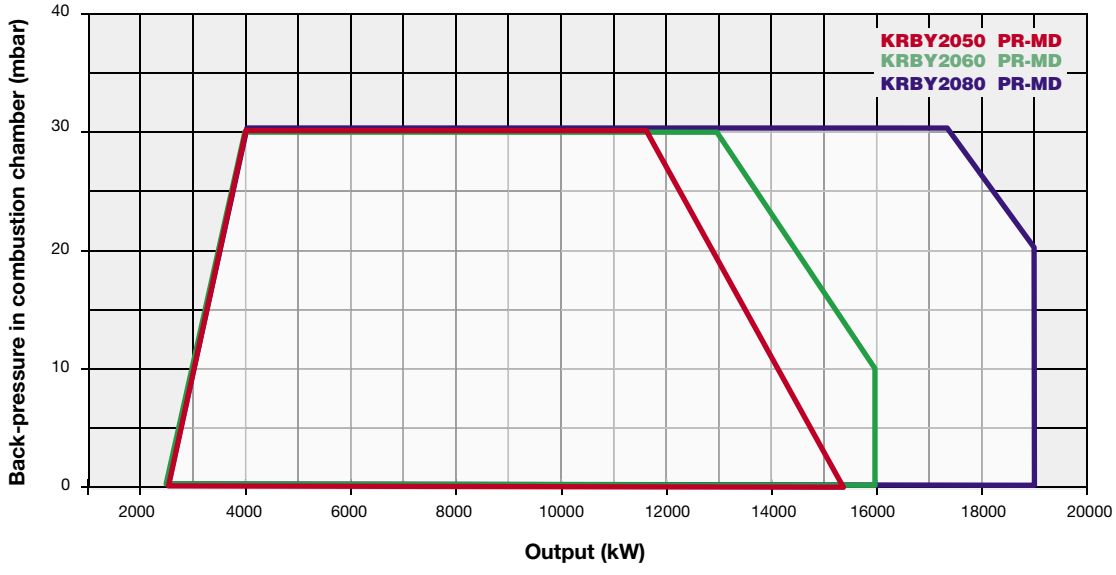
KRBY2050 KRBY2060 KRBY2080 duemila SERIES

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 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.

Oil pump set (pump, motor, oil tank and filter) is included, but supplied loose (not assembled on the burner)



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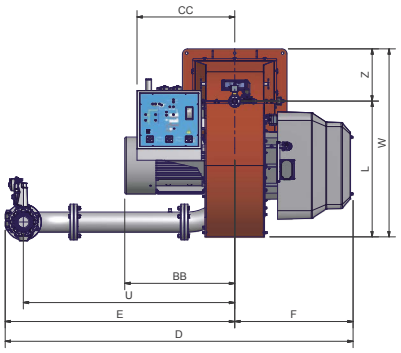
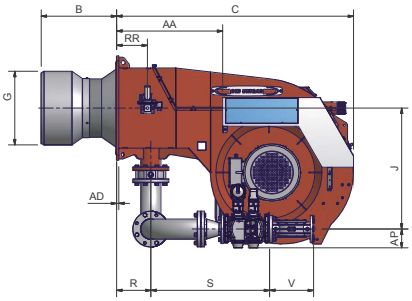
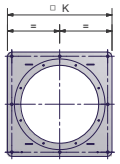
TECHNICAL DETAILS

Type	Model	Output kW		Auxiliary electrical power supply	Motor electrical power supply	Fan motor	Pump motor	Resistor	Gas connections	Noise level
		min.	max.			kW	kW	kW		dBA
KRBY2050	MH.xx.S.xx.A.1.xxx.xx	2.500	15.200	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	37	1,1	24 + 24	DN80 - DN100 - DN125	92,5
KRBY2060	MH.xx.S.xx.A.1.xxx.xx	2.500	16.000	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	45	1,1	24 + 24	DN80 - DN100 - DN125	91,7
KRBY2080	MH.xx.S.xx.A.1.xxx.xx	2.500	19.000	230 V 1N AC 50 Hz	400 V 3 AC 50 Hz	55	1,1	24 + 24	DN100 - DN125	91,7

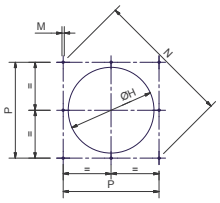
For the configuration of the gas train, see page 112-113.





