

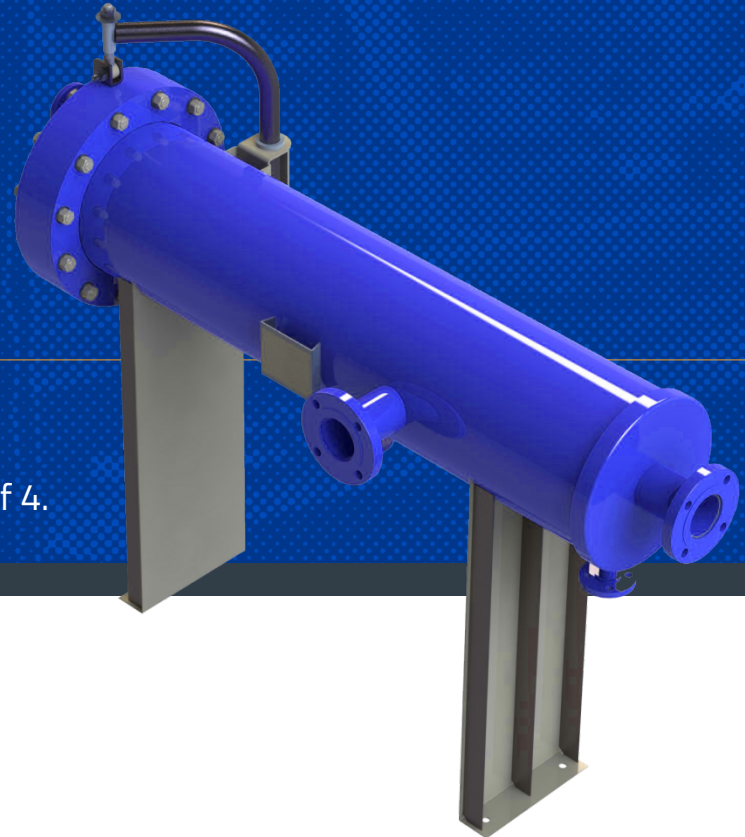


# FRPH SERIES

## Fibreglass Reinforced Plastic Cartridge Filter Housings

- FRP Cartridge Filter Housings
- Horizontal Design
- Universal

Up to 100psig (6.9bar) @ 150°F (65.5°C)  
standard design pressure with a safety factor of 4.



### SUITABLE USES



Desalination



Chemical



Water



Marine

### MEDIA

Accepts multiple 30", 40", 50" or 60" cartridges.

Housings accepts industry standard double open end style cartridges.

*\*Models can be designed to accept single open end cartridges.*

### DESIGN PRESSURE

Up to 100psig (6.9bar) @ 150°F (65.5°C) standard design pressure with a safety factor of 4.

### AVAILABLE MATERIALS

Steel components available in stainless steel 304 or 316 for models above FRPH30

### ADDITIONAL FEATURES

Swing bolt closure allows for quick element change out  
Built to NSF standards  
Vessel material has a longer life expectancy when dealing with corrosive liquids, such as; sea water and brackish water.

*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](http://Fil-Trek.com)*

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- Housings accepts industry standard double open end style cartridges



## HOUSING SPECIFICATIONS

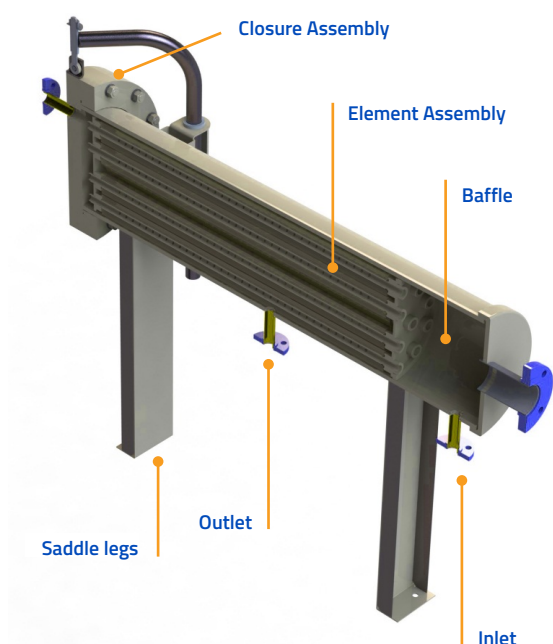
\*Indicates standard configuration

|                                  |                                                          |
|----------------------------------|----------------------------------------------------------|
| <b>Inlet/Outlet</b>              | 2" Flange -18" Flange                                    |
| <b>Dirty Drain</b>               | 2" Flanged*                                              |
| <b>Clean Drain</b>               | 2" Flanged*                                              |
| <b>Vent</b>                      | 1"-2" Flanged*                                           |
| <b>Body Material</b>             | FRP – Fibreglass Reinforced Plastic (vinyl-ester resin)* |
| <b>External Finishing</b>        | Blue Exterior Paint*<br>Custom Paint Available           |
| <b>External Steel Components</b> | SS316                                                    |
| <b>External Bolting</b>          | SS304/B7                                                 |

