

## High Pressure Fogging System

J&D's 1000 PSI High Pressure Fog System is a great way to reduce temperatures in most livestock, horticultural or industrial structures. Clean water is pumped through the lines and sprayed out of the nozzles in billions of tiny (micron) particles making it easy for the hot air to evaporate the water for maximum cooling. J&D's High Pressure Fog System is designed by the finest design staff in the industry and can be put in your buildings with little to no structural modifications.

J&D's High Pressure Fog System reduces mortality caused by heat stress for all livestock. For the layer industry it will assist in increasing egg mass and quantity. In live production applications it will assist in increasing weight gain, and for livestock it shortens the finishing time. Our fog system will allow maximization of warm weather stocking levels and it will provide the prescribed humidity levels to control dust.

### Features

- Reduces temperatures quickly and uniformly with minimal energy use
- Minimizes heat stress which improves feed conversion for increased production
- Easy to retrofit your current ventilation system
- Made from corrosion resistant materials for long life
- Single phase and 3 phase systems available
- Filters out particles down to 1 micron with our 3 stage filter kits
- Anti-drip brass nozzles with end of line auto drain valve help keep your floor dry
- Reduces heat stress mortalities

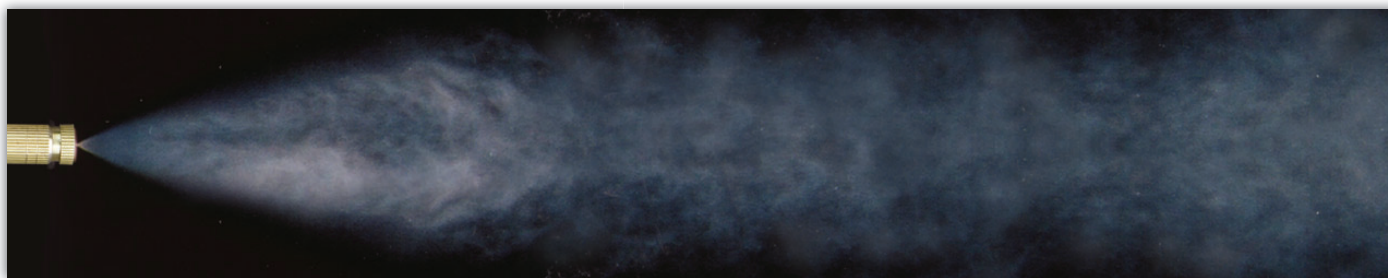


HPF Stainless Steel Lines with 12", 18", 24", or 48" Nozzle Spacing in cross tunnel ventilated barn



