



Continental Thermal Engineers

TEMPEST III BURNERS FEATURE:

HIGH VELOCITY - Comparable to Continental Thermal's renowned 442 gas burner

DUAL-FUEL-Natural gas and/or light oil.

WIDE STABILITY RANGE-From 15% excess fuel to 400% excess air.

UNIT CONSTRUCTION-The high temperature tile is secured in the main body section-no extra support is required

USEFUL CAPACITY RANGES-Ratings from 130 000 to 1 600 000 Btu/hr.

EASY INSPECTION/SERVICE-Air and gas piping need not be removed for complete access to internals.

PREHEATED AIR CAPABILITY-To 800F main air temperature at the burner.



635 Burner

TABLE 1. Main and Atomizing Air capacities

		scfh*								
		(for Btu/hr, multiply by 100)						Atomizing Air (with 16 osi Main Air)		Flame lengths
Burner	fuel	0.2	1	4	9	16	8 osi (gas)	30 osi (oil)	16 osi Main Air	
635-1	gas	65	240	545	870	1220	75	180	9"	
	oil	85	232	545	865	1200				
635-2	gas	170	500	1090	1660	2280	30	140	8"	
	oil	165	430	1070	1660	2280				
635-3	gas	235	680	1530	2490	3420	70	180	12"	
	oil	300	665	1430	2320	3180				
635-4	gas	545	1270	2830	4350	6050	160	390	20"	
	oil	665	1240	2750	4310	5850				
635-5	gas	895	2060	4460	6950	9500	400 @ 16 osi	585	22"	
	oil	895	2110	4760	7450	10000				
635-6	gas	1000	3500	7100	11300	15200	380 @ 16 osi	470	38"	
	oil	1200	3600	7400	11200	15000				

