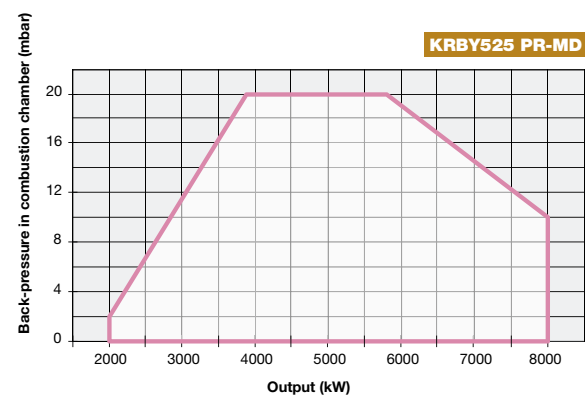
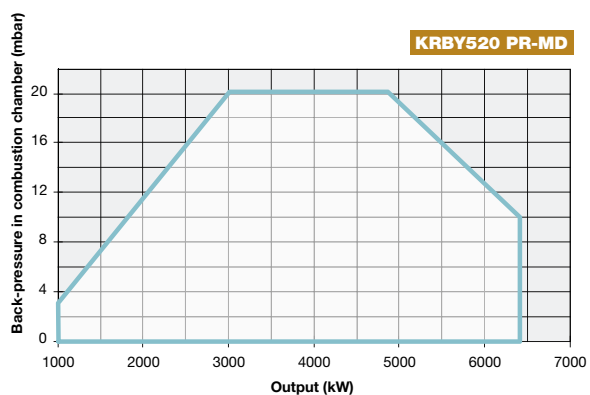
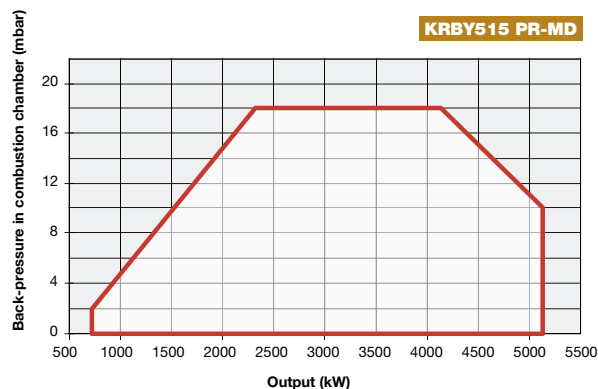
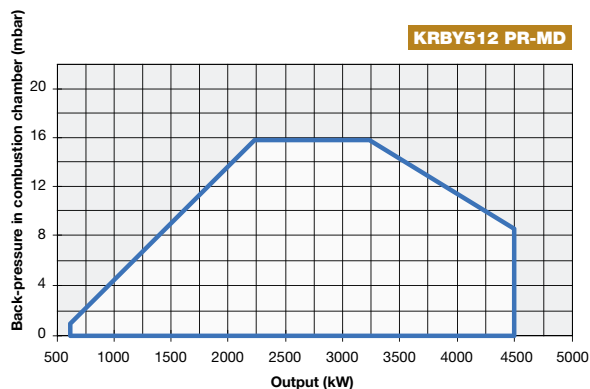
Low pressure pump set (pump, motor and filter) is included, but supplied loose (not assembled on the burner).

Type	Model	Overall dimensions (mm)																													
		DN	A	AA	AN	AP	B*	BB	C	CC	D	E	F	G	H	J	K	L	M	O	P	Q	R	S	U	V	W	Z	Y	PP	QQ
KRBY512	MH.xx.x.xx.A.1.50	50	1660	523	594	100	593	508	1067	636	1512	870	642	500	550	494	540	560	M14	390	800	755	150	605	750	216	916	270	319	800	850
KRBY512	MH.xx.x.xx.A.1.65	65	1660	523	612	118	593	508	1067	636	1517	875	642	500	550	494	540	560	M14	390	800	633	150	485	750	292	916	270	319	800	850
KRBY512	MH.xx.x.xx.A.1.80	80	1660	523	626	132	593	508	1067	636	1624	986	642	500	550	494	540	560	M14	390	800	685	150	535	858	322	916	270	319	800	850
KRBY512	MH.xx.x.xx.A.1.100	100	1660	523	639	145	593	508	1067	636	1727	1085	642	500	550	494	540	560	M14	390	800	792	150	642	942	382	916	270	319	800	850
KRBY515	MH.xx.x.xx.A.1.50	50	1639	523	594	100	572	508	1067	636	1512	870	642	500	550	494	540	560	M14	390	800	755	150	605	750	216	916	270	319	800	850
KRBY515	MH.xx.x.xx.A.1.65	65	1639	523	612	118	572	508	1067	636	1517	875	642	500	550	494	540	560	M14	390	800	633	150	485	750	292	916	270	319	800	850
KRBY515	MH.xx.x.xx.A.1.80	80	1639	523	626	132	572	508	1067	636	1624	986	642	500	550	494	540	560	M14	390	800	685	150	535	858	322	916	270	319	800	850
KRBY515	MH.xx.x.xx.A.1.100	100	1639	523	639	145	572	508	1067	636	1727	1085	642	500	550	494	540	560	M14	390	800	792	150	642	942	382	916	270	319	800	850
KRBY520	MH.xx.x.xx.A.1.50	50	1650	523	594	100	583	508	1067	636	1512	870	642	527	577	494	540	560	M14	390	800	755	150	605	750	216	916	270	328	800	850
KRBY520	MH.xx.x.xx.A.1.65	65	1650	523	612	118	583	508	1067	636	1517	875	642	527	577	494	540	560	M14	390	800	633	150	485	750	292	916	270	328	800	850
KRBY520	MH.xx.x.xx.A.1.80	80	1650	523	626	132	583	508	1067	636	1624	986	642	527	577	494	540	560	M14	390	800	685	150	535	858	322	916	270	328	800	850
KRBY520	MH.xx.x.xx.A.1.100	100	1650	523	639	145	583	508	1067	636	1727	1085	642	527	577	494	540	560	M14	390	800	792	150	642	942	382	916	270	328	800	850
KRBY525	MH.xx.x.xx.A.1.65	65	1619	523	612	118	552	508	1067	636	1517	875	642	572	632	494	540	560	M14	390	800	633	150	485	750	292	916	270	328	800	850
KRBY525	MH.xx.x.xx.A.1.80	80	1619	523	626	132	552	508	1067	636	1624	986	642	572	632	494	540	560	M14	390	800	685	150	535	858	322	916	270	328	800	850
KRBY525	MH.xx.x.xx.A.1.100	100	1619	523	639	145	552	508	1067	636	1727	1085	642	572	632	494	540	560	M14	390	800	792	150	642	942	382	916	270	328	800	850

Approximate values

* The dimension B is reduced by 25 mm with counterflange and gasket.

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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.