

Particle Size	Particle Counter	Sample Flow Rate	CDA	N ₂	Ar	CO ₂	O ₂ / He / Ne / H ₂	Inlet Pressure (PSI)	HPGP 101-C (Integrated HPG Particle Counter)
≥0.1	HPGP 101-C	0.1 CFM	Y	Y	Y	Y	Y	40-150	401530-X000

Particle Size	Particle Counter	Sample Flow Rate	CDA	N ₂	Ar	CO ₂	O ₂ / He / Ne / H ₂	Inlet Pressure (PSI)	High Pressure Diffuser		Also Compatible with HPDII
									Model	HPD Part #	
≥0.01	NanoAir 10	0.1 CFM	Y	Y	Y	Y	N				
≥0.1	Lasair III 110 / Lasair II 110	1.0 CFM	Y	Y	N	N	N	40-100	HPD II -100	90103510	
≥0.1	Lasair III 110 / Lasair II 110	1.0 CFM	Y	Y	N	N	N	75-150	HPD II -150	90103505	
≥0.3	LasairPro	1.0 CFM	Y	Y	Y	Y	N	40-100	HPD II -100	90103510	
≥0.3	LasairPro	1.0 CFM	Y	Y	Y	Y	N	75-150	HPD II -150	90103505	
≥0.3	IsoAir Pro E and Plus	1.0 CFM	Y	Y	Y	Y	N	40-100	HPD II -100	90103510	
≥0.3	IsoAir Pro E and Plus	1.0 CFM	Y	Y	Y	Y	N	75-150	HPD II -150	90103505	
≥0.2	Airnet 201	0.10 CFM	Y	Y	N	N	N	20-100	HPD III - HIGH	90103560	
≥0.3	Airnet 310	1.0 CFM	Y	Y	N	N	N	5-25	HPD III - LOW	90103567	YES
≥0.3	Airnet 310	1.0 CFM	Y	Y	N	N	N	20-100	HPD III - HIGH	90103561	YES
≥0.3	Airnet 301	0.1 CFM	Y	Y	N	N	N	20-100	HPD III - HIGH	90103560	YES
≥0.5	Airnet 510	1.0 CFM	Y	Y	N	N	N	5-25	HPD III - LOW	90103567	YES
≥0.5	Airnet 510	1.0 CFM	Y	Y	N	N	N	20-100	HPD III - HIGH	90103561	YES
≥0.5	Airnet 501	0.1 CFM	Y	Y	N	N	N	20-100	HPD III - HIGH	90103560	YES
≥0.3	Lasair III 310 / IsoAir 310P	1.0 CFM	Y	Y	N	N	N	40-100	HPD III - LOW	90103567	YES
≥0.3	Lasair III 310 / IsoAir 310P	1.0 CFM	Y	Y	N	N	N	75-150	HPD III - HIGH	90103561	YES
≥0.3	IsoAir Pro-E / IsoAir Pro-PLUS	1.0 CFM	Y	Y	Y	Y	N	5-25	HPD III - LOW	90103567	YES
≥0.3	IsoAir Pro-E / IsoAir Pro-PLUS	1.0 CFM	Y	Y	Y	Y	N	20-100	HPD III - HIGH	90103561	YES
≥0.3	Lasair Pro 310	1.0 CFM	Y	Y	Y	Y	N	5-25	HPD III - LOW	90103567	YES
≥0.3	Lasair Pro 310	1.0 CFM	Y	Y	Y	Y	N	20-100	HPD III - HIGH	90103561	YES
≥0.3	Lasair Pro 350	50 LPM	Y	Y	Y	Y	N	5-25	HPD III - LOW	90103568	YES
≥0.3	Lasair Pro 350	50 LPM	Y	Y	Y	Y	N	20-100	HPD III - HIGH	90103565	YES
≥0.5	Lasair Pro 5100	100 LPM	Y	Y	Y	Y	N	20-60	HPD III - LOW	90103569	YES
≥0.5	Lasair Pro 5100	100 LPM	Y	Y	Y	Y	N	60-100	HPD III - HIGH	90103566	YES

