



# FHP Series High Pressure Air & Gas Filters



## Standard Specifications

### Filter Housing:

- 316 polished stainless steel
- NPT connections of 1/4" to 2"
- Threaded drain plug
- Buna-N body o-ring
- Maximum working pressure (WOG):
- FHP- #-7.25=725 psig
- FHP- #-14.5=1450 psig
- FHP- #-5=5000 psig

### Options & Accessories

- Zinc plated carbon steel housing with epoxy coating (1450 and 5000 psig MP models only)

## Dependability under pressure

When the pressure is on, depend on Van Air FHP series high pressure filters for effective oil aerosol, water and particle removal from your compressed air or gas system.

Three model ranges handle pressures of 725, 1450 and 5000 psig for applications such as PET molding, test facilities, lab research sites, natural gas installations and many others.

## Easy to use, built to last

All Van Air FHP Series filters are designed for ease and built to provide lasting service for your air or gas system.

No bolts to increase costly maintenance time and money. Threaded housings facilitate element changeout.

Strong element cores maintain element integrity under maximum pressures.

High quality, 316 polished stainless steel housings provide the ultimate in corrosion resistance and housing strength.

For pressures of 1450 and 5000 psig, economical zinc plated carbon steel housings are also available.

## A variety of sizes and filtration grades

Van Air FHP Series high pressure filters are available in 21 housing sizes, connection sizes from 1/4" to 2" and flows of 6 to 670 scfm @ 100 psig. These models cover maximum working pressures of 725, 1450 and 5000 psig.

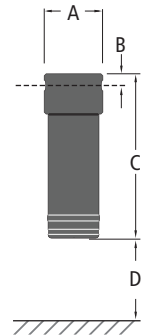
Nine element grades offer various filtration levels for oil and water, particle and oil vapor removal.

## Weights and Dimensions

Model No.	Rated flow @ 100 psig* SCFM	In/Out Connection (inches)	Dimensions (inches)				Drain Connection (inches)	Weight incl. Element (lbs.)	Replacement Element Model No.
			A	B	C	D			
FHP-20-7.25-(*)	20	¼ NPT	3.5	.75	6.75	3	⅛	4	E100-15-(*)
FHP-40-7.25-(*)	40	⅜ NPT	3.5	.75	8.25	4	⅛	4.5	E100-30/E200-55-(*)
FHP-70-7.25-(*)	67	½ NPT	3.5	.75	10.25	4	⅛	5	E100-50-(*)
FHP-105-7.25-(*)	100	¾ NPT	4.5	1	10.75	6	¼	9	E100-105-(*)
FHP-200-7.25-(*)	200	1 NPT	4.5	1	16.75	12	¼	11	E100-200-(*)
FHP-325-7.25-(*)	333	1½ NPT	6	2	20.75	12	¼	33	E100-325/400-(*)
FHP-400-7.25-(*)	400	2 NPT	6	2	20.75	12	¼	33	E100-325/400-(*)
FHP-670-7.25-(*)	667	2 NPT	6	2	32.5	19.75	¼	46	E101/102-500-(*)
FHP-20-14.5-(*)	17	¼ NPT	2.75	1	5.5	3	¼	4.5	EHP-15-(*)
FHP-50-14.5-(*)	52	½ NPT	2.75	1	10	7.25	¼	6	EHP-50-(*)
FHP-75-14.5-(*)	74	¾ NPT	3.5	1	11	10	¼	13.5	EHP-70-(*)
FHP-110-14.5-(*)	110	1 NPT	5.25	1	10.5	6	¼	23	EHP-100-(*)
FHP-195-14.5-(*)	193	1 NPT	5.25	1	19	12	¼	32.5	EHP-185-(*)
FHP-275-14.5-(*)	276	1½ NPT	6	2	20.75	12	¼	48.5	EHP-275-(*)
FHP-550-14.5-(*)	552	2 NPT	6	2	32.5	19.75	¼	62	EHP-550-(*)
FHP-6-50-(*)	6	¼ NPT	1.75	.5	4.25	2.5	¼	1.5	EHP-6-(*)
FHP-15-50-(*)	15	¼ NPT	2.75	1	5.5	2.75	¼	4.5	EHP-15-(*)
FHP-35-50-(*)	33	½ NPT	3.5	1	8.25	6	¼	12.5	EHP-30-(*)
FHP-70-50-(*)	67	¾ NPT	3.5	1	11.25	10	¼	13.5	EHP-70-(*)
FHP-100-50-(*)	99	1 NPT	5.5	1	15	8	¼	32	EHP-100-(*)
FHP-175-50-(*)	172	1 NPT	5.5	1	20.75	12	¼	38.5	EHP-185-(*)

## Filtration Grades

Application	Element Grade	Purpose	Nominal Particulate Removal/ISO 8573.1 Class	Max. Oil Carryover PPM w/w/ISO 8573.1 Class	Max Inlet Temp °F	Clean, Dry Pressure Drop PSID
Oil Removal	AA	Extra coarse coalescing	25 µ/5	7.8/5	225	.40
	A	Coarse coalescing	5 µ/3	3.9/4	225	.50
	B	General purpose coalescing	1 µ/2	.78/3	175	.75
	C	High efficiency coalescing	.01µ/1	.008/1	125	1.50
Particulate Removal	RAA	Extra coarse particulate	25µ/5	-	225	.40
	RA	Coarse particulate	5µ/3	-	225	.50
	RB	General purpose particulate	1µ/2	-	225	.75
	RC	High efficiency particulate	.01µ/1	-	225	1.50
Oil Vapor Removal	RD	Vapor absorbing	.01µ/1	.004/1	80	1.50



Distributed by:

### Filter Sizing

- Match the filter's inlet and outlet ports to your system pipe size
- Select a model assuming the maximum flow condition at the minimum pressure. Also be sure the maximum operating pressure does not exceed the maximum rated pressure of the filter
- Multiply by all appropriate correction factors.  
Example: Model FHP -40-7.25 rated for 40 scfm @ 100psig. What is the rated flow at 300 psig? 40scfm x 1.7=68 scfm @ 300 psig. At 725 psig? 40 scfm x 2.6 = 104 scfm @ 725 psig

### How to Order

To order a complete filter or a replacement element, add the filtration grade letter to the model number. (Each housing requires one replacement element.)  
Complete Filter Example:  
FHP-40-7.25-C=high pressure, high efficiency

coalescing filter for 40 scfm @ 100 psig

Element Example:  
E100-30/E200-55-C=element for FHP-40-7.25-C

Due to our policy of continuous improvement, dimensions and specifications may change without notice. Request certified drawing for pre-piping.

### \*Correction factors

725 psig models:  
200 psig = 1.4, 300 psig = 1.7, 725 psig = 2.6  
1450 psig models:  
1000 psig = 3.0, 1250 psig = 3.3, 1450 psig = 3.5  
5000 psig models:  
1500 psig = 3.6, 2000 psig = 4.2, 3500 psig = 5.5, 5000 psig = 6.6