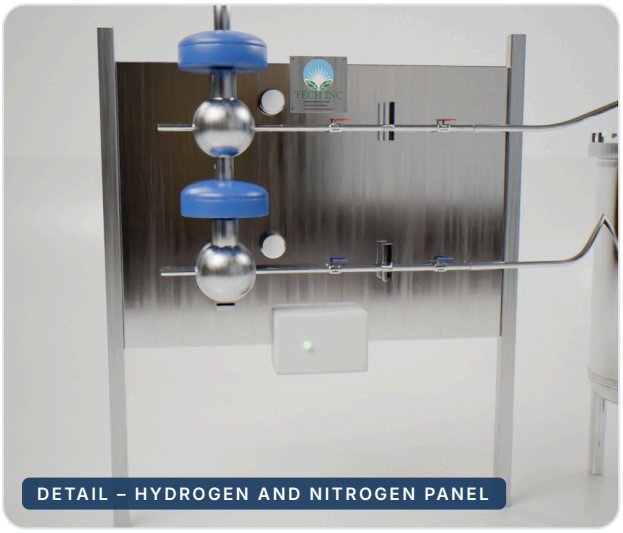
PRODUCT DATASHEET

Hydrogenation Bay Kit

H2/N2 panel, catalyst filter and closed sampler





DETAIL – HYDROGEN AND NITROGEN PANEL

OVERVIEW

The Tech Inc. Hydrogenation Bay Kit (model TI-HBK) equips the hydrogenation bay of drug and chemical plants in one package. A gas panel feeds hydrogen to the reactor and purges it with nitrogen, a closed candle filter recovers the catalyst on reusable sintered-metal candles, and a closed reactor sampler lets operators follow the reaction without opening the reactor.

MODELS AND CONFIGURATIONS

- **TI-HBK** – complete kit: gas panel, candle filter and reactor sampler.
- **Gas panel only** – hydrogen and nitrogen panel for an existing hydrogenation reactor.
- **Candle filter only** – closed catalyst filter sized to the batch and catalyst load.

TYPICAL DESIGN DATA

Gases	Hydrogen feed and nitrogen purge
Filter elements	Reusable sintered-metal candles with back-pulse cleaning
Wetted materials	SS316L, or to client specification
Design code	Designed to ASME VIII or client specification
Hazardous area	Components for classified areas, to client specification
Controls	PLC with automatic purge and filtration sequences

APPLICATIONS

Hydrogenation of drug intermediates and APIs, fine and specialty chemicals, aroma chemicals and catalyst recovery.

KEY ADVANTAGES

- **One package** – gas supply, filtration and sampling designed together
- **Closed operation** – catalyst and solvent stay inside the system
- **Catalyst recovery** – precious-metal catalyst recovered on reusable candles
- **Safer purging** – automatic nitrogen purge before and after each hydrogen step

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

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