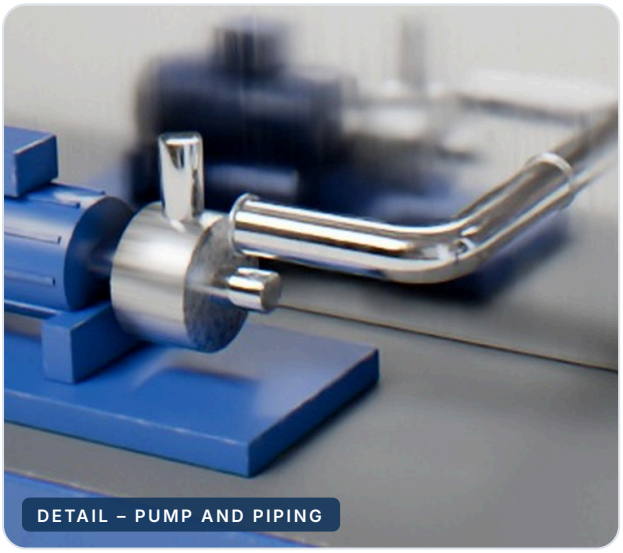
PRODUCT DATASHEET

Induced Gas Flotation (IGF) Unit

Gas flotation deoiler for produced water





DETAIL – PUMP AND PIPING

OVERVIEW

The Tech Inc. Induced Gas Flotation (IGF) Unit separates dispersed oil and fine solids from produced water. Gas induced into the water as fine bubbles attaches to the oil droplets and lifts them to the surface, where the oily froth is skimmed off.

MODELS AND CONFIGURATIONS

- **TI-IGF-50** – induced gas flotation deoiler for 50,000 barrels of produced water a day.
- **Multi-cell horizontal unit** – flotation cells in series for the standard duty.
- **Parallel units** – two or more units for larger flows or spare capacity.

TYPICAL DESIGN DATA

Capacity	Typically 50,000 barrels a day per TI-IGF-50 unit, or to client specification
Flotation gas	Produced gas, fuel gas or nitrogen, to client specification
Inlet oil content	Sized to the duty, or to client specification
Outlet quality	To suit the downstream filter or the injection specification
Vessel	Designed to ASME VIII or client specification
Materials	Carbon steel with internal coating, or stainless steel, to client specification
Rotating equipment	Proven pumps from leading makers, packaged on a skid designed and built by Tech Inc.
Control	PLC with level and skim control, and signals to the plant DCS or SCADA

APPLICATIONS

Produced-water deoiling, secondary separation upstream of nutshell filters, water injection and waterflood projects, disposal-well protection, and onshore and offshore production facilities.

KEY ADVANTAGES

- **Effective oil removal** – fine gas bubbles lift dispersed oil droplets to the surface for skimming
- **Compact footprint** – a short residence time keeps the vessel small compared with gravity skim tanks
- **Handles load swings** – cells in series smooth out changes in inlet oil content
- **Closed gas system** – the gas blanket and vent keep hydrocarbon vapour contained
- **Skid-mounted delivery** – vessel, pumps, piping and controls tested before shipment

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

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