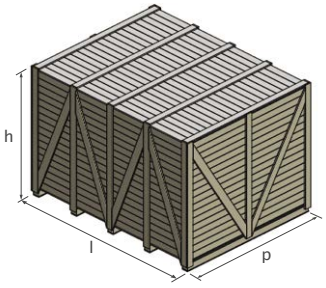


Burner flange



Suggested boiler drilling

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



Type	Packaging dimensions (mm)			
	l	p	h	kg
KRBY2050	2.396	1.886	1.969	1.430
KRBY2060	2.396	1.886	1.969	1.510
KRBY2080	2.396	1.886	1.969	1.610

Approximate values

Type	Model	Overall dimensions (mm)																										
		AA	AC	AD	AE	AP	B	BB	C	CC	D	E	F	G	H	J	K	L	M	N	P	R	RR	S	U	V	W	Z
KRBY2050	MH.xx.S.xx.A.1.80.xx	741	866	15	595	132	*	768	1898	735	2431	1604	827	*	*	845	730	949	M16	948	670	239	215	827	1477	310	1314	365
KRBY2050	MH.xx.S.xx.A.1.100.xx	741	866	15	595	145	*	768	1898	735	2447	1620	827	*	*	845	730	949	M16	948	670	239	215	874	1477	350	1314	365
KRBY2050	MH.xx.S.xx.A.1.125.xx	741	866	15	595	175	*	768	1898	735	2465	1638	827	*	*	845	730	949	M16	948	670	239	215	755	1477	480	1314	365
KRBY2060	MH.xx.S.xx.A.1.80.xx	741	866	15	645	132	*	807	1890	735	2309	1463	846	*	*	775	850	949	M16	1117	790	239	215	827	1336	310	1374	425
KRBY2060	MH.xx.S.xx.A.1.100.xx	741	866	15	645	145	*	807	1890	735	2325	1479	846	*	*	775	850	949	M16	1117	790	239	215	874	1336	350	1374	425
KRBY2060	MH.xx.S.xx.A.1.125.xx	741	866	15	645	175	*	807	1890	735	2343	1497	846	*	*	775	850	949	M16	1117	790	239	215	755	1336	480	1374	425
KRBY2080	MH.xx.S.xx.A.1.100.xx	741	866	15	645	145	*	885	1890	735	2325	1479	846	*	*	775	850	949	M16	1117	790	239	215	874	1336	350	1374	425
KRBY2080	MH.xx.S.xx.A.1.125.xx	741	866	15	645	175	*	885	1890	735	2343	1497	846	*	*	775	850	949	M16	1117	790	239	215	755	1336	480	1374	425

* The B, G, H dimensions must be confirmed from our technical DPT.
Approximate values

