PRODUCT DATASHEET

Grease Contactor and Kettle Skid

Pressure contactors, finishing kettles and milling for lubricating grease

Product page





Close-up: scraper kettle drive and mill

OVERVIEW

The Tech Inc. Grease Contactor and Kettle Skid makes lubricating grease in two steps: saponification under pressure in a contactor, then cooling, base-oil addition and finishing in an open kettle. Thermal-oil jackets heat both vessels, scraper agitators keep the thick grease moving along the walls, and a homogeniser or mill gives the final texture.

TYPICAL DESIGN DATA

Contactor	To about 10 barg and about 230 °C
Kettle	Atmospheric, to about 230 °C
Materials	Carbon steel or 304 and 316 stainless, to the product range
Heating	Thermal oil in jackets; cooling through the same jackets
Agitation	Counter-rotating scrapers and high-shear circulation
Design code	ASME VIII Div. 1 for the contactor

MODELS AND CAPACITIES

- **TI-GCK-100** – about 100 kg, pilot
- **TI-GCK-3000** – about 3 t
- **TI-GCK-10000** – about 10 t
- **TI-GCK-1000** – about 1 t
- **TI-GCK-6000** – about 6 t

Indicative batch sizes of finished grease.

ORDERING CODE

Example **TI-GCK-3000-CK-M**: **3000** batch size, kg; **CK** vessels: CK contactor and kettle, K kettle only; **M** finishing: M mill, H homogeniser, D deaerator.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual.
Options: thermal-oil heater and cooling unit; deaerator; base-oil and additive metering skid; grease filling machine connection; pilot plant for formulation.

KEY ADVANTAGES

- **Shorter batches** – saponification under pressure
- **Even texture** – scraper agitation and milling
- **Repeatable** – recipe-controlled temperature profiles
- **Code-built** – ASME pressure contactor

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