HPF Stainless Steel Panel Fan Ring Kit with 12 Nozzles

Standard systems offer a choice of 1, 2, 3, 5, or 10 HP motors

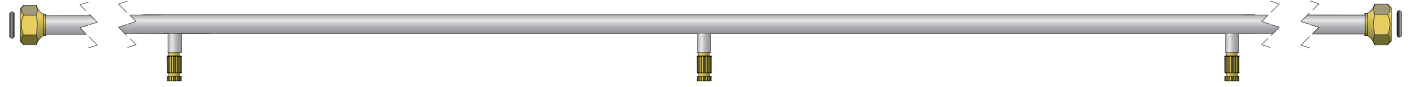


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## Choose a Delivery System

### HPF Stainless Steel Lines



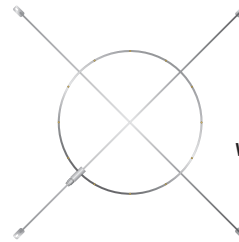
Part#	Description
<b>Lines with 0.02 GPM Nozzles and Couplers</b>	
VHPR200212	Pipe, 1/2" Stainless Steel 20', (20) 0.02 GPM Nozzles, 12" Spacing
VHPR200218	Pipe, 1/2" Stainless Steel 20', (13) 0.02 GPM Nozzles, 18" Spacing
VHPR200224	Pipe, 1/2" Stainless Steel 20', (10) 0.02 GPM Nozzles, 24" Spacing
VHPR200236	Pipe, 1/2" Stainless Steel 20', (7) 0.02 GPM Nozzles, 36" Spacing
VHPR200248	Pipe, 1/2" Stainless Steel 20', (5) 0.02 GPM Nozzles, 48" Spacing
<b>Lines with 0.03 GPM Nozzles and Couplers</b>	
VHPR200312	Pipe, 1/2" Stainless Steel 20', (20) 0.03 GPM Nozzles, 12" Spacing
VHPR200318	Pipe, 1/2" Stainless Steel 20', (13) 0.03 GPM Nozzles, 18" Spacing
VHPR200324	Pipe, 1/2" Stainless Steel 20', (10) 0.03 GPM Nozzles, 24" Spacing
VHPR200336	Pipe, 1/2" Stainless Steel 20', (7) 0.03 GPM Nozzles, 36" Spacing
VHPR200348	Pipe, 1/2" Stainless Steel 20', (5) 0.03 GPM Nozzles, 48" Spacing
<b>Solid Line with Couplers</b>	
VHPR2000	Pipe, 1/2" Stainless Steel 20' (No Nozzles)

### Features

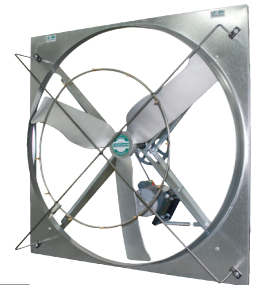
- Standard lines are 20' long for easy and quick installation
- Made of corrosion resistant 1/2" 304 stainless steel pipe
- Each line end is fitted with a 1/2" brass female flare swivel nut with o-ring  
*(Additional fittings are required to assemble system)*
- Lines come with 0.02 GPM or 0.03 GPM anti-drip nozzles  
*(0.05 GPM nozzles available by special order)*
- Choose 12", 18", 24", 36", or 48" nozzle spacing

### HPF Panel Fan Ring Kit

Increase the cooling power of your 50", 55" and 60" panel fans. Easy to install x-frame and quick connect slip lock fitting for high pressure nylon tubing make this a great way to retrofit your barn.



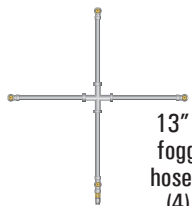
**SS3012**  
30" Stainless steel panel fan ring kit with hose connector and (12) 0.02 GPM Nozzles



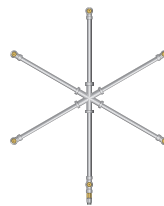
Part#	Description
SS3012	Fog Ring Kit, 30" Stainless Steel with Coupler, (12) 0.02 GPM Anti Drip Brass Nozzles, X-Frame w/Mounting Ties

### HPF Crosses and Ring Kits for Basket Fans

Stainless steel crosses are easily attached to your basket fans and quick connect slip lock fitting for high pressure nylon tubing making this a great way to retrofit your barn.



**SS36SH**  
13" Stainless steel fogging cross with hose connector and (4) 0.008 nozzles



**SS36SH6**  
13" Stainless steel fogging cross with hose connector and (6) 0.008 nozzles



**SS3011**  
30" Stainless steel fog ring with hose connector and (12) 0.02 nozzles

Part#	Description
SS36SH	4-way Cross, 13" Stainless Steel with Coupler, (4) 0.008 GPM Anti Drip Brass Nozzles - for 20" or Larger Basket Fan
SS36SH6	6-way Cross, 13" Stainless Steel with Coupler, (6) 0.008 GPM Anti Drip Brass Nozzles - for 36" or Larger Basket Fan
SS3011	Fog Ring Kit, 30" Stainless Steel with Coupler, (12) 0.02 GPM Anti Drip Brass Nozzles - for 36" or Larger Basket Fan

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## Selecting a Pump and Filter Kit

Making sure the system you choose fits your needs is easy with these 3 simple steps.

