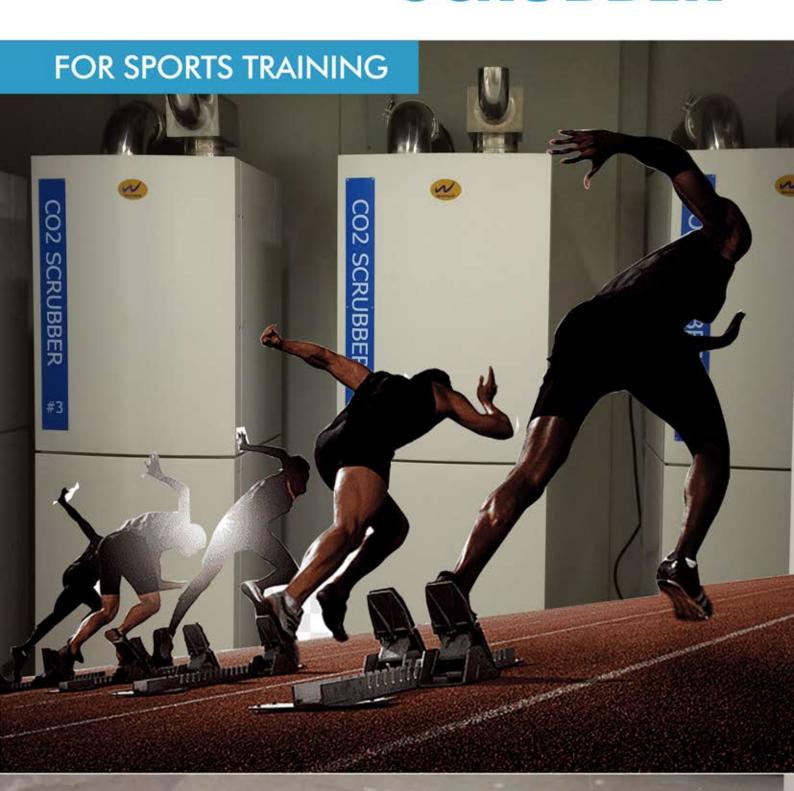


Welltech Instrument Co. Ltd

# CO2 -SCRUBBER



Web: www.aminescrubber.com

E-mail: welltechltd@gmail.com Tel 852-23491224



### **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.

#### **CO2 Scrubber**

- Direct CO2 absorption
- Fast absorption rate

### **Application**

- Athlete Training
- Research Analysis
- Rehabitation Research
- Hypoxic Training
- Hypoxic Sleeping Room



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### **CO2 Scrubber**

► Controller Siemen PLC with LCD display

Filtering Manual mode

Time mode

CO<sub>2</sub> mode

Regeneration Manual mode

Time mode



### **Welltech Instrument Company Limited**

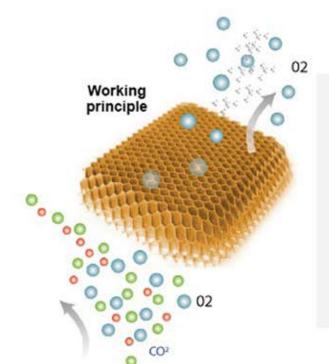
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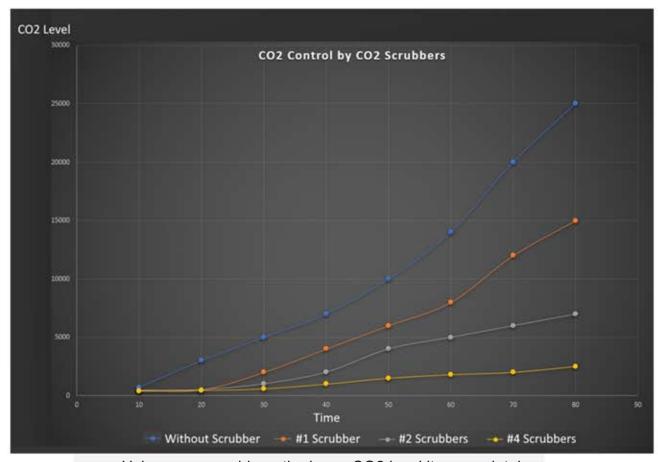


