

2000 SERIES HTR[®] COLD AIR BURNER

CAPABILITIES

- High thermal release
- High temperature radiation without flame impingement
- Ability to place heat where required
- High turn down capacity
- Nominal capacity range 100,000 to 4.4 mm Btu/hr



FEATURES

- Patented Stabilization Principle* high temperature radiation through high speed combustion
- Extra rugged port block and mounting plate construction
- Integral fuel orifices eliminates the need for individual gas balancing or throttle valves

CONTROL

- Pressure balance ratio regulator
- Volumetric air ratio control
- Tandem valves

FLAME MONITORING

- Provisions for flame monitoring
See 2000 Bulletin Page 3

BURNER IGNITION

- Pilot
- Direct Spark
- Manual

APPLICATIONS

- Reheat Furnace
- Batch Anneal Furnace
- Forging Furnace
- Continuous Casting
- Drying
- Aluminum Chip Melting
- Galvanizing
- Tube Upsetting
- Glass Bending and Melting
- Sinter Hoods
- Clay Calcining
- Many other applications

FUEL CAPABILITIES

- Natural Gas
- LP Gas
- Coke Gas
- LP Gas
- Low BTU Mixed Gas
- Distillate Fuel Oils
- #6 Fuel Oil

OPTIONS

- Mounting plate designs including lug type for roof mounting, square for sidewall mounting and curved for cylindrical furnace walls
- See bulletins for optional block lengths

CAUTION: The improper use of combustion equipment can result in a condition hazardous to people and property. Users are urged to comply with National Safety Standards and/or Insurance Underwriters recommendations

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CAPACITY CHART

Air Flow at 28" water column (70 mBar)^{1,2}

Catalog No. 2000-	Capacity Option	Air Flow at 100°F/38°C		⁴ Direct Spark Ignitor Part No. (optional)	Pilot Part No.	LP Oil Burner Size 1920-	Atomizing Air Flow at 32 OSI (104 mBar) Static Press.		³ Cooling Air Flow at 2 OSI (9 mBar) Static Press.	
		SCFH	Nm ³ /hr				SCFH	Nm ³ /hr	SCFH	Nm ³ /hr
008	A	711	19	3500-200	3001-010	--	--	--	--	--
010	A	1,560	42	3500-200	3001-010	--	--	--	--	--
015	A	2,600	70	3500-200	3001-010	--	--	--	--	--
020	A	5,010	134	3500-200	3001-010	--	--	--	--	--
	B	6,210	166			--	--	--	--	--
025	A	8,010	215	3500-200	3001-030	--	--	--	--	--
	B	10,590	284			--	--	--	--	--
030	A	10,590	284	3500-200	3001-030	008	1,200	32	300	8
	B	12,760	342			008	1,200	32	300	8
	C	17,500	469			008	1,200	32	300	8
	D	20,700	555			008	1,200	32	300	8
040	A	19,870	533	3500-200	3001-030	015	1,600	43	400	11
	B	25,330	679			015	1,600	43	400	11
	C	27,175	729			015	1,600	43	400	11
	D	31,415	842			015	1,600	43	400	11
060	A	42,540	1,140	3500-200	3001-030	030	2,900	78	725	19
	B	48,300	1,295			030	2,900	78	725	19
	C	52,520	1,408			030	2,900	78	725	19
	D	57,820	1,550			030	2,900	78	725	19
	E	33,000	885			030	2,900	78	725	19

¹Gas pressure is approximately 0.7 times air pressure.

²Piping system should be received to insure delivery of this pressure. On occasion, the approach to the burner should be increased one size including valves, flexible nipples, etc.

³Recommended when firing as with 1920 LP atomizer in place.

⁴Direct spark ignition for natural gas only. For dual fuel mode, burners must be ignited on natural gas and then switched over to light oil.

The 2000 series burners are primarily designed for slightly oxidizing to slightly reducing ratios and are not intended as an excess air burner. Careful consideration should be given to the turndown requirements so that for a given application the appropriate air pressure is selected to give a minimum firing condition and minimum air pressure of approximately 0.3" W.C. at each burner. Each burner has an integral machined gas distribution orifice, which eliminates the need for individual gas balancing or throttle valves. This gas distribution orifice insures burner distribution throughout a given zone.

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Minimum & Maximum Port Block Lengths for Flame Rod & U.V. Cell Applications

Burner Size	Min/Max Port Block Lengths		
	Lug Type Plate	Square Plate	
		Round Block	Square Block
2.5 & 3	9"/9"	9.25"/10.25"	9.25"/10.25"
4"	9"/9"	9.25"/10.25"	9.25"/10.25"
6"	9"/11.5"	9"/13.5"	9"/13.5"

2000 SERIES BURNERS

Catalog Model No.	
2010	Ambient Air, Roof Mount, Gas Only
2016	Ambient Air, Roof Mount, Gas and Light Oil
2020	Ambient Air, Wall Mount, Gas Only
2026	Ambient Air, Wall Mount, Gas and Light Oil

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