

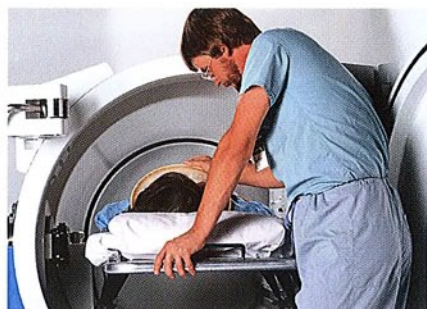
# S I G M A I I

## DUAL PLACE HYPERBARIC SYSTEM

The Sigma II Dualplace Hyperbaric System is designed to accommodate two seated patients simultaneously, or one supine patient and a seated attendant. The Sigma II delivers exceptional performance for hospitals with moderate patient treatment requirements. The Sigma II bridges the gap between the clinical limitations of the monoplace system and the major investment required for larger multiplace facilities.

### FLEXIBILITY

The Sigma II features a spacious 40 inch internal diameter acrylic treatment



*The Sigma II features a spacious 40 inch internal diameter treatment compartment.*

compartment which allows for increased patient accessibility and monitoring. The standard entry lock permits attendants and physicians to enter and leave the system as needed. The ability to position the patient in a reclining seat as well as in a supine position on a gurney is an important Sigma II distinction. Pressurized with air instead of oxygen, the

Sigma II utilizes a built-in breathing system (BIBS) which gives the operator the ability to independently adjust each patient's oxygen supply.

### PATIENT COMFORT

The Sigma II's spacious interior increases patient treatment acceptance by reducing the likelihood of confinement



*The Sigma II control console is designed for maximum operator efficiency.*

anxiety. Patient comfort is also enhanced by the cushioned, reclining chairs. The acrylic main compartment allows the patient excellent vision and the ability to enjoy outside entertainment (TV/video system) during treatment.

### SAFETY

The Sigma II is a Class A hyperbaric chamber as defined by the National Fire Protection Association (NFPA). The standard fire suppression system is activated at the control console. Patients and attendants are supplied with breathing gases separate from the system environment. A standard oxygen monitor checks the concentration of oxygen within the compartment.

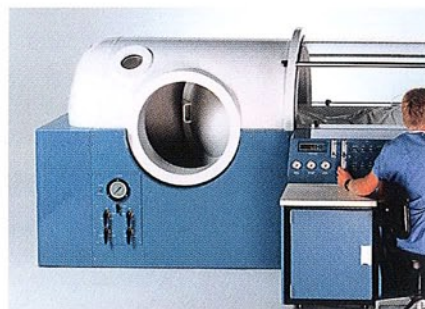
### PATIENT ACCESSIBILITY

The entry lock permits a physician or attendant to enter or leave the system during treatment, allowing for treatment of acute patients. The Sigma II also allows for medical monitoring of

critically ill patients. The optional medical lock is a convenient way to pass refreshments or medical supplies in and out of the system.

### COST-EFFECTIVENESS

The Sigma II reduces staffing requirements per patient while increasing the number of patients that can be treated in a treatment period or day. The built-in breathing system provides optimal oxygen consumption per patient. Perry's unique trade-up program allows the facility to acquire larger hyperbaric systems as patient capacity increases.



*The entry lock permits attendants to enter or leave the system during patient treatment.*

Perry offers a wide variety of financing options for equipment acquisition.

### EXPERIENCE AND RELIABILITY

The Sigma II was designed by our staff engineers who have extensive industry experience. Our experience and ability

to design the highest

quality hyperbaric

systems has

made Perry

the world

leader in

the design

and manu-

facture of

clinical

hyperbaric

systems.

Over one

million

treatment

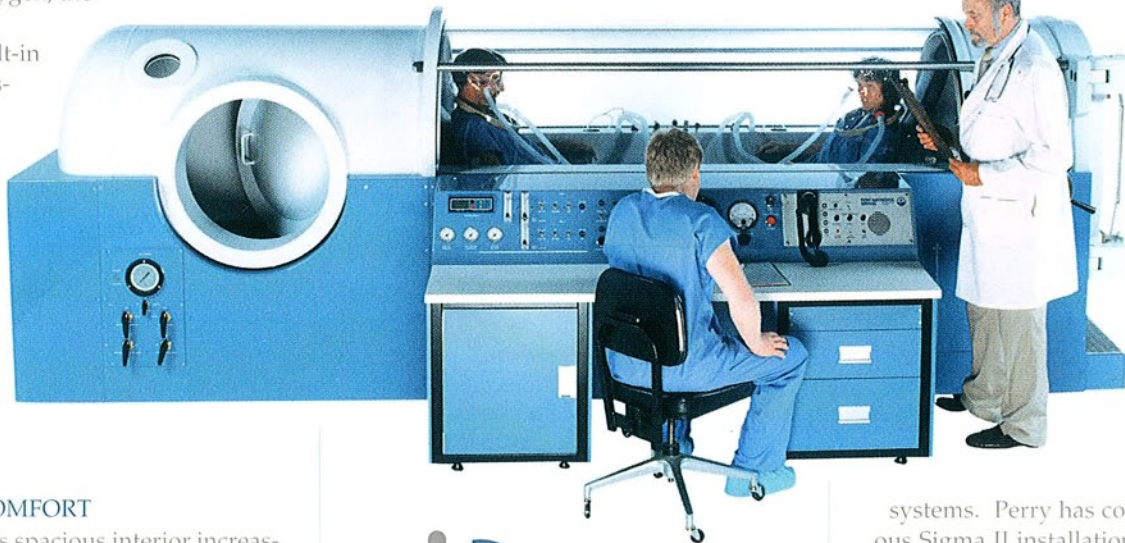
hours

have been

performed

in Perry

systems. Perry has completed numerous Sigma II installations, with systems in continuous operation since 1987. A customer list is available for references.