- 1.) Total the quantity of nozzles from all of the components of your chosen delivery system.
- 2.) Make note of the size of anti-drip nozzle your system will be using - 0.02 GPM, 0.03 GPM or 0.05 GPM.
- 3.) Using the HP Fog Kits table that matches your electrical needs and the collected nozzle data, review the highlighted maximum # of nozzles section of the table. Find the kit/s that fit your needs and desired filter size.

### Single Phase HP Fog Kits

Part#	GPM	HP	Volts*	Hz	Amps	Maximum # of Nozzles		
						0.02	0.03	0.05
<b>2.5" Filter Kits</b>								
VHP1125	1.3	1	115/230	60	13.2/6.6	58	39	23
VHP2225	3.0	2	115/230	60	20/10	135	90	54
VHP3125	4.1	3	115/230	60	28/14	185	123	74
VHP5125	5.7	5	230	60	20.2	257	171	103
<b>4.5" Filter Kits</b>								
VHP3145	4.1	3	115/230	60	28/14	185	123	74
VHP5145	5.7	5	230	60	20.2	257	171	103

### 3 Phase HP Fog Kits

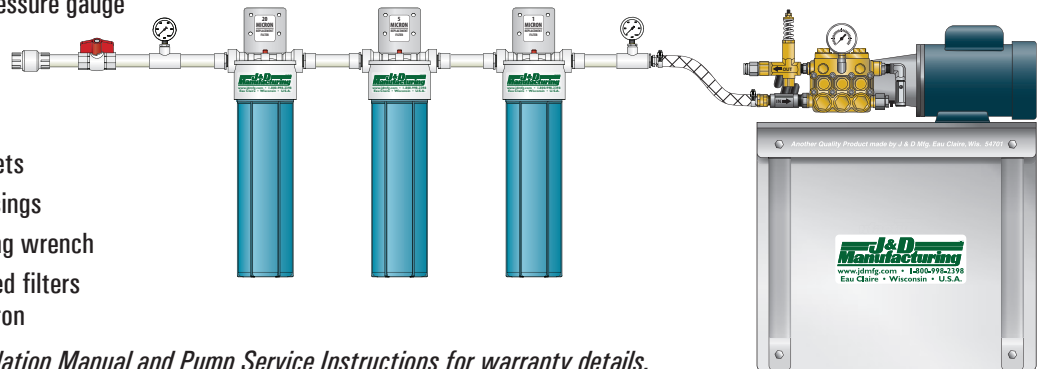
Part#	GPM	HP	Volts*	Hz	Amps	Maximum # of Nozzles		
						0.02	0.03	0.05
<b>2.5" Filter Kits</b>								
VHP1325	1.3	1	230/460	60	3.8/1.9	58	39	23
VHP2325	3.0	2	230/460	60	5.8/2.9	135	90	54
VHP3325	4.1	3	230/460	60	8.2/4.1	185	123	74
VHP5325	5.7	5	230/460	60	13/6.5	257	171	103
VHP10325	10.2	10	230/460	60	29.4/14.7	459	306	184
<b>4.5" Filter Kits</b>								
VHP3345	4.1	3	230/460	60	8.2/4.1	185	123	74
VHP5345	5.7	5	230/460	60	13/6.5	257	171	103
VHP10345	10.2	10	230/460	60	29.4/14.7	459	306	184

\* High Pressure Fog pump motors are warrantied for 90 days.

Single and 3 phase kits are 208 Volts compatible however running units at this reduced voltage will decrease the maximum number of nozzles the unit will be able to support. If you require a 208 Volt system please contact a J&D representative to assist you in finding a system to meet your needs.

