

MATRIX

High-Pressure Steel Hyperbaric Chamber

Up to 3.0 ATA

1 or 2 Seats

Steel-built strength for high-pressure clinical protocols

The MATRIX is HPO Tech's high-pressure monoplace system, engineered from a steel pressure vessel to support protocols up to 3.0 ATA. Its unique cube-shaped, 2-module design accommodates one or optionally two seated occupants, making it versatile for both individual and paired therapy sessions. Built for demanding clinical environments, the MATRIX delivers robust performance with full automation.

KEY BENEFITS

- High-pressure capability up to 3.0 ATA for advanced clinical protocols
- Flexible 1-seat or optional 2-seat configuration
- Robust steel pressure vessel for demanding clinical use
- Distinctive cube-shaped design with premium aesthetics
- Full automation with touchscreen internal and external controls
- BIBS continuous-flow oxygen with CO2 management
- Compact 2-module build fits through standard doorways

CERTIFICATIONS: CE / MDD-MDR Class IIb / PED 2014/68/EU / ASME PVHO

SYSTEM COMPONENTS

- Hyperbaric chamber (1 unit)
- Air compressor (1 unit, included)
- Oxygen concentrator (1 unit)
- Air cooler (1 unit)
- BIBS masks (10 units, included)
- Air dryer (optional, recommended for humid climates)

MATRIX — Technical Specifications

CHAMBER SPECIFICATIONS

Capacity	1 person (2 persons optional)
Material	Steel pressure vessel
Max Operating Pressure	2.0 / 2.4 / 3.0 ATA
Overall Dimensions (L x W x H)	1,750 x 1,442 x 1,793 mm
Weight	1,550 kg
Internal Length	1,731 mm
Internal Volume	5.8 m ³
Module Length	770 mm
Air Pressurisation	3.45 to 7.2 bar
Air Supply Flow	250 LPM
BIBS Oxygen Supply	3.2 to 4.0 bar
Ventilation Rate	150 LPM
Emergency Depressurisation	2.0 ATA to 1.0 ATA in 90 sec
Design Temperature	0°C to 38°C
Max Patient Weight	225 kg
Min Installation Floor Size	4,500 x 3,000 mm

STANDARD FEATURES

- Fully automatic session control (pressure, speed, time, ventilation)
- Internal and external touchscreen control tablets
- Manual compression and decompression overrides
- Internal and external intercom (always-on)
- Emergency stop button (internal and external)
- Emergency decompression valve
- UV-C light disinfection with occupancy sensor
- Adjustable RGB LED ambient lighting
- Entertainment system (TV / tablet, medical grade, 12V hard-wired)
- Session data logging and archive
- Ergonomic mattress / seating with premium leather upholstery
- Software-controlled automation with PLC and sensor array