

OPEN DUAL FUEL BURNER

SERIES 6565



WESMAN

COMBUSTION EQUIPMENT

WESMAN 6565 OPEN DUAL-FUEL BURNERS provide low-maintenance operation with light oil, heavy oil or gas on ceramic kilns, forge furnaces, smelters and heat treatment furnaces. Their clean, straightforward design is resistant to coking and fouling when observing sound operating practices. 6565 Burners are best suited to furnaces operating at 870°C or higher. For good operation on colder furnaces, free air should be available in the furnace.

FUEL AND AIR REQUIREMENTS Oil viscosity at burners should not exceed 150 SSU. Oil pressure at the Ratiotrol is 25-30 psi. Minimum atomizing air pressure at the burner is 14 osi for light oil and 22 osi for heavy oil. Natural gas, propane or butane can be supplied to the burner at zero gauge pressure. Coke oven gas pressure at the burner should be 0.13 times main air pressure. Maximum combustion air pressure is 16 osi.

TURNDOWN For maximum turndown on light or heavy oil, 6565 Burners can be operated on atomizing air only. Burners should be operated rich when firing cold furnaces this way.



IGNITION AND FLAME SUPERVISION 6565 Burners are pilot or torch ignited with no provision for flame detectors.

FUEL CHANGEOVER requires brief burner shutdown to retract the oil tube (when switching to gas) or push it forward (when switching to oil).

CAPACITIES Total capacities in Table 1 include main and atomizing air. For total capacities other than those listed, combine main and atomizing air capacities from Tables 2 and 3. Capacities can be increased (if furnace conditions permit) by operating the burner rich and using secondary air through the burner register as additional combustion air.

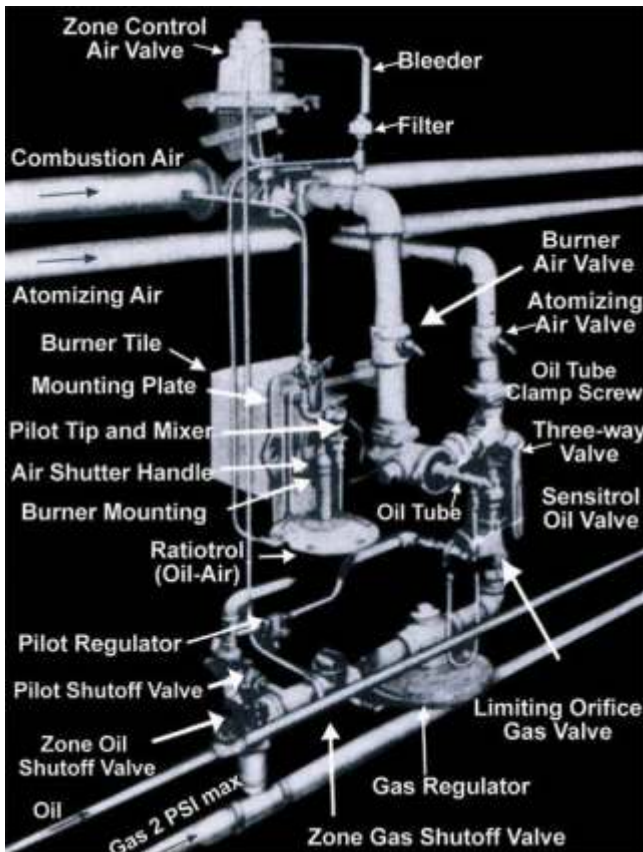


TABLE 1: TOTAL CAPACITIES

BURNER	16 OSI MAIN, 14 OSI ATOMIZING AIR AT BURNER			16 OSI MAIN, 22 OSI ATOMIZING AIR AT BURNER		
	AIR-cfh	GAS-cfh	OIL-cfh	AIR-cfh	GAS-cfh	OIL-cfh
6565-2	2840	284	2.0	3050	305	2.2
6565-4	7450	745	5.3	7900	790	5.6
6565-6	16900	1690	12.1	17900	1790	12.8

Gas and oil capacities in Table 1 are based on 1000 Btu/cu ft gas and 40,000 Btu/litre oil.

TABLE 2: MAIN AIR CAPACITIES IN CFH
MULTIPLY BY 100 TO GET BTU/HR

BURNER	AIR PRESSURE AT BURNER IN OSI						
	0.1	1	5	6	8	12	16
6565-2	158	500	1120	1220	1400	1720	2000
6565-4	459	1450	3250	3540	4080	5000	5800
6565-6	1030	3250	7300	7950	9150	11200	13000

TABLE 3: ATOMIZING AIR CAPACITIES IN CFH
MULTIPLY BY 100 TO GET BTU/HR

BURNER	AIR PRESSURE AT BURNER IN OSI					
	14	16	18	20	22	24
6565-2	840	900	955	1010	1050	1100
6565-4	1660	1780	1890	2000	2090	2180
6565-6	3920	4200	4450	4700	4920	5150

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