## High Pressure Fog Kits Contain

- Pump\* with regulator and high pressure gauge
- Motor - single or 3 phase
- Shelf for motor and pump
- Complete filter kit which includes
  - Fixtures
  - Valves
  - Adapters
  - Filter brackets
  - 3 filter housings
  - Filter housing wrench
  - 1 each of the following pleated filters  
20 Micron - 5 Micron - 1 Micron



\* Refer to High Pressure Fog Installation Manual and Pump Service Instructions for warranty details.

## Water Quality Requirements

Thorough water testing and treatment of your intended water supply by qualified water treatment professionals is required to minimize mineral deposits and corrosion that may block or erode nozzles.

Shown are the basic parameters required of your water supply. Additional requirements by your water treatment professionals may be justified. Damage or clogging of nozzles or other elements of J&D's High Pressure Fogging system due to insufficiently treated water will not be covered by warranty.

Test	Required Parameters
Hardness	Less than 7gpg (120 parts per million or milligrams per liter)
PH	7.0 or higher
Dissolved Metals	Listed are the most common and problematic. Consult with your water specialist on what additional dissolved metals you may need to correct. <u>Iron</u> - Less than 0.3 parts per million <u>Manganese</u> - Less than 0.05 parts per million
TDS (Total Dissolved Solids)	Less than 500 milligrams per liter

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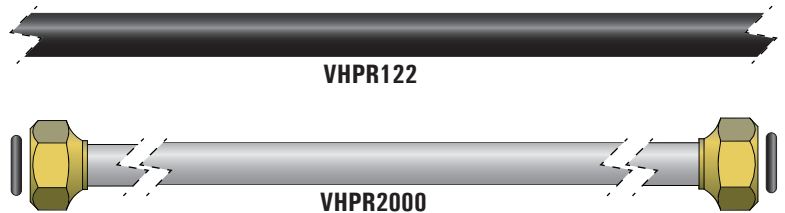


## Additional Components

### Features

- Stainless steel and brass fittings resist corrosion under the harshest conditions for long lasting no maintenance connections
- High pressure nylon flexible tubing and slip lock fittings simplifies installation
- Flush and suspended mounting options to fit your buildings needs

