

CI-302 Series High Pressure Diffusers



When Accuracy Matters!™

High Accuracy

High Reliability

Quieter Operation

Stainless Steel Design

VCO Fitting

(Other fittings available upon request)

Stepped Outlet

(3/8 and 1/2 inch tubing)

Reduces Contamination Build-up

Pressure Ranges from 5 Psi up to 150 Psi

ISO 8573-4 Compliant

The **CI-302 High Pressure Diffuser** is used when sampling high pressure gases with Climet particle counters or microbial air samplers. Applying compressed air or gases directly to a particle counter or microbial sampler may cause damage to the instrument. With particle counters it will also cause turbulence inside the sensor that produces false high counts.

The **CI-302** works by regulating the flow rate with an external port to provide a path for the excess pressure. This allows the instrument to “pull in” and regulate the flow.

The low pressure end of the diffuser has a dual size outlet fitting. This allows 1/2” or 3/8” tubing to be connected between the **CI-302** and your Climet instrument.

Reliability, Accuracy & Support

The **CI-302** high pressure diffuser is engineered and manufactured with only the highest quality materials. This ensures a long product life-cycle, and up to decades of reliable use. Moreover, we provide support services for all our devices over their lifetime.

Maintenance

The CI-302 has no moving parts, and does not require any calibration. Over time it is possible that particles may build up on surfaces within the diffuser, and require cleaning. It is recommended that the diffuser be returned to Climet’s service department if counts become elevated over time, suggesting that the diffuser needs to be cleaned.

Custom Engineered Solutions

If you have a specific technical requirement, please contact us. We specialize in customizing our products to fit your needs.

Applications Include:

Cleanroom Monitoring & Validation
Medical Device Manufacturing
Pharmaceutical Manufacturing
Hospitals
Semiconductor & Disk Drive Clean

Food & Beverage Processing
Aerospace Assembly
room Monitoring
Cosmetic Manufacturing
Research & Development

CI-302 Series Specifications

Please Contact Climet To Arrange For A FREE Demonstration

Pressure Ranges (Flow Rate)	For 1 CFM Particle Counters: Usable range and total gas consumption in LPM at each pressure																		
	Pressure PSIG/kPA	5 / 34.5	10 / 68.9	15 / 103.4	20 / 137.9	25 / 172.4	30 / 206.8	35 / 241.3	40 / 275.8	50 / 344.7	60 / 413.7	70 / 482.6	80 / 551.6	90 / 620.5	100 / 689.5	120 / 827.3	130 / 896.3	140 / 965.2	150 / 1034
	302-20				29.3	33.6	37.8	42.3	46.5	55.0	64.3	71.4	81.6	89.7	95.0	109.0	117.0	124.0	131.0
	302-21		35.3	47.4	52.2	60.6	69.5	77.7	86.5	103.0	122.0	140.5	159.5	220.0	242.0	283.0	304.0	323.0	342.0
	302-22	34.3	52.0	68.0	75.9	88.3	100.5	112.6	125.4	151.0	177.5	202.4	224.0	247.0	270.0	319.0	339.0	363.0	376.0
	302-24	64.6	100.0	126.7	151.4	177.2	197.5												
	For 50 LPM Particle Counters: Usable range and total gas consumption in LPM at each pressure																		
	Pressure PSIG/kPA	5 / 34.5	10 / 68.9	15 / 103.4	20 / 137.9	25 / 172.4	30 / 206.8	35 / 241.3	40 / 275.8	50 / 344.7	60 / 413.7	70 / 482.6	80 / 551.6	90 / 620.5	100 / 689.5	120 / 827.3	130 / 896.3	140 / 965.2	150 / 1034
	302-20									55.0	64.3	71.4	81.6	89.7	95.0	109.0	117.0	124.0	131.0
	302-21				52.2	60.6	69.5	77.7	86.5	103.0	122.0	140.5	159.5	220.0	242.0	283.0	304.0	323.0	342.0
	302-22			68.0	75.9	88.3	100.5	112.6	125.4	151.0	177.5	202.4	224.0	247.0	270.0	319.0	339.0	363.0	376.0
	302-24	64.6	100.0	126.7	151.4	177.2	197.5												
	For 75 LPM Particle Counters: Usable range and total gas consumption in LPM at each pressure																		
	Pressure PSIG/kPA	10 / 68.9	15 / 103.4	20 / 137.9	25 / 172.4	30 / 206.8	35 / 241.3	40 / 275.8	50 / 344.7	60 / 413.7	70 / 482.6	80 / 551.6	90 / 620.5	100 / 689.5	110 / 758.4	120 / 827.3	130 / 896.3	140 / 965.2	150 / 1034
	302-20											81.6	89.7	95.0	102.0	109.0	117.0	124.0	131.0
	302-21						77.7	86.5	103.0	122.0	140.5	159.5	220.0	242.0	263.0	283.0	304.0	323.0	342.0
	302-22			75.9	88.3	100.5	112.6	125.4	151.0	177.5	202.4	224.0	247.0	270.0	296.0	319.0	339.0	363.0	376.0
	302-24	100.0	126.7	151.4	177.2	197.5													
	For 100 LPM Particle Counters: Usable range and total gas consumption in LPM at each pressure																		
	Pressure PSIG/kPA	*10 / 68.9	15 / 103.4	20 / 137.9	25 / 172.4	30 / 206.8	35 / 241.3	40 / 275.8	50 / 344.7	60 / 413.7	70 / 482.6	80 / 551.6	90 / 620.5	100 / 689.5	110 / 758.4	120 / 827.3	130 / 896.3	140 / 965.2	150 / 1034
302-20														102.0	109.0	117.0	124.0	131.0	
302-21									122.0	140.5	159.5	220.0	242.0	263.0	283.0	304.0	323.0	342.0	
302-22						112.6	125.4	151.0	177.5	202.4	224.0	247.0	270.0	296.0	319.0	339.0	363.0	376.0	
302-24	100.0	126.7	151.4	177.2	197.5	200.0													
Performance	Flow Ranges: 1 CFM, 50 LPM, 75 LPM, and 100 LPM Gasses: Compressed air and Nitrogen. Argon , Helium , and CO ₂ require the particle counter to be calibrated for those gases. Cleaning: Compatible with common cleaning and sterilization procedures, including VHP.																		
Included Accessories	Three feet of tubing (3/8 and 1/2 inch dia.), VCO fitting, and users manual.																		
Dimensions	16.0"/40.6 cm (L) 1.375"/3.5cm (Dia.) 1.0 lb. (.453Kg) (Weight)																		
Compliance	ISO 8573-4, works with Climet portable and OPT particle counters. Microbial Air Samplers require an adapter.																		

For further technical information and questions, please contact us. **We value the opportunity to work with you.**

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