PRODUCT DATASHEET

Electric Fuel-Gas and Process Heater Package

Electric heaters with Ex control panels for fuel gas and process streams

Product page





Close-up: heating bundle flange and terminal box

OVERVIEW

The Tech Inc. Electric Fuel-Gas and Process Heater Package heats fuel gas and process streams with electricity, where there is no steam or where a burner is not wanted. The flowing gas passes through a pressure vessel holding electric heating elements; a thyristor control panel sets the outlet temperature, and independent high-temperature cut-outs on the elements and the outlet protect the package.

TYPICAL DESIGN DATA

Duty	About 50 kW to 1 MW
Pressure	To ASME Class 600
Outlet temperature	To about 200 °C, controlled
Codes and standards	ASME VIII vessel; ASME B31.3 piping; electrical to IEC 60079 for the zone
Elements	Sheathed elements in Alloy 800 or stainless, low watt density for gas
Control	Thyristor control with element and outlet cut-outs
Area classification	Ex-certified heater terminal box and panel for Zone 1 or 2

MODELS AND CAPACITIES

- **TI-EFH-50** – about 50 kW
- **TI-EFH-150** – about 150 kW
- **TI-EFH-400** – about 400 kW
- **TI-EFH-1000** – about 1 MW

Indicative heater duty.

ORDERING CODE

Example **TI-EFH-150-600-X**: **150** duty, kW; **600** ASME pressure class; **X** panel: X Ex panel, S safe-area panel.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual.
Options: ex control panel; combined filter and pressure-reduction skid; spare heating bundle; insulation and cladding.

KEY ADVANTAGES

- **Precise** – thyristor control of outlet temperature
- **Protected** – element and outlet cut-outs
- **No combustion** – no flame or flue on site
- **Compact** – skid package

How to cite: Electric Fuel-Gas and Process Heater Package (model TI-EFH; Tech Inc., Vaughan, Ontario, Canada). www.techincresearch.com/product-page/electric-fuel-gas-heater-package

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**
Offices: Chennai · Toronto · Tallinn · Al Khobar
mail@techincresearch.com · +1 (289) 622-1032 · www.techincresearch.com

Disclaimer: All products, designs and content are the property of Tech Inc. Tech Inc. reserves the right to change specifications and details without notice. Images are for representation only; the supplied equipment may differ in appearance. Data are typical; final design to client specification.