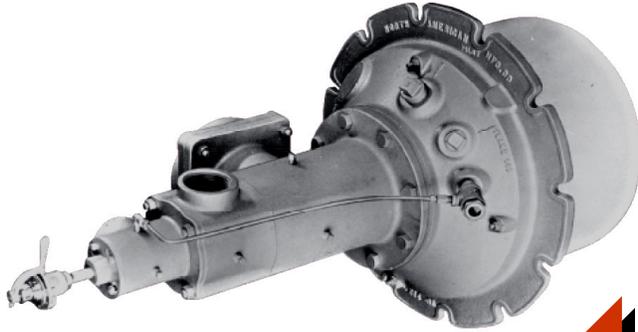




WESMAN

6514XP FIRE-ALL DUAL FUEL PRODUCER GAS BURNERS

6514XP BURNER



WESMAN 6514XP FIRE-ALL DUAL FUEL PRODUCER GAS BURNERS are specially designed for lean gas with calorific value of 1100 kcal/Nm³ and velocity 12 m/sec. Providing efficient operation across a wide temperature range, these burners are equally suitable on low temperature ovens or high temperature forge, melting and reheating furnaces.

Ruggedly built for continuous and maintenance-free operation, 6514XP burners allow quick changeover of fuels without disturbing operations.

OIL: Viscosity at burners must not exceed 100 SSU. The minimum atomizing air pressure at the burner is 800 mmwc for light oil and 970 mmwc for heavy oil.

GAS: Atomizing air should be left on at minimum 180 mmwc pressure to protect atomizer. Max required gas pressure at burner for stoichiometric ratio is 1/4 of combustion air pressure or 200 mm whichever is more.

AIR/FUEL RATIO: Wesman 6514XP burners are stable up to 100% excess air. They can also operate with excess fuel without forming carbon, but additional air for complete combustion must be available in the furnace near the burner.

PREHEAT AIR: Wesman 6514XP burners are built for use with ambient air but are also suitable for preheat air applications (up to 375°C preheat).

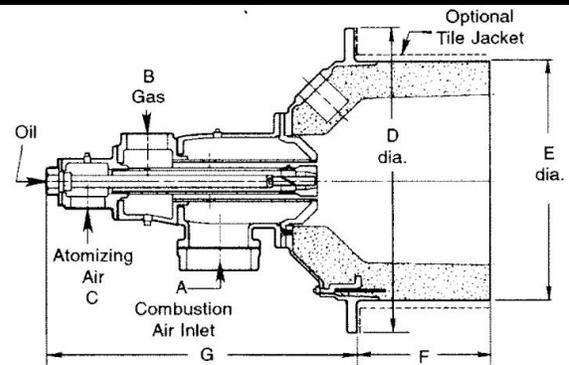
FLAME SUPERVISION: An ultraviolet cell will monitor pilot or main flame on gas or oil. For safety, use only interrupted LPG pilots which should be on for a preset ignition period (usually 15 seconds).

TILE INSTALLATION: Burner tiles are rated for 1500°C furnace temperature and should be supported securely in furnace wall by castable refractory (not insulation) at least 9" thick around tile, extending back to furnace shell and securely anchored to it. For walls thicker than length of tile, the tunnel beyond end of tile should be flared at a 30° angle, starting at tile OD.

AUTO CONTROL: 6514XP burners are not suitable or use with either mass flow control or pressure balance control due to presence of tar in the producer gas. Gas line items such as limiting orifice valve, metering orifice valve, air/gas ratio regulator are not recommended as they may get choked due to tar content in producer gas.

Wesman 6514XP burners can also be used with higher calorific value gases after modifications in internals.

Clearance Dimensions (mm)							
Burner	A	B	C	D	E	F	G
6514XP-9-F	203	102	102	711	584	343	1122
6514XP-10-G	253	152	152	826	699	341	1284
6514XP-10-H1	253	152	152	826	699	341	1284



Burner Model	Capacity		Combustion Air				Atomizing Air for oil	
			Volume m ³ /hr		Pressure mmwc		Volume m ³ /hr	Pressure mmwc
	PG m ³ /hr	Oil LPH	For gas	For oil	For gas	For oil		
6514XP-9-F	272	30	340	240	484	264	100	968
6514XP-10-G	544	60	680	546	704	440	134	968
6514XP-10-H1	816	90	1020	805	528	308	215	968

DIMENSIONS ARE SUBJECT TO CHANGE. WESMAN RESERVES THE RIGHT TO MAKE CHANGES IN SPECIFICATIONS AND FEATURES FOR CONTINUOUS DEVELOPEMENT AND IMPROVEMENT.