



Equine HBO Therapy System

The 1200E series equine Hyperbaric Oxygen (HBO) therapy chambers are designed for hyperbaric therapy, rehabilitation and wellness applications for equines. PCCI equine chambers are built to the same quality and safety standards that human chambers are subjected to. Extensive risk analysis and mitigation is performed to ensure equine and staff safety. Chamber is equipped with deluge based fire suppression system for maximum fire safety. With two options to choose from, the chamber can either be pressurized with pure oxygen or air, in which case the equine breathes through a purpose built, proprietary BIBS mask system. PCCI equine chambers are designed to provide a comfortable treatment experience for equine and are easy to operate and clean.

Key Features of a PCCI Hyperbaric Systems Equine Hyperbaric Chambers

- Rectangular door with an 84" x 40" opening for easy entry and exit for large size equines.
- Four code compliant windows are provided for maximum visibility of the chamber interior.
- 24" x 18" elliptical manway provided for secondary access to chamber interior
- LED lighting located external to the chamber for maximum safety and chamber interior illumination
- Intuitive PLC based or touch screen controls to automatically pressurize and maintain chamber depth at desired ventilation rate.
- The chamber is equipped with intuitive and easy to use controls
- Designed to have an attractive and efficient interior and exterior
- No electrical equipment located inside the chamber for maximum fire safety
- Chambers equipped with CCTV systems for continuous patient monitoring during therapy
- Chambers come with ergonomically designed, detached type control console for an attractive appearance and maximum usability
- Equipped with mist system for raising humidity, if needed during treatment
- Equipped with safe pressure management system feature that would automatically lower pressure in chamber when deluge system is activated
- Chambers are equipped with special noise attenuating mufflers to provide a quiet and comfortable experience for the equine during therapy

Chamber Capacity:

1200E Chamber Series

	1200E (Air Version)	1200E-O (Oxygen Version)
Equines Rating	1	1
Attendants Standing/Seated	1	None

System Performance:

Pressure Capability	up to 3 ATA (~30 psig)	up to 3 ATA (~30 psig)
Pressurization Rate	0-3 psi/min adjustable	0-3 psi/min adjustable

Chamber Specifications:

Overall Height	Approx. 12'-0" (366 cm)	Approx. 12'-0" (365 cm)
Interior Ceiling Height	9'-2" (279 cm)	9'-2" (279 cm)
Interior Diameter	10'-0" (305 cm)	10'-0" (305 cm)
Overall Weight @ 3 ATA	Approx. 14,500 lbs	Approx. 14,500 lbs

Hyperbaric System Includes:

Air Pressurization/Depressurization & Ventilation System:

- Air Plant with low maintenance oil-less compressors (for air pressurized chamber)
- Intuitive PLC based or touch screen controls to automatically pressurize and maintain chamber depth at desired ventilation rate
- Manual backup controls for pressurization, depressurization, ventilation and all other essential safety controls

Built-in-Breathing Mask System (BIBS) (Air version only):

- Equine station supports a custom PCCI proprietary constant flow mask for pure oxygen breathing during treatment
- "Set-and-forget" controls - BIBS gas flow to the patient can be set while chamber at surface, flow will automatically adjust with the pressure changes in the chamber
- Oxygen supply switches to fail-safe gas automatically, and activates control to lower chamber pressure in the event the deluge fire suppression system is activated
- BIBS mask system will operate on a standard 50 psig hospital based bulk oxygen supply system

Fire Suppression System:

- Deluge system designed to comply and exceed NFPA 99 required benchmarks for human chambers
- Bypass system is installed to test the deluge Fire Suppression System without wetting down the chamber interior
- Activates safe pressure management system feature that would automatically lower pressure in the chamber when deluge system is activated

Miscellaneous System Features:

- Gas analysis system that provides real time oxygen levels in chamber (for air pressurized option)
- Equipped with CCTV cameras for providing real time monitoring at multiple angles
- All walls are padded with hyperbaric safe materials for easy cleaning and equine safety against kicking
- Chamber floor plates are easily removable for bilge cleaning
- Protected with purpose designed high-flow capacity relief valve for protection against over-pressurization
- Chamber interior outfitted for maximum occupant safety and comfort.

Additional options available on request.

Options may be easily added or removed to improve functionality or meet budget needs.

All PCCI Hyperbaric Systems chambers are designed and built to applicable sections of following codes and standards for equine applications:

NFPA 99; "Health Care Facilities"

ASME PVHO-1; "Safety Standards for Pressure Vessels for Human Occupancy" (where applicable for equine chambers)

Section VIII, Division 1 of "ASME Boiler & Pressure Vessel Code" (where applicable for equine chambers)

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