



Welltech Instrument Company. Limited

HYPOXIC - CHAMBER



Web: www.hypoxicsystem.com

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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



Hypoxic system design



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Hypoxic Chamber

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

Accuracy: +/-40m



The hypoxic chamber with control panel

Lorem Ipsum

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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

O₂ sensor

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

CO₂ 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,O₂,CO₂, 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
- ◆ Material:304 s.s.



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