Product Overview | Emulsion Oil Atomizer

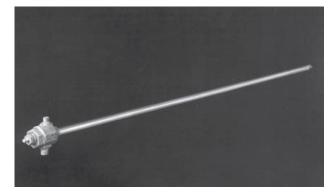
5642 Full Emulsion Atomizers use high pressure steam or compressed air to atomize liquid fuels. They are particularly suitable for burners on high temperature, continuous duty applications.

5642 Atomizers can be adapted to fit most burners, but they should not be used for low temperature furnaces or installations where cold lightings are frequent. Specify atomizer length ("L" dimension) to suit burner involved.

Matched sets of oil, steam, and emulsion orifices permit a wide range of atomizing capacities for each size atomizer. All orifices can be cleaned easily, and oil and steam orifices can be changed without removing the atomizer from the burner. Precision machining of orifices assures uniform distribution to all atomizers in a zone level (not at different elevations).

Atomizer bodies are cast bronze; all other parts are stainless steel.

A differential steam regulator is recommended for control of oil/ steam ratio. See Sheet 5642-1 for details.



REQUIREMENTS

Steam or compressed air should be furnished to the atomizer at 80 to 100 psi. Oil pressure at the atomizer is usually held 10 psi below steam pressure. Line pressure must be high enough to maintain these requirements allowing for pressure drops through metering and control systems.

Atomizing Medium Rates at Maximum Capacity

Fuel	lb. steam/ gallon oil	scf air/ gallon oil
#2	2.5	55.5
#6	4.0	88.8

These rates are at maximum atomizer capacity. At smaller capacities, total steam or compressed air consumption will decrease, although consumption per gallon of oil may be higher. In general, for atomizing purposes, 1 pound of steam is equivalent to 22 scf of air at the same pressures.

					OI	L CAPAC	ITI	ES					
(Based	on	80	psi	steam	at	atomizer;	for	#6	oil,	100	SSU	viscosity.)

Model No.	Oil Capa #2	city, gph #6	Model No.	Oil Capa #2	ıcity, gph #6
5642-02-5	8	5	5642-01-55	88	55
5642-02-10	16	10	5642-01-60	96	60
5642-02-15	24	15			
5642-02-20	32	20	5642-0-65	104	65
5642-02-25	40	25	5642-0-70	112	70
			5642-0-75	120	75
5642-01-30	48	30	5642-0-80	128	80
5642-01-35	56	35	5642-0-85	136	85
5642-01-40	64	40	5642-0-90	144	90
5642-01-45	72	45	5642-0-95	152	95
5642-01-50	80	50	5642-0-100	160	100