For pressures and gases not listed please contact PMS

HPGP Gas Experience Information			
Updated February 2018			
Gas	Reference	Gas Constant	Notes
Acetylene (C ₂ H ₂)	1.440	1.440	
Carbon Dioxide (CO ₂)	0.740	0.740	Only at 40 psi - higher pressure too noisy.
Carbon Monoxide (CO)	1.000	1.000	Only at high concentrations, install carefully.
CDA (Clean Dry Air)	1.000	1.000	
Helium (He)	1.440	1.440	Only 20 min every hour, then flush with CDA or N ₂
Hydrogen (H ₂)	1.000	1.000	Only 20 min every hour, then flush with CDA or N ₂
Isopentane (i-C ₅ H ₁₂)	1.440	1.440	
Isobutane (i-C ₄ H ₁₀)	1.440	1.440	
Nitrogen (N ₂)	0.710	0.710	
Oxygen (O ₂)	0.980	0.980	
Sulfur hexafluoride (SF ₆)	0.770	0.770	
Unknown Gas	1.440	1.440	

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≥0.1	HPGP 101-C	0.1 CFM	Y	Y	Y	Y	Y	40-150	401530-X000

Particle Size	Particle Counter	Sample Flow Rate	CDA	N ₂	Ar	CO ₂	O ₂ / He / Ne / H ₂	Inlet Pressure (PSI)	High Pressure Diffuser		Also Compatible with HPDII
									Model	HPD Part #	
≥0.3	Lasair III 310 / IsoAir 310P	1.0 CFM	Y	Y	N	N	N	40-100	HPD III - LOW	90103567	YES
≥0.3	Lasair III 310 / IsoAir 310P	1.0 CFM	Y	Y	N	N	N	75-150	HPD III - HIGH	90103561	YES
≥0.3	IsoAir Pro-E / IsoAir Pro-PLUS	1.0 CFM	Y	Y	Y	Y	N	5-25	HPD III - LOW	90103567	YES
≥0.3	IsoAir Pro-E / IsoAir Pro-PLUS	1.0 CFM	Y	Y	Y	Y	N	20-100	HPD III - HIGH	90103561	YES
≥0.3	Lasair Pro 310	1.0 CFM	Y	Y	Y	Y	N	5-25	HPD III - LOW	90103567	YES
≥0.3	Lasair Pro 310	1.0 CFM	Y	Y	Y	Y	N	20-100	HPD III - HIGH	90103561	YES
≥0.3	Lasair Pro 350	50 LPM	Y	Y	Y	Y	N	5-25	HPD III - LOW	90103568	YES
≥0.3	Lasair Pro 350	50 LPM	Y	Y	Y	Y	N	20-100	HPD III - HIGH	90103565	YES
≥0.5	Lasair Pro 5100	100 LPM	Y	Y	Y	Y	N	20-60	HPD III - LOW	90103569	YES
≥0.5	Lasair Pro 5100	100 LPM	Y	Y	Y	Y	N	60-100	HPD III - HIGH	90103566	YES

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Particle Size	Particle Counter	Sample Flow Rate	CDA	N ₂	Ar	CO ₂	O ₂ / He / Ne / H ₂	Inlet Pressure (PSI)	HPGP 101-C (Integrated HPG Particle Counter)
≥0.1	HPGP 101-C	0.1 CFM	Y	Y	Y	Y	Y	40-150	401530-X000

