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Axis Thermal ENGINEERING COMPANY

DUAL FUEL HIGH VELOCITY BURNER - 3435

COMBUSTION SYSTEM

TEMPEST III BURNERS FEATURE:

- HIGH VELOCITY** Comparable to Axis Thermal renowned Dual Fuel High Velocity Burner.
- DUAL-FUEL** Natural gas and/or light oil.
- WIDE STABILITY RANGE** From 15% excess fuel to 400% xces air.
- UNIT CONSTRUCTION** The high temperature tile is secured in the main body section - no extra support is required.
- USEFUL CAPACITY RANGES** Ratings from 05.mkcal to 6.4mkcal/hr.
- EASY INSPECTION/SERVICE** Air and gas piping need not be removed for complete access to internals.
- PREHEATED AIR CAPABILITY** To 420°C main air temperature at the burner.



List 1. Main and Atomizing Air Capacities

Scfh* (Standard Cubic Feet per Hour)

Burner	Fuel	Main Air					Atomizing Air (with 27"wg Main Air)		Flame Lengths In millimeter 18" Main Air
		0.2	1	4	9	16	12"wg (Gas)	60"wg (Oil)	
3435 – 1A	Gas	65	240	545	870	1220	75	180	220
	Oil	85	232	545	865	1200			
3435 – 2A	Gas	170	500	1090	1660	2280	30	140	200
	Oil	165	430	1070	1660	2280			
3435 – 3A	Gas	235	680	1530	2490	3420	70	180	300
	Oil	300	665	1430	2320	3180			
3435 – 4A	Gas	545	1270	2830	4350	6050	160	390	500
	Oil	665	1240	2750	4310	5850			
3435 – 5A	Gas	895	2080	4460	6950	9500	400 @ 27"wg	585	550
	Oil	895	2110	4760	7450	10000			
3435 – 6A	Gas	1000	3500	7100	11300	15200	380 @ 27"wg	470	960
	Oil	1200	3800	7400	11200	15000			

*Burning on stoichiometric ratio

List 2. Main and Atomizing Air

Scfh Capacities

Burner	Main Air	Atomizing Air (with 27"wg Main Air)	
	At 27"wg	At 12"wg	At 60"wg
3435-1A	1350	90	180
3435-2A	3000	90	190
3435-3A	4120	100	200
3435-4A	7240	240	460
3435-5A	12100	430 @ 27"wg	590
3435-6A	17500	430 @ 16"wg	590

List 3. Maximum %XSAir

(27"wg Main Air)

Fuel	Burner Size					
	-1	-2	-3	-4	-5	-6
Natural Gas	400	400	400	350	350	600
Light Oil	200	300	400	300	350	600

OTHER PRODUCTS...

- ✓ Excess Air Gas Burner 1422
- ✓ Fire All Gas Burner 1514
- ✓ High Velocity Gas Burner 1435
- ✓ HF Burner 001
- ✓ Excess Air Light Oil Burner 2422
- ✓ Fire All Heavy Oil Burner 2514
- ✓ Furnace Oil Burner 2562
- ✓ HF Burner 002
- ✓ High Velocity Oil Burner 2435
- ✓ Excess Air fuel/Gas Burner 3422
- ✓ Fire All Dual Fuel Burner 3514
- ✓ Dual Fuel Burner 3562
- ✓ HF Burner 003

NOTE: Dimensions shown are subject to change. please obtain certified prints from Axis Thermal Engineering Company. If space limitations or other considerations make exact dimension(s) critical.

WARNING: Situations dangerous to personnel and property can develop from incorrect operation of combustion equipment. Axis Thermal urges compliance with National Safety Standards and Insurance Underwriters recommendations, and care in operation.

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