PRODUCT DATASHEET

Instrument-Gas Conditioning Skid

Heats, filters, separates and regulates natural gas for pneumatic instruments

Product page





Close-up: scrubber, heater and regulator train

OVERVIEW

The Tech Inc. Instrument-Gas Conditioning Skid turns raw or line gas into clean, dry, regulated supply for pneumatic instruments, controllers and actuators at sites with no instrument air. The gas is heated to stay above its dew point after pressure reduction, passed through a scrubber and coalescing filter to remove liquids and particles, reduced in stages to the instrument pressure and stored in a small volume tank so actuators have gas when they stroke.

TYPICAL DESIGN DATA

Inlet pressure	To about 100 barg
Outlet pressure	About 2 to 10 barg
Gas quality	Liquid-free, filtered to about 1 µm
Heating	Catalytic, electric or line heater sized for the pressure drop
Materials	Carbon steel or 316L; NACE MR0175 / ISO 15156 for sour gas
Design code	ASME B31.3 and ASME VIII for vessels

MODELS AND CAPACITIES

- **TI-IGC-10** – about 10 Sm^3/h
- **TI-IGC-30** – about 30 Sm^3/h
- **TI-IGC-100** – about 100 Sm^3/h
- **TI-IGC-H** – with gas heater

Indicative instrument-gas flow.

ORDERING CODE

Example **TI-IGC-30-H-S**: **30** flow, Sm^3/h; **H** heater: H heated, N none; **S** service: S sweet, R sour to NACE MR0175 / ISO 15156.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** catalytic or electric heater; solar power for signals; pressure and temperature transmitters; duplex filters for change without shutdown; sunshade and enclosure.

KEY ADVANTAGES

- **Reliable instruments** – clean, dry, regulated gas
- **Compact** – skid for unmanned sites
- **No freezing** – heater offsets the pressure-drop cooling
- **Sour-ready** – materials to NACE MR0175

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

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