

# HCG Series

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

The HCG series purifiers are engineered to remove impurities from **hydrocarbon gases, such as CH<sub>4</sub>, C<sub>2</sub>H<sub>2</sub>, C<sub>2</sub>H<sub>4</sub>, C<sub>2</sub>H<sub>6</sub>, and C<sub>3</sub>H<sub>8</sub>.**



## HCG Series Media

Fill Material	Impurities Removed
HCG-1101	H <sub>2</sub> O, H <sub>2</sub> , O <sub>2</sub> , CO, CO <sub>2</sub> , NMHC, Acids, Bases, Refractory Compounds
HCG-1105	H <sub>2</sub> O, H <sub>2</sub> , O <sub>2</sub> , CO, CO <sub>2</sub> , NMHC
HCG-1106	H <sub>2</sub> O

## HCG Series Size

Model Number	Diameter Inches	Length Inches	Maximum Pressure Rating (psig)	Nominal Flow Rates (slpm)			Max Flow Rates (slpm)
				HCG-1101*	HCG-1105*	HCG-1106**	
150330	1.50	3.30	250	0.4	0.7	1.7	2
150480	1.50	4.80	250	0.9	1.6	3.9	9.4
150500	1.50	5.00	250	1	1.7	4.2	10.1
200630	2.00	6.30	250	2.6	4.6	11.2	30
200820	2.00	8.20	250	3.8	7	16.4	45
200880	2.00	8.80	250	4.1	7.6	18.1	49
251250	2.50	12.50	250	11	19	45	100
300794	3.00	7.94	200	8	14	34	80
300820	3.00	8.20	200	8	17	36	80
301000	3.00	10.00	200	11	20	47	105
301820	3.00	18.20	200	23	43	101	200
401760	4.00	17.60	200	38	70	170	500
402000	4.00	20.00	200	43	80	190	560
403510	4.00	35.10	200	81	155	360	600
602760	6.00	27.60	150	141	265	625	1000
603934	6.00	39.34	150	207	390	920	1440
605100	6.00	51.00	150	274	515	1220	2000

\* based on 1 ppm O<sub>2</sub>

\*\* based on 3 ppm H<sub>2</sub>O

The HCG series is designed for high and ultra high purity applications that require process gas impurity levels of 100 PPT or less, except for HG-1106 which has levels of < 1 PPT.

**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)
- Nominal flow rate of 0.4 slpm to 1220 slpm (depending on vessel size)

**ORDERING INFORMATION**

Example: Hydrocarbon Gas Purifier



**Class**

HCG = Hydrocarbon Gas

**Fill**

See HCG Series Media chart for details.

**Size**

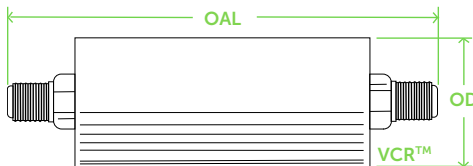
First two digits are the diameter (OD); Last four digits are the length (OAL) in inches.

**Fittings**

- V04=1/4"
- V08=1/2"
- V12=3/4"
- 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/)



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