




**APEX**

**GASGEN**

**C02 Scrubber PCDA12**



43cm

20.3cm

## Description

The CO<sub>2</sub> extractors supply dry air, free from carbon dioxide, which is essential for many industrial and laboratory applications, leading to improved process quality, reduced equipment downtime and lower operating costs.

The Apex CO<sub>2</sub> extractor range is used in a laboratory or industrial CO<sub>2</sub> removal to help with analytical equipment, purging ovens and for protecting sensitive equipment. Laboratory CO<sub>2</sub> extraction is very useful in combination with other generators for further information on your requirements contact us.

Apex Gas Generators manufactures CO<sub>2</sub> scrubbers that use Pressure Swing Adsorption technology. Air from an external source enters the unit via inlet filters. The air enters the scrubber tower, where carbon dioxide is removed and the air is dried.

The dry air exits the machine via an outlet filter and regulator. A small amount of dry air is used to prepare the second scrubber tower for use. The unit switches which scrubber tower is being used at regular intervals.

# Features & Benefits

- Auto regeneration process
- Non-corroding purge silencer
- Compact and lightweight
- Flow rates of up to 99 litres/min
- Output CO concentration of <2ppm
- Operating pressure range of 3.5 Bar (50psi) to 10 Bar (145psi)
- Output dew point of -73°C
- PSA technology
- Easy Installation
- Simple maintenance





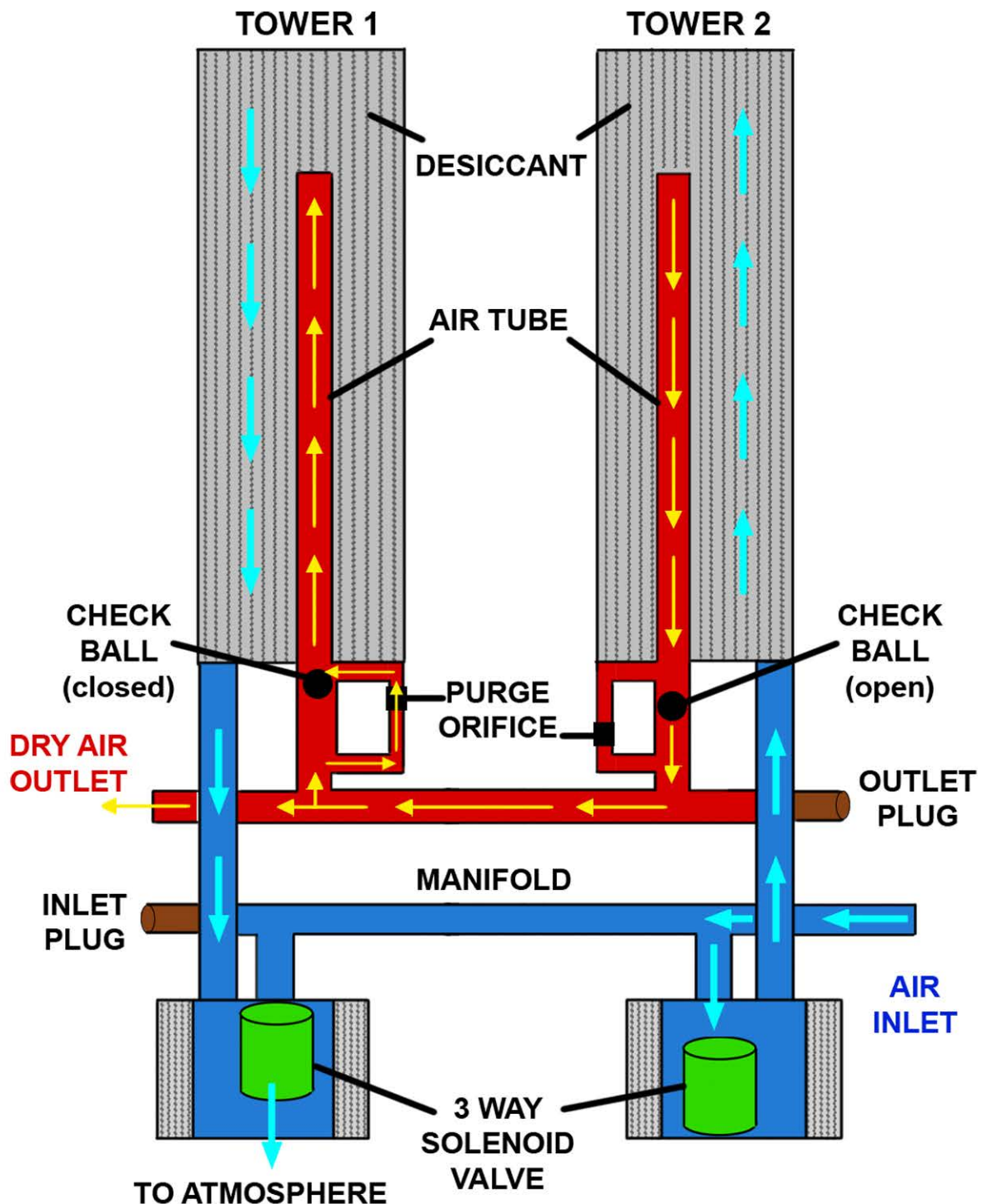
## Technical Specifications

Model	PCDA12
Output Air CO Concentration	< 1 ppm
Output Air Dew Point	-73 C/ -100 F
Max Pressure Drop	0.2 BARG / 3 PSIG
Max Air Inlet Temp	50 C / 125 C
Weight (kg / lbs)	5.5 kg / 12 lbs
Depth (mm / inch)	130 / 5
Height (mm / inch)	430 / 17
Weight (mm / inch)	203 / 8

Operating Pressure Bar	Maximum Inlet & Output Flows (L / Min)	
	Inlet	Output
10.3 Barg	59.47	43.89
9.0 Barg	50.97	33.98
7.6 Barg	43.89	28.32
6.9 Barg	42.48	22.65
6.2 Barg	39.64	19.82
5.5 Barg	35.40	18.41
4.8 Barg	28.32	14.16
4.1 Barg	22.65	9.91
3.4 Barg	16.99	5.66

# How It Works

Air from an external source enters the generator via the inlet filters. Air then enter the first scrubber tower via a solenoid valve. After passing through the scrubber tower the now dry and CO<sub>2</sub> free air exits the system via an outlet filter and regulator. A portion of the outlet air is diverted into the second scrubber tower to purge it ready for use. At regular intervals the active tower switches allowing each tower to be purged in turn.





## Applications

- CO and moisture removal from analytical and chemical process gases in industry and the laboratory
- Dilution air for stack emissions' monitoring
- FT-IR, TOC and other laboratory applications

## Why choose a carbon dioxide extractor from Apex?

- An uninterrupted supply of ultra-dry, clean air: Get laboratory-grade dry air whenever you need it. You don't need to rely on bottled air, so you save time and money.
- Pressure swing adsorption technology: Ensures maximum performance, efficiency and reliability.
- Wall or stand mounting: Install the extraction machine in the best location for you.
- Two models available: Each model can provide a variety of flow rates and pressures. You get a solution that meets your exact requirements.
- Easy installation, operation and servicing: Install a CO<sub>2</sub> scrubber in any location. Parts are easily accessible, and maintenance is easy. The carbon dioxide removal machine is convenient to operate and own.
- One-year warranty and ongoing technical support: Your machine operates reliably for many years, and technical support is always available, for your peace of mind.



## Contact Details

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