



SDC - TERI

Dhanaprakash
Industrial Corporation



Automated, Energy Efficient, Smokeless

Combustion Technology

INNOVATIONS

Diesel, Gas, Dual fired, Radiant Burners for Industrial Application based on following concepts.

CONCEPT

- Perfect combustion(100%).
- Appropriate combustion.
- Process - Combustion Physical Separation.
- Excess air Control.
- Fuel & Air On/Off.
- High Convection Turbulence, Churning of furnace Gases.
- Compatible to any PID, PLC, VLCC control system.
- Burner & Furnace match for each other.



COMBUSTION AUTOMATION

- Each Burner has Burner Sequence Controller for operation.
- Flame Sensor.
- Separate Burner Control Panel.

TEMPERATURE CONTROL AUTOMATION & RECORDING

- Compatible to PID, PLC, Micro controllers.
- Std 8 step Ramp Soak Profile & 10 Profile memory or more.
- Complete Safety - PLC control.
- Paperless Graph on HMI, PC Connectivity.

MODELS

Model	Fuel	kW	Capacity	Flame Length	Oil/Gas Pressure	Air Pressure	Air Volume Max
HVO - 15	Diesel	150	05-15 lit/hr	230mm	10 Bar	80mbar	225 m ³ /hr/burner
HVO - 25	Diesel	250	10-25 lit/hr	300mm	10 Bar	80mbar	375 m ³ /hr/burner
HVO - 50	Diesel	500	20-50 lit/hr	400mm	10 Bar	80mbar	750 m ³ /hr/burner
HVG - 15	LPG, NG	150	05-12 kg/hr	230mm	80 mbar	60mbar	225 m ³ /hr/burner
HVG - 25	LPG, NG	250	10-20 kg/hr	300mm	80 mbar	60mbar	375 m ³ /hr/burner
HVG - 50	LPG, NG	500	20-50 kg/hr	400mm	80 mbar	80mbar	750 m ³ /hr/burner
HVD - 15	Diesel + Gas	150	05-15 kg/hr	230mm	10 mbar	80mbar	225 m ³ /hr/burner
HVD - 25	Diesel + Gas	250	10-20 kg/hr	300mm	10 mbar	80mbar	375 m ³ /hr/burner
HVD - 35	Diesel + Gas	350	15-35 kg/hr	350mm	10mbar	80mbar	550 m ³ /hr/burner
HVD - 50	Diesel + Gas	500	20-50 kg/hr	400mm	10 mbar	80mbar	750 m ³ /hr/burner

APPLICATIONS

Heat Treatment

- Electrical Bogie Hearth, Tempering, Normalizing, Hardening- Tempering, Atmosphere controlled, Blueing, Burnout, Wire Annealing.

Aluminum Industry

- Holding, Solution Treatment, Ageing, Ovens, Flash Annealing, Collapsible AI Product Processing AI-Cu-Brass, Billet Heating, Wire Annealing.

Ceramic Glass

- Enameling, Glass, Luster.

Surface Coating

- Copper Wire enameling, Teflon Coating, Powder Coating, Paint Baking, Stator Enamel Baking, Submerged Tank Heating, Resin Coated sand mixers.

Ovens

- Foundry Core baking, food products, granule drying.

ACHIEVEMENTS

- More than 2000 Burners in operation,
- More than 200 Retrofit Applications,
- Installations using these Burners 150 Heat Treatment Furnaces,
- 200+ Ladle Preheaters.
- 200+ Other Foundry/Forging Equipments,
- 2 Nos. 100MT Heat Treatment Furnaces.

COMMITMENT

Committed To Customer - Satisfaction driven performance package of concept to commissioning



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