

# CO2 Series

ARM Purification offers world class ambient operation purifier technology optimized for a wide range of flow rates.

The CO2 series purifiers are engineered to remove impurities from **carbon dioxide gas (CO<sub>2</sub>)**.



## CO2 Series Media

Fill Material	Impurities Removed	Outlet Purity	Factory Regenerable	Dangerous Goods	Lifetime of 1 year based on inlet challenge
<b>CO2-701</b>	H <sub>2</sub> O	< 100 ppt	yes	no	3 ppm H <sub>2</sub> O
<b>CO2-703</b>	H <sub>2</sub> O, O <sub>2</sub> , CO, H <sub>2</sub> , NMHC, Acids & Bases, Refractory Compounds	< 100 ppt	yes	yes	1 ppm O <sub>2</sub>
<b>CO2-715</b>	NMHC, Refractory Compounds, DMF	< 100 ppt	yes	no	1 ppm NMHC (as Toluene)

## CO2 Series Size

Model Number	Standard Fitting*	Diameter Inches	Length Inches	Maximum Pressure Rating (psig)	Nominal Flow Rates (slpm)			Max Flow Rates (slpm)
					CO2-701	CO2-703	CO2-715	
<b>100330</b>	1/4" MVCR (V04)	1.00	3.30	250	0.7	0.3	0.8	1
<b>150330</b>	1/4" MVCR (V04)	1.50	3.30	250	1.7	0.8	1.9	2
<b>150450</b>	1/4" MVCR (V04)	1.50	4.50	250	3.5	1.3	3.9	8.3
<b>150480</b>	1/4" MVCR (V04)	1.50	4.80	250	3.9	1.8	4.4	9.4
<b>150500</b>	1/4" MVCR (V04)	1.50	5.00	250	4.2	2.0	4.8	10
<b>200630</b>	1/4" MVCR (V04)	2.00	6.30	250	11.4	5.4	12.9	30
<b>200820</b>	1/4" MVCR (V04)	2.00	8.20	250	16.7	7.9	18.9	45
<b>200880</b>	1/4" MVCR (V04)	2.00	8.80	250	18.3	8.7	20.8	49
<b>251250</b>	1/4" MVCR (V04)	2.50	12.50	250	46	22	52	100
<b>300790</b>	1/2" MVCR (V08)	3.00	7.90	200	35	16	39	80
<b>300794</b>	1/2" MVCR (V08)	3.00	7.94	200	35	16	39	80
<b>301000</b>	1/2" MVCR (V08)	3.00	10.00	200	48	22	54	105
<b>301820</b>	1/2" MVCR (V08)	3.00	18.20	200	102	48	116	200
<b>401730</b>	1/2" MVCR (V08)	4.00	17.30	200	161	81	183	500
<b>401760</b>	1/2" MVCR (V08)	4.00	17.60	200	161	81	183	500
<b>402000</b>	1/2" MVCR (V08)	4.00	20.00	200	193	91	219	560
<b>403090</b>	1/2" MVCR (V08)	4.00	30.90	200	322	196	364	600
<b>602760</b>	1/2" MVCR (V08)	6.00	27.60	150	644	304	729	1000

\*Optional fitting sizes may be available; please consult factory.

The CO2 series is designed for high and ultra high purity applications that require process gas impurity levels of 100 PPT or less.

### KEY FEATURES

- 316L stainless filtration media
- 1.5nm outlet filtration
- 316L stainless steel fiber media
- Simple installation
- CE certification available

### OPERATING CONDITIONS

- Typical operating temperature range of 0°C–50°C (32°F–122°F)
- Max operating temperature of 50°C (122°F)

### ORDERING INFORMATION

Example: Carbon Dioxide Gas Purifier



#### Class

CO2 = Carbon Dioxide

#### Fill

Additional fill options available (see **CO2 Series Media** chart for details)

#### Size

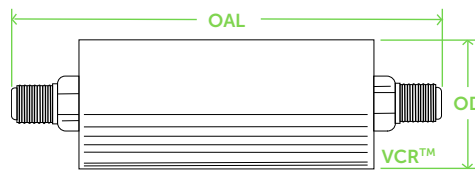
First two digits are the diameter (OD); Last four digits are the length (OAL) in inches.

#### Fittings

V04=1/4"      V12=3/4"  
V08=1/2"      V16=1"

#### Filtration

No letter = .1 micron filter  
F = 1.5nm filter



### DON'T SEE WHAT YOU NEED?

Speak to our team about your requirements and we can work with you to identify the purifier solution best suited for your application.

## Place an Order

[orders@appliedenergysystems.com](mailto:orders@appliedenergysystems.com)

Contact your ARM Purification sales rep or visit [armpurification.com/request-quote/](http://armpurification.com/request-quote/)

 **ARM PURIFICATION**  
BY APPLIED ENERGY SYSTEMS

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 **APPLIED ENERGY SYSTEMS**

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**ARM-POU-CO2-Series-061223-V2**