

OIL BURNERS

SERIES 5114

SAIFEE 5114 OIL BURNERS are sealed-in burners for light or heavy oil used for a wide variety of industrial applications. These burners are capable of efficient operation throughout a wide range of preheat air temperatures, and are equally stable on low temperature ovens as well as high temperature furnaces for reheating, forging, melting, drying etc.

The sealed mounting stops unwanted air from the atmosphere from entering the burner, which helps maintain furnace pressure, controlled atmosphere and better oil/air ratio for improved product quality.

Saifee burners are stable with 100% or more excess air. They can be turned down to atomizing air only, but stability limits vary depending on burner size and grade of oil. For prolonged operations with only atomizing air at temperatures above 850 C, please specify an alloy burner nose.

Burners are suitable for preheated combustion air up to 350 C. Oil viscosity at the burners should not exceed 100 SSU. Atomizing air pressure at the burner is 70 mbar for light oil and 100 mbar for heavy oil.

SAIFEE

COMBUSTION EQUIPMENT



JACKETED TILES: Saifee burners are available with support jackets around the tiles for applications where the tile is not supported by furnace refractory.

IGNITION / SUPERVISION: Saifee pilot burner can be used for auto ignition. Pilot operation should be interrupted after few seconds. A UV cell will monitor pilot or main frame.

TABLE 1: AIR CAPACITIES/ CHARACTERISTICS

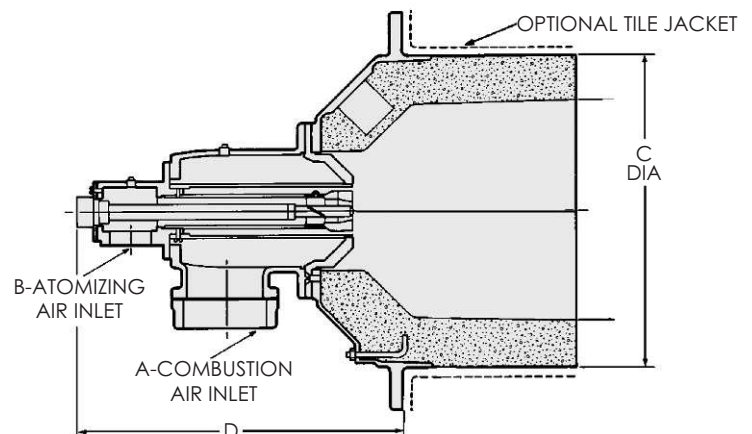
MODEL	COMBUSTION AIR (m ³ /hr) @ 70 mbar	ATOMIZING AIR (m ³ /hr) @ 95 mbar	OIL (LPH)	SENSITROL OIL VALVE MODEL	FLAME LENGTH (m) @ 70mbar MAIN AIR	APPROX WEIGHT (Kg)
SAIFEE 5114-6	422	100	46	1813-02C	1.5	72
SAIFEE 5114-7	691	133	72	1813-02D	2	95
SAIFEE 5114-8A	1200	215	125	1813-02D	3	135
SAIFEE 5114-8B	1982	374	208	1813-02D	4	184
SAIFEE 5114-9	4135	612	420	1813-01	5.5	318
SAIFEE 5114-10	6174	967	630	1813-01	6	445

For Kcal/hr, multiply total air (combustion air + atomizing air) by 880

TABLE 2: DIMENSION (INCH)

MODEL	DIMENSIONS IN INCH			
	A	B	C	D
SAIFEE 5114-6	3	1 1/2	15	380
SAIFEE 5114-7	4	2	16	420
SAIFEE 5114-8A	6	2 1/2	17 3/4	572
SAIFEE 5114-8B	6	3	19	598
SAIFEE 5114-9	8	4	23	762
SAIFEE 5114-10	10	6	27 1/2	865

Flanged Connection-a standard Saifee square threaded flange is used for size -6, -7, -8, -9 main air connections, but SW style inlet may be specified with no change in price. An SW inlet (suitable for slip-on or welded connections) is standard for -10 burners.



SAIFEE ENGINEERING INDUSTRIES

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