

Chacollet™ In-line Hydrocarbon Purifiers

Cost-effective hydrocarbon removal in lithography applications

Chacollet™ in-line gas purifiers efficiently remove hydrocarbons in gases in lithography applications. The filter/purifier dramatically reduces hydrocarbons and other molecular contaminants – providing ≤ 1 ppb impurity in gas streams up to 30 slpm*.

APPLICATIONS

- Hydrocarbons impurity removal in purge gases used in photo-lithography applications
- Ideal for purging applications (laser and FOUP)
- Clean dry air (CDA)

FEATURES & BENEFITS

- Ultrapure Activated Carbon (UPAC) provides high efficiency hydrocarbon purification at flow rates up to 30 slpm*
- Prevent haze generation on reticles, lenses, and mirrors used in lithography tools and DUV laser generators
- Superior initial downstream cleanliness, shortens purge time and enables earlier use in your facility



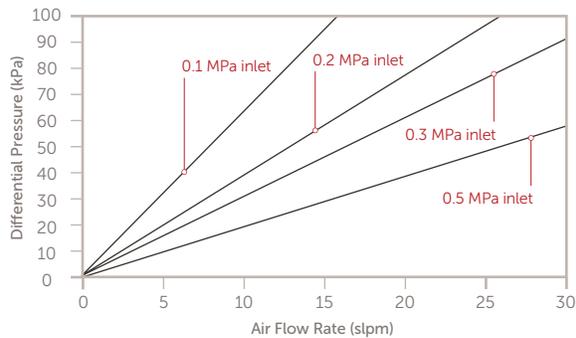
SPECIFICATIONS

Materials	Filter membrane	316L stainless steel
	Housing	316L stainless steel
Initial downstream cleanliness	Volatiles	≤ 1 ppb ($\geq C_6$ number of gaseous organic hydrocarbons @ 1 slpm*)
	Particles	≤ 0.03 particles/liter $\geq 0.01 \mu\text{m}$ @ 30 slpm*
Retention	Particle	$\geq 99.9999\%$ (6 LRV) removal of all particles @ 30 slpm* (referenced at the most penetrating particle size)
	Hydrocarbons	≤ 1 ppb ($\geq C_6$ number of gaseous organic hydrocarbons)
Connection	Inlet/outlet	$\frac{1}{4}$ " compression seal ($\frac{1}{4}$ " Swagelok® tube fitting compatible)
Attachments	Swagelok tube fitting type	$\frac{1}{4}$ " compression seal nut, front and back ferrules/2 sets
Gas type	CDA, N ₂ , Ar, and He**	
Conditions	Maximum inlet pressure: 0.97 MPa (9.7 bar, 141 psig)	
	Maximum design forward/reverse differential pressure: 0.97 MPa (9.7 bar, 141 psid)	
	Maximum rated flow: 30 slpm*	
	Maximum design temperature: RT – inert gases	
Lifetime	Please consult Entegris Account Managers for typical lifetime. The information of flow rate, duty cycle, type of impurity, and concentration of impurity are needed.	

*20°C, 101 kPa

**Contact Entegris for other compatible gas types

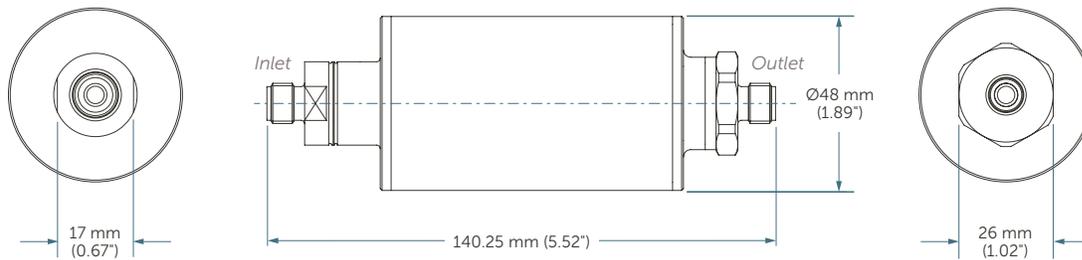
PERFORMANCE DATA



ORDERING INFORMATION

Part number	Description
LP2S AC SS2	Chacollet in-line hydrocarbon purifier ¼" compression seal (¼" Swagelok tube fitting compatible)

DIMENSIONS



FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit entegris.com and select the [Contact Us](#) link to find the customer service center nearest you.

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Corporate Headquarters
129 Concord Road
Billerica, MA 01821
USA

Customer Service
Tel +1 952 556 4181
Fax +1 952 556 8022
Toll Free 800 394 4083

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