

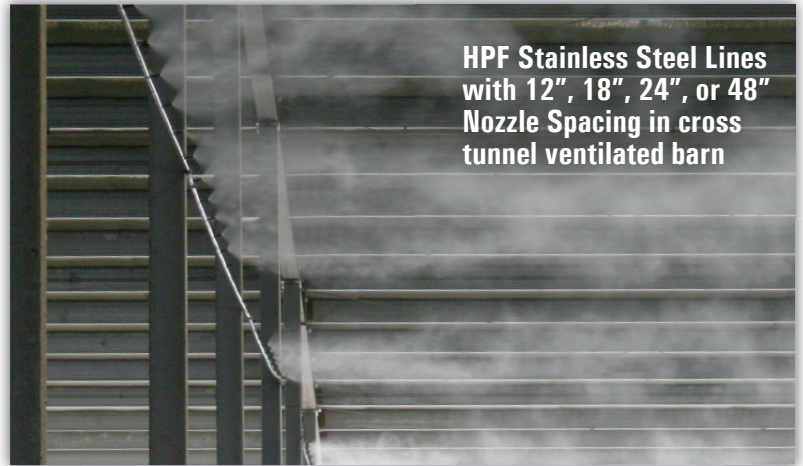
High Pressure Fogging System

J&D's 1000 PSI High Pressure Fog System is a great way to reduce temperatures in most facilities. 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 can be put in your buildings with little to no structural modifications.

J&D's High Pressure Fog System allows for maximization of warm weather stocking levels and provides the required humidity levels to control dust and odor.

Features

- Reduces temperatures quickly and uniformly with minimal energy use
- Reduces heat stress for
 - Decreased mortalities
 - 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



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

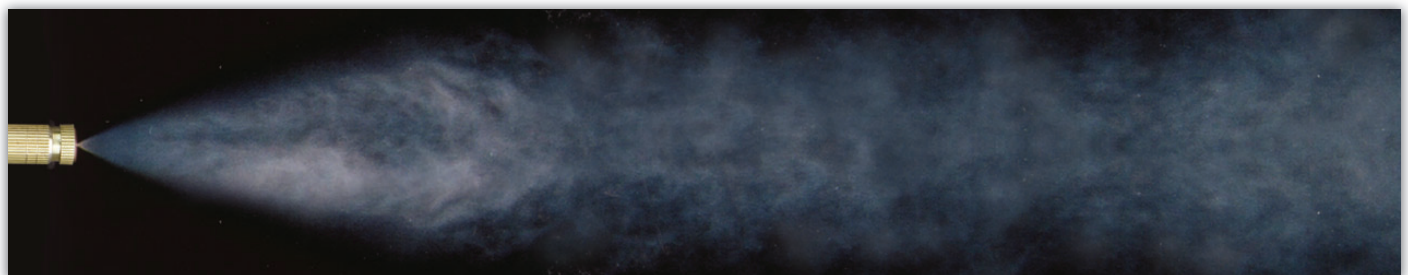


HPF Stainless Steel Panel Fan Ring Kit with 12 Nozzles

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



For the best performing system contact your J&D representative for design assistance.

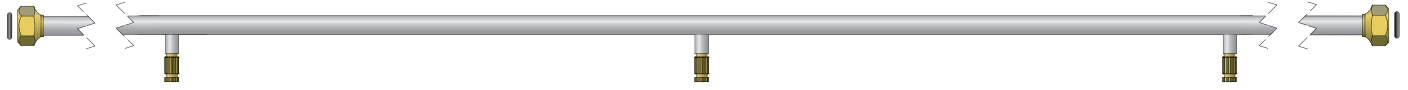


HIGH PRESSURE FOG & COOLING

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Choose a Delivery System

HPF Stainless Steel Lines



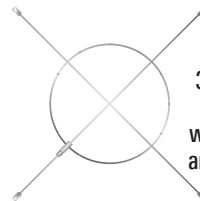
Part#	Description
Lines with 0.015 GPM Nozzles and Couplers	
VHPR200212	Pipe, 1/2" Stainless Steel 20', (20) 0.015 GPM Nozzles, 12" Spacing
VHPR200218	Pipe, 1/2" Stainless Steel 20', (13) 0.015 GPM Nozzles, 18" Spacing
VHPR200224	Pipe, 1/2" Stainless Steel 20', (10) 0.015 GPM Nozzles, 24" Spacing
VHPR200236	Pipe, 1/2" Stainless Steel 20', (7) 0.015 GPM Nozzles, 36" Spacing
VHPR200248	Pipe, 1/2" Stainless Steel 20', (5) 0.015 GPM Nozzles, 48" Spacing
Lines with 0.039 GPM Nozzles and Couplers	
VHPR200312	Pipe, 1/2" Stainless Steel 20', (20) 0.039 GPM Nozzles, 12" Spacing
VHPR200318	Pipe, 1/2" Stainless Steel 20', (13) 0.039 GPM Nozzles, 18" Spacing
VHPR200324	Pipe, 1/2" Stainless Steel 20', (10) 0.039 GPM Nozzles, 24" Spacing
VHPR200336	Pipe, 1/2" Stainless Steel 20', (7) 0.039 GPM Nozzles, 36" Spacing
VHPR200348	Pipe, 1/2" Stainless Steel 20', (5) 0.039 GPM Nozzles, 48" Spacing
Solid Line with Couplers	
VHPR2000	Pipe, 1/2" Stainless Steel 20' (No Nozzles)

Features

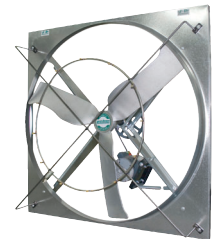
- Standard lines are 20' long for easy and quick installation
- Made of corrosion resistant 1/2" 304 stainless steel pipe
- Each line end is fitted with a 1/2" brass female flare swivel nut with o-ring
(Additional fittings are required to assemble system)
- Lines come with 0.015 GPM or 0.039 GPM anti-drip nozzles *(0.045 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.



SS3012
30" Stainless steel panel fan ring kit with hose connector and (12) 0.015 GPM Nozