



BURNERS
燃 烧 器



一体式燃烧器(柴油重油天然气)
MONOBLOCK Burners (L O G)



一体式燃烧器(单柴油)
MONOBLOCK Burners (L)



分体式燃烧器
DISSOCIATED Burners



A.B.S. 品牌介绍

早在1972年，ABS的始创人决定要以他们的经验，通过巧夺天工的意大利工艺技术，设计和制造一套结构完善、独一无二的燃烧器和燃烧系统。

这个概念已被发展成现实，ABS已成为一家产品遍布全球的专业燃烧系统设备制造商。截至2016年底，ABS公司已经为5500个客户提供燃烧系统。ABS的设计和工艺方案具有独特创意和非常规思维，以不断创新的专业知识，研制出各类型功能超卓，能高效配合工艺处理程序的燃烧系统。

ABOUT A.B.S.

In 1972, the founders of ABS decided to join their experience in order to create a capable structure aiming at the design and fabrication of absolutely unique burners and combustion systems which were expected to integrate with the most sophisticated Italian technologies.

The concept was developed to such an extent that ABS has now become a world-wide exporter and has already supplied 5500 plants by the end of 2016. ABS's design and fabrication features are based on remarkable and original ideas, and out of standard solutions. ABS manufactures combustion systems of any size, which are based on a constantly innovating know-how and harmonize with the industrial process they interact with.

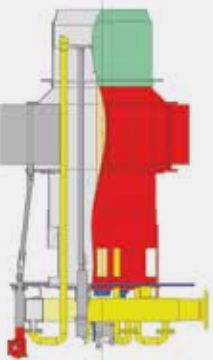
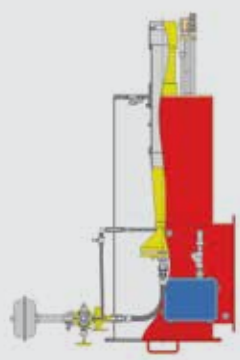
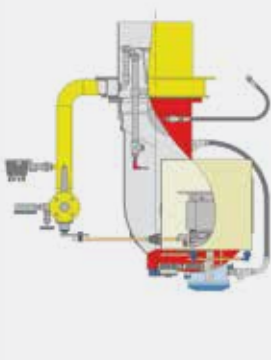
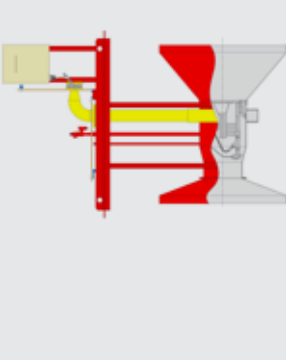
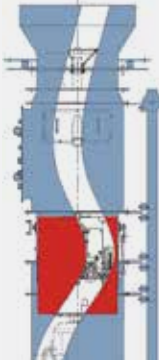


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燃烧器產品列表
Full Burner Series



型号 MODEL		描述 DESCRIPTION							注释 NOTES	
类型 Type	应用 Application	产能 Capacity	电子控制系统 Electronic Cam	空气 AIR	风机 FAN	燃料 FUELS				
分体式 DISSOCIATED	硬纸板生产设备、锅炉 Chipboard Production, Boiler	830,000 kcal/h } 55,030,095 kcal/h	有 YES	热空气 / 环境空气 Hot / Ambient	外置 External	重油 H	柴油 L	燃气 G	煤粉 C	木屑 W
						✓	✓	✓	✓	✓
一体式 MONOBLOCK	各种发动机、干燥筒、烘干箱 All type of Generators, Dryers and Ovens	3,320,000 kcal/h } 26,975,000 kcal/h	有 YES	环境空气 Ambient	内置 Built-In	重油 H	柴油 L	燃气 G	煤粉 C	木屑 W
						✓	✓	✓	✓	✓
分体式 DISSOCIATED	适用于小型导热油炉、小型蒸汽锅炉、砖窑、多层钢厂、钢厂和热空气发动机的地方 Applicable on diatermic oil boilers of small capacity, steam boilers of small capacity, brick ovens, multi-storey steel mills, at areas steel mills and hot air generators	8,300 kcal/h } 1,784,500 kcal/h	无 NO	环境空气 Ambient	外置 External	重油 H	柴油 L	燃气 G	煤粉 C	木屑 W
						✓	✓	✓	✗	✗
分体式 DISSOCIATED	适用于应用密封的燃烧室/火管 Suitable for application with tight combustion chamber/fire tubes	705,500 kcal/h } 10,001,500 kcal/h	有 YES	热空气 / 环境空气 Hot / Ambient	外置 External	重油 H	柴油 L	燃气 G	煤粉 C	木屑 W
						✓	✓	✓	✗	✗
LIB										• 一次只能使用一种燃料 • Operation with only one fuel at time
NTFW YRW										• 三用燃烧器，同一时间最多可使用两种燃料 • 燃烧室温度 350~900 °C • 燃料调节比 1:5 • 燃烧器安装在轮轨，便于维修 • Multi-Fuels, up to 3 fuels in the same burner. up to 2 fuels working at the same time • Combustion chamber temperature from 350~900 °C • Dust turn down ratio 1:5 • Installed on wheels and rails for easy maintenance
MBR										• 可安装铰链或轨道以方便维修 • 设‘长’和‘短’火焰 • Possibility of mounting hinges or rails for maintenance • Configuring of flame long and short
TF/NTF										• 可燃烧多种燃料 • TF型号设置湍流寄存器予火焰旋转 • Multi-Fuels • The TF version is scheduled of turbulence register for the rotation of the flame

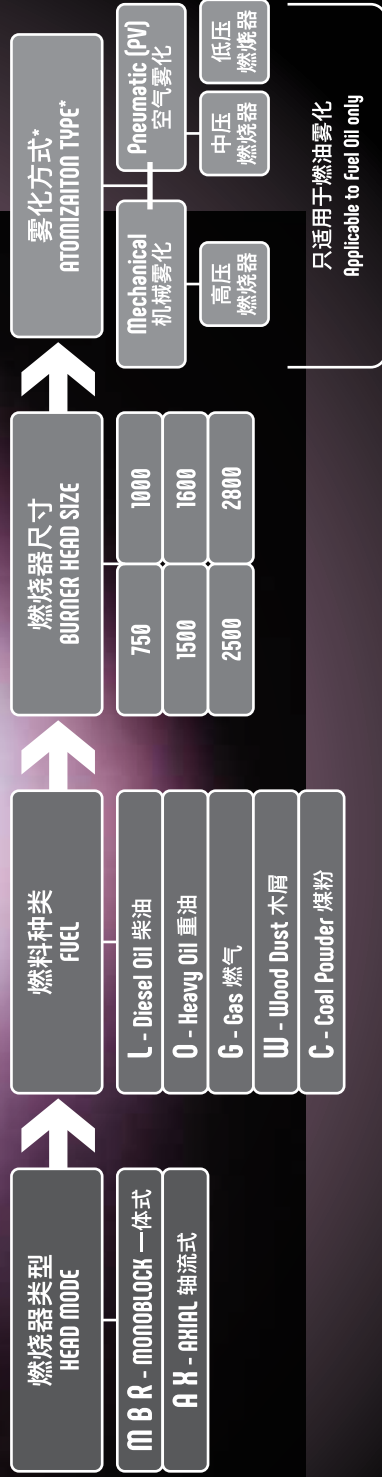
RT		分体式 DISSOCIATED	大型蒸汽发动机 Steam Generator of great capacity	1494,000 kcal/h } 37,350,000 kcal/h	有 YES	热空气 / 环境空气 Hot / Ambient	外置 External	重油 H ☒ 柴油 L ☒ 燃气 G ☒ 煤粉 C ☒ 木屑 W ☒	- 可燃烧多种燃料 - 可安装双寄存器 - 气动或手动操作 - 外置助燃空气箱 - 气体分配器可安装于燃烧器内部或外部 - Multi-Fuels - Possibility of mounting a double register - Pneumatic or manual action - Combustion air box outside - Possibility of gas distributor inside or outside the burner
HP		吸气式 ASPIRATED	燃气加热炉 Gas Heater	23,240 kcal/h } 1,371,160 kcal/h	有 YES	环境空气 Ambient	- -	重油 H ☒ 柴油 L ☒ 燃气 G ☒ 煤粉 C ☒ 木屑 W ☒	- 通过文丘里效应 - 电池点火，火焰检测保持主气体阀打开 - 可选：电极点火、火焰检测紫外线扫描仪 - 表现不佳 / 燃烧控制差 - Working by Venturi effect - Ignition with batteries, no need for electricity, the flame detection keep open the main gas valve - Optional: Ignition by pilot ignition electrode and detection of the flame by UV Scanner - Poor performance / Poor controllability of combustion
BM		一体式 MONOBLOCK	各种发动机、干燥筒、烘干箱 All type of Generators, Dryers and Ovens	622,500 kcal/h } 5,478,000 kcal/h	有 YES	环境空气 Ambient	内置 Built-In	重油 H ☒ 柴油 L ☒ 燃气 G ☒ 煤粉 C ☒ 木屑 W ☒	- 可安装铰链或轨道以方便维修 - Possibility of mounting hinges or rails for maintenance
TG		气管式 AIR VEIN	干燥器 Dryers	1245,000 kcal/h } 10,333,500 kcal/h	有 YES	热空气 / 环境空气 Hot / Ambient	外置 External	重油 H ☒ 柴油 L ☒ 燃气 G ☒ 煤粉 C ☒ 木屑 W ☒	- 燃烧器使用气管里的燃烧空气 - 最低 O₂ 量为 13%、最高温度为 600°C，可外装风机支持燃烧 - 高能量点火 - The burner uses the combustion air that is present in the air passage duct - The lower limit of the O₂ is 13% with a max temperature of 600°C, possible of an external fan to support combustion - Pilot with high energy ignition
AX		轴流式 AXIAL	沥青搅拌站干燥筒 (使用液态燃料) Asphalt Plant Dryer (with liquid fuels)	7,360,000 kcal/h } 22,080,000 kcal/h	有 YES	环境空气 Ambient	内置 Built-In	重油 H ☒ 柴油 L ☒ 燃气 G ☒ 煤粉 C ☒ 木屑 W ☒	- 可安装铰链或轨道以方便维修 - 设‘长’和‘短’火焰 - Possibility of mounting hinges or rails for maintenance - Configuring of flame long and short

燃烧器产品系列型号 Burners Series



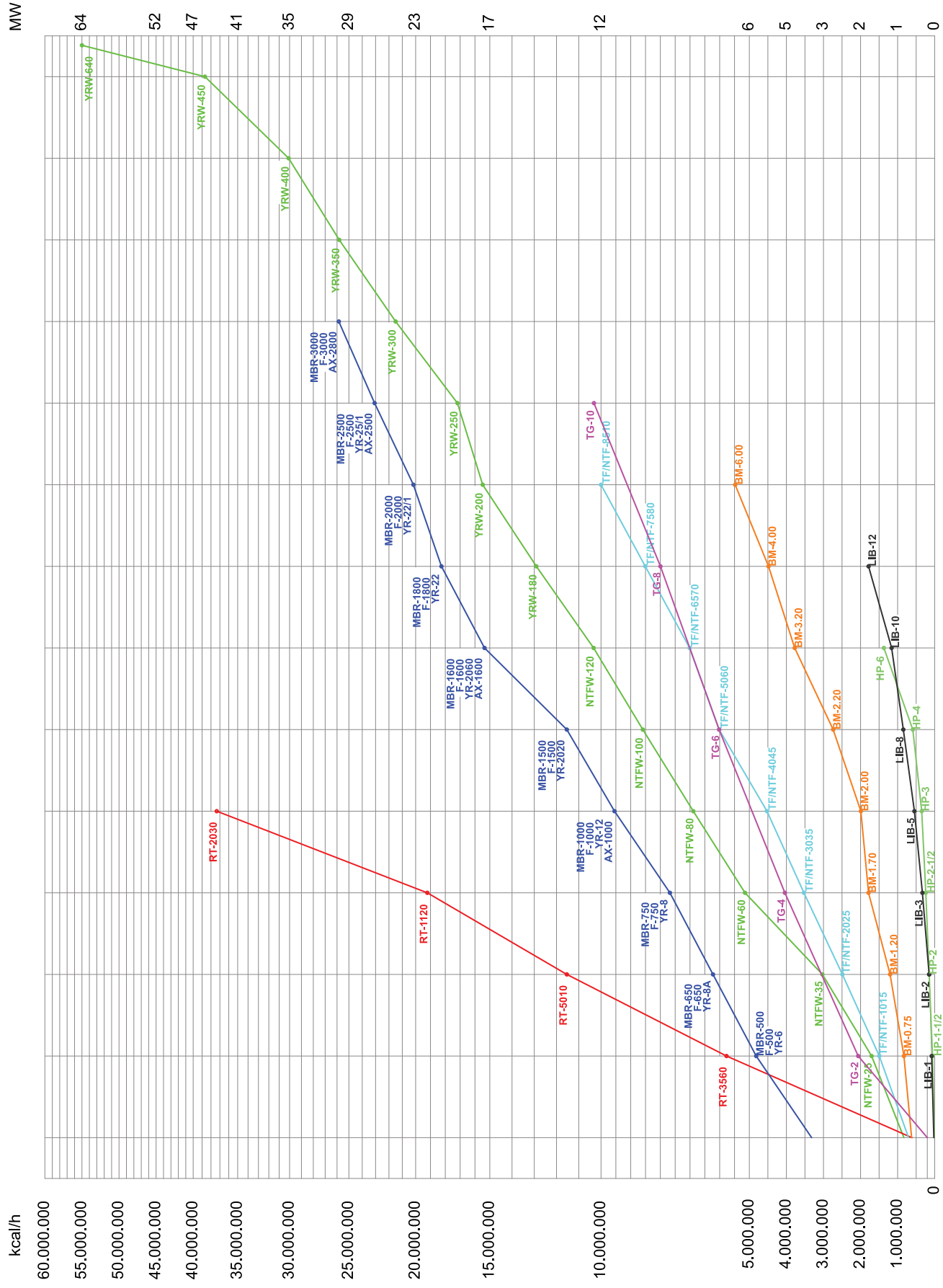
R T	M B R	N T F W	T F / N T F	T G	B M	L I B	H P	A H
RT-3560	M8R-500	NTFW-25	TF/NTF-1015	TG-2	BM-0.75	LIB-1	HP-1½	1000
RT-500	M8R-650	NTFW-35	TF/NTF-2025	TG-4	BM-1.20	LIB-2	HP-2	1600
RT-1120	M8R-750	NTFW-60	TF/NTF-3035	TG-6	BM-1.70	LIB-3	HP-2½	2500
RT-2030	M8R-1000	NTFW-80	TF/NTF-4045	TG-8	BM-2.00	LIB-5	HP-3	2800
	M8R-1500	NTFW-100	TF/NTF-5060	TG-10	BM-2.20	LIB-8	HP-4	
	M8R-1600	NTFW-120	TF/NTF-6570		BM-3.20	LIB-10	HP-6	
	M8R-1800	NTFW-180	TF/NTF-7580		BM-4.00	LIB-12		
	M8R-2000	NTFW-200	TF/NTF-8510		BM-6.00			
	M8R-2500	NTFW-250						
	M8R-3000	NTFW-300						
		NTFW-350						
		NTFW-400						
		NTFW-450						
		NTFW-640						

燃烧器型号 (沥青搅拌设备专用) How to Read the Model No.



- e.g. (1) M8R-W0L-1500-PV / 一体式1500型 木屑重油柴油燃烧器 (中压)
 (2) AH-OL-2500-PV / 轴流式2500型 柴油重油燃烧器 (低压)
 (3) AH-G-2800-PV / 轴流式2800型 燃气燃烧器 (低压)
 (4) M8R-OG-1600 / 一体式1600型 柴油重油燃气燃烧器 (高压)

燃烧器性能参数 Burners Capacity





一体式燃烧器参数表 Technical Data - Burners

高压燃烧器 (重油+柴油 Heavy Oil + Diesel Oil)

机械雾化 Mechanical Atomization

型号 Model	最大功率 Max. Capacity	风机参数 Fan Capacity		重油 Heavy Oil			柴油 Diesel Oil		
		电压 Voltage	功率 Power	最大耗油量 Max. Fuel Consumption	热值 Calorific Value	压力 Pressure	最大耗油量 Max. Fuel Consumption	热值 Calorific Value	压力 Pressure
MBR ^{OL} 2800	30000 kW	380 V	75 kW	2700 kg/h	40190 kJ/kg	28 bar	2550 kg/h	43950 kJ/kg	25 bar
MBR ^{OL} 2500	26700 kW	380 V	75 kW	2400 kg/h	40190 kJ/kg	28 bar	2190 kg/h	43950 kJ/kg	25 bar
MBR ^{OL} 1600	17900 kW	380 V	37 kW	1600 kg/h	40190 kJ/kg	28 bar	1460 kg/h	43950 kJ/kg	25 bar
MBR ^{OL} 1500	13400 kW	380 V	30 kW	1200 kg/h	40190 kJ/kg	28 bar	1100 kg/h	43950 kJ/kg	25 bar
MBR ^{OL} 1000	11200 kW	380 V	18.5 kW	1000 kg/h	40190 kJ/kg	28 bar	910 kg/h	43950 kJ/kg	25 bar
MBR ^{OL} 750	8900 kW	380 V	15 kW	800 kg/h	40190 kJ/kg	28 bar	730 kg/h	43950 kJ/kg	25 bar

中压燃烧器 (重油+柴油 Heavy Oil + Diesel Oil)

空气雾化 Pneumatic Atomization

型号 Model	最大功率 Max. Capacity	风机参数 Fan Capacity		重油 Heavy Oil			柴油 Diesel Oil		
		电压 Voltage	功率 Power	最大耗油量 Max. Fuel Consumption	热值 Calorific Value	压力 Pressure	最大耗油量 Max. Fuel Consumption	热值 Calorific Value	压力 Pressure
MBR ^{OL} 2800PV	30000 kW	380 V	75 kW	2700 kg/h	40190 kJ/kg	12 bar	2550 kg/h	43950 kJ/kg	12 bar
MBR ^{OL} 2500PV	26700 kW	380 V	75 kW	2400 kg/h	40190 kJ/kg	12 bar	2190 kg/h	43950 kJ/kg	12 bar
MBR ^{OL} 1600PV	17900 kW	380 V	37 kW	1600 kg/h	40190 kJ/kg	12 bar	1460 kg/h	43950 kJ/kg	12 bar
MBR ^{OL} 1500PV	13400 kW	380 V	30 kW	1200 kg/h	40190 kJ/kg	12 bar	1100 kg/h	43950 kJ/kg	12 bar
MBR ^{OL} 1000PV	11200 kW	380 V	18.5 kW	1000 kg/h	40190 kJ/kg	12 bar	910 kg/h	43950 kJ/kg	12 bar
MBR ^{OL} 750PV	8900 kW	380 V	15 kW	800 kg/h	40190 kJ/kg	12 bar	730 kg/h	43950 kJ/kg	12 bar

一体式燃烧器(柴油重油天然气) MONOBLOCK Burners (L O G)





高压燃烧器 (重油+天然气 Heavy Oil + Natural Gas)

机械雾化 Mechanical Atomization

型号 Model	最大功率 Max. Capacity	风机参数 Fan Capacity		重油 Heavy Oil			天然气 Natural Gas		
		电压 Voltage	功率 Power	最大耗油量 Max. Fuel Consumption	热值 Calorific Value	压力 Pressure	最大耗气量 Max. Gas Consumption	热值 Calorific Value	压力 Pressure
MBR0G2800	30000 kW	380 V	75 kW	2700 kg/h	40190 kJ/kg	28 bar	3120 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBR0G2500	26700 kW	380 V	75 kW	2400 kg/h	40190 kJ/kg	28 bar	2780 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBR0G1600	17900 kW	380 V	37 kW	1600 kg/h	40190 kJ/kg	28 bar	1850 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBR0G1500	13400 kW	380 V	30 kW	1200 kg/h	40190 kJ/kg	28 bar	1390 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBR0G1000	11200 kW	380 V	18.5 kW	1000 kg/h	40190 kJ/kg	28 bar	1150 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBR0G750	8900 kW	380 V	15 kW	800 kg/h	40190 kJ/kg	28 bar	925 Nm ³ /h	34750 kJ/Nm ³	0.6 bar

中压燃烧器 (重油+天然气 Heavy Oil + Natural Gas)

空气雾化 Pneumatic Atomization

型号 Model	最大功率 Max. Capacity	风机参数 Fan Capacity		重油 Heavy Oil			天然气 Natural Gas		
		电压 Voltage	功率 Power	最大耗油量 Max. Fuel Consumption	热值 Calorific Value	压力 Pressure	最大耗气量 Max. Gas Consumption	热值 Calorific Value	压力 Pressure
MBR0G2800PV	30000 kW	380 V	75 kW	2700 kg/h	40190 kJ/kg	12 bar	3120 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBR0G2500PV	26700 kW	380 V	75 kW	2400 kg/h	40190 kJ/kg	12 bar	2780 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBR0G1600PV	17900 kW	380 V	37 kW	1600 kg/h	40190 kJ/kg	12 bar	1850 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBR0G1500PV	13400 kW	380 V	30 kW	1200 kg/h	40190 kJ/kg	12 bar	1390 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBR0G1000PV	11200 kW	380 V	18.5 kW	1000 kg/h	40190 kJ/kg	12 bar	1150 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBR0G750PV	8900 kW	380 V	15 kW	800 kg/h	40190 kJ/kg	12 bar	925 Nm ³ /h	34750 kJ/Nm ³	0.6 bar



高压燃烧器 (柴油+天然气 Diesel Oil + Natural Gas)

机械雾化 Mechanical Atomization

型号 Model	最大功率 Max. Capacity	风机参数 Fan Capacity		柴油 Diesel Oil			天然气 Natural Gas		
		电压 Voltage	功率 Power	最大耗油量 Max. Fuel Consumption	热值 Calorific Value	压力 Pressure	最大耗油量 Max. Gas Consumption	热值 Calorific Value	压力 Pressure
MBRLG2800	30000 kW/MAH	380 V	75 kW	2550 kg/h	43950 kJ/kg	25 bar	3120 Nm³/h	34750 kJ/Nm³	0.6 bar
MBRLG2500	26700 kW/MAH	380 V	75 kW	2190 kg/h	43950 kJ/kg	25 bar	2780 Nm³/h	34750 kJ/Nm³	0.6 bar
MBRLG1600	17900 kW/MAH	380 V	37 kW	1460 kg/h	43950 kJ/kg	25 bar	1850 Nm³/h	34750 kJ/Nm³	0.6 bar
MBRLG1500	13400 kW/MAH	380 V	30 kW	1100 kg/h	43950 kJ/kg	25 bar	1390 Nm³/h	34750 kJ/Nm³	0.6 bar
MBRLG1000	11200 kW/MAH	380 V	18.5 kW	910 kg/h	43950 kJ/kg	25 bar	1150 Nm³/h	34750 kJ/Nm³	0.6 bar
MBRLG750	8900 kW/MAH	380 V	15 kW	730 kg/h	43950 kJ/kg	25 bar	925 Nm³/h	34750 kJ/Nm³	0.6 bar

高压燃烧器 (柴油 Diesel Oil)

机械雾化 Mechanical Atomization

型号 Model	最大功率 Max. Capacity	风机参数 Fan Capacity		柴油 Diesel Oil		
		电压 Voltage	功率 Power	最大耗油量 Max. Fuel Consumption	热值 Calorific Value	压力 Pressure
MBRL2800	30000 kW/MAH	380 V	75 kW	2550 kg/h	43950 kJ/kg	25 bar
MBRL2500	26700 kW/MAH	380 V	75 kW	2190 kg/h	43950 kJ/kg	25 bar
MBRL1600	17900 kW/MAH	380 V	37 kW	1460 kg/h	43950 kJ/kg	25 bar
MBRL1500	13400 kW/MAH	380 V	30 kW	1100 kg/h	43950 kJ/kg	25 bar
MBRL1000	11200 kW/MAH	380 V	18.5 kW	910 kg/h	43950 kJ/kg	25 bar
MBRL750	8900 kW/MAH	380 V	15 kW	730 kg/h	43950 kJ/kg	25 bar



燃烧器 (天然气 Natural Gas)

型号 Model	最大功率 Max. Capacity	风机参数 Fan Capacity		天然气 Natural Gas		
		电压 Voltage	功率 Power	最大耗气量 Max. Gas Consumption	热值 Calorific Value	压力 Pressure
MBRG2800	30000 kW/MAH	380 V	75 kW	3120 Nm³/h	34750 kJ/Nm³	0.6 bar
MBRG2500	26700 kW/MAH	380 V	75 kW	2780 Nm³/h	34750 kJ/Nm³	0.6 bar
MBRG1600	17900 kW/MAH	380 V	37 kW	1850 Nm³/h	34750 kJ/Nm³	0.6 bar
MBRG1500	13400 kW/MAH	380 V	30 kW	1390 Nm³/h	34750 kJ/Nm³	0.6 bar
MBRG1000	11200 kW/MAH	380 V	18.5 kW	1150 Nm³/h	34750 kJ/Nm³	0.6 bar
MBRG750	8900 kW/MAH	380 V	15 kW	925 Nm³/h	34750 kJ/Nm³	0.6 bar

一体式燃烧器(柴油重油天然气) MONOBLOCK Burners (L O G)





一体式(煤粉)燃烧器参数表 Technical Data of Coal Powder Burners



高压燃烧器 (煤粉+重油+柴油 Coal Powder + Heavy Oil + Diesel Oil)

机械雾化 Mechanical Atomization

型号 Model	最大功率 Max. Capacity	风机参数 Fan Capacity		煤粉 Coal Powder			重油 Heavy Oil			柴油 Diesel Oil		
		电压 Voltage	功率 Power	最大耗煤量 Max. Coal Consumption	热值 Calorific Value	压力 Pressure	最大耗油量 Max. Fuel Consumption	热值 Calorific Value	压力 Pressure	最大耗油量 Max. Fuel Consumption	热值 Calorific Value	压力 Pressure
MBRCOL2800	30000 kW/MAH	380 V	75 kW	5732 kg/h	18837 kJ/kg	0.035 bar	2700 kg/h	40190 kJ/kg	28 bar	2550 kg/h	43950 kJ/kg	25 bar
MBRCOL2500	26700 kW/MAH	380 V	75 kW	5101 kg/h	18837 kJ/kg	0.035 bar	2400 kg/h	40190 kJ/kg	28 bar	2190 kg/h	43950 kJ/kg	25 bar
MBRCOL1600	17900 kW/MAH	380 V	37 kW	3420 kg/h	18837 kJ/kg	0.035 bar	1600 kg/h	40190 kJ/kg	28 bar	1460 kg/h	43950 kJ/kg	25 bar
MBRCOL1500	13400 kW/MAH	380 V	30 kW	2560 kg/h	18837 kJ/kg	0.035 bar	1200 kg/h	40190 kJ/kg	28 bar	1100 kg/h	43950 kJ/kg	25 bar
MBRCOL1000	11200 kW/MAH	380 V	18.5 kW	2140 kg/h	18837 kJ/kg	0.035 bar	1000 kg/h	40190 kJ/kg	28 bar	910 kg/h	43950 kJ/kg	25 bar
MBRCOL750	8900 kW/MAH	380 V	15 kW	1700 kg/h	18837 kJ/kg	0.035 bar	800 kg/h	40190 kJ/kg	28 bar	730 kg/h	43950 kJ/kg	25 bar

中压燃烧器 (煤粉+重油+柴油 Coal Powder + Heavy Oil + Diesel Oil)

空气雾化 Pneumatic Atomization

型号 Model	最大功率 Max. Capacity	风机参数 Fan Capacity		煤粉 Coal Powder			重油 Heavy Oil			柴油 Diesel Oil		
		电压 Voltage	功率 Power	最大耗煤量 Max. Coal Consumption	热值 Calorific Value	压力 Pressure	最大耗油量 Max. Fuel Consumption	热值 Calorific Value	压力 Pressure	最大耗油量 Max. Fuel Consumption	热值 Calorific Value	压力 Pressure
MBRCOL2800PV	30000 kW/MAH	380 V	75 kW	5732 kg/h	18837 kJ/kg	0.035 bar	2700 kg/h	40190 kJ/kg	12 bar	2550 kg/h	43950 kJ/kg	12 bar
MBRCOL2500PV	26700 kW/MAH	380 V	75 kW	5101 kg/h	18837 kJ/kg	0.035 bar	2400 kg/h	40190 kJ/kg	12 bar	2190 kg/h	43950 kJ/kg	12 bar
MBRCOL1600PV	17900 kW/MAH	380 V	37 kW	3420 kg/h	18837 kJ/kg	0.035 bar	1600 kg/h	40190 kJ/kg	12 bar	1460 kg/h	43950 kJ/kg	12 bar
MBRCOL1500PV	13400 kW/MAH	380 V	30 kW	2560 kg/h	18837 kJ/kg	0.035 bar	1200 kg/h	40190 kJ/kg	12 bar	1100 kg/h	43950 kJ/kg	12 bar
MBRCOL1000PV	11200 kW/MAH	380 V	18.5 kW	2140 kg/h	18837 kJ/kg	0.035 bar	1000 kg/h	40190 kJ/kg	12 bar	910 kg/h	43950 kJ/kg	12 bar
MBRCOL750PV	8900 kW/MAH	380 V	15 kW	1700 kg/h	18837 kJ/kg	0.035 bar	800 kg/h	40190 kJ/kg	12 bar	730 kg/h	43950 kJ/kg	12 bar

一体式燃烧器(柴油重油煤粉) MONOBLOCK Burners (L O C)





一体式(煤粉)燃烧器参数表 Technical Data of Coal Powder Burners

高压燃烧器 (煤粉+重油+天然气 Coal Powder + Heavy Oil + Natural Gas)

机械雾化 Mechanical Atomization

型号 Model	最大功率 Max. Capacity	风机参数 Fan Capacity		煤粉 Coal Powder			重油 Heavy Oil			天然气 Natural Gas		
		电压 Voltage	功率 Power	最大耗煤量 Max. Coal Consumption	热值 Calorific Value	压力 Pressure	最大耗油量 Max. Fuel Consumption	热值 Calorific Value	压力 Pressure	最大耗气量 Max. Gas Consumption	热值 Calorific Value	压力 Pressure
MBRCOG2800	30000 kW/MAH	380 V	75 kW	5732 kg/h	18837 kJ/kg	0.035 bar	2700 kg/h	40190 kJ/kg	28 bar	3120 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCOG2500	26700 kW/MAH	380 V	75 kW	5101 kg/h	18837 kJ/kg	0.035 bar	2400 kg/h	40190 kJ/kg	28 bar	2780 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCOG1600	17900 kW/MAH	380 V	37 kW	3420 kg/h	18837 kJ/kg	0.035 bar	1600 kg/h	40190 kJ/kg	28 bar	1850 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCOG1500	13400 kW/MAH	380 V	30 kW	2560 kg/h	18837 kJ/kg	0.035 bar	1200 kg/h	40190 kJ/kg	28 bar	1390 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCOG1000	11200 kW/MAH	380 V	18.5 kW	2140 kg/h	18837 kJ/kg	0.035 bar	1000 kg/h	40190 kJ/kg	28 bar	1150 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCOG750	8900 kW/MAH	380 V	15 kW	1700 kg/h	18837 kJ/kg	0.035 bar	800 kg/h	40190 kJ/kg	28 bar	925 Nm ³ /h	34750 kJ/Nm ³	0.6 bar

中压燃烧器 (煤粉+重油+天然气 Coal Powder + Heavy Oil + Natural Gas)

空气雾化 Pneumatic Atomization

型号 Model	最大功率 Max. Capacity	风机参数 Fan Capacity		煤粉 Coal Powder			重油 Heavy Oil			天然气 Natural Gas		
		电压 Voltage	功率 Power	最大耗煤量 Max. Coal Consumption	热值 Calorific Value	压力 Pressure	最大耗油量 Max. Fuel Consumption	热值 Calorific Value	压力 Pressure	最大耗气量 Max. Gas Consumption	热值 Calorific Value	压力 Pressure
MBRCOG2800PV	30000 kW/MAH	380 V	75 kW	5732 kg/h	18837 kJ/kg	0.035 bar	2700 kg/h	40190 kJ/kg	12 bar	3120 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCOG2500PV	26700 kW/MAH	380 V	75 kW	5101 kg/h	18837 kJ/kg	0.035 bar	2400 kg/h	40190 kJ/kg	12 bar	2780 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCOG1600PV	17900 kW/MAH	380 V	37 kW	3420 kg/h	18837 kJ/kg	0.035 bar	1600 kg/h	40190 kJ/kg	12 bar	1850 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCOG1500PV	13400 kW/MAH	380 V	30 kW	2560 kg/h	18837 kJ/kg	0.035 bar	1200 kg/h	40190 kJ/kg	12 bar	1390 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCOG1000PV	11200 kW/MAH	380 V	18.5 kW	2140 kg/h	18837 kJ/kg	0.035 bar	1000 kg/h	40190 kJ/kg	12 bar	1150 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCOG750PV	8900 kW/MAH	380 V	15 kW	1700 kg/h	18837 kJ/kg	0.035 bar	800 kg/h	40190 kJ/kg	12 bar	925 Nm ³ /h	34750 kJ/Nm ³	0.6 bar

一体式燃烧器(柴油重油煤粉) MONOBLOCK Burners (L O C)





高压燃烧器 (煤粉+柴油+天然气 Coal Powder + Diesel Oil + Natural Gas)

机械雾化 Mechanical Atomization

型号 Model	最大功率 Мак. Capacity	风机参数 Fan Capacity		煤粉 Coal Powder			柴油 Diesel Oil			天然气 Natural Gas		
		电压 Voltage	功率 Power	最大耗煤量 Max. Coal Consumption	热值 Calorific Value	压力 Pressure	最大耗油量 Max. Fuel Consumption	热值 Calorific Value	压力 Pressure	最大耗气量 Max. Gas Consumption	热值 Calorific Value	压力 Pressure
MBRCLG2800	30000 kW/MAK	380 V	75 kW	5732 kg/h	18837 kJ/kg	0.035 bar	2550 kg/h	43950 kJ/kg	25 bar	3120 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCLG2500	26700 kW/MAK	380 V	75 kW	5101 kg/h	18837 kJ/kg	0.035 bar	2190 kg/h	43950 kJ/kg	25 bar	2780 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCLG1600	17900 kW/MAK	380 V	37 kW	3420 kg/h	18837 kJ/kg	0.035 bar	1460 kg/h	43950 kJ/kg	25 bar	1850 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCLG1500	13400 kW/MAK	380 V	30 kW	2560 kg/h	18837 kJ/kg	0.035 bar	1100 kg/h	43950 kJ/kg	25 bar	1390 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCLG1000	11200 kW/MAK	380 V	18.5 kW	2140 kg/h	18837 kJ/kg	0.035 bar	910 kg/h	43950 kJ/kg	25 bar	1150 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCLG750	8900 kW/MAK	380 V	15 kW	1700 kg/h	18837 kJ/kg	0.035 bar	730 kg/h	43950 kJ/kg	25 bar	925 Nm ³ /h	34750 kJ/Nm ³	0.6 bar

高压燃烧器 (煤粉+柴油 Coal Powder + Diesel Oil)

机械雾化 Mechanical Atomization

型号 Model	最大功率 Мак. Capacity	风机参数 Fan Capacity		煤粉 Coal Powder			柴油 Diesel Oil		
		电压 Voltage	功率 Power	最大耗煤量 Max. Coal Consumption	热值 Calorific Value	压力 Pressure	最大耗油量 Max. Fuel Consumption	热值 Calorific Value	压力 Pressure
MBRCL2800	30000 kW/MAK	380 V	75 kW	5732 kg/h	18837 kJ/kg	0.035 bar	2550 kg/h	43950 kJ/kg	25 bar
MBRCL2500	26700 kW/MAK	380 V	75 kW	5101 kg/h	18837 kJ/kg	0.035 bar	2190 kg/h	43950 kJ/kg	25 bar
MBRCL1600	17900 kW/MAK	380 V	37 kW	3420 kg/h	18837 kJ/kg	0.035 bar	1460 kg/h	43950 kJ/kg	25 bar
MBRCL1500	13400 kW/MAK	380 V	30 kW	2560 kg/h	18837 kJ/kg	0.035 bar	1100 kg/h	43950 kJ/kg	25 bar
MBRCL1000	11200 kW/MAK	380 V	18.5 kW	2140 kg/h	18837 kJ/kg	0.035 bar	910 kg/h	43950 kJ/kg	25 bar
MBRCL750	8900 kW/MAK	380 V	15 kW	1700 kg/h	18837 kJ/kg	0.035 bar	730 kg/h	43950 kJ/kg	25 bar

燃烧器 (煤粉+天然气 Coal Powder + Natural Gas)

型号 Model	最大功率 Мак. Capacity	风机参数 Fan Capacity		煤粉 Coal Powder			天然气 Natural Gas		
		电压 Voltage	功率 Power	最大耗煤量 Max. Coal Consumption	热值 Calorific Value	压力 Pressure	最大耗气量 Max. Gas Consumption	热值 Calorific Value	压力 Pressure
MBRCG2800	30000 kW/MAK	380 V	75 kW	5732 kg/h	18837 kJ/kg	0.035 bar	3120 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCG2500	26700 kW/MAK	380 V	75 kW	5101 kg/h	18837 kJ/kg	0.035 bar	2780 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCG1600	17900 kW/MAK	380 V	37 kW	3420 kg/h	18837 kJ/kg	0.035 bar	1850 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCG1500	13400 kW/MAK	380 V	30 kW	2560 kg/h	18837 kJ/kg	0.035 bar	1390 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCG1000	11200 kW/MAK	380 V	18.5 kW	2140 kg/h	18837 kJ/kg	0.035 bar	1150 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
MBRCG750	8900 kW/MAK	380 V	15 kW	1700 kg/h	18837 kJ/kg	0.035 bar	925 Nm ³ /h	34750 kJ/Nm ³	0.6 bar



轴流式燃烧器参数表 Technical Data of AXIAL TYPE Burners

低压燃烧器 (重油+柴油 Heavy Oil + Diesel Oil)

空气雾化 Pneumatic Atomization

型号 Model	最大功率 Мех. Capacity	风机参数 Fan Capacity		重油 Heavy Oil			柴油 Diesel Oil		
		电压 Voltage	功率 Power	最大耗油量 Мех. Fuel Consumption	热值 Calorific Value	压力 Pressure	最大耗油量 Мех. Fuel Consumption	热值 Calorific Value	压力 Pressure
AH-OL-2800 PV	30000 kW/MAH	380 V	37 kW	2700 kg/h	40190 kJ/kg	12 bar	2550 kg/h	43950 kJ/kg	12 bar
AH-OL-2500 PV	26700 kW/MAH	380 V	37 kW	2400 kg/h	40190 kJ/kg	12 bar	2190 kg/h	43950 kJ/kg	12 bar
AH-OL-1600 PV	17900 kW/MAH	380 V	30 kW	1600 kg/h	40190 kJ/kg	12 bar	1460 kg/h	43950 kJ/kg	12 bar
AH-OL-1000 PV	11200 kW/MAH	380 V	18.5 kW	1000 kg/h	40190 kJ/kg	12 bar	910 kg/h	43950 kJ/kg	12 bar

低压燃烧器 (重油+天然气 Heavy Oil + Natural Gas)

空气雾化 Pneumatic Atomization

型号 Model	最大功率 Мех. Capacity	风机参数 Fan Capacity		重油 Heavy Oil			天然气 NATURAL GAS		
		电压 Voltage	功率 Power	最大耗油量 Мех. Fuel Consumption	热值 Calorific Value	压力 Pressure	最大耗气量 Мех. Gas Consumption	热值 Calorific Value	压力 Pressure
AH-OG-2800 PV	30000 kW/MAH	380 V	37 kW	2700 kg/h	40190 kJ/kg	12 bar	3120 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
AH-OG-2500 PV	26700 kW/MAH	380 V	37 kW	2400 kg/h	40190 kJ/kg	12 bar	2780 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
AH-OG-1600 PV	17900 kW/MAH	380 V	30 kW	1600 kg/h	40190 kJ/kg	12 bar	1850 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
AH-OG-1000 PV	11200 kW/MAH	380 V	18.5 kW	1000 kg/h	40190 kJ/kg	12 bar	1150 Nm ³ /h	34750 kJ/Nm ³	0.6 bar

低压燃烧器 (天然气 Natural Gas)

型号 Model	最大功率 Мех. Capacity	风机参数 Fan Capacity		天然气 NATURAL GAS		
		电压 Voltage	功率 Power	最大耗气量 Мех. Gas Consumption	热值 Calorific Value	压力 Pressure
AH-G-2800	30000 kW/MAH	380 V	37 kW	3120 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
AH-G-2500	26700 kW/MAH	380 V	37 kW	2780 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
AH-G-1600	17900 kW/MAH	380 V	30 kW	1850 Nm ³ /h	34750 kJ/Nm ³	0.6 bar
AH-G-1000	11200 kW/MAH	380 V	18.5 kW	1150 Nm ³ /h	34750 kJ/Nm ³	0.6 bar



轴流式燃烧器
(柴油重油天然气)
AXIAL Burners (L O G)



世界各地应用案例

Global Application in Different Job Sites

- 型号 MODEL : YRWG100
- 应用 APPLICATION : 锅炉 BOILER
- 功率 POWER : 11MW
- 燃料 FUEL : 木屑+燃气 WOOD DUST + GAS
- 用户 CUSTOMER : CALDAIE PELUCCHI
- 地点 PLACE : 意大利里米尼 RIMINI, ITALY



- 型号 MODEL : RT1120
- 应用 APPLICATION : 锅炉 BOILER
- 功率 POWER : 35MW
- 燃料 FUEL : 燃气 GAS
- 用户 CUSTOMER : SHIRVAN SUGAR CO.
- 地点 PLACE : 伊朗 IRAN



- 型号 MODEL : NTF5060
- 应用 APPLICATION : 锅炉 BOILER
- 功率 POWER : 6.9MW
- 燃料 FUEL : 重油+燃气 HEAVY OIL + GAS
- 用户 CUSTOMER : SHOLEH SANAT
- 地点 PLACE : 伊朗德黑兰 TEHRAN, IRAN



· 型号 MODEL : YRGW180
 · 应用 APPLICATION : 锅炉 BOILER
 · 功率 POWER : 18MW
 · 燃料 FUEL : 燃气+木屑 GAS+WOOD DUST
 · 用户 CUSTOMER : GRUPPO FRATI
 · 地点 PLACE : 意大利维亚达纳 VIADANA, ITALY



· 型号 MODEL : YRGW
 · 应用 APPLICATION : 干燥机 DRIER
 · 功率 POWER : 32.5MW
 · 燃料 FUEL : 燃气+木屑 GAS+WOOD DUST
 · 用户 CUSTOMER : INSTALMEC
 · 地点 PLACE : 意大利杜林 TORINO, ITALY



世界各地应用案例

Global Application in Different Job Sites

- 型号 MODEL : YRGW
- 应用 APPLICATION : 干燥机 DRIER
- 功率 POWER : 15MW
- 燃料 FUEL : 燃气+木屑 GAS + WOOD DUST
- 用户 CUSTOMER : STARWOOD
- 地点 PLACE : 土耳其安卡拉 ORMAN, TURKEY



- 型号 MODEL : YRGW200
- 应用 APPLICATION : 干燥机 DRIER
- 功率 POWER : 20MW
- 燃料 FUEL : 燃气+木屑 GAS+WOOD DUST
- 用户 CUSTOMER : KRONOSPAN
- 地点 PLACE : 乌克兰多利纳 DOLINA, UKRAINE



- 型号 MODEL : MBR062800PV
- 应用 APPLICATION : 沥青混合料搅拌设备 ASPHALT MIXING PLANT
- 功率 POWER : 30MW
- 燃料 FUEL : 重油、天然气 HEAVY OIL + GAS
- 地点 PLACE : 中国河北省沧州市 HEBEI PROVINCE, CHINA





多种燃料兼用燃烧器 (粉尘•油•天然气)

Multi-fuel Burner — Dust | Oil | Gas

这种燃烧器能同时使用多种燃料，可以依据燃料的成本或效能去选择燃料比例。

This simultaneous combustion multi-fuel burner enables to choose the ratio of fuels either upon their cost and /or their availability.

特点

- 输出功率：1—64 MW
- 木夹板烘干箱使用的燃烧器可同时以锯木屑~天然气作为燃料。

FEATURES

- Output power : 1 to 64 MW
- Simultaneous saw DUST-GAS burner for wood chips drier.



适合锅炉 / 窑炉等设备使用
Burner for boilers, furnace, etc

标准型
STANDARD

低氮排放型
LOW NO_x

特别低扩散型
PARTICULATES LOW
EMISSIONS

低排气型
LOW AIR EXCESS

联机型
IN-LINE

低氮排放型燃烧器是ABS科研成就的代表作之一，为当今先进的超低氮氧化物排放燃烧器。针对中国对环境污染排放的要求，我们不但提供低氮氧化物排放燃烧器，更积极配合锅炉制造商，共同将低氮排放型燃烧器融入锅炉系统设计方案中，从而保证稳定的低氮氧化物排放达到中国的环保要求，并最大限度地降低采购成本和运行成本。

The Low-NO_x Burner is one of the successful products from ABS in their earlier development and it is today's advanced technology on low-NO_x emission burner in the market. To achieve the emission requirement of Chinese government, we are not only providing the Low-NO_x Burner, but work actively with the boiler manufacturer for burner with low-NO_x emission, hence, to maintain the low-NO_x emission and to achieve the environmental protection requirement of China. Furthermore, it minimizes both the procurement costs and operation costs.



沼气
BIOGAS



传统燃料
LPG
CNG
BUNKER-C
DIESEL OIL



木屑
WOOD
DUST



处理垃圾
PROCESSED
WASTES



焦炭
COKE

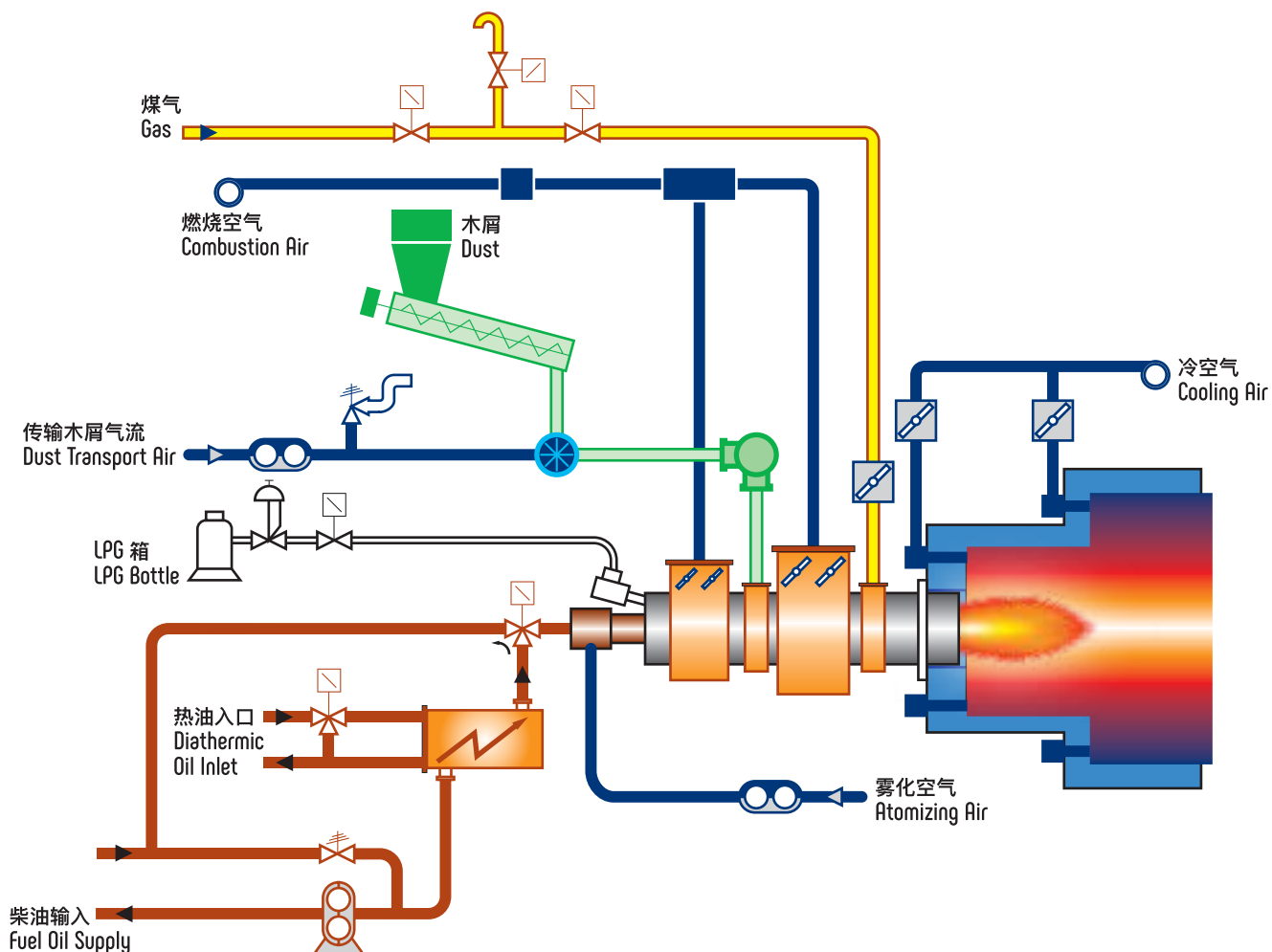


生物废料
BIOMASSE



多种燃料 (木屑·气·柴油) 燃烧器的标准运行图

Typical Functioning Scheme of a Multi-fuel Burner — Powder | Oil | Gas



木屑燃烧器

配置火焰点火装置和柴油预热系统

Wood Dust Burner
with Pilot Flame + Fuel Oil Preheating System





多种燃料兼用燃烧器 (粉尘•油•天然气)

Multi-Fuel Burner — Dust | Oil | Gas

- **NTF(G)W—YR(G)W** 木屑燃烧器带燃气引火和燃气预热装置
Wood dust with fuel gas pilot flame and fuel gas preheating
- **NTF(O)W—YR(O)W** 木屑燃烧器带燃气引火和燃油预热装置
Wood dust with fuel gas pilot flame and fuel oil preheating
- **NTFGW—YRGW** 木屑 和/或 燃气
Wood dust and/or fuel gas
- **NTFOW—YROW** 木屑 和/或 燃油
Wood dust and / or fuel oil
- **NTFOW—YROGW** 木屑 和/或 燃油、和/或 燃气
Wood dust and/or fuel oil and/or fuel gas



通用数据 GENERAL DATA

燃烧器特性 Features of the Burner

- 紧凑型结构组装在可后移轨道上
Compact structure assembled on a drawback
- 设备维护时检测方便
Easy inspection for maintenance
- 全自动化工作
Fully automatic operating
- 观察木屑和碳氢化合物燃料的独立电光传感器
Independent photocells for wood dusts and hydrocarbons

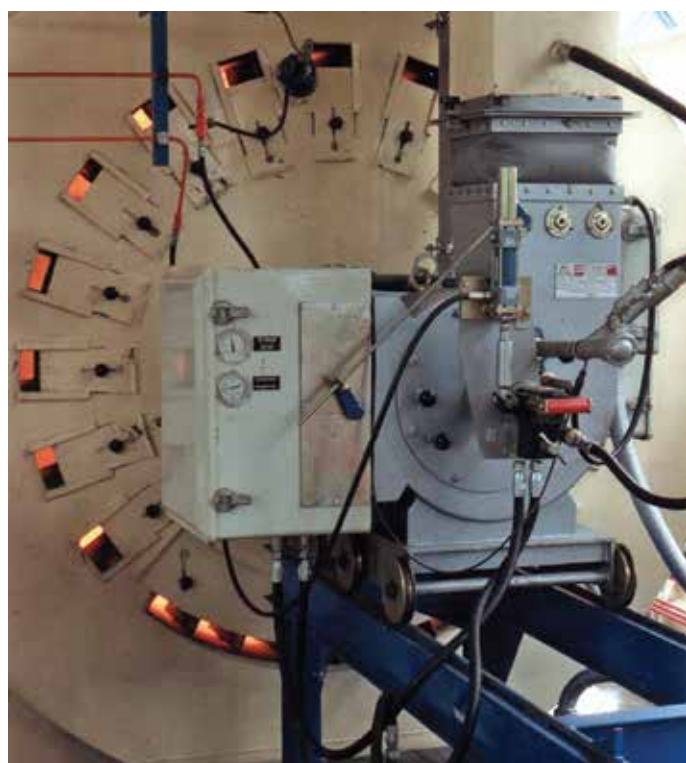
工作特性 Functioning Characteristics

- 调节比 Regulation ratio: **1 – 10 – 1 – 20**
- 无污染燃烧
No pollutant combustion
- 燃烧器火焰集中和稳定
Compact and stable flame
- 粉尘燃烧没有次火焰
Dust combustion without supporting flame
- 最可靠安全系统
Maximum reliability of safety system

使用木屑及重油的燃烧器

Wood Dust and Heavy Oil Burner

输出功率 Output	燃烧能量 Burner Capacity		
	柴油 Fuel oil	燃气 Gas	木屑 Wood dust
MW	kg/h	nm ³ /h	kg/h
2	170	210	430
4	340	520	860
6	510	630	1290
8	680	840	1720
10	850	1050	2150
12	1070	1260	2580
15	1340	1550	3225
20	1790	2070	4300
25	2240	2590	5375
30	2690	3110	6450
35	3140	3620	7525
40	3580	4150	8600
64	5732	6630	13252





木屑燃烧器内部燃烧情况
Combustion inside the wood dust burner



MQHL煤气化炉是一款多级煤粉气化燃烧的高效环保燃烧炉。

This simultaneous combustion multi-fuel burner enables to choose the ratio of fuels either upon their cost and /or their availability.

1 结构 STRUCTURE

由气化炉、燃烧器、控制系统组成。
It combines the Gasifier, Burner and Control System.

2 原理 PRINCIPLE

参考SHELL气流床气化炉结构进行设计，使干燥煤粉快速气化，输送至燃烧器燃烧。

Base on the structure design of the SHELL Entrained Flow Gasifier, so that the dried coal dust gasified and delivered to the Burner rapidly.

3 控制 CONTROL

系统使用工控机控制，可实现优化工艺自动控制，也可根据工况，进行人工微调。

The system adopts the Industrial Computer Control, which achieves the optimized process by Automatic Control, and also performing slight-adjustment manually according to the actual situation.

4 高效环保 HIGH EFFICIENCY & ECO-FRIENDLY

采用变频控制，调节风煤比，合理控制炉内温度，在保证火焰稳定的前提下，实现变频节能；采用煤粉“气化→燃烧”技术，较普通直燃燃烧器，燃烧效率提高30%。

The temperature inside the chamber is controlled by the Air-Coal Dust Ratio with variable frequency control. It can achieve the Variable Frequency Energy Saving with Stable Flame. The use of coal dust "Gasification→Combustion" technology increases 30% of the burning efficiency compared to that of "direct burning".

5 安全性 SAFETY

对系统的温度、压力、火焰进行监测，实现安全的系统预警机制；产品内部均有耐火材料浇筑而成，并对高温位置进行风冷及隔离，避免高温烫伤。

The System includes Temperature, Pressure and Flame Monitoring, it provides a safe "System Early Warning Mechanism". There is refractory material poured inside the Gasifier, and the high temperature location is air-cooled and isolated, to avoid high temperature burns.

6 寿命 LIFE SPAN

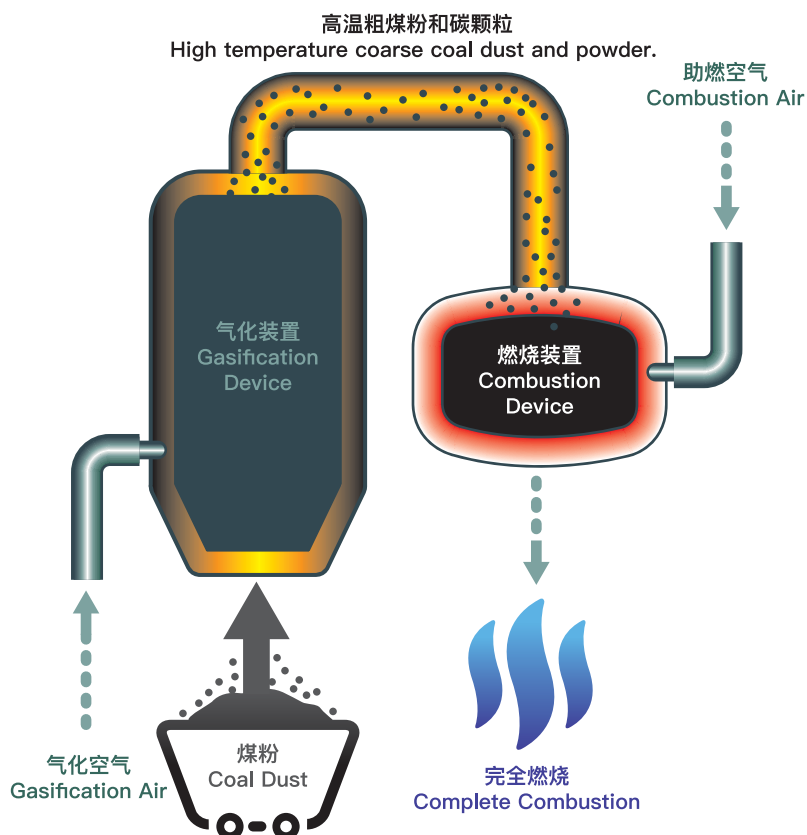
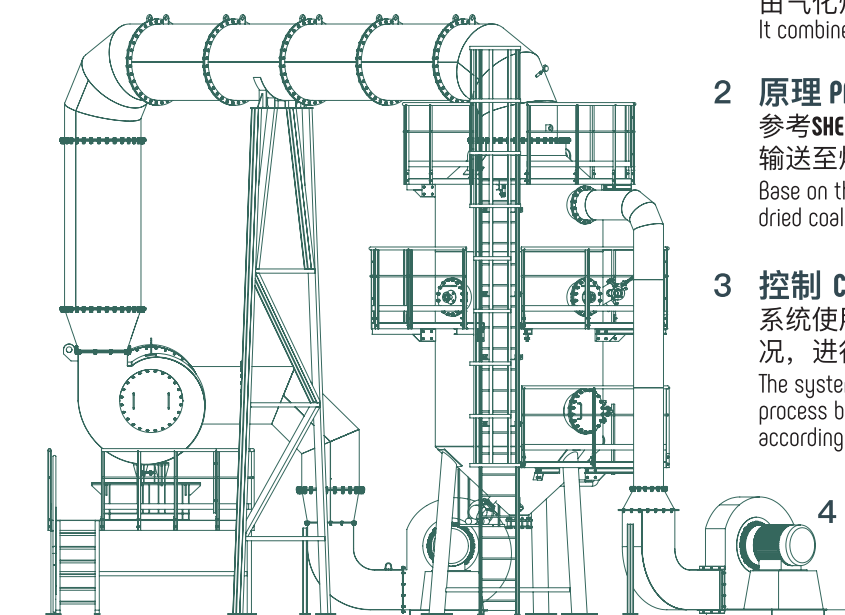
使用高质量的耐火材料，并根据煤粉“气化→燃烧”过程，对气化炉反应温度进行针对性控制，为产品提供更长的使用寿命。

With the use of High Quality Refractory Material and the process of "Gasification→Combustion" of Coal Dust, to target control the temperature of the Gasifier for a longer operating life of the Plant.

