PRODUCT DATASHEET

Breathing-Air Cascade Panel and Cylinder Bank

300-bar cylinder banks and cascade filling for breathing apparatus

Product page





Close-up: cascade panel and fill whips

OVERVIEW

The Tech Inc. Breathing-Air Cascade Panel and Cylinder Bank stores breathing air in 300-bar cylinder banks and fills breathing-apparatus cylinders from them in cascade, starting from the lowest-pressure bank so the stored air goes further. The panel carries bank selection valves, regulators, fill whips in a containment enclosure and gauges, and an air-quality monitor checks the compressor output.

TYPICAL DESIGN DATA

Storage pressure	300 bar
Fill pressure	200 or 300 bar breathing-apparatus cylinders
Air quality	To EN 12021, monitored at the compressor outlet
Codes and standards	Air quality to EN 12021; pressure equipment to ASME B31.3 practice; cylinders to their approved standard
Materials	316 stainless tubing and fittings; oxygen-clean where required
Safety	Fill containment enclosure, relief on every bank, slow-fill restrictors
Frame	Galvanised or painted steel, wall or floor mounted

MODELS AND CAPACITIES

- **TI-BAC-4** – four cylinders, about 60 m³ of free air
- **TI-BAC-8** – eight cylinders, about 120 m³
- **TI-BAC-12** – twelve cylinders, about 180 m³
- **TI-BAC-16** – sixteen cylinders, about 240 m³

Indicative bank sizes in 50 L, 300-bar cylinders.

ORDERING CODE

Example **TI-BAC-8-F-M**: **8** number of 50 L storage cylinders; **F** outlets: F fill station, A airline supply, B both; **M** options: M air-quality monitor, C container, R compressor.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** breathing-air compressor with purification; air-quality monitor; airline supply outlets; containerised station; spare whips and seal kits.

KEY ADVANTAGES

- **More fills** – cascade use of the banks
- **Clean air** – quality monitored to EN 12021
- **Safe filling** – containment enclosure and slow fill
- **Ready to install** – bank, panel and fill station tested together

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

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