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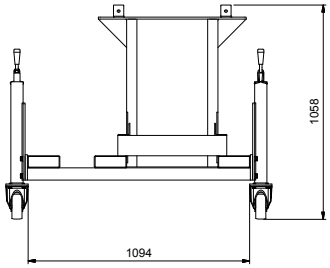
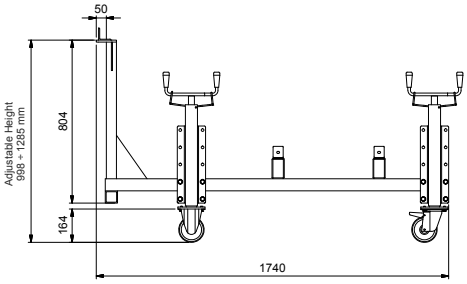
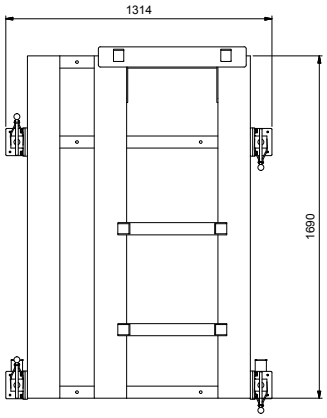
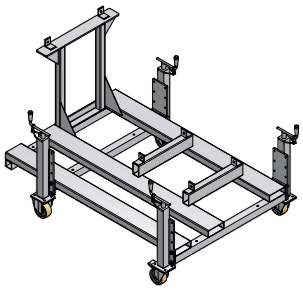
Monoblock burners 2000 series are supplied complete with a steel supporting frame; burner installation and manutention are greatly simplified.
The frame is equipped with wheels to easily move the burner, and its height is adjustable to match any type of boiler or furnace.

