PRODUCT DATASHEET

High-Pressure Oil-Removal Coalescer Skid

Removes oil mist after gas compressors





DETAIL – HIGH-PRESSURE COALESCER HOUSINGS

OVERVIEW

The Tech Inc. High-Pressure Oil-Removal Coalescer Skid removes oil aerosol, droplets and fine solids from gas leaving a lubricated compressor, before the gas reaches storage, dispensers, analysers or downstream process units. Oil carried over from cylinder lubrication fouls catalysts, membranes, meters and fuel-cell users, and this skid stops it at the source.

MODELS AND CONFIGURATIONS

- **Single-stage coalescer** – one coalescer housing for clean services.
- **Two-stage skid** – particle pre-filter followed by a high-efficiency coalescer.
- **Duty/standby skid** – twin trains for element changes without stopping the compressor.
- **Polishing version** – adds an activated-carbon adsorber for oil vapour.

TYPICAL DESIGN DATA

Design pressure	To client specification, including high-pressure CNG and hydrogen service
Design code	Pressure parts designed to ASME VIII, or client specification
Wetted materials	Carbon steel or SS316, or to client specification
Elements	Coalescer grades selected to the required outlet oil content
Instrumentation	Differential pressure across each stage; level indication on drain pots

APPLICATIONS

CNG and hydrogen compressor discharge, process gas compressors, instrument and fuel gas after compression, gas injection and booster packages.

KEY ADVANTAGES

- **Protects downstream equipment** – oil stopped before it reaches meters, membranes and catalysts
- **Rated for the duty** – housings designed for the compressor discharge pressure
- **Element changes on line** – duty/standby trains keep the compressor running
- **Same supplier for elements** – replacement coalescer elements from our filter range

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

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