**CODES AND STANDARDS**

The Sigma II Dualplace Hyperbaric System is designed, fabricated, assembled, tested and installed in accordance with the following codes and standards, current edition:

- ASME PVHO-1, Safety Standards for Pressure Vessels for Human Occupancy
- ASME Boiler and Pressure Vessel Code, Section VIII, Division I, Pressure Vessels
- ASME Boiler and Pressure Vessel Code, Section IX, Welding Qualifications and Procedures
- 21 Code of Federal Regulations, Chapter 1, Part 820, Good Manufacturing Practices for Medical Devices
- NFPA 99 Health Care Facilities
- Registered with the National Board of Boiler and Pressure Vessel Inspectors

**BUILDING SERVICES REQUIREMENTS**

The following requirements must be met for proper operation of the Sigma II Hyperbaric System:

- Building must adhere to construction requirements specified in NFPA 99, Health Care Facilities.
- A minimum room size of 26' x 12.5' (325 sq. feet/30.1 sq. meters) is recommended to house a Sigma II Dualplace Hyperbaric System.
- Optimal patient comfort is achieved if the room is maintained at 68°-72° F (20°-22.2°C).
- Medical Air: Main Air - minimum pressure of 60 psig at 40 scfm (4.13 bar @ 1132 lpm). Stand-By Air - minimum pressure of 50 psig at 7.4 scfm (3.5 bar @ 210 lpm).
- Oxygen Supply: Minimum pressure of 50 psig at 7.4 scfm (3.5 bar @ 210 lpm). Pressure guage and shut-off valve installed in accessible location. Line and all components installed in accordance with NFPA specifications.
- Exhaust Line: Two-inch O.D. copper (minimum). The exhaust line should be run to the exterior of the building no less than eight feet above the ground in an area where no potential source of ignition or fuel exists. Install exhaust line so as to obviate entry of rain or foreign objects.
- Fire Suppression System: (A) Fire suppression deluge water - minimum pressure of 110 psig at 60 gpm (B) Hand line water, from a separate, independent source - minimum pressure of 85 psig at 106 gpm.
- Electrical Service: 115 VAC outlet for charging a 12 volt, 6 ampere-hour battery.
- Electrical Ground: Solid earth ground connection terminated with 1/4-20 UNC stud. Ground system to be in conformance with local electric codes.

The Sigma II is supplied with all necessary hoses and fittings to easily connect to the customer-provided services described above. All building services should terminate within six feet of the foot of the hyperbaric system.

**TECHNICAL SPECIFICATIONS**

Maximum Operating Pressure.....	30 psig/3 ATA (3 bar)
Design Temperature Range.....	32°-125° F (0°-52° C)
Oxygen Supply Pressure .....	50-70 psig @ 210 lpm (3.5-5.0 bar)
Primary Air Supply Pressure .....	60-100 psig @ 40 scfm (4-6.8 bar)
Standby Air Pressure.....	50-70 psig @ 210 lpm (3.5-5.0 bar)
Fire Suppression.....	50 gpm @ 80 psig (189 lpm @ 5.5 bar)
Ventilation Rate.....	150-385 lpm
Pressure Change Rates .....	1-5 psi/min. (.07-.35 bar/min.)
Emergency Depressurization Rate .....	0.25 psi/sec. (.035 bar/sec.)
Overall Length.....	176 in. (4.47 meters)
Overall Width (w/out optional medlock) .....	46 in. ( 1.17 meters)
Overall Width (w/optional medlock) .....	58.5 in. (1.49 meters)
Overall Height.....	60.5 in. (1.54 meters)
Internal Diameter (acrylic) .....	40 in. (1.02 meters)
Internal Length (chamber).....	126 in. (3.20 meters)
Internal Length (entry lock) .....	49 in. (1.24 meters)
Internal Length (overall).....	175 in. (4.45 meters)
Internal Volume (chamber) .....	86 cu. ft (2.43 cu. meters)
Internal Volume (entry lock).....	42 cu. ft. (1.67 cu. meters)
Internal Volume (overall) .....	128 cu. ft. (4.1 cu. meters)
Weight.....	6,500 lbs. (2950 kg)

**GENERAL WARRANTY**

Perry Baromedical Corporation guarantees that the equipment manufactured by Perry will be free from defects in materials and workmanship under normal use for a period of 12 months from the date of delivery. Extended warranty and service programs are also available.

For more information, please contact our Marketing Department at 800-741-4376

PERRY  
BAROMEDICAL  
CORPORATION  
7555 Garden Road  
Riviera Beach  
Florida 33404-3411  
USA

800-741-4376  
407-840-0395  
Facsimile: 407-840-0398