Particle Size	Particle Counter	Sample Flow Rate	CDA	N ₂	Ar	CO ₂	O ₂ / He / Ne / H ₂	Inlet Pressure (PSI)	High Pressure Diffuser		HPD Model Part Number	HPD Part #	Also Compatible with HPDII
									HPDII / Part Number	HPDIII / Part Number			
≥0.01	NanoAir 10	0.1 CFM	Y	Y	Y	Y	N						
≥0.1	Lasair III 110 / Lasair II 110	1.0 CFM	Y	Y	N	N	N	40-100	HPD II -100 / 90103510	HPD III - HIGH / 90103561	90103561	90103510	
≥0.1	Lasair III 110 / Lasair II 110	1.0 CFM	Y	Y	N	N	N	75-150	HPD II -150 / 90103505			90103505	
≥0.3	LasairPro	1.0 CFM	Y	Y	Y	Y	N	40-100	HPD II -100 / 90103510			90103510	
≥0.3	LasairPro	1.0 CFM	Y	Y	Y	Y	N	75-150	HPD II -150 / 90103505			90103505	
≥0.3	IsoAir Pro E and Plus	1.0 CFM	Y	Y	Y	Y	N	40-100	HPD II -100 / 90103510			90103510	
≥0.3	IsoAir Pro E and Plus	1.0 CFM	Y	Y	Y	Y	N	75-150	HPD II -150 / 90103505			90103505	
≥0.2	Airnet 201	0.1 CFM	Y	Y	N	N	N	20-100	HPD III - HIGH / 90103560			90103567	YES
≥0.3	Airnet 310	1.0 CFM	Y	Y	N	N	N	5-25	HPD III - LOW / 90103567			90103561	YES
≥0.3	Airnet 310	1.0 CFM	Y	Y	N	N	N	20-100	HPD III - HIGH / 90103561			90103560	YES
≥0.3	Airnet 301	0.1 CFM	Y	Y	N	N	N	20-100	HPD III - HIGH / 90103560			90103560	YES
≥0.5	Airnet 510	1.0 CFM	Y	Y	N	N	N	5-25	HPD III - LOW / 90103567			90103567	YES
≥0.5	Airnet 510	1.0 CFM	Y	Y	N	N	N	20-100	HPD III - HIGH / 90103561			90103561	YES
≥0.5	Airnet 501	0.1 CFM	Y	Y	N	N	N	20-100	HPD III - HIGH / 90103560			90103560	YES
≥0.3	Lasair III 310 / IsoAir 310P	1.0 CFM	Y	Y	N	N	N	40-100	HPD III - LOW / 90103510	HPD III - HIGH / 90103561		90103567	YES
≥0.3	Lasair III 310 / IsoAir 310P	1.0 CFM	Y	Y	N	N	N	75-150	HPD III -150 / 90103505	HPD III - HIGH / 90103560		90103561	YES
≥0.3	IsoAir Pro-E / IsoAir Pro-PLUS	1.0 CFM	Y	Y	Y	Y	N	5-25	HPD III - LOW / 90103567			90103567	YES
≥0.3	IsoAir Pro-E / IsoAir Pro-PLUS	1.0 CFM	Y	Y	Y	Y	N	20-100	HPD III - HIGH / 90103561			90103561	YES
≥0.3	Lasair Pro 310	1.0 CFM	Y	Y	Y	Y	N	5-25	HPD III - LOW / 90103567			90103567	YES
≥0.3	Lasair Pro 310	1.0 CFM	Y	Y	Y	Y	N	20-100	HPD III - HIGH / 90103561			90103561	YES
≥0.3	Lasair Pro 350	50 LPM	Y	Y	Y	Y	N	5-25	HPD III - LOW / 90103568			90103568	YES
≥0.3	Lasair Pro 350	50 LPM	Y	Y	Y	Y	N	20-100	HPD III - HIGH / 90103565			90103565	YES
≥0.5	Lasair Pro 5100	100 LPM	Y	Y	Y	Y	N	20-60	HPD III - LOW / 90103569			90103569	YES
≥0.5	Lasair Pro 5100	100 LPM	Y	Y	Y	Y	N	60-100	HPD III - HIGH / 90103566			90103566	YES

For pressures and gases not listed please contact PMS

Table 1-1 Pressure range for HPD III flowrate models

Part Number	Model Description	Flow Rate	CDA Pressure Range (PSI)	Nitrogen Pressure Range (PSI)	Argon Pressure Range (PSI)	Carbon Dioxide Pressure Range (PSI)
90103560	0.1 CFM High Pressure (2.83 LPM)	0.1 CFM	25.0 - 100.0	22.5 - 98.0	29.0 - 119.0	31.0 - 126.0
90103561	1.0 CFM High Pressure (28.3 LPM)	1.0 CFM	25.0 - 120.0	24.0 - 98.0	30.0 - 122.0	32.0 - 129.0
90103565	50 LPM High Pressure (100 LPM)	1.77 CFM (80 LPM)	25.0 - 100.0	23.5 - 98.0	31.5 - 120.0	32.5 - 128.0
90103566	100 LPM High Pressure (100 LPM)	3.53 CFM (100 LPM)	60.0 - 100.0	58.0 - 98.0	71.0 - 120.0	75.0 - 128.0
90103567	50 LPM Low Pressure (28.3 LPM)	1.77 CFM (50 LPM)	5.0 - 25.0	5.0 - 24.5	7.5 - 32.0	8.5 - 34.0
90103568	50 LPM Low Pressure (100 LPM)	1.77 CFM (50 LPM)	5.0 - 25.0	5.0 - 24.5	7.5 - 31.5	8.5 - 33.5
90103569	100 LPM Low Pressure (100 LPM)	3.53 CFM (100 LPM)	20.0 - 60.0	19.5 - 58.5	24.5 - 72.0	26.5 - 77.0