



Welltech Instrument Company. Limited

HYPOXIC - CHAMBER



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Hypoxic Chamber

Hypoxic chamber = Hypoxic system + Chamber

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

Can simulate altitude up to max 9000m

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% $\pm$ 0.1%(or +/- 40m)
- ♦ Altitude:up to 5000m (9000m as option)

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) 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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