PRODUCT DATASHEET

Tank Vapour Recovery Unit (VRU)

Screw-compressor VRU for tank vents, 0.1–0.5 MMSCFD





DETAIL – PIPEWORK

OVERVIEW

The Tech Inc. Tank Vapour Recovery Unit (VRU), model TI-VRU-S0.5, captures the gas vented from storage tanks and puts it back to use instead of releasing or flaring it. The screw-compressor skid is sized for typical vent flows of 0.1–0.5 MMSCFD (million standard cubic feet a day) from crude, condensate and produced-water tanks.

MODELS AND CONFIGURATIONS

- **TI-VRU-S0.5** – screw-compressor skid for 0.1–0.5 MMSCFD.
- **Single or duty/standby** – one compressor, or two for sites that cannot vent during maintenance.
- **Discharge options** – to fuel gas, a gas gathering line or a flare gas recovery system.

TYPICAL DESIGN DATA

Capacity	Typically 0.1–0.5 MMSCFD, or to client specification
Compressor	Screw type, motor-driven, with variable-speed control
Suction	Low-pressure tank vapour, held within tank design limits
Discharge pressure	To suit the receiving system, or to client specification
Materials	Carbon or stainless steel to suit the vapour composition, or to client specification
Hazardous area	Electrical equipment selected for the hazardous-area classification, or to client specification
Controls	PLC with suction pressure control, alarms and shut-downs

APPLICATIONS

Crude oil and condensate storage tanks, produced-water tanks, production and gathering stations, tank farms and terminals, and refinery tankage.

KEY ADVANTAGES

- **Gas back into use** – vented vapour becomes fuel or sales gas
- **Lower emissions** – less vapour to atmosphere or to flare
- **Tank protection** – suction control holds tank pressure within its limits
- **Wide turndown** – variable speed and recycle follow changing vent flows
- **Compact skid** – compressor, scrubbers, coolers and controls on one base frame

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

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