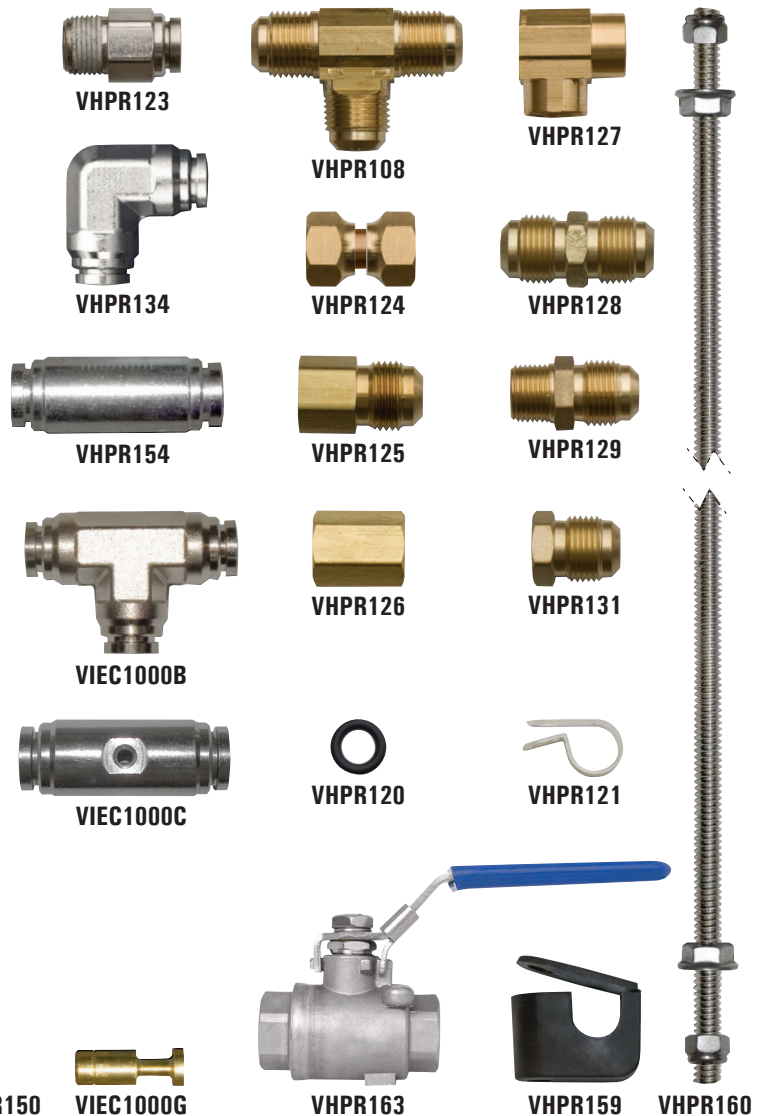
Part#	Description
<b>Nylon Tube</b>	
VHPR122	Tube, 3/8" High Pressure Nylon (per foot)
<b>Solid Line with Couplers</b>	
VHPR2000	Pipe, 1/2" Stainless Steel 20' (No Nozzles)*
<b>Kit</b>	
VHPR162	Auto Drain Kit, HPF System (recommend 1 per system)
<b>Fittings - Slip Lock</b>	
VHPR123	Adapter, Slip Lock 3/8" to 3/8" MIPT
VHPR134	Elbow, Slip Lock, 3/8"
VHPR154	Coupling, Slip Lock, 3/8" Stainless Steel
VIEC1000B	Tee, Slip Lock, 3/8" Stainless Steel
VIEC1000C	Tee, Lock, 3/8" S.S., w/Nozzle Opening
VIEC1000G	End Plug, Slip Lock, 3/8" Brass
<b>Fittings - Threaded Brass</b>	
VHPR108	Tee, 1/2" Flare
VHPR124	Adaptor, 1/2" Female Flare Swivel Nut
VHPR125	Coupling, 1/2" to 3/8" FIP
VHPR126	Coupling, 3/8" Female
VHPR127	Elbow, 3/8" Female
VHPR128	Union, 1/2" Flare
VHPR129	Union, 1/2" - 3/8" Flare To MPT
VHPR131	Plug, 1/2" Flare
VHPR120	O-Ring, for HPF Brass Fittings
<b>Valve</b>	
VHPR163	Ball Valve, Full Port, 3/8" S.S., 2,000 Working PSI
<b>Pipe/Tube Mounting</b>	
VHPR121	Strap, Nylon Loop to Secure Pipe or Nylon Tube
VHPR159	Mounting Clip, to Secure 1/2" OD Pipe (10 Pk)
VHPR160	Mounting Rod, 18", S.S., Compatible w/VHPR159
<b>Nozzles</b>	
VHPR110	Nozzle, Anti Drip, 0.02 GPM, Brass w/SS Tip
VHPR111	Nozzle, Anti Drip, 0.03 GPM, Brass w/SS Tip
VHPR106	Nozzle, Anti Drip, 0.05 GPM, Brass w/SS Tip
VIEC1000I	Valve, Auto Drain (for end of line)
VHPR107	Nozzle, Plug, Brass (plug unwanted nozzle port)
<b>Other</b>	
VHPR150	O-Ring, Replacement for Nozzles



\* (Requires additional fittings to connect to VHPR122)

### VHPR162 - Auto Drain Kit

(1) VHPR120	(1) VIEC1000C	(1) VHPR122 is required but not included
(1) VHPR123	(1) VIEC1000G	Length needed is determined by installation
(1) VHPR125	(1) VIEC1000I	and distance to desired draining location.

