



Air Atomising Oil and Air volume and pressure information No 2 oil @ 5cst @ 20°C/68°F												
Application			Site supply information				Burner Pressure					
Boiler Hp	Burner Model	Nozzle Type	Oil supply pressure BAR (psi)	Oil supply volume kg/hr (lbs/hr)	Air supply pressure BAR (psi)	Air supply volume (CFM)	Low fire oil pressure BAR (psi)	Low fire oil volume Kg/hr (lbs/hr)	Low fire air pressure BAR (psi)	High fire oil pressure BAR (psi)	High fire oil volume kg/hr (lbs/hr)	High fire Air pressure BAR (psi)
300	LC36	-00-4	11 (160)	437 (961.4)	7 (101.5)	14	3.7 (53.65)	72.75 (160.05)	6 (*87)	8.36 (121.3)	291 (640.2)	6 (87)
350	LC44	-00-5	11 (160)	510 (1122)	7 (101.5)	16	3.4 (49.3)	85 (187)	6 (*87)	8.1 (117.45)	340 (748)	6 (87)
400	LC53	-00-6	11 (160)	583 (1282.6)	7 (101.5)	21	3.3 (47.85)	97.25 (213.95)	6 (*87)	7.8 (113.1)	389 (855.8)	6 (87)
500	LC62	-00-7	11 (160)	729 (1603.8)	7 (101.5)	25	3.49 (50.7)	121.5 (267.3)	6 (*87)	8.2 (118.9)	486 (1069.5)	6 (87)
600	LC73	-0-7	11 (160)	875 (1925)	7 (101.5)	30	3.5 (50.75)	145.75 (320.65)	6 (*87)	8.2 (118.9)	583 (1282.6)	6 (87)
700	LC88	-1-7	11 (160)	1020 (2244)	7 (101.5)	35	3.4 (49.3)	170 (374)	6 (*87)	8.1 (117.45)	680 (1496)	6 (87)
800	LC100	-2-7	11 (160)	1167 (2567.4)	7 (101.5)	41	3.3 (47.85)	194.5 (427.9)	6 (*87)	7.8 (113.1)	778 (1711.6)	6 (87)
900	LC123	-2-7	11 (160)	1312 (2886.4)	7 (101.5)	41	3.5 (50.75)	218.75 (481.25)	6 (*87)	8.4 (121.8)	875 (1925)	6 (87)
1000	LC123	-3-7	11 (160)	1458 (3207.6)	7 (101.5)	48	3.4 (49.3)	243 (534.6)	6 (*87)	8.3 (120.35)	972 (2138.4)	6 (87)
1200	LC150	-4-7	11 (160)	1749 (3847.7)	7 (101.5)	55	3.5 (50.75)	291.5 (641.3)	6 (*87)	8.4 (121.8)	1166 (2565.2)	6 (87)
1500	LC175	-6-7	11 (160)	2187 (4811.4)	7 (101.5)	72	2.8 (40.60)	364.5 (801.9)	6 (*87)	8.3 (120.35)	1458 (3207.6)	6 (87)

* The nozzle is designed for a constant air pressure of 87psi from low to high fire, however the burner is manufactured with an Autoflame servomotor and an air control valve to enable the air to be modulated to obtain optimum combustion. Please see the attached nozzle graphs.

All volumes are based on No2 oil @ 5cst @ 20°C/68°F.

Please note firing other Fuels may vary the nozzle selection, volumes and pressures.

Supply pressure must remain constant through out the burner firing range.

Supply pressures and volumes are the minimum requirements, on site pipe work lengths and sizing may affect this information due to increased pressure drops.

All pressures and volumes are based on a 4:1 turndown.

Low fire pressures and volumes will vary with higher turndowns if required.

Please contact Limpsfield for updated information to meet site specific applications.

Air compressor and fuel supply pump must be sized to meet the above requirements and supply a constant pressure and volume throughout the burner firing range.