PRODUCT DATASHEET

Control Oil and Jacking Oil HPU Module

Replacement HPU modules for turbine oil systems





DETAIL – ACCUMULATORS

OVERVIEW

The Tech Inc. Control Oil and Jacking Oil HPU Module replaces the hydraulic power units (HPUs) in the turbine oil systems of steam turbine-generators at power plants. Control-oil units supply clean, high-pressure oil to the turbine governing and trip valve actuators, while jacking-oil units lift the rotor on an oil film at low speed and on turning gear to protect the journal bearings.

MODELS AND CONFIGURATIONS

- **Control-oil HPU module** – supplies the turbine governing and trip valve actuators.
- **Jacking-oil HPU module** – high-pressure oil lift for turbine-generator bearings at low speed.
- **Seal-oil skid sub-assemblies** – re-engineered pump, filter and valve assemblies for generator seal-oil systems.

TYPICAL DESIGN DATA

Design basis	Site survey and measured samples of the existing unit, with original data where available
Pressure and flow	Matched to the existing duty, or to client specification
Fluid	Turbine oil or fire-resistant fluid, to client specification
Filtration	Duplex filters for change while running, to the turbine's cleanliness requirement
Interfaces	Footprint, piping and electrical connections matched to the existing installation
Piping materials	Stainless steel or carbon steel, to client specification
Bought-in equipment	Proven pumps and accumulators from leading makers, integrated into a module designed and built by Tech Inc.

APPLICATIONS

Steam turbine control-oil systems, turbine-generator jacking oil, generator seal-oil systems, fuel-oil skids, coal-fired and other thermal power plants, and captive power plants.

KEY ADVANTAGES

- **Drop-in replacement** – interchangeable with common OEM designs and matched to existing interfaces
- **No drawings needed** – modules engineered from site measurements and samples
- **Filter change on line** – duplex housings keep the turbine running during element change
- **Duty and standby pumps** – automatic changeover holds oil pressure if a pump trips

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

Offices: Chennai · Toronto · Tallinn · Al Khobar

mail@techincresearch.com · +1 (289) 622-1032 · www.techincresearch.com

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