PRODUCT DATASHEET

Fuel Gas Conditioning Skid

Clean, dry, superheated fuel gas for turbines





DETAIL – VESSEL HEAD

OVERVIEW

The Tech Inc. Fuel Gas Conditioning Skid delivers clean, dry, superheated gas at stable pressure to gas turbines, engines and fired heaters. It removes liquids and solids, heats the gas above its hydrocarbon dew point and regulates it to the pressure the consumer needs.

MODELS AND CONFIGURATIONS

- **For gas turbines** – conditions gas to the turbine maker's fuel specification for cleanliness, superheat and supply pressure.
- **For gas engines** – filtration, regulation and metering sized for gas engines and generator sets.
- **For heaters and boilers** – clean, regulated gas to fired heater and boiler burners.

TYPICAL DESIGN DATA

Superheat	Typically 28 °C (50 °F) above hydrocarbon dew point, or to client specification
Filtration	Typical removal to 0.3 µm, or to client specification
Heater	Electric or shell-and-tube, sized to the flow and required superheat
Outlet pressure	Regulated to the consumer's supply pressure, or to client specification
Flow	Sized to the fuel demand of the turbine, engine or heater
Pressure vessels	Designed to ASME VIII or client specification
Materials	Selected for the gas composition and design conditions, or to client specification

APPLICATIONS

Power generation, compressor stations, refineries, gas processing plants, offshore utilities.

KEY ADVANTAGES

- **Protected combustion equipment** – knock-out drum and filtration to 0.3 µm keep liquids and solids out of turbines, engines and burners
- **No condensation downstream** – superheat above the hydrocarbon dew point stops liquids forming in the supply line
- **Stable fuel pressure** – regulation holds the supply pressure within the consumer's limits
- **Online maintenance** – duplex designs allow element changes without interrupting fuel supply
- **Vessels and elements from one factory** – filter elements, housings and pressure vessels are made by Tech Inc

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.