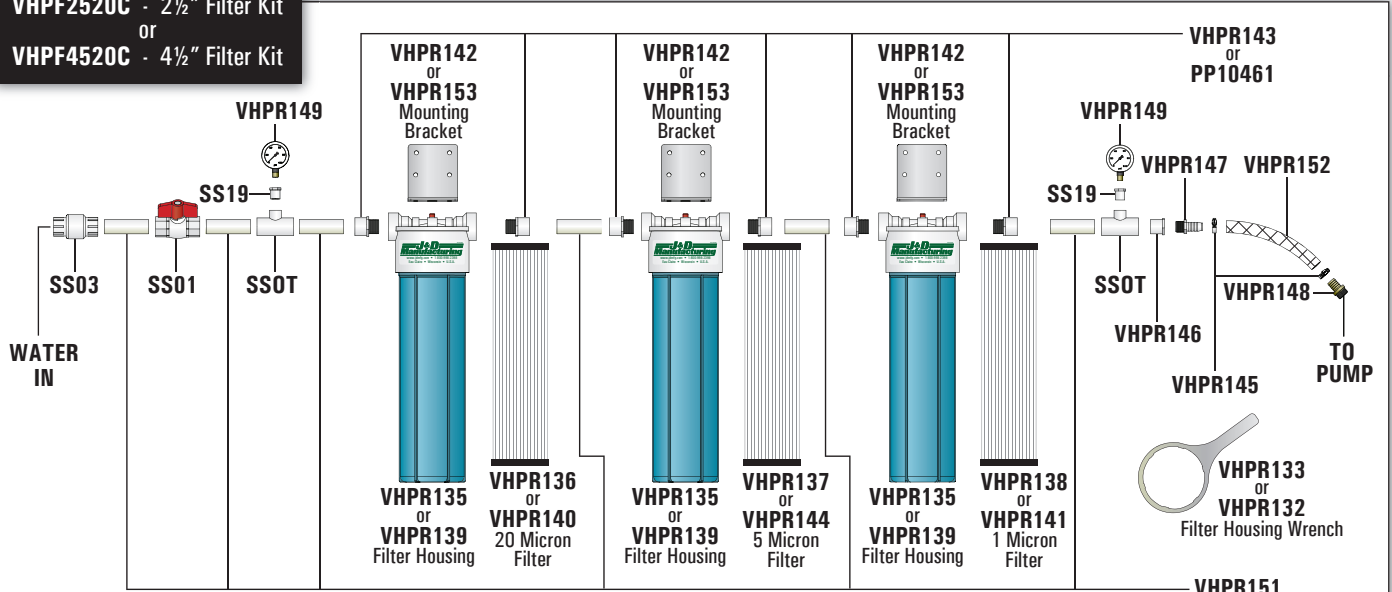


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# Basic Assembly of HPF System

