

PETRA

Compact Wellness Hyperbaric Chamber

Up to 2.4 ATA

1 Seat

Elegant single-seat therapy in a refined, compact form

The PETRA delivers a refined single-seat hyperbaric experience within a compact, cylindrical aerospace-aluminium body. Its distinctive acrylic window and sleek design make it ideal for wellness centres, clinics, and boutique longevity spaces where aesthetics matter as much as performance. Available in 2.0 ATA and 2.4 ATA variants, the PETRA combines clinical capability with an inviting patient experience.

KEY BENEFITS

- Elegant cylindrical design with 30 mm acrylic viewing window
- Available in 2.0 ATA and 2.4 ATA pressure configurations
- Aerospace aluminium body – lightweight at only 400 kg
- Modular 3-section construction for easy installation through standard doorways
- Full automation with touchscreen control inside and outside
- BIBS continuous-flow oxygen delivery system
- UV-C disinfection, LED ambient lighting, entertainment options

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)

PETRA — Technical Specifications

CHAMBER SPECIFICATIONS

Capacity	1 person (1 seat)
Material	Aerospace-grade aluminium
Max Operating Pressure	2.0 ATA / 2.4 ATA
Overall Dimensions (L x W x H)	1,344 x 1,238 x 1,858 mm
Weight	400 kg
Internal Volume	1.9 m ³
Module Length	770 mm
Acrylic Windows	30 mm thickness
Accessway Width	600 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	125 to 400 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	5,500 x 2,800 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