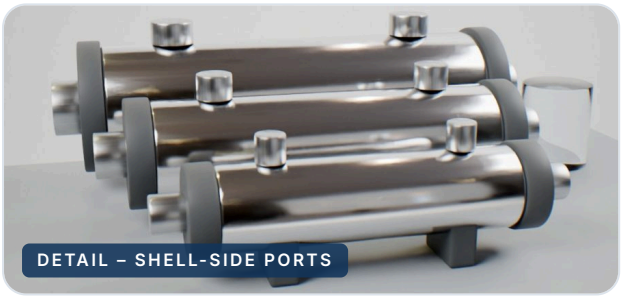
PRODUCT DATASHEET

Hollow Fibre Membrane Humidifiers for PEM Fuel Cells

Passive humidification for fuel cell air





DETAIL – SHELL-SIDE PORTS

OVERVIEW

The Tech Inc. Hollow Fibre Membrane Humidifiers for PEM Fuel Cells humidify the dry air feeding a PEM fuel cell stack using the moisture in the stack exhaust. Dry air flows through the fibres; wet exhaust flows around them; water passes through the membrane while the gases stay apart.

MODELS AND CONFIGURATIONS

- **Small** – test stacks.
- **Medium** – about 5 to 30 kW stacks.
- **Large** – about 30 to 120 kW stacks.

TYPICAL DESIGN DATA

Stack power	About 1 to 120 kW
Temperature	Up to about 95 °C
Pressure	Up to about 2.5 bar

APPLICATIONS

Fuel cell vehicles, stationary and backup power, fuel cell test benches and humidification of other gas streams.

KEY ADVANTAGES

- **Passive** – no moving parts
- **Compact** – fits in the air path
- **Efficient** – recovers water from the exhaust

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

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