



domnick hunter

## PCO<sub>2</sub> Carbon Dioxide Purifiers

During recent years, growing interest and concern has been shown by the beverage industry in the possible effects of poor quality Carbon Dioxide used in carbonation of the beverage. This has resulted in a greater focus being placed on the purity of the CO<sub>2</sub> used in the canning and bottling plants.

Traditionally, beverage production plants have had little or no CO<sub>2</sub> purification installed, and in some instances a loose filled activated carbon vessel has been fitted.

The domnick hunter PCO<sub>2</sub> range of Carbon Dioxide Purifiers has been designed to incorporate five levels of purification, offering effective quality incident protection against a combination of potential contaminants.

Classed as a CO<sub>2</sub> vapour polisher, the PCO<sub>2</sub> systems will reduce trace contaminants such as Benzene, Hydrocarbons and Sulphur compounds that can cause product "off flavours" and lead to costly product spoilage.

All domnick hunter PCO<sub>2</sub> purifier systems are supplied complete with 1 micron inlet and outlet particulate filtration and will provide suitable protection to an entire production plant, a production line or an individual CO<sub>2</sub> line.

### Customer Benefits

- Added security by "polishing" the CO<sub>2</sub>
- The Purifier housing is corrosion protected and guaranteed for 10 years when installed and maintained in accordance with domnick hunter recommendations
- Six months of continuous operation
- 5 stage purification
- Mixed adsorbent bed technology
- Effective in removing a combination of contaminants
- Easy to install and maintain
- Compact design
- Low pressure drop
- Disposable cartridge design
- domnick hunter is an ISO 9001 quality approved manufacturer

## PCO<sub>2</sub> M-plus Range



[www.domnickhunter.com](http://www.domnickhunter.com)

The **PCO<sub>2</sub> Purifier Range** has been designed to remove isolated peak levels of gases considered to be the most common CO<sub>2</sub> impurities that could result in product contamination.

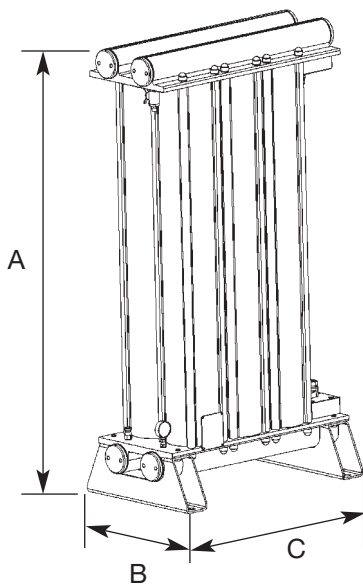
Namely

- Benzene
  - Toluene
  - Xylene
  - Alcohols
- Acetaldehyde
  - Cyclohexane
  - Hydrogen Sulphide (H<sub>2</sub>S)
  - Carbonyl Sulphide (COS)

These Purifiers should only be used as a quality incident protection unit and are not designed as a continuous CO<sub>2</sub> “clean up” filter. Each purifier is supplied with inlet and outlet particulate filters, both rated at 1 micron.

## Technical Specifications

		M-plus 4000	M-plus 6000	M-plus 8000	M-plus 10000
Maximum Flow	lbs/h	4000	6000	8000	10000
	Kg/h	1814	2722	3629	4537
Maximum Operating Pressure	psig	300	300	300	300
	barg	20.7	20.7	20.7	20.7
Maximum Operating Temperature	°F	104	104	104	104
	°C	40	40	40	40
Minimum Operating Temperature	°F	-4	-4	-4	-4
	°C	-20	-20	-20	-20
<b>Materials of Construction</b>		<b>Recommended Service Interval</b>			
Housing : High Tensile Extruded Aluminium		<b>The purifier elements must be changed 6 months after installation.</b>			
Adsorbent : Mixed bed using domnick hunter DRYFIL® adsorbent materials		<b>Pre and After particulate filter elements must be changed 12 months after installation.</b>			



Replacement parts	M-plus 4000	M-plus 6000	M-plus 8000	M-plus 10000
Purifier Elements	60 607 0630	60 607 0640	60 607 0650	60 607 0660
OIL-Xplus pre-filter element	K220AA-TS	K330AA-TS	K430AA-TS	K620AA-TS
OIL-Xplus after filter element	K220AA-TS	K330AA-TS	K430AA-TS	K620AA-TS

Model no.	Connections	Dimensions mm (inches)			Approx weight
		A	B	C	Kg (lb)
M-plus 4000	2"	1390 (54.7)	450 (17.7)	741 (29.2)	270 (596)
M-plus 6000	2"	1390 (54.7)	450 (17.7)	910 (35.8)	348 (768)
M-plus 8000	2 1/2"	1390 (54.7)	450 (17.7)	1079 (42.5)	434 (955)
M-plus 10000	3"	1390 (54.7)	450 (17.7)	1270 (50)	518 (1140)

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 Publication Reference: 753 09/02 Rev.000  
 Stock No: 17 400 4753