PRODUCT DATASHEET

Polypropylene Capsule Filters

Polypropylene capsules, 0.2 to 20 µm, lab to pilot scale





DETAIL – THREE CAPSULE SIZES

OVERVIEW

The Tech Inc. Polypropylene Capsule Filters combine a pleated polypropylene depth and membrane media cartridge and a polypropylene housing in one sealed, ready-to-use unit for prefiltration and clarification of acids, bases, solvents and high-solids liquids, protecting final membrane filters downstream. There is no housing to clean or validate, and each size uses the same media from bench to pilot.

MODELS AND CONFIGURATIONS

- **Depth grades 1 to 20 µm** – prefiltration of loaded liquids.
- **Membrane grades 0.2 and 0.45 µm** – final clarification.
- **All-polypropylene** – acids and bases.
- **Large area** – high dirt holding.

TYPICAL DESIGN DATA

Model series	TI-CF-PP-S, -M and -L
Media	Pleated polypropylene depth and membrane media
Pore sizes	0.2, 0.45, 1, 3, 5, 10 and 20 µm
Filter area	About 0.02 m² (S), 0.1 m² (M) and 0.6 m² (L)
Housing	Polypropylene, with vent and drain
Connections	Hose barb, 1/4 inch NPT, 1.5 inch sanitary
Maximum pressure	About 4 bar at 25 °C
Sterilisation	Gamma-irradiated or autoclavable, by version

APPLICATIONS

Prefiltration ahead of sterile filters, acids and bases, solvents, beverages, plating baths and high-solids liquids.

KEY ADVANTAGES

- **High dirt holding** – long service life
- **Chemical resistance** – acids, bases and solvents
- **Protects final filters** – lower running cost

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

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