PRODUCT DATASHEET

Electric Circulation Heater Skid for Liquids

Electric in-line heater skid for process liquids, with pump and thyristor control

Product page





Close-up: clad circulation heater with terminal box, outlet temperature sensor and control valve

OVERVIEW

The Tech Inc. Electric Circulation Heater Skid for Liquids heats a process liquid as it flows through an electric circulation heater: a flanged bundle of sheathed elements inside an insulated vessel. A pump drives the liquid through the heater, and a thyristor panel holds the outlet temperature, with high-limits on the element sheath and the outlet.

TYPICAL DESIGN DATA

Duty	Flow and temperature rise to your process
Elements	Sheath material and watt density chosen for the liquid
Control	Thyristor power control on outlet temperature; sheath and outlet high-limits; low-flow interlock
Codes and standards	PED 2014/68/EU or ASME Section VIII; IECEx or ATEX for Ex builds; CE marking
Wetted parts	Stainless steel or alloys to suit the liquid
Hazardous area	Ex builds to IECEx or ATEX as required
Construction	Painted steel base frame with drip tray; insulated and clad heater and pipework

MODELS AND CAPACITIES

- **TI-ECH-V** – vertical heater skid
- **TI-ECH-H** – horizontal heater skid
- **TI-ECH-X** – hazardous-area build

Heaters are built to your liquid, flow, temperature rise and pressure.

ORDERING CODE

Example **TI-ECH-V-60**: **V** type: V vertical, H horizontal, X hazardous area; **60** heater power in kW.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** duty/standby pumps; ex build; heat-up and cool-down programs; installation, commissioning and operator training.

KEY ADVANTAGES

- **Clean heat** – no fuel, flue or condensate
- **Precise** – thyristor control on outlet temperature
- **Product-safe** – watt density matched to the liquid
- **Protected** – sheath and outlet high-limits, low-flow interlock

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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