

Welltech Instrument Company Limited

CO2 -SCRUBBER



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Direct CO2 absorption

Welltech CO2 scrubber is designed for human chamber to absorb the CO2 breath out from the athlete and keep the chamber CO2 in low level

During training exercise the CO2 breath out from the athletic is more than 5000ppm.Without the CO2 scrubber, the CO2 level in the chamber can goes to 20000ppm in very short time. It is not healthy to athlete. Normal acceptance CO2 level during exercise is <2000ppm.



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CO2 Purifier

- Controller
- Siemen PLC with LCD display
- Filtering
 Manual mode
 - Time mode
 - CO2 mode
- Regeneration
- Time mode

Manual mode



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ft.

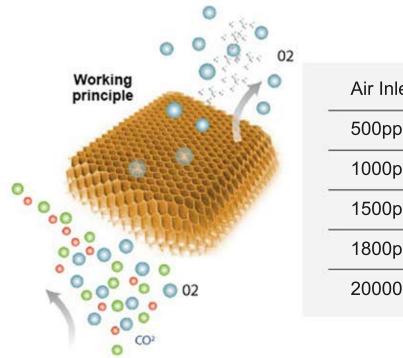
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Filitering Ability



Air Inlet (CO2 level)	Air Outlet (CO2 level)
500ppm	30ppm
1000ppm	300ppm
1500ppm	500ppm
1800ppm	700ppm
20000ppm	1500ppm

Noted:During filtering,the air outlet ppm depends on the air inlet ppm concentration

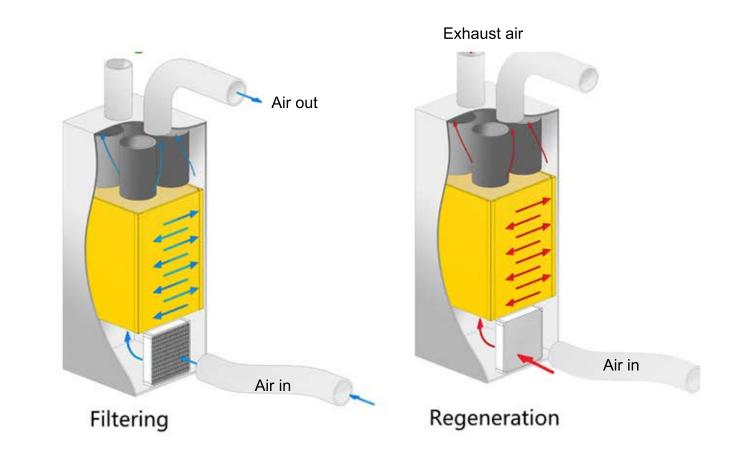


Using more scrubbers, the lower CO2 level it can maintain

Working principle

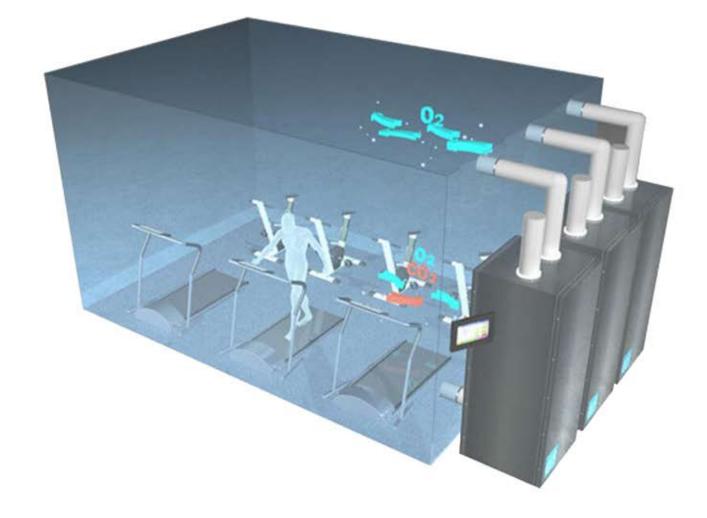
During filtering, the scrubber absorbs the CO2 from incoming air until the catalyst is saturated. After saturation, regeneration is required to exhaust out the high concentration of CO2 before the next use.

Air flow Diagram



Installation

Behind the chamber





No. of scrubbers depends on chamber size and number of athletes training inside

Specification

LCD Touch Screen

- Filtering Mode: Manual, time or CO2
- Regeneration Mode: manual or time Control
- With datalog function

CO2 sensor

- Range:0-20000ppm
- Accuracy: +/-10ppm

Activated Carbon Filter

- Remove Smell
- Regenable

HEPA Filter

 HEPA Filter class of H12

Casing

 All 304 stainless steel or wooden casing or g.steel with coating

CO2 Filter

- CO2 Filter: Amines, non-toxic
- Only remove CO2 gas
- Can work under high or low humidity
- Regenable

MODEL

Model	CS1000	CS2000
CO2 Absorbing Capacity before regen	1000L	2000L
Air flow rate	150 to 200m3/h	
Power supply	220Vac single phase or 3 phase 380V to 415 Vac	
Regeneration time	2-4 hours	