#### **FIL-TREK CORPORATION**

55 Stafford Court Cambridge, ON N1T 1B3 P (519) 623-7448 F (519) 623-8807

# **HFH SERIES**

# **Horizontal High Flow Filter Housings**

- Horizontal Orientation
- High Flow Filter Housing
- ASME Design / Industrial Design

Multi-purpose industrial ASME code ("U" & "UM") and non-code design housings.



#### **SUITABLE USES**







Desalination



Coolant







Coatings





Chemical

(4) Pulp & Paper







**MEDIA** 

**COMPATIBLE** Accepts multiple 40", and 60" High Flow series filters.

**DESIGN** 

150psig (10.3bar) @ 400 F (204.4 C)

**PRESSURE** 

design pressure.

**AVAILABLE MATERIALS**  Vessels available in carbon or stainless steel 304 or 316.

Also available in C276, AL6XN, RA2205

and Monel 400.

\*All materials are in compliance with NSF 61 standards, except for carbon steel.

**ADDITIONAL FEATURES** 

Swing bolt closure allows for quick element change out. Equivalent to Cuno High Flow systems.

Custom sizes, configurations, materials of construction and other options may be available. Please contact Fil-Trek

For drawings, flow charts, custom applications and filter cartridge information please visit Fil-Trek.com

# **High Flow Cartridge Filter Housings**

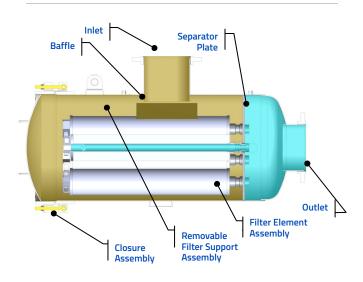
- Horizontal
- High Flow Filter Housing
- ASME Design / Industrial Design



## **HOUSING SPECIFICATIONS**

\*Indicates standard configuration

Inlet/Outlet	3"Flange -24"Flange
Dirty Drain	2"NPT
Clean Drain	2"NPT
Vent	½v"NPT
Gauges	½" NPT
Certifications	U, UM, CE, NB, CRN



# COMPATIBLE FILTERS HF SERIES FILTERS Absolute rated, pleated media filters that suit a wide range of applications. Available in micron ratings between 1 and 70. Click to view HF Series

## **MODEL FLOW RATES**

MODEL	# OF FILTERS	FLOW RATE GPM	MAX INLET / OUTLET(IN)
HFH08	1	175	4
HFH14	2	350	4
HFH16	3	525	6
HFH18	4	700	6
HFH20	6	1050	8
HFH24	7	1225	10
HFH26	8	1400	12
HFH28	11	1925	12
HFH30	12	2100	12
HFH32	14	2450	14
HFH34	16	2800	14
HFH36	19	3325	16
HFH38	20	3500	16
HFH40	23	4025	16
HFH42	25	4375	18
HFH44	29	5075	18
HFH46	31	5425	20
HFH48	35	6125	22
HFH50	37	6475	24

For maximum efficiency/product life, the flow rates are based on water at 175gpm/40". Actual Flow rate is dependent on fluid viscosity, cartridge micron rating, contaminant and type of media.

# **MATERIAL OF CONSTRUCTION**

MATERIAL OF CONSTRUCTION	MAX. OPERATING PRESSURE	MAX. DESIGN TEMP
Carbon Steel	150 psi (10.3bar)	400 F (204.4 C)
304 Stainless Steel	150 psi (10.3bar)	400 F (204.4 C)
316 Stainless Steel	150 psi (10.3bar)	400 F (204.4 C)



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## **HOUSING OPTIONS**

\*Indicates standard configuration

Configuration (-) E - Top In/End Out\* **Options** C - Side In/End Out

**Finish Options** 

(-) - External paint "National Blue" (Standard for carbon steel housings)

(-) - Bead Blast (standard for stainless steel 304

and 316)

