



The M-7800 Series Medical Air Lock is a dual lock system that comes with a full diameter entry lock. The system is designed and built to comply with ASME-PVHO-1 and other applicable industry standards. The system is designed and built to provide medical treatments to tunnel workers transported outside the tunnel work site. A Medical Air Lock is normally used as a top-side chamber for providing extended duration treatments. The chamber and related support systems come enclosed in a standard dry shipping container. The systems are equipped with a fully detached-type control console.

Medical Air Lock is typically rated for up to 6 occupants however, they can be tailored to fit specific occupancy needs. Normal pressure range for commonly used applications range from 75 psig (~5 bar) to 150 psig (~10 bar).

NOTEABLE FEATURES of PCCI Hyperbaric Systems (PHS) Containerized Medical Air Locks

- Spacious & aesthetically designed interiors.
- Easy to use controls, that require no electric power for operation in case of emergency.
- Equipped with attachable or detachable type control console options.
- Most daily control functions can be accomplished from the control console.
- If containerized option is taken, the system comes completed in a 25' x 27' long dry container for protection of the system and controls against hazardous environments. Container space is insulated and adequately air conditioned.
- Equipped with NFPA 99 compliant water based fire suppression deluge and handline system.
 Designed for easy handling and transportation.
- Provided with optional coupler for quick and easy mating with Shuttle Chamber.
- Battery and electrically operated dual lock communication system with sound power phones as backup.
- Mirror/Override controls and indicators for pressurization and depressurization from inside the lock.
- Equipped with silencers on inlet air supply and exhaust lines inside & outside for adequate noise attenuation.
- Control console provided with emergency battery operated illumination for operation in dark if necessary.

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INNOVATION & EXCELLENCE IN HYPEBARICS

7806D Medical Air Lock

SPECIFICATIONS

Chamber Capacity:	
Inner/Main Lo	ck 6 Persons Seated or 2 Supine Persons
Outer/Entry Lo	ock 2 Persons Seated
System Performance:	
	working pressure 135 psig (9 bar)
Pressurization	
The sound and th	
Internal Diameter:	78 inches (2.0 meters) inside diameter (both locks)
Overall Length:	
Vessel Only:	15 feet (4.61 meters)
Container:	25 feet (7.69 meters)
All Doors:	Round, 30 inches (762 mm) diameter clear opening
Clear Head Room:72 ind	ches (1.84 meters)
Windows/Viewports:	5 (five), 10 inches (254 mm) diameter viewports, 2 viewports provided in doors and 3 in shell
Lighting:	
Туре:	Internal BIRNS 12 VDC lights or equivalent.
Quantity:	3 lights in Main Lock, 1 in Entry Lock (2 lights installed on control console for console area illumination)
Standard Seating:	Flip-up type bench set
Standard Seating.	rip-up type bench set
Weight:	12,000 lbs (5,443 kg)
	18,000 lbs (8,164 kg) installed in a dry container
	l'anuna"
Control Console:	Attachable or detachable type
Press and Depress Rate	: Controllable from 0 to 20 cubic feet per minute
BIBS Stations (Oxygen I	
	6 in Main Lock, 2 in Entry Lock
Fire Fighting/Suppression	on System:
Deluge System	
	NFPA 99 compliant water based deluge system will be provided in both locks
Handline Syste	
	NFPA 99 compliant water based handline system will be provided in both locks. The Main Lock will have
	two spray lines and the Entry Lock will have one.
O2 Analysis:	Dedicated oxygen analyzer monitor Oxygen levels in both locks.
Communications	
Communications: Primary:	Single-channel 2-station system for console operator and incide attendants
Primary.	Single-channel 3-station system for console operator and inside attendants. Each interior station includes a talk-back speaker with a parallel fitting for a push-to-talk (PTT) headset
	for use by an inside attendant.
Optional Items:	
	ng system for Main Lock.
	I mm) ID Food Lock (Medical/Food Service Lock) with doors on both sides.
	oupler (24 or 30 inches) for quick and easy connection with a shuttle chamber.
	es inside both the locks to monitor the lock pressures from inside. Gauges has dual scale in PSIG and Bar or
	stomer requirements.
Carbon scrubb	per and monitor.

All PCCI Hyperbaric Systems are designed to fully meet the current edition of all applicable codes inclding:

ASME PVHO-1; "Safety Standards for Pressure Vessels for Human Occupancy" latest edition ASME Section VIII, Division I, "Unfired Pressure Vessels" latest edition OSHA Guideline for Compressed Air Quality Standards 1926-803 and WAC 296-36 CA/OSHA CLASS 1, Div. 2 requirements where applicable.

*It is policy of PCCI Hyperbaric Systems to operate in conformance with ISO 9001:2008 Quality Management Systems (QMS) and to provide for continual improvement to the QMS

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