PRODUCT DATASHEET

Post-Combustion CO_2 Capture Membrane Pilot Skid

Slipstream pilot skid testing membrane modules on real flue gas, two stages with vacuum

Product page





Close-up: two membrane stages with module racks and the CO_2 analysers

OVERVIEW

The Tech Inc. Post-Combustion CO_2 Capture Membrane Pilot Skid takes a slipstream of real flue gas from a boiler, furnace, kiln or engine and tests membrane modules on it.

TYPICAL DESIGN DATA

Flue gas	Slipstream from your stack; composition and flow to site data
Pretreatment	Knock-out drum, particulate filter, cooler; SO_2 polishing option
Membranes	Module racks for hollow-fibre or spiral-wound modules; module sizes to order
Codes and standards	PED 2014/68/EU or ASME B31.3 for pressure parts as required; CE marking
Driving force	Feed blower or compressor and vacuum pumps on the permeates
Analysis	CO_2 on feed, permeates, product and residue; O_2 and moisture options
Results	Capture rate, product purity, specific energy and trends over time

MODELS AND CAPACITIES

- **TI-PCM-S** – single-stage pilot
- **TI-PCM-2** – two-stage pilot
- **TI-PCM-C** – containerised pilot for outdoor sites

Pilot skids are built to the flue-gas flow and module type you test.

ORDERING CODE

Example **TI-PCM-2**: **2** type: S single-stage, 2 two-stage, C containerised.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual.
Options: containerised build; SO_2 polishing; CO_2 compression and dehydration of the product.

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