EP1 – Electro polish Inside/Outside

EP2 - Inside only EP3 - Outside only PP - Passivation

**O-Ring Options**  (-) - Buna-N\* ED - EPDM

VI - Viton SI - Silicone TF - Teflon

Closure **Assembly Options** 

(-) Mechanical Davit (std for HFH12 and larger)\*

(-) Hydraulic Davit (std for HFH40 and larger)\* K3 - Hydraulic Jack Davit Side

K4 - Hydraulic Jack Davit Top

\*See page 5-6 for other closure options

**Accessories** 

**Direct Reading Gauge** 

DP Gauge

Safety Relief Valves

Vent Valves Drain Valves Air Eliminator

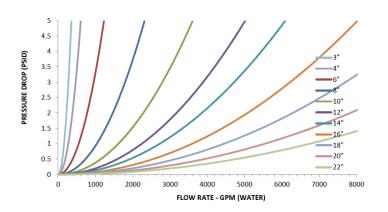
**Other Options** Stainless Steel bolting

Passivation

Electropolished, Inside/Out

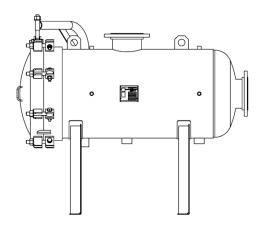
Skid Mounting Duplexing

## **FLOW CHART**



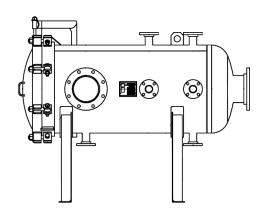
### E Top In/End Out\*

Side View



## C Side In/End Out

Side View





For more information, e-mail: info@fil-trek.com or visit Fil-Trek.com

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## **MODEL DIMENSIONAL DETAILS**

MODEL	SHIPPING WEIGHT (LBS)	A	В	С	D	E	F
HFH08	230	85/11	42"	36"	50"	62"	42"
HFH14	400	14½"	50"	36"	28"	66"	54"
HFH16	600	16½"	50"	36"	28"	66"	54"
HFH18	800	18½"	50"	36"	30"	68"	54"
HFH20	1000	20½"	52"	36"	30"	68"	56"
HFH24	1400	24½"	56"	36"	34"	72"	60"
HFH26	1600	26½"	56"	36"	34"	74"	60"
HFH28	1800	28½"	58"	36"	34"	74"	62"
HFH30	2000	30½"	58"	36"	34"	74"	62"
HFH32	2400	32½"	60"	36"	36"	76"	64"
HFH34	2800	345/8"	60"	36"	36"	76"	64"
HFH36	3000	36%"	64"	36"	42"	78"	68"
HFH38	3400	38½"	64"	36"	42"	80"	68"
HFH40	3800	405/8"	64"	36"	42"	80"	68"
HFH42	4200	425/8"	68"	36"	44"	84"	72"
HFH44	4600	445/8"	68"	36"	44"	84"	72"
HFH46	5200	46¾"	70"	36"	50"	95"	74"
HFH48	5600	48¾"	72"	36"	50"	95"	76"
HFH50	6000	50¾"	78"	42"	50"	102"	82"

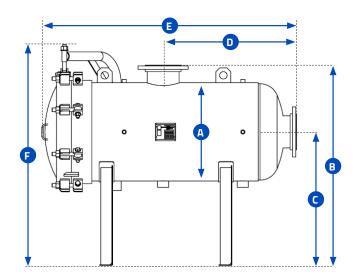
<sup>\*</sup>Above dimensions are for 40" Element, Style E. For other options contact factory.

#### **CHART LEGEND**

- OUTSIDE DIAMETER
- FLOOR TO INLET
- **C** FLOOR TO OUTLET
- D FACE TO FACE
- **E** OVERALL LENGTH
- **F** OVERALL HEIGHT

#### E Top In/End Out\*

Side View





<sup>\*\*\*</sup>Given dimensions are approximate only, for true dimensions contact factory.