SUPPORTING FRAME FOR BURNERS 2050 SERIES

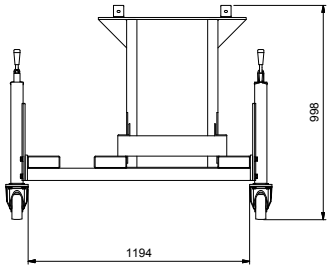


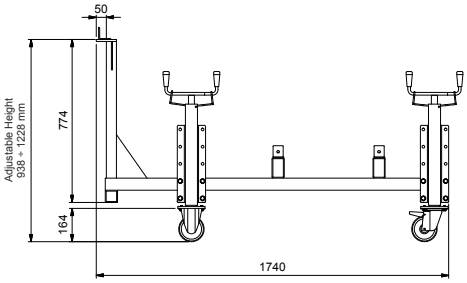


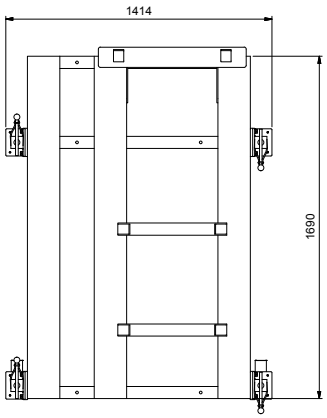


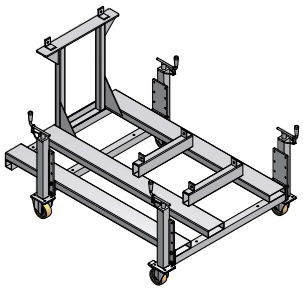


SUPPORTING FRAME FOR BURNERS 2060/2080 SERIES









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PNEUMATIC ATOMIZATION WITH ELECTRONIC OPERATION
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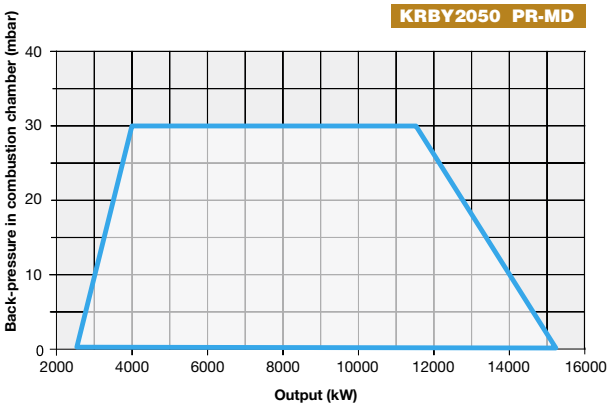
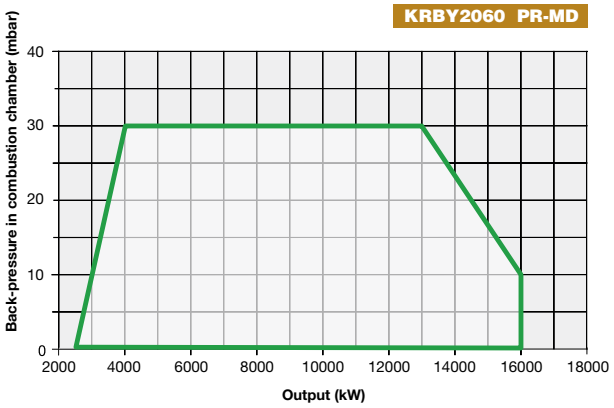
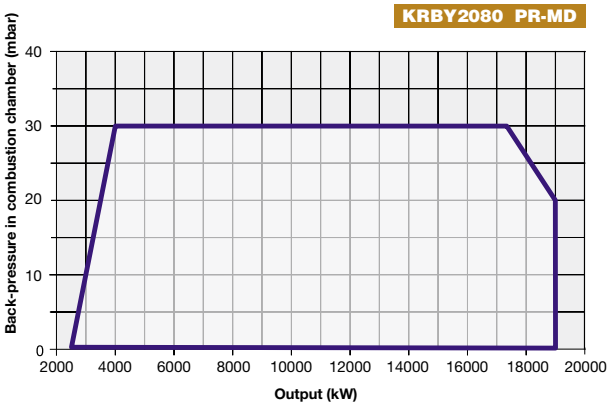
KRBY2050 PR-MD



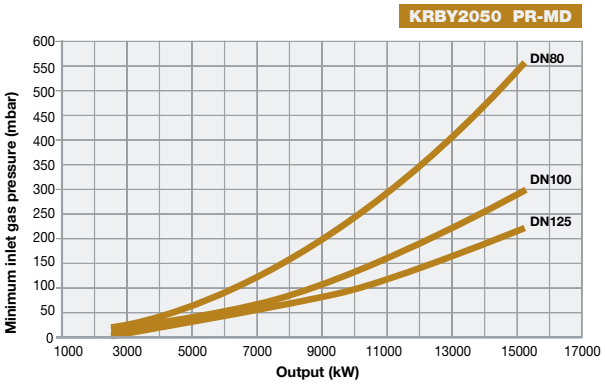
KRBY2060 PR-MD



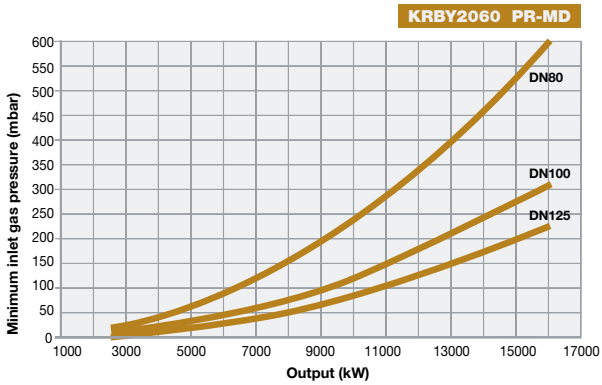
KRBY2080 PR-MD



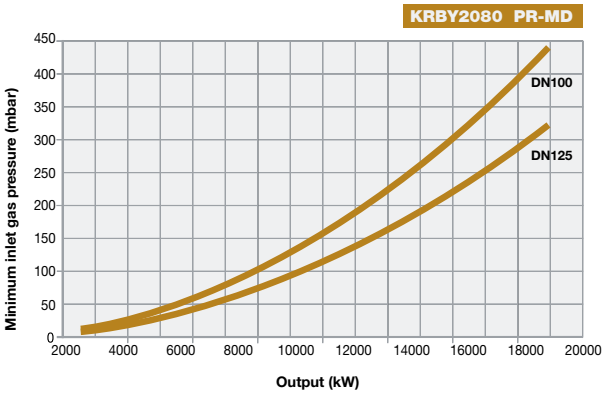
KRBY2050 PR-MD



KRBY2060 PR-MD



KRBY2080 PR-MD



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.