



# Sechrist Monoplace Hyperbaric Chambers H-Series

FEATURE OVERVIEW



Oxygen administered under increased atmospheric pressure is a powerful modality and must be administered with care and precision. That is why Sechrist controls every step of design, engineering, manufacture and service of its monoplace hyperbaric chambers – including the acrylic pressure chamber – to assure an unmatched level of quality, performance, safety and patient comfort. Sechrist can also customize the chamber to any healthcare facility – even including a choice of colors.



## First In Patient Comfort

- Available in three spacious interior diameters - 33", 36" and 41". All Sechrist hyperbaric chambers provide the ability for the patient to rest in a reclined or angled position making patients comfortable and anxiety free.
- The 4100H model is the world's largest monoplace hyperbaric chamber which offers the maximum in patient comfort.
- A fully integrated entertainment system allows the patient to watch television and movies and listen to their favorite music on their MP3 player. All Sechrist monoplace hyperbaric chambers are equipped with dual speakers to provide optimal listening pleasure.
- Bariatric patients up to 700 lbs can be comfortably treated
- The chamber hydraulic gurney provides for easy loading of the patient into the chamber without additional transfers.

## Supporting Critical Care

- Sechrist chambers provide for respiratory support that automatically compensates for the pressure changes in the chamber using the only hyperbaric ventilator – designed and manufactured by Sechrist.
- Chambers also accommodate:
  - Multiple intravenous transfusion lines
  - Electrical monitoring including EKG, temperature and blood pressure
  - Transcutaneous oxygen monitoring
  - Patient air-break breathing system

## Assuring Safety

- Sechrist provides the only monoplace hyperbaric systems with two emergency vent modes. This unique safety feature allows for maximum flexibility and reaction time to accommodate various emergency situations.
- The Standard Emergency Vent system decompresses within 119 seconds. The hyperbaric technician monitors and controls the descent to optimize patient comfort.
- An Emergency Shut-off and Automatic Vent system allows decompression within 119 seconds without the need for the hyperbaric technician to attend, monitor and control the emergency ascent providing flexibility in the case of an extreme emergency.

## Increasing Efficiency

- Sechrist chambers are all equipped with the necessary monitors and controls to accept electronic data collection modules.
- Precision controls and display allow for easy viewing and adjustment by the technician.
- The easily accessible ventilation control allows for adjustment of the gas flow through the chamber to allow for Oxygen Conservation. The adjustment of gas flow to the chamber is easily achieved through the convenient and accessible ventilation control on the front panel.



# Sechrist Monoplace Hyperbaric Chambers

## H - SERIES CHAMBER SPECIFICATIONS

### Codes And Standards

Sechrist Industries' design, manufacturing services and installation systems are certified to ISO 13485 Quality Assurance Standard for Medical Devices. In addition, Sechrist's monoplace hyperbaric chambers are designed, fabricated, assembled, tested, and installed in accordance with the following codes and standards, current editions:

- ASME PVHO-1, Safety Standards for Pressure Vessels for Human Occupancy
- ASME Boiler and Pressure Vessel Codes, Section VIII, Division I, Pressure Vessels
- NFPA 99 Health Care Facilities
- Registered with the National Board of Boiler and Pressure Vessel Inspectors
- U.S. FDA Requirement, 21 Code of Federal Regulations, Part 820
- ISO 13485: 2003 Quality Assurance Standard for Medical Devices
- CMDCAS – Canadian Medical Conformity Assessment System
- CAN/CSA Std. 22.2, No. 601.1
- IEC 60601-1



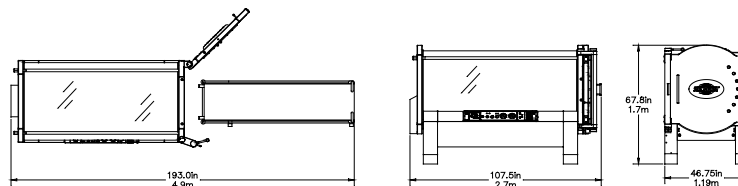
### TECHNICAL SPECIFICATIONS BY MODEL

	Model 3300H	Model 3600H	Model 4100H
Internal Diameter	32.50 in (83 cm)	35.50 in (90 cm)	41.00 in (104 cm)
Internal Length	90 in (226 cm)	70 in (226 cm)	90 in (226 cm)
External Length	105.50 in (268 cm)	106 in (269 cm)	107 in (273 cm)
External Height	57.50 in (146 cm)	61.0 in (155 cm)	67.75 in (172 cm)
External Width	42.25 in	44.50 in	46.75 in
Chamber Weight	2,030 lbs (923 kg)	2,220 lbs (1009 kg)	3,500 lbs (1591 kg)
Supported Patient Weight	500 lbs standard (227 kg); 700 lbs optional (318 kg)	700 lbs standard (318 kg)	700 lbs standard (318 kg)

### TECHNICAL SPECIFICATIONS ALL MODELS

Maximum Operating Pressure	30.0 pounds per square inch gauge (psig) 3.0 atmospheres absolute (ATA) 2.1 kilograms per centimeter squared (kg/cm <sup>2</sup> ) 206.9 kilopascal (kPa)
Operating Temperature Range	50° - 100° F (10° - 38° C)
Operating Humidity Range	30 to 90% at 77° F
Supply Pressure	50.0 to 70.0 psi (3.5 to 4.9 kg/cm <sup>2</sup> , 344.8 to 482.7 kPa)
Purge Rate	80 to 400 liters per minute (lpm) (with the chamber pressure set at 15 psi)
Emergency Vent Rate	30 psig to 0 psig in 119 seconds max
Relief Valves	Model 3300H/HR: Two, set at 35.00 psi Model 3600H/HR and 4100H/HR: Two, set at 36.00 psi (2.5 kg/cm <sup>2</sup> ; 241.30 kPa)
Allowable Storage and Transportation Environmental Conditions:	Temperature: 32° to 113° F (0 TO 45° C) Atmospheric Pressure: 7.3 TO 15.4 PSI (500 TO 1060 HPA) Relative Humidity: 10 TO 100% including condensation

### SECHRIST MODEL 4100H/HR



### SECHRIST MODEL 3600H/HR

### SECHRIST MODEL 3300H/HR