## MODEL FLOW RATES

| MODEL            | # OF FILTERS | MAX FLOW RATE GPM |
|------------------|--------------|-------------------|
| FRPH12-011-4-4F  | 11           | 220               |
| FRPH14-017-4-4F  | 17           | 340               |
| FRPH16-022-4-6F  | 22           | 440               |
| FRPH18-029-4-6F  | 29           | 580               |
| FRPH20-035-4-6F  | 35           | 700               |
| FRPH24-050-4-8F  | 50           | 1000              |
| FRPH30-082-4-10F | 82           | 1640              |
| FRPH36-120-4-12F | 120          | 2400              |
| FRPH42-165-4-14F | 165          | 3300              |
| FRPH48-220-4-16F | 220          | 4400              |
| FRPH54-290-4-18F | 290          | 5800              |
| FRPH60-360-4-20F | 360          | 7200              |

Flow rates based on water at 5gpm/10" (assuming 40" cartridges). Actual Flow rate is dependent on fluid viscosity, cartridge micron rating, contaminant and type of media.



The internal PVC post is perforated to allow for even liquid distribution amongst the entire filter cartridge length. The top seat and bottom cup are also made of PVC.

## MATERIAL OF CONSTRUCTION

| MATERIAL OF CONSTRUCTION | MAX. OPERATING PRESSURE | MAX. DESIGN TEMP |
|--------------------------|-------------------------|------------------|
| FRPH                     | 100 psi (10.3bar)       | 150°F            |

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## HOUSING OPTIONS

\*Indicates standard configuration

|                                   |                                                                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Configuration Options</b>      | <b>(-) E - Top In/End Out*</b><br>C - Side In/End Out                                                                                               |
| <b>O-Ring Options</b>             | <b>(-) – Buna-N*</b><br>ED – EPDM<br>VI – Viton<br>SI – Silicone                                                                                    |
| <b>Leg Options</b>                | <b>Saddle Legs*</b>                                                                                                                                 |
| <b>Head Lift Options</b>          | <b>Handles (Std up to FRP24)*</b><br><b>Headlift (Std for FRPH30 and above)*</b><br>K3 – Hydraulic Jack<br><i>*Other headlift options available</i> |
| <b>Filter Configuration</b>       | <b>E1 – Double Open End*</b>                                                                                                                        |
| <b>External Steel Attachments</b> | <b>ATS4 – SS304*</b><br>ATS6 – SS316                                                                                                                |
| <b>Bolting Options</b>            | <b>B1 – B7 Bolting*</b><br>B3 – B8 Bolting<br>B4 – B8M Xylan Coated                                                                                 |
| <b>Other Options</b>              | Skid Mounting<br>Duplexing                                                                                                                          |
| <b>Accessories</b>                | Direct Reading Gauge<br>DP Gauge<br>Safety Relief Valves<br>Vent Valves<br>Drain Valves<br>Air Eliminator                                           |

## MODEL DIMENSIONAL DETAILS

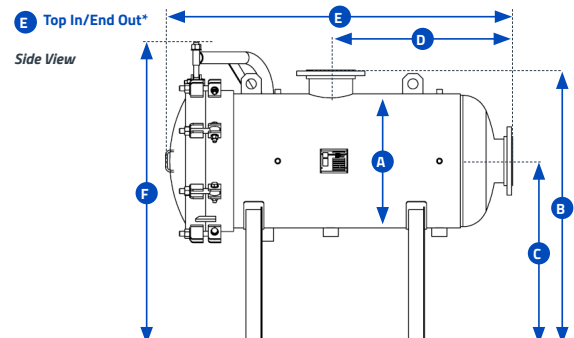
| MODEL            | SHIPPING WEIGHT (LBS) | A                  | B   | C   | D   | E   |
|------------------|-----------------------|--------------------|-----|-----|-----|-----|
| FRPH12-011-4-4F  | 230                   | 12 $\frac{1}{8}$ " | 8"  | 36" | 36" | 58" |
| FRPH14-017-4-4F  | 265                   | 14 $\frac{1}{8}$ " | 12" | 36" | 36" | 58" |
| FRPH16-022-4-6F  | 280                   | 16 $\frac{1}{8}$ " | 14" | 36" | 36" | 58" |
| FRPH18-029-4-6F  | 300                   | 18 $\frac{1}{8}$ " | 15" | 36" | 36" | 60" |
| FRPH20-035-4-6F  | 320                   | 20 $\frac{1}{8}$ " | 16" | 36" | 36" | 62" |
| FRPH24-050-4-8F  | 340                   | 24 $\frac{1}{8}$ " | 17" | 36" | 36" | 66" |
| FRPH30-082-4-10F | 560                   | 30 $\frac{1}{8}$ " | 21" | 36" | 36" | 69" |
| FRPH36-120-4-12F | 700                   | 36 $\frac{1}{8}$ " | 24" | 36" | 36" | 72" |
| FRPH42-165-4-14F | 1260                  | 42 $\frac{1}{8}$ " | 29" | 36" | 36" | 75" |
| FRPH48-220-4-16F | 1750                  | 48 $\frac{1}{8}$ " | 29" | 36" | 36" | 84" |
| FRPH54-290-4-18F | 3220                  | 54 $\frac{1}{8}$ " | 37" | 43" | 43" | 91" |
| FRPH60-360-4-20F | 5040                  | 60 $\frac{1}{8}$ " | 37" | 43" | 43" | 98" |
| FRPH30-082-4-10F | 560                   | 30 $\frac{1}{8}$ " | 21" | 36" | 36" | 69" |
| FRPH36-120-4-12F | 700                   | 36 $\frac{1}{8}$ " | 24" | 36" | 36" | 72" |
| FRPH42-165-4-14F | 1260                  | 42 $\frac{1}{8}$ " | 29" | 36" | 36" | 75" |
| FRPH48-220-4-16F | 1750                  | 48 $\frac{1}{8}$ " | 29" | 36" | 36" | 84" |
| FRPH54-290-4-18F | 3220                  | 54 $\frac{1}{8}$ " | 37" | 43" | 43" | 91" |
| FRPH60-360-4-20F | 5040                  | 60 $\frac{1}{8}$ " | 37" | 43" | 43" | 98" |

