

CO₂ purifier

CO₂PUR is an air purifier designed to reduce the level of CO₂ and moisture from a compressed air external supply.

Compressed air passes through a mixed filter bed of activated alumina and Carbon Molecular Sieve to remove moisture, CO₂ and hydrocarbons greater than C₇. CO₂PUR is an air purifier designed to reduce the level of CO₂ and moisture from a compressed air external supply.



Main Features

- CO₂ removal down to less than 1 ppm
- moisture removal down to -70°C dew point

Applications

Claird air purifiers have been designed to satisfy all applications in analysis laboratories, where CO₂ free and dry compressed air at high flow is needed. CO₂PUR was developed specifically for **FT-IR**

Working Principle

Adsorption occurs by fixing the molecules to the surface of the sieve by Van Der Waal's forces of attraction. The Carbon Sieve has a crystalline pore structure adapted to trap and fix molecules smaller than oxygen and nitrogen including CO₂, moisture and hydrocarbons.

CO₂PUR

Gas characteristics

Outlet pressure: between 5 and 9 barg

Air Quality

	COPUR
Moisture removal*	- 70° dew point (ATP)
CO ₂ removal*	< 1 ppm

Technical Specifications

Technical specifications	COPUR
Flow rate	MAX 20 NI/min
Power rating	80 VA
Electrical Supply	230 Vac - 50 Hz *

* 115 Vac - 60 Hz available on demand

Noise level:<50 dB

Operating temperature:between 5°C and 40°C

Consumables:air inlet filter

Dimensions

	COPUR
Height	83 cm
Width	40 cm
Depth	58 cm
Weight	57 kg

AIR SUPPLY CHARACTERISTICS

Inlet Air flow: 60 NI/min

Inlet Air pressure: . min 6 / max 10 barg

Dew point: < +3° C @7 bar

Particles: < 0,01 mm

Oil vapors:< 0,01 mg/m³