PRODUCT DATASHEET

Hydraulic Oil Dehydrator with Fine Filtration

Vacuum dehydrator with 3-micron filter for hydraulics





DETAIL – VESSEL HEAD

OVERVIEW

The Tech Inc. Hydraulic Oil Dehydrator with Fine Filtration (model TI-VDS25H) removes water and fine particles from hydraulic oil in one pass. A vacuum stage boils off free, emulsified and dissolved water at low temperature, and a 3-micron fine filter cleans the oil before it returns to the tank.

MODELS AND CONFIGURATIONS

- **TI-VDS25H** – vacuum hydraulic oil dehydrator with 3-micron fine filter.
- **Fixed or mobile mounting** – on a base frame beside the power unit, or on wheels to serve several systems, to client specification.
- **Yearly oil-care contract** – oil checks, filter element changes and dehydrator servicing.

TYPICAL DESIGN DATA

Fine filtration	3 micron, or to client specification
Oil flow	Sized to the hydraulic system, or to client specification
Process	Vacuum dehydration at low temperature, followed by fine filtration
Water removed	Free, emulsified and dissolved water
Fluids	Mineral hydraulic oil, or to client specification
Vacuum pump	A proven component from leading makers
Controls	PLC with water-in-oil sensor, filter differential-pressure alarm and interlocks

APPLICATIONS

Hydraulic gauge control (HGC/AGC) systems, mill hydraulic power units, servo and proportional valve circuits, hydraulic systems exposed to cooling water, and oil reconditioning after water ingress.

KEY ADVANTAGES

- **Two jobs in one unit** – water removal and 3-micron filtration in a single pass
- **Protects servo valves** – clean, dry oil reduces valve sticking and wear
- **Low-temperature drying** – vacuum removes water without overheating the oil
- **Oil stays in service** – reconditioning avoids a drain and refill
- **Compact** – sized for hydraulic systems smaller than the main mill oil system

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

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