FOUNDRY & WELDING OVENS

Dual Fuel Electrode Baking Oven

Electrode baking oven that runs on electricity or LPG/PNG, switched by a selector on the panel.



TEMPERATURE
80°C to 450°C

HEATING
Dual fuel: electric and gas (LPG/PNG)

INDUSTRIES
Welding electrode manufacturing

Specifications

Working temperature	80°C to 450°C
Electric heating	about 120 kW sealed heaters in Inconel tubes (sized to load)
Gas heating	2 LPG/PNG burners in SS-304 firing chamber
Fuel change	selector switch on control panel
Air circulation	2 HP fans
Moisture removal	exhaust blower with cyclic timer
Construction	three-wall, 2.5 mm SS-304 firing chamber
Insulation	150 mm ceramic fibre and mineral wool on six sides
Control	PID with 3-point recorder and thyristor; PLC optional

Features

- Run on electricity or gas from the same panel
- Keeps production going through power or gas interruptions
- Choose the cheaper fuel for each shift
- Burner fires in a separate chamber, away from the electrodes
- Burner-fail alarm and flame safety controls
- Trolley loading for heavy charges
- Batch or continuous designs

Applications

- Baking of low-hydrogen electrodes
- Drying of rutile and general purpose electrodes
- Special and stainless steel electrodes
- Plants with frequent power cuts
- Plants with piped PNG supply
- Gas to electric or electric to gas conversions