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#### PRESSURE & TEMPERATURE DESIGNATION

DESIGNATION	МОС	PSI	TEMP (°F)	ANSI RATING	
DT4	CS	285	100	ANCL 150	
PT1	SS304/SS316	270	100	ANSI 150	
PT2	CS	200	400	ANSI 150	
PIZ	SS304/SS316	190	400	AIVJI 15U	
РТЗ	CS	740	100	ANSI 300	
FIS	SS304/SS316	720	100	AIVJ JOO	
DT/	CS	635	4.00	ANCI 200	
PT4	SS304/SS316	495	400	ANSI 300	
PT5	CS	1480	100	ANSI 600	
	SS304/SS316	1440	100	AINOI IOUU	

Table above based on ANSI flange ratings. Fil-Trek will design based on application pressure and temperature requirements. Max temperature may be limited to gasket material.

# **PRODUCT NOMENCLATURE**

<b>S6</b>	HFH	16	003	40	6F	PT1	-
MATERIAL	MODEL	HOUSING DIAMTER	# OF CARTRIDGES	LENGTH	CONNECTION TYPE	DESIGN PRESSURE	OPTIONS
(-) – Carbon <b>S4</b> – SS304 <b>S6</b> – SS316	<b>HFH</b> – ASME Code <b>EHFH</b> – Non ASME	See Table	See Table	40 60	See Table	See Pressure & Temperature Designation chart	See "Housing Options"



## **High Flow Cartridge Filter Housings**

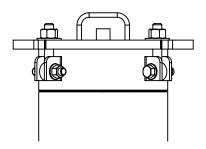
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# **CLOSURE AND QUICK OPENING COVER OPTIONS**

Fil-Trek designs and fabricates a variety of closure and quick opening cover options to accommodate strict applications and requirements. All materials of construction are in accordance with ASME specifications and manufacturing complies with the applicable rules of the ASME Code for Pressure Piping and with the ASME Boiler and Pressure Vessel Code.

## **HINGED COVER**

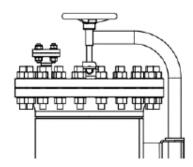


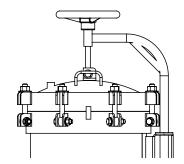
The most economical quick opening closure offered for fabricated strainers with nominal pressure applications. The swing bolt hinged cover uses an O-ring to seal. Easy to open by quickly and easily by loosening the swing bolts until they clear the holding lugs and swinging the head open on its hinge.

## **MECHANICAL DAVIT ASSEMBLY**

Our mechanical davit assembly makes it easy for the operator to open and swing the cover away to facilitate basket or screen removal for cleaning. It is used primarily for larger strainers where cover removal is difficult and heavy. This is the most inexpensive alternative to quick release covers, especially when operating conditions require a bolted cover. Available for swing bolt and ANSI closures.

\*\*Hydraulic davit head lift also available.





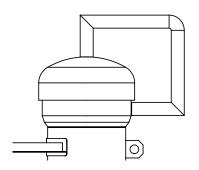


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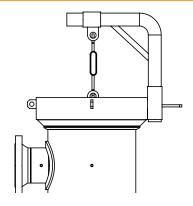
## THREADED HINGED COVER



The quick open threaded hinged closure uses a cap fastened to a hub and is welded to the strainer body. The female cap is threaded onto the male hub using O-rings to seal. The O-ring prevents corrosion of the closure threads and provides a long, trouble free service. The threaded cover can be used for both nominal and high pressure applications. Available in both vertical and horizontal configurations.

## **YOKE CLOSURE**

The Yoke hinged cover is a true ANSI rated closure and uses an O-ring seal. Used primarily on high pressure applications, it is available for 150#, 300#, 600#, 900# and 1500# ANSI ratings with a wide range of operating aids, ranging from a single lever chain and sprocket drive to completely automated.



## **CLOSURE COMPARISON**

#### **COVER TYPE**

	HINGED COVER	MECHANICAL DAVIT	THREADED COVER	YOKE CLOSURE
COST	Low	Moderate	High	High
QUICK OPENING ABILITY	Good	Fair	Best	Best
LOW PRESSURE APPLICATIONS	X	Χ	-	-
NOMINAL PRESSURE APPLICATIONS	Χ	X	Χ	Χ
HIGH PRESSURE APPLICATIONS	-	Χ	Χ	Χ