# Filitering Ability



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

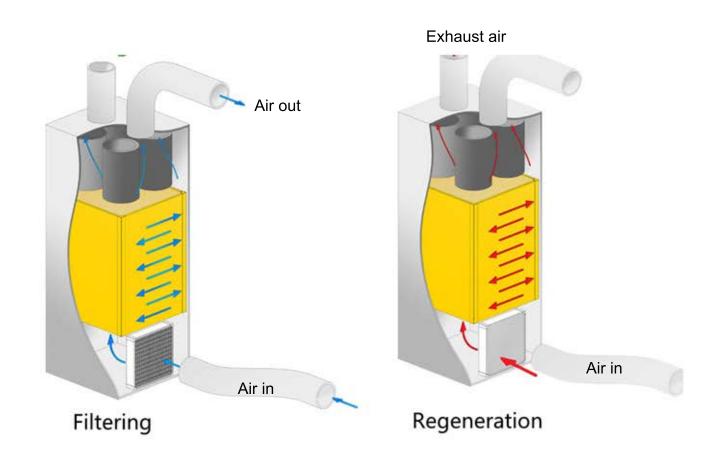


▶ Using more scrubbers,the lower CO2 level it can maintain

# Working principle

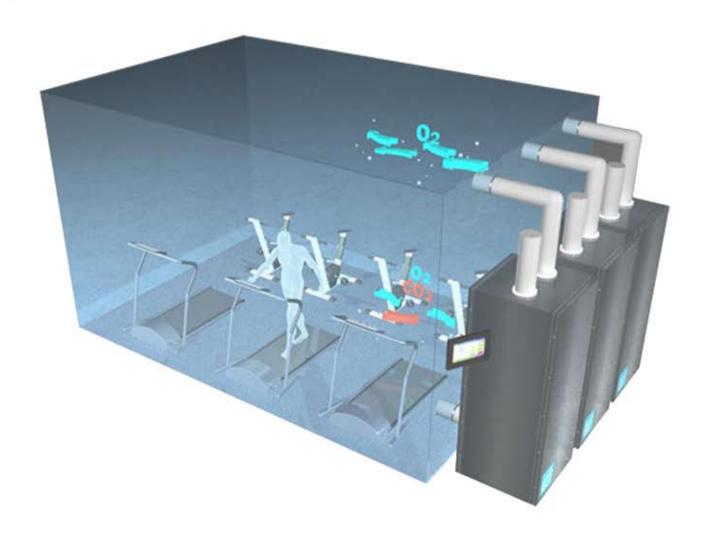
During filtering, the scrubber absorbs the CO2 from incoming air until the catalyst is saturated. After saturation, regeneration is required to exhaust out the high concentration of CO2 before the next use.

### **Air flow Diagram**

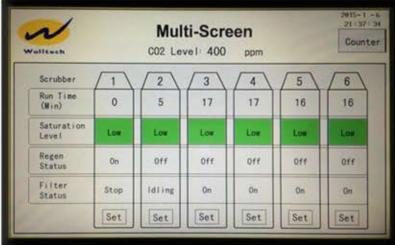


# Installation

Behind the chamber







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

# **Specification**

#### **LCD Touch Screen**

- Two mode: manual or program
- 3 filtering mode: manual,time, CO2
- 2 regeneration mode: manual,time control

### **CO2 Sensor**

- Range:0-20000ppm
- 24Vdc

### Casing

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

### **Activated Carbon Filter**

- Remove smell
- Regenable

#### **HEPA Filter**

HEPA filterClass of H14

#### **CO2** Filter

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

2-4 hours

### **MODEL**

Regeneration time

Model	CS660	CS1000	CS1500	CS2000	CS4000	
CO2 absorbing Capacity before regen	1500m3	3500m3	5000m3	7000m3	14000m3	
Air flow rate	150 to 400m3/h					
Power supply	240Vac single phase or 3 phase 400 Vac					