The new standard of Hyperbaric Oxygen Chambers
IBEX Medical Systems

Hyperbaric Chambers Technology

IBEX Medical Systems is the leader of a medical technology development using the oxygen. Utilizing the medical technology for respiration, we will improve the quality of life for many patients, medical service providers, and general public at large.

IBEX provides the solution of the hyperbaric oxygen therapy (HBOT) that is easily available for private and military medical service fields as well as ordinary households on the basis of sufficient understanding on the hyperbaric medicine.

IBEX is going to maintain high level of technology and service that correspond with the constant effort of the medical staff on the development of the HBOT, and continuously supply outstanding professional human resources. We are committed to be the true and genuine partner for new therapy of the medical staff on the basis of its faith that the new path for the company would be the first great step for the medical technology improvement of breathing.
Therapy Safe and Effective
Models of IBEX, such as, IBEX BASIC, IBEX, and IBEX 51 are designed to process the HBOT safely and effectively from 3 ATA to 6 ATA. All elements of the chambers are designed and manufactured to meet the stringent design standard of hyperbaric pressure vessel and international certification standard as required by hyperbaric device design and production dimension in ASME, PVPQ-1 and National Fire Protection Association (NFPA 99, Chapter 14).

Comfortable and Familiar to Patients
The manufactured IBEX chambers are designed to be suitable for the hospital environment and it includes various functions to ensure the convenience of users as much as possible. It has the broad floor shape to provide the sufficient space for staff to move while providing the space to treat conveniently for patients simultaneously. Such the broad inside minimizes the inconvenience for patients and staff during the process of the therapy and the main entrance in large rectangular shape provides convenient access to enter into and leave from the area.

Quickly Customize Layout to Suit Patients
The internal facilities with simple operation may help the staff for easy and quick setting for all types of patients. The patients include outpatients who can walk into the chamber themselves and seriously ill patients that required the wheelchair and bed to enter into the chamber.

Accurate, Reliable, and Reproducible
IBEX chamber is accurate and reliable and it uses the Window-based control software to enable repeated therapy. An important function for the therapy program is the smooth-ride pressure conversion technology. According to the research result, the A.B.T pressure program is confirmed to reduce the complication of patients from the air pressure interference.
The New Standard of the Hyperbaric Oxygen Therapy - IBEX Hyperbaric Chamber

Technology designed to exceed general pressure standard
IBEX Hyperbaric Chamber is designed to obtain the hyperbaric oxygen therapy (HBOT) from air pressure 1 through air pressure 3 safely and effectively for patients. (Based on US ASME PVHO-1)

Design and production conforming to the stringent international standard
IBEX Hyperbaric Chamber is designed and manufactured to meet the stringent standard on the therapy facilities as presented by the Pressure vessel design and production Standard (ASME PVHO-1) and National Fire Protection Association Standard (NFPA 99, Chapter 14). All hyperbaric chambers manufactured by order from IBEX Medical Systems are designed, tested and manufactured to meet the international certification standard, and provided to customers.

- Smooth pressurization is available without increase in compression time by applying the automatic control system
- Safe therapy for obese patients with the passive pressure control mattress
- Maximizing the space with dipper-shaped seats and efficient rail arrangement
- Less oxygen consumption: Reduce oxygen consumption at the ventilation rate of 90~120 SLPM.
- Providing the convenience to patients with the broad patient space and convenient access
- Operating the automatic or semi-automatic control system is available
  - Operation of 4th generation Windows-based program
  - Available to operate with the automatic or in semi-automatic control system
  - The data-related therapy and information on repeated therapy are available to save
  - Output and alteration prevention system of the recorded data
  - Linkage with the medical record software
  - Alarm function at the beginning and end of the therapy

Monoplace Hyperbaric Chambers

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### General Specifications:

**Customizing Design Available**

<table>
<thead>
<tr>
<th>IBEX BASIC (4+2)</th>
<th>IBEX (4+4)</th>
<th>IBEX S1 Customized</th>
<th>Portable Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seated Patient Capacity, Main Compartment</td>
<td>4 Patients</td>
<td>6 Patients</td>
<td>1 Patient (Seated)</td>
</tr>
<tr>
<td>Supine Patient Capacity, Main Compartment</td>
<td>4 Patients</td>
<td>6 Patients</td>
<td>1 Patient (Supine)</td>
</tr>
<tr>
<td>Seated Patient Capacity, Entry Compartment</td>
<td>2 Patients</td>
<td>4 Patients</td>
<td>2 Patients</td>
</tr>
<tr>
<td>Maximum Operating Pressure (bars allowed)</td>
<td>3.0 Bar</td>
<td>3.6 Bar</td>
<td>6.0 Bar</td>
</tr>
<tr>
<td>Approximate Main Compartment Internal Length</td>
<td>4,200 mm</td>
<td>5,300 mm</td>
<td>6,900 mm</td>
</tr>
<tr>
<td>Approximate Main Compartment Internal Length</td>
<td>3,800 mm</td>
<td>5,000 mm</td>
<td>6,000 mm</td>
</tr>
<tr>
<td>Approximate Entry Compartment Internal Length</td>
<td>2,600 mm</td>
<td>3,200 mm</td>
<td>3,600 mm</td>
</tr>
<tr>
<td>Approximate Main Compartment Internal Height</td>
<td>2,000 mm</td>
<td>2,500 mm</td>
<td>2,900 mm</td>
</tr>
<tr>
<td>Approximate Entry Compartment Internal Height</td>
<td>1,000 mm</td>
<td>1,500 mm</td>
<td>1,700 mm</td>
</tr>
<tr>
<td>Approximate Internal Width (wall to wall)</td>
<td>715 mm</td>
<td>920 mm</td>
<td>510 mm</td>
</tr>
<tr>
<td>Control Console</td>
<td>Seated 2x2 module</td>
<td>Seated 4x2 module</td>
<td>Seated 4x2 module</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-18°C ~ 30°C</td>
<td>-18°C ~ 30°C</td>
<td>-18°C ~ 30°C</td>
</tr>
<tr>
<td>Medical Icon</td>
<td>1 unit</td>
<td>1 unit</td>
<td>1 unit</td>
</tr>
<tr>
<td>CCTV</td>
<td>2 units</td>
<td>2 units</td>
<td>2 units</td>
</tr>
<tr>
<td>Rectangular Doors</td>
<td>Main Compartment (300 ~ 500)</td>
<td>Main Compartment (300 ~ 500)</td>
<td>Main Compartment (300 ~ 500)</td>
</tr>
<tr>
<td>Circular Doors</td>
<td>3 units (Φ220)</td>
<td>2 units (Φ150)</td>
<td>2 units (Φ150)</td>
</tr>
</tbody>
</table>

### Monoplace Hyperbaric Chambers

<table>
<thead>
<tr>
<th>Standard Features:</th>
<th>Automatic Control System:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• The electronic record of treatment</td>
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</tr>
<tr>
<td>• The optional hard copy record of treatment</td>
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</tr>
</tbody>
</table>

**Hydraulics geometry**:
- 37.5 kg capacity
- The pressure-relief mattress considering weight pressure of the obese patient

**Manual back-up control system**
- Patient call button
- Two-way communication

**Auxiliary audio input**
- Left and right-handed configurations

### General Specifications:

| Machine Operating Parameters | 3 ~ 4 X 2 Bar | Internal Length | 6.10 m |
| Design Temperatures | 18 ~ 34°C | Internal Volume | 8.63 m³ |
| Hospital Gas Supply Pressure | 3 ~ 4 X 2 Bar | Overall Width | 1.05 m |
| Oxygen Concentration | 0.2 ~ 36 Bar mmHg | Overall Length | 4.70 m |
| Ventilation Rate | 50 ~ 400 rpm | Overall Height | 1.90 m |
| Emergency Exhaust Rate | 1 ~ 4 X in under 60 seconds | Minimum Recommended/Weight | 207 kg |
| Internal Chamber | 15.20 m³ | Gross Chamber Weight | 860 kg |

**Suitable for pressurisation with air or oxygen**
- Patient monitoring and support interfaces:
  - Transcutaneous oxygen
  - General purpose electrical penetrations for critical care and other functions (e.g., ECG, respiration, RR, body temperature, invasive blood pressure)
  - IV infusion
  - Non-invasive blood pressure
  - Respiratory support
  - Other general purpose pneumatic penetrations

**Optional Video Entertainment System**
A.B.T. PRESS

A.B.T. PRESS (Anti Barotrauma Technologies) is the core program to control the HBO functions and it is the management system to apply on all HBO Chambers that IBEX manufactures.

The core brand A.B.T. is the key software completed with the HBO Chamber hardware.

The A.B.T. system can be directly linked to the HBO Chamber and it is the independent system to integrate and control. After 2015, A.B.T. PRESS has evolved together with the computer technology and is offered as an option of the IBEX HBO Chamber.

Pressure Control of A.B.T. RIDE

- Reduction of barotrauma
- Providing even more improved comfort for patients
- Increasing the possibility of sustaining treatment for the patients
- Structuring a DB objective and available for monitoring
- Providing alteration preventing function of the recorded document on treatment for each patient
- Improvement of accuracy in overall record management
- Increase in the convenience of chamber management of equipment operators

Why Is The IBEX Chamber?

"The Smarter Chamber"