7 售后 AFTER SALE SERVICES

产品配有详细的结构和技术说明，且为以后的产品保养和维修提供足够的技术支持。

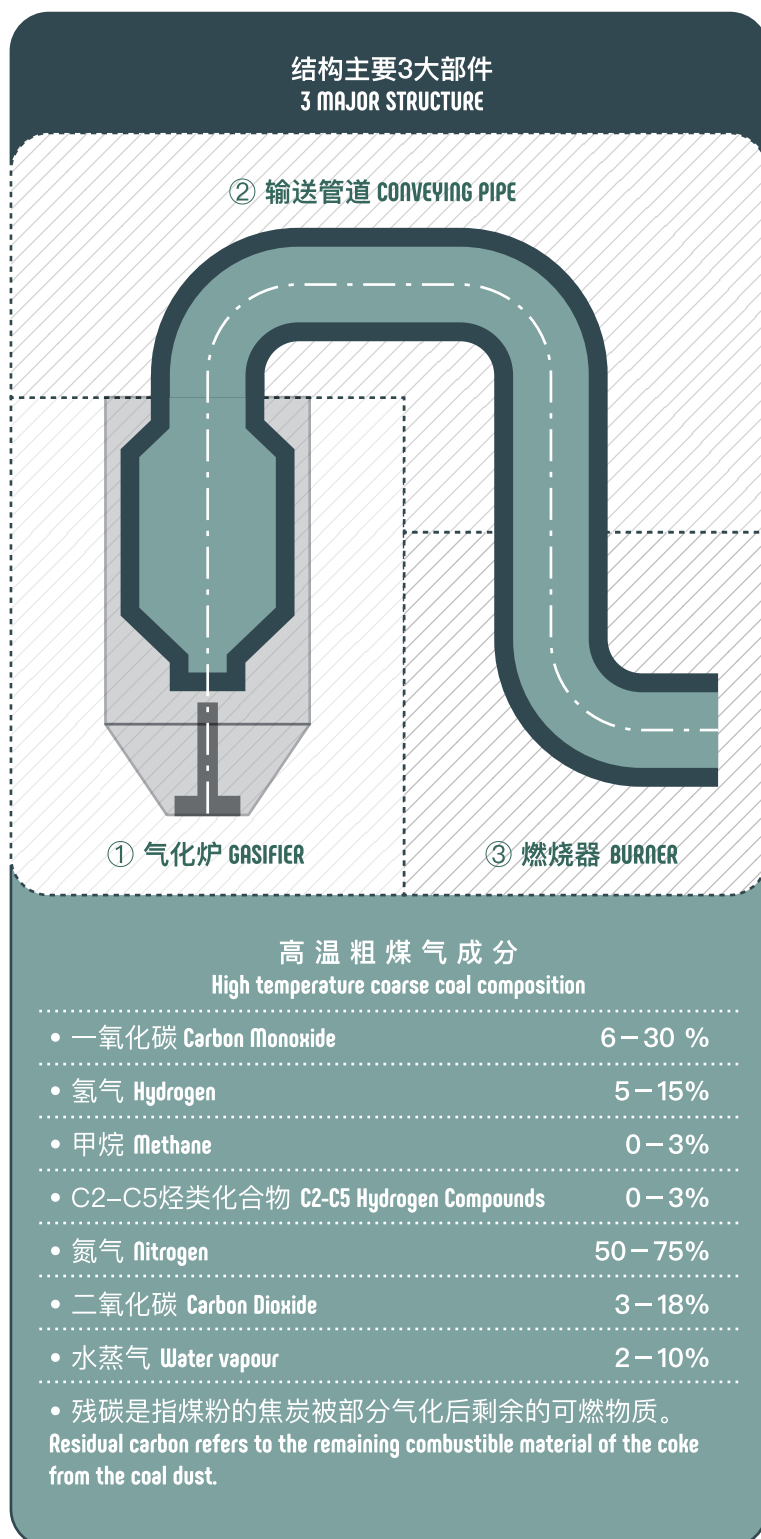
There is detailed structural & technical description for the plant. Also, there is adequate After Sales Service provided with Product Maintenance & Repair Service.



燃烧工艺流程图
Work Flow of Burner

在相同工况下与传统直燃结构的燃烧器的性能参数如下：

Under the same operating condition, the burner performance parameter between "coal dust gasification combustion" and "direct combustion" are as follow:



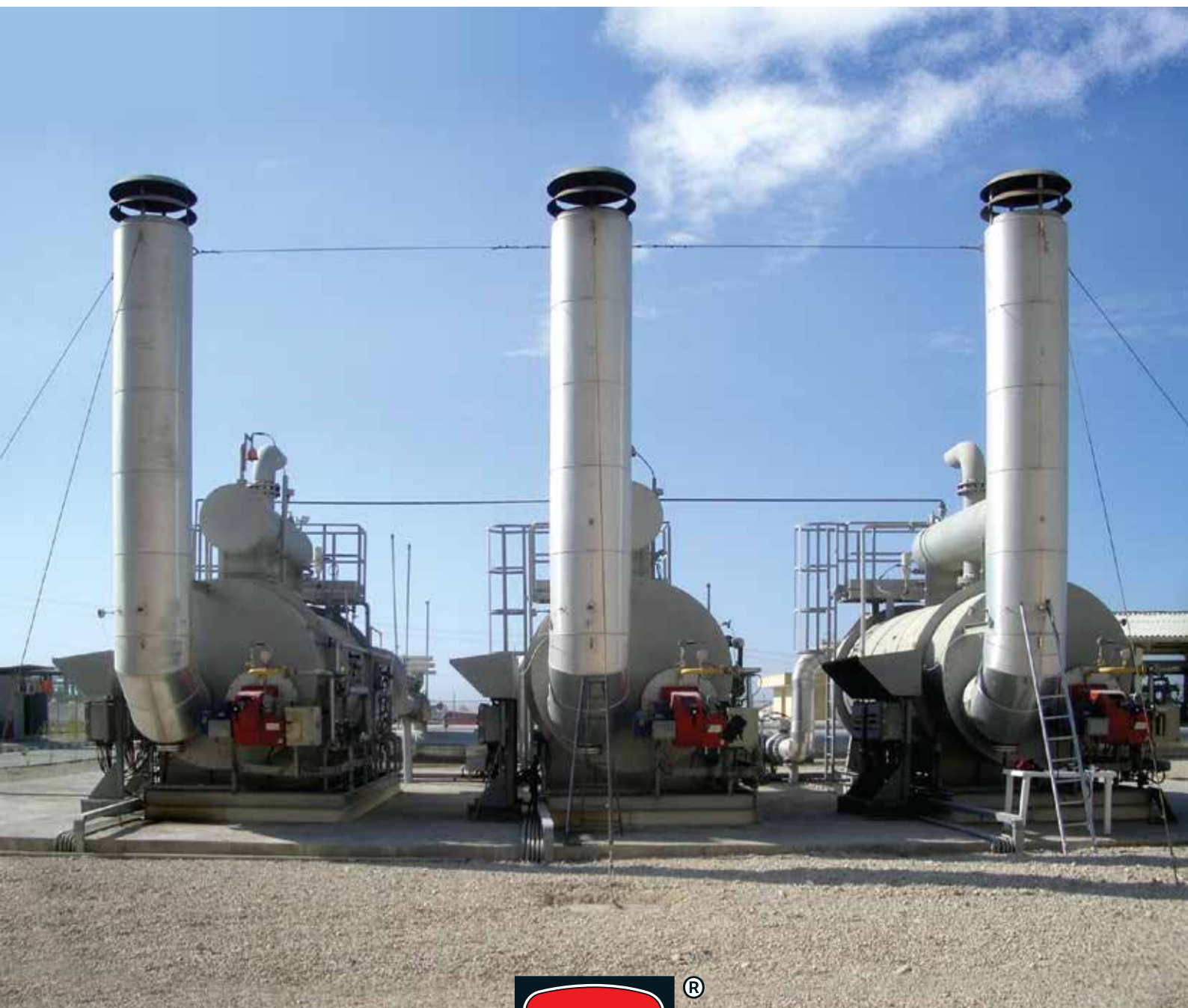
燃烧性能对比 COMPARISON OF COMBUSTION PERFORMANCE		
参数 PARAMETER	煤粉气化燃烧 COAL DUST GASIFICATION COMBUSTION	直接燃烧 DIRECT COMBUSTION
产能 CAPACITY	4 t/h	4 t/h
煤粉热值 CALORIFIC VALUE OF COAL DUST	6500 Kcal/kg	6500 Kcal/kg
气化装置压力 GASIFICATION DEVICE PRESSURE	0.104 Mpa(A)	/
通入炉膛的空气总量 TOTAL AMOUNT OF AIR PASSING THE CHAMBER	13000 m³/h	36000 m³/h
助燃空气 COMBUSTION AIR	25000 m³/h	/
煤粉燃烧效率 COMBUSTION EFFICIENCY OF COAL DUST	98%	65%

综上所述多级煤粉燃烧方法相对于传统直燃方法，燃烧效率从50~70%提高至98%以上，并且燃烧时，火焰稳定、火焰强度大、火形易控制，也能实现节能减排的目的。

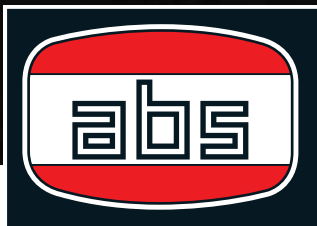
上述煤粉还包括生物颗粒或石油焦粉，故同样适用于生物颗粒或石油焦粉的燃烧过程。

In view of above coal dust multi-stage combustion and the tradition direct combustion, the combustion efficiency can improve from 50~70% to 98%. During combustion, the flame keeps stable and strong, and the flame shape is easy to control, which achieves the purpose of energy saving.

The coal dust mentioned above includes biological particles and petroleum coke powder, so that it also applies to the combustion process of biological particles or petroleum coke powder.



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声明:

1. 各型号设备其性能和配置可能不同, 设备供货范围请以订货合同为准。

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