## FRP COMPARED TO ALTERNATE MATERIALS

- vs SS316** ■ FRP has a higher resistance to sea water
- vs Lined Vessels** ■ No risk of damaging lining with an FRP Vessel
- vs Duplex Steel** ■ FRP is a much more cost effective option

## CHART LEGEND

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



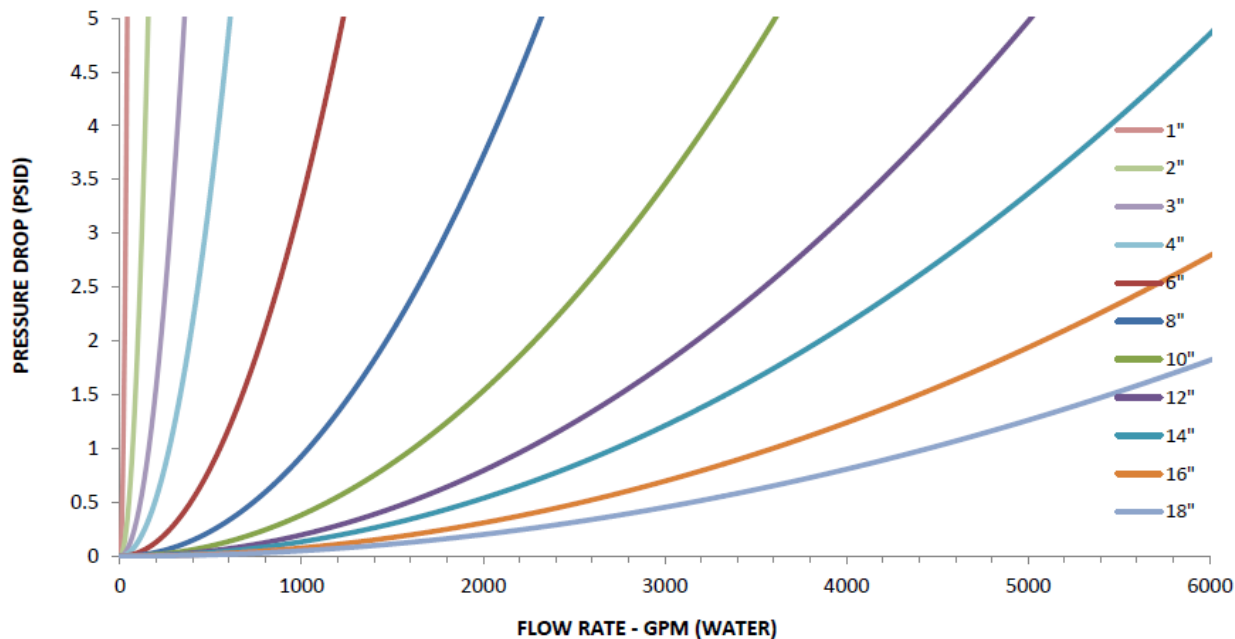
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## FLOW CHART



## PRODUCT NOMENCLATURE

| FRPH             | 18               | 30           | 4                                    | 6F              | -                   |
|------------------|------------------|--------------|--------------------------------------|-----------------|---------------------|
| MODEL            | HOUSING DIAMETER | # OF FILTERS | LENGTH                               | CONNECTION TYPE | OPTIONS             |
| FRPH - ASME CODE | See Table        | See Table    | 3 - 30<br>4 - 40<br>5 - 50<br>6 - 60 | See Table       | See Housing Options |