PRODUCT DATASHEET

Industrial Rotary Evaporator Skid (50 L)

50 L rotavap skid, 20 L/h ethanol, GMP or flameproof





DETAIL – EVAPORATOR, CONDENSER AND RECEIVERS

OVERVIEW

The Tech Inc. Industrial Rotary Evaporator Skid (50 L) removes solvents such as ethanol, acetone, methanol and hexane from extracts and reaction mixtures under vacuum, and condenses them for reuse. It is supplied as one skid with the 50-litre rotary evaporator, vacuum pump, chiller, controls and solvent tanks, so a kilo lab or extract plant connects power and starts work.

MODELS AND CONFIGURATIONS

- **TI-REV-50** – single 50-litre skid, 20 L/h of ethanol, with documentation for GMP use.
- **TI-REV-50EX** – flameproof single 50-litre skid for classified solvent rooms.
- **TI-REV-250EX** – twin 50-litre flameproof skid, 40 L/h of ethanol, for larger daily volumes.

TYPICAL DESIGN DATA

Flask size	50 litres per evaporator
Evaporation rate	20 L/h of ethanol (single), 40 L/h (twin)
Rating condition	80 °C bath, 175 mbar and −10 °C coolant; at 175 mbar ethanol boils at about 40 °C
Solvents	Ethanol, acetone, methanol and hexane, or to client specification
Electrical	Safe-area or flameproof motors, pump and controls to client specification
Controls	GMP documentation; audit trail, user logins and e-signatures to 21 CFR Part 11 on request
Materials	Borosilicate glass, PTFE seals and stainless steel frame

APPLICATIONS

Concentration of botanical and herbal extracts, solvent recovery in kilo labs and pilot plants, concentration of API intermediates, flavour and fragrance work and natural-products research.

KEY ADVANTAGES

- **Complete package** – evaporator, vacuum, cooling, controls and tanks on one frame, tested together
- **Rated capacity** – evaporation rate stated at a defined bath, vacuum and coolant condition
- **Flameproof option** – flameproof drives and components for solvent rooms
- **GMP ready** – documentation and electronic records for regulated plants
- **Scalable** – single, twin and continuous falling-film units on one design basis

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

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