



Series PFHPD Laser Filters

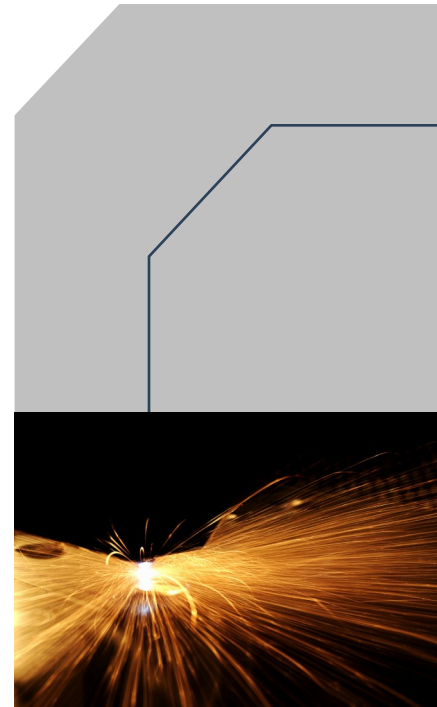
High pressure filters designed for the purification of compressed air and other gases.

Liberty Systems PFHPD high pressure filters are designed for extreme purification of compressed air and gases in laser and other highly sensitive operations. The series PFHPD eliminating or minimizing problems and expensive downtime associated with inferior filtration. The series PFHPD filters offer low differential pressure at high flow rates.

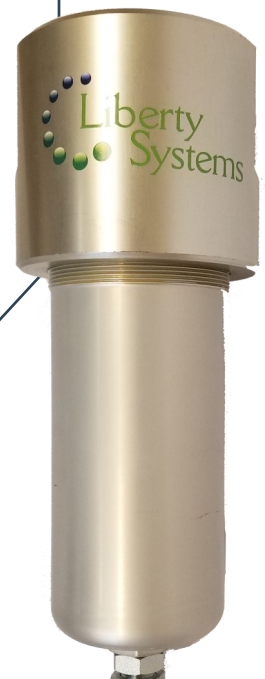
Liberty Systems series PFHPD filters undergo a proprietary cleaning process to ensure they are suitable for use in any highly sensitive application. All filters are 1.0" BSPP thread to prohibit the use of Teflon[®] tape which can lead to contamination of your equipment.

A wide variety of filter elements are available ranging from sub-micron through vapor to meet a wide range of application requirements.

The PFHPD High Pressure Filter Housings are designed in accordance to ASME VIII, Division 1.



Series PFHPD Specifications	
Validation:	Validation of high-efficiency filters by Technical University Dresden
Residual oil content at an inlet concentration of 3 mg/m3:	AO = 0.03 mg / m3 AA = <0.01 mg/m3 ACS = <0.003 mg/m3*
Retention rate related to particles of 0.01 µm:	AO = 99.99998% AA = 99.99999%
Initial Differential Pressure at Nominal Flow:	AO = 1.20 psi AA = 1.70 psi ACS = 1.16 psi
*In combination with AA element	

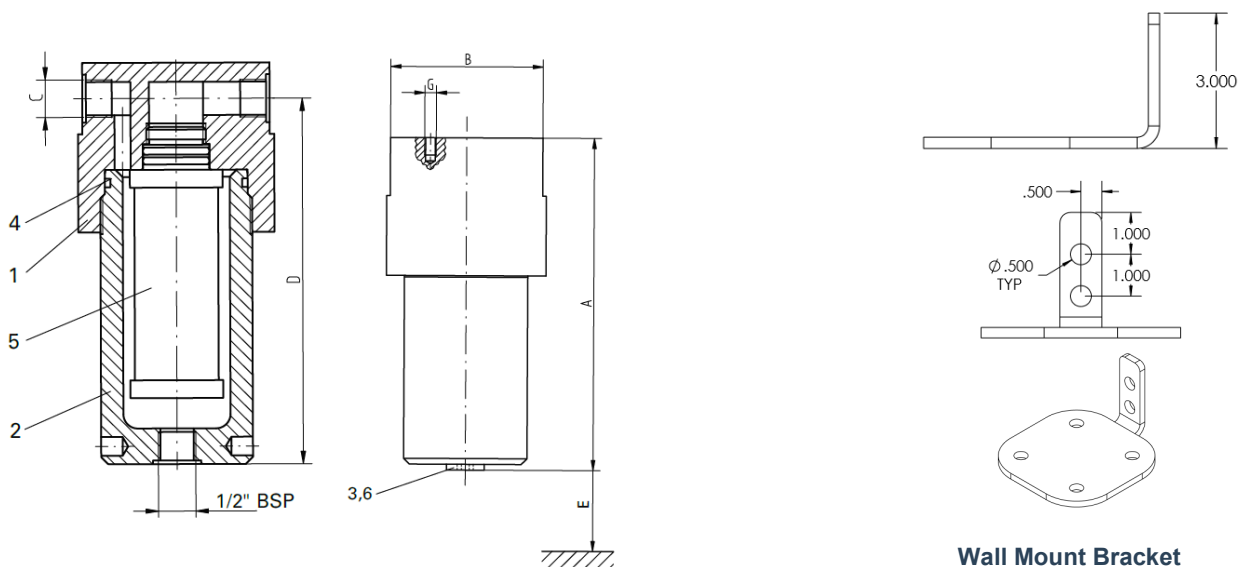


ACS Element Vapor Effectiveness			
Ethane	SLIGHT	Sulphuric Acid	VERY GOOD
Toluene	VERY GOOD	Hydrogen Sulphide	POOR
Acetic Acid	VERY GOOD	Chlorine	GOOD
Methanol	GOOD	Freon	POOR
Acetone	GOOD	Ammonia	POOR
Isopropyl Ether	VERY GOOD	Citrus Fruits	VERY GOOD
Methyl Acetate	GOOD	Perfumes	VERY GOOD

Series PFHPD Specifications	
Filter Housings:	Aluminum (cleaned with Liberty Systems' proprietary cleaning process)
Sealing:	O-ring, parting compound free, made of Perbunan® (safe for laser use)
Surface Finish:	Aluminum anodized
Connection:	1.0" FBSPP
Min / Max Operating Temperature:	+14°F / +176°F
Maximum Pressure:	580 psig
Maximum Capacity at 580 psig:	777 scfm
Maximum Capacity at 400 psig:	518 scfm

*Perbunan® is a registered trademark of LANXESS Deutschland GmbH UFSB0151

Series PFHPD Specifications							
	Item #	Type	Connection	Height (A)	Width (B)	lbs	Replacement Element
PF265AOHP-16D	8510	1.0 Micron Coalescing	1.0" FBSPP	9.3"	4.7"	10.4	7240
PF265AAHP-16D	8511	Sub-micron Particulate	1.0" FBSPP	9.3"	4.7"	10.4	7241
PF265ACSH-16D	8509	0.003 ppm/v Vapor	1.0" FBSPP	9.3"	4.7"	10.4	7242



Experience

Liberty Systems unwavering dedication to results defines our products and offers an impressive portfolio of gas products. Our ISO 9001 management processes, quality control methods, and our dedication to the advancement of separation technology ensure that our clients' most complex projects are delivered on time. As a result, we enjoy enduring relationships with our existing clients, as well as a constant flow of new business.

For more information about opportunities regarding your application, please contact us or visit our website.

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