PRODUCT DATASHEET

Seal Gas Conditioning Skid

Retrofit skid that protects compressor dry gas seals





DETAIL – FILTER VESSELS

OVERVIEW

The Tech Inc. Seal Gas Conditioning Skid heats, dries and filters the gas that feeds a compressor's dry gas seals, and boosts it at start-up, keeping liquids and dirt away from the seal faces. It is designed as a retrofit for compressors with repeated seal failures, or as part of a full seal system upgrade.

MODELS AND CONFIGURATIONS

- **Retrofit GCU skid** – gas conditioning unit (GCU) with heater, knock-out, coalescer and booster, about 800 Nm^3/h at 70–100 barg.
- **Start-up / settle-out booster module** – keeps seal gas flowing during start-up and at settle-out pressure; air-driven for start-up, or selected to the duty for long pressurised holds.

TYPICAL DESIGN DATA

Seal gas flow	Typically about 800 Nm^3/h, or to client specification
Operating pressure	Typically 70–100 barg, or to client specification
Conditioning	Heating, liquid knock-out, coalescing and particle filtration
Filter housings	Duplex, for element change while running
Booster	Air-driven for start-up duty; for long settle-out holds, selected to the duty or to client specification
Seal system design	Designed to API 692 or client specification
Vessels	Designed to ASME VIII or client specification

APPLICATIONS

Hydrogen-recycle and wet-gas compressors at refineries, gas plant and export compressors, petrochemical process compressors, and pipeline compressor stations.

KEY ADVANTAGES

- **Protects seal faces** – dry, clean, superheated seal gas at every operating point
- **Fewer seal failures** – less unplanned downtime and fewer seal replacements
- **Start-up cover** – the booster keeps seal gas flowing when the compressor is not yet making pressure
- **Element changes while running** – duplex housings avoid a shutdown for filter changes
- **Retrofit design** – built to fit compressors already in service

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

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