

Welltech Instrument Company. Limited

HYPOXIC - CHAMBER



Web: www.hypoxicsystem.com

Hypoxic Chamber

Hypoxic chamber = Hypoxic system + Chamber

To intergrate our hypoxic system to any environmental chamber, glass house,or room to become a hypoxic chamber to simulate altitude control.

Can simulate altitude up to max 9000m (or 30000ft)

The hypoxic chamber consists of

- Chamber
- Control panel
- Hypoxic system
- Sensors
- Safety control system
- Alarm system
- Feedthrough
- Remote control and monitoring





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Hypoxic Chamber

Control altitude up to 5000m. (with 9000m as option)

Accuracy: +/-40m





The hypoxic chamber with control panel

Web: www.hypoxicsystem.com

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CHAMBER

Capacity

- Custom size
- Provide with layout drawing

Chamber material

- PU panel with 100mm thickness
- Glass
- Gypsum board
- Gypsum board + glass
- Inflatable tent
- Metal housing
- Concrete wall

Control Panel

- LCD touch screen digital display, with fix mode or program mode
- Dual display
- Large TV display (option)
- Remote control & monitoring (option)

Safety Control

- Two stage alarm: stage one with alarm only.
 stage with fresh air purging
- O2 too low alarm
- CO2 too high alarm
- Temperature too high alarm





Sensor Box

O, sensor

- Non-drift oxygen sensor
- Range:0-25%
- Accuracy:+/-50ppm
- With 8-point piece bias calibration

CO, sensor

- Range:0-20000ppm
- Accuracy:+/-10ppm
- With 8-point piece bias calibration

Temperature sensor

- Range:-20 to 80C
- Accuracy:+/-0.1C

Humidity sensor

- Range:0-100%RH
- Accuracy:+/-1%RH

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HYPOXIC - SYSTEM

Model:HS-5000

- O₂ range:20.9% to 9.8% ± 0.1%
- Altitude:up to 9000m (30000ft)

Includes

- Hypoxic system
- Hypoxic hollow fiber membrane system
- Four stage filters
- Control valve system
- Control panel
- Feedthrough
- Safety fresh air inlet

Hypoxic system

- Rotary screw type compressor with,10 bar working pressure
- Refrigerated dryer
- Pressure vessel
- Sound reducing silencer

Hypoxic hollow fiber membrane system

- Flow rate:-10m3/hr @ 10bar Material:ABS
- Inlet:3/8"thread with pressure gauge
- Outlet:3/8" thread
- High O₂ outlet:3/8" thread

Four stage filters

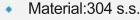
Ultra oil filter, air filter and water filter

Control valve system

- SMC control valve module
- Maximum working pressure:20 bar
- Inlet:3/8" thread
- Outlet:3/8"thread

LCD Touch screen controller

- **PLC:Siemens**
- With altitude(m or ft) and O₂(%) display
- Control setting:by meter or O₂%
- Data storage:with data storage of time,O₂CO₂ tempand humidity on USB memory flash
- 8 pieces bias calibration of each sensors
- With time reserve on/off function
- Can adjust to normal altitude in case of no training
- With user name and password access
- History record of any alarm
- Alarm system
- Emergency stop





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