*burning on stoichiometric ratio

TABLE 2. Main and Atomising Air

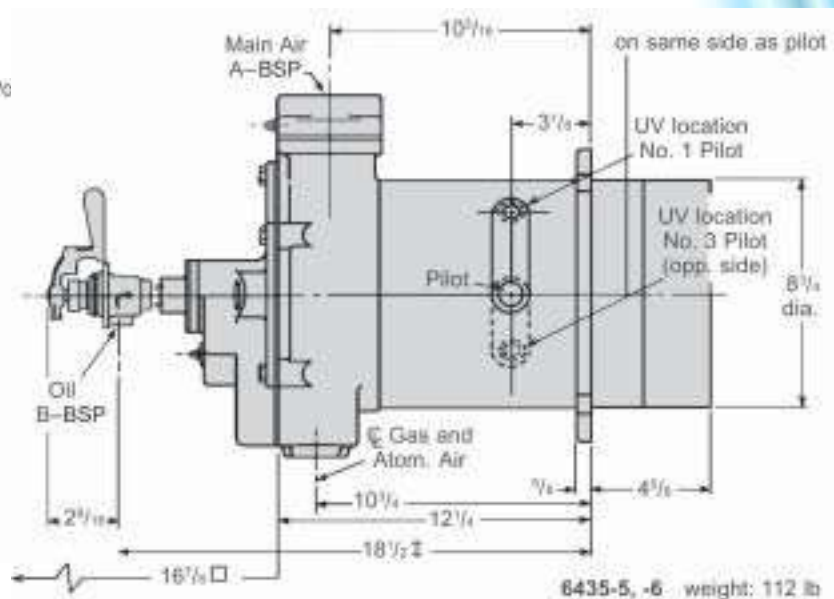
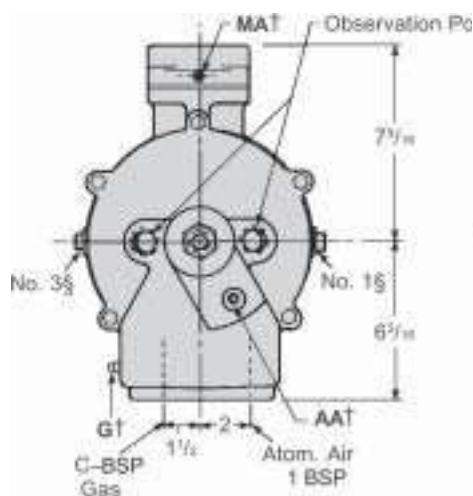
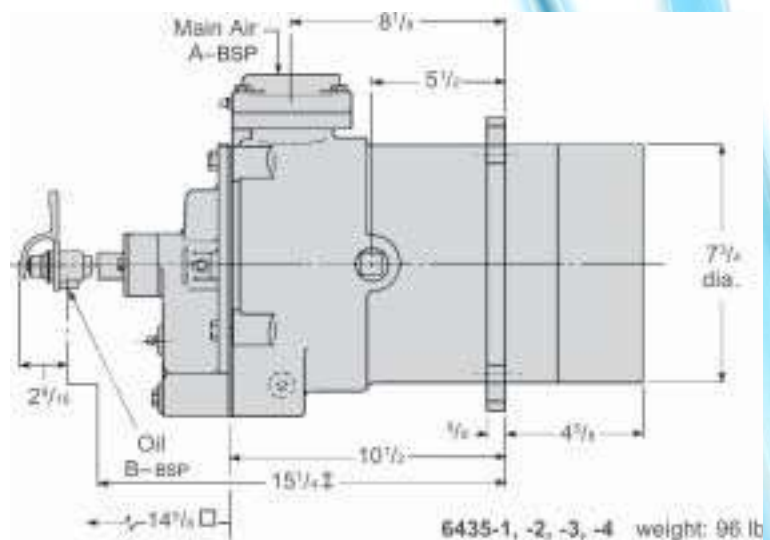
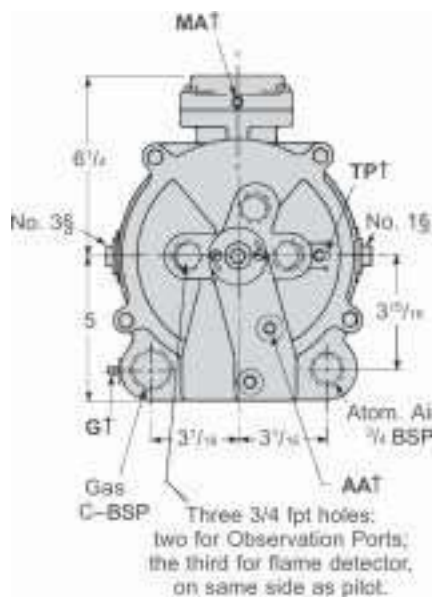
		scfh	
		capacities not burning	
		(use to size blowers)	
Burner	Main air at 16 osi	Atomizing Air (with 16 osi Main Air)	
635-1	1350	90	180
635-2	3000	90	190
635-3	4120	100	200
635-4	7240	240	460
635-5	12100	430 @ 16 osi	590
635-6	17500	430 @ 16 osi	590

TABLE 3. Maximum %XSAir
(16 osi Main Air)

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

DIMENSIONS

in inches



Recommended Pilot Tip 421-12

Dimension assumes close nipple between burner and Microtrol Oil Valve.

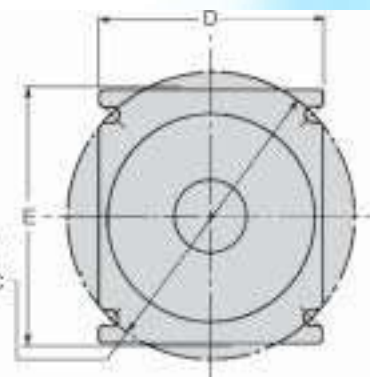
For sizes -1 through -4 with flame supervision, Microtrol valve cannot be close connected because of interference with handle.

Minimum for removal of intervals including Microtrol Valve.

1/8 BSP Pressure Taps: MA-Main Air, G-Gas, AA- Atomizing Air, TP-Tile Pressure

635	A	B	C	D	E	tile exit hole diameter	Microtrol Oil Valve
-1	1	1/4	1	8 3/8	9 1/8	1 9/64	183-03
-2	1 1/4	1/4	1	8 3/8	9 1/8	1 1/4	183-03
-3	1 1/2	1/4	1	8 3/8	9 1/8	1 1/2	183-03
-4	2	3/8	1	8 3/8	9 1/8	1 10/16	183-02-A
-5	2 1/2	3/8	1 1/4	9 1/2	10 1/8	2 1/2	183-02-A
-6	3	3/8	1 1/2	9 1/2	10 3/4	3	183-02-B

(4) 1/8" slots, equally
spaced on 10 1/4" BC
for -1 thru -4; 12" BC
for -5 and -6



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