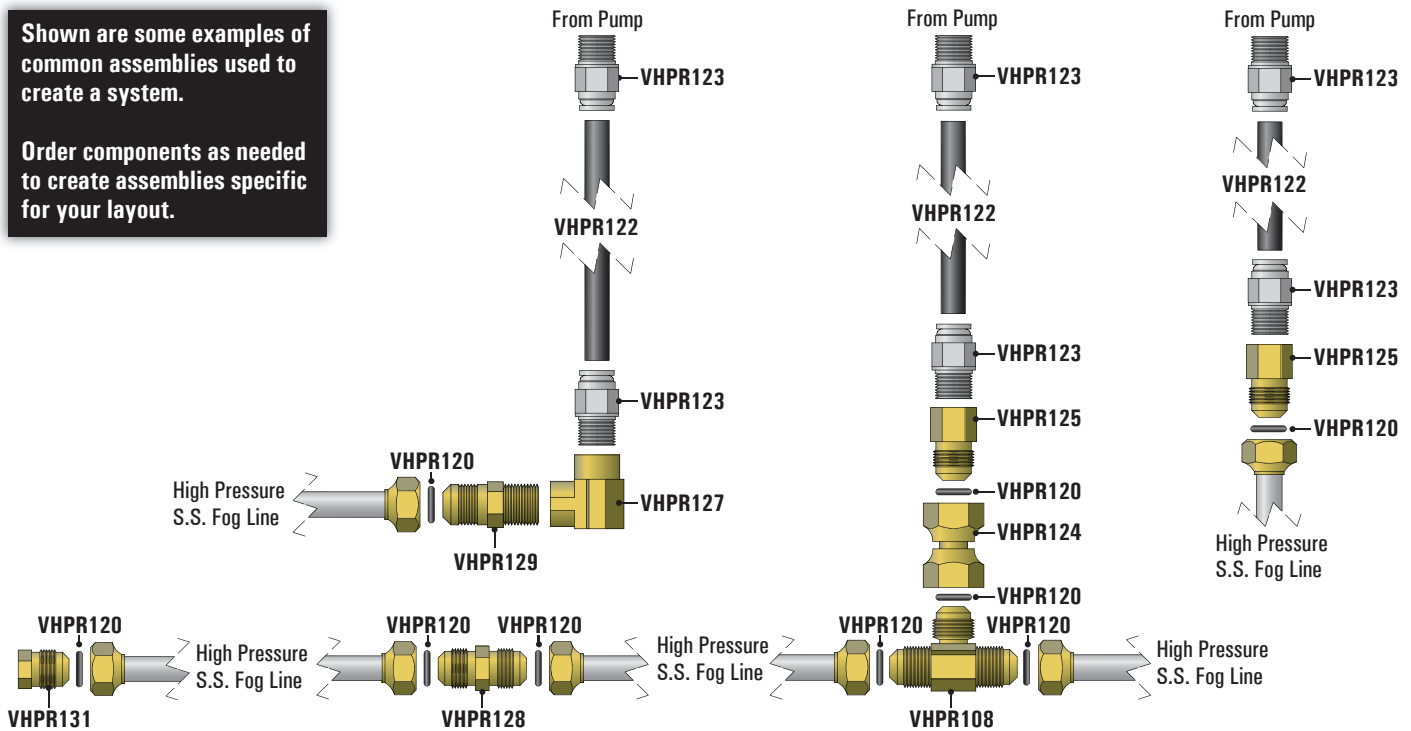
Complete 3 Stage Filter Kits  
 VHPF2520C - 2½" Filter Kit  
 or  
 VHPF4520C - 4½" Filter Kit



Each filter kit also includes: (1) VHPR123 adapter to connect the pump to the VHPR122 nylon tube  
 (1) PP10815 single use pouch of anti-seize lubricant to be used when assembling pump to motor  
*See installation manual for additional details.*

Shown are some examples of common assemblies used to create a system.

Order components as needed to create assemblies specific for your layout.



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## Replacement Parts

### 3 Stage Filter Kits

Part#	Description
<b>2 1/2" Filter Kits</b>	
VHPF2520C	Complete* 3 Stage, 2 1/2" Filter Kit, w/Fittings, Gauges & Filters
<b>4 1/2" Filter Kits</b>	
VHPF4520C	Complete* 3 Stage, 4 1/2" Filter Kit, w/Fittings, Gauges & Filters
* Detailed breakdown of what is included in Complete 3 Stage Filter Kit is shown under Basic Assembly of HPF System on previous page.	

### 2 1/2" Filters & Parts

Part#	Description
<b>2 1/2" Replacement Filters</b>	
VHPR136	Filter, 2 1/2" x 20", 20 Micron, Pleated
VHPR137	Filter, 2 1/2" x 20", 5 Micron, Pleated
VHPR138	Filter, 2 1/2" x 20", 1 Micron, Pleated
<b>Additional Replacement Parts &amp; Accessories</b>	
SS05R	O-Ring Replacement for 2 1/2" Filter Housing
VHPR133	Wrench, for 2 1/2" x 20" Filter Housing
VHPR135	Housing, for Filter (2 1/2" x 20" Filter Size)
VHPR142	Bracket, for 2 1/2" x 20" Filter Housing

VHPR136  
VHPR137  
VHPR138



### 4 1/2" Filters & Parts

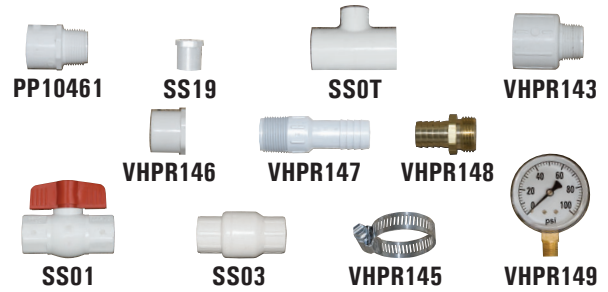
Part#	Description
<b>4 1/2" Replacement Filters</b>	
VHPR140	Filter, 4 1/2" x 20", 20 Micron, Pleated
VHPR144	Filter, 4 1/2" x 20", 5 Micron, Pleated
VHPR141	Filter, 4 1/2" x 20", 1 Micron, Pleated
<b>Additional Replacement Parts &amp; Accessories</b>	
SS06R	O-Ring Replacement for 4 1/2" Filter Housing
VHPR132	Wrench, for 4 1/2" x 20" Filter Housing
VHPR139	Housing, for Filter (4 1/2" x 20" Filter Size)
VHPR153	Bracket, for 4 1/2" x 20" Filter Housing

VHPR140  
VHPR141  
VHPR144



### Fittings & Accessories

Part#	Description
<b>Fittings</b>	
PP10461	Adapter, 3/4 x 1" MXS
SS19	Reducer, 1/2" x 1/4" SxM
SS0T	Tee, 1" x 1" x 1/2" SxSxS
VHPR143	Adapter, 1" Mt x Sweat PVC
VHPR146	Bushing, Reducer, 1" Spigot x 3/4" FPT
VHPR147	Adapter, Male, 3/4" MPT x 3/4" Insert
VHPR148	Adapter, 3/4" Barb x 3/4" GHT
<b>Accessories</b>	
SS01	Valve, 1" Ball
SS03	Valve, 1" Check (One Way)
VHPR145	Clamp, Hose, 3/4" - 1 3/4", Stainless Steel
VHPR149	Gauge, Low Pressure, Water Supply
VHPR151	Tubing, 1" Schedule 40 PVC, 2' Length
VHPR152	Hose, 3/4" Braided, 5' Length
VHPRSHELF	Galvanized Pump Shelf w/Supports & Hardware

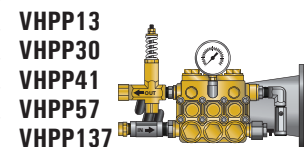


### C-Face TEFC Motors

Part#	HP	Volts	Hz	Amp	Shaft
<b>Single Phase</b>					
VHPM1	1	115/230	60	13.2/6.6	5/8"
VHPM2	2	115/230	60	20/10	5/8"
VHPM3	3	115/230	60	28/14	1 1/8"
VHPM5	5	230	60	20.2	1 1/8"
<b>3 Phase</b>					
VHPM13A	1	230/460	60	3.8/1.9	5/8"
VHPM33A	3	230/460	60	7.8/3.9	1 1/8"
VHPM53	5	230/460	60	8.2/4.1	1 1/8"
VHPM103-CFACE	10	230/460	60	13/6.5	1 3/8"

### Pumps with Unloader

Part#	GPM	Hollow Shaft	HP
VHPP13	1.3	5/8"	1
VHPP30	3.0	5/8"	1
VHPP41	4.1	1 1/8"	3
VHPP57	5.7	1 1/8"	5
VHPP137	10.2	24mm	10



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