PRODUCT DATASHEET

Sterile Air and Gas Filtration Skid

0.2 µm membrane filtration for fermenters, tanks and powder transfer

Product page





Close-up: sterile filter housings

OVERVIEW

The Tech Inc. Sterile Air and Gas Filtration Skid makes compressed air, nitrogen and CO_2 sterile before they reach fermenters, product tanks and powder lines. Prefilters protect 0.2 µm hydrophobic PTFE membrane cartridges in steam-sterilisable housings, with connections for integrity testing.

TYPICAL DESIGN DATA

Sterile filter	0.2 µm hydrophobic PTFE membrane cartridges
Housings	316L, steam-sterilisable
Pressure	To about 10 barg
Codes and standards	Pressure parts to PED or ASME VIII; hygienic design to ASME BPE practice
Integrity testing	Connections for diffusion and water-intrusion tests
Finish	Polished, sanitary connections
Elements	Replacement cartridges supplied

MODELS AND CAPACITIES

- **TI-SAF-50** – about 50 Nm³/h
- **TI-SAF-250** – about 250 Nm³/h
- **TI-SAF-1000** – about 1,000 Nm³/h
- **TI-SAF-3000** – about 3,000 Nm³/h, multi-round housing

Indicative air flows at about 6 barg.

ORDERING CODE

Example **TI-SAF-250-F-D**: **250** air flow, Nm³/h; **F** duty: F fermenter inlet, V tank vent, G gas line; **D** S single, D duplex.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual.
Options: filter integrity tester; duplex housings for continuous supply; heated vent filters for tanks; spare cartridges; steam traps and condensate kit.

KEY ADVANTAGES

- **Sterilising grade** – 0.2 µm membrane cartridges
- **Testable** – integrity-test connections
- **Steam-sterilisable** – 316L housings
- **Spares on hand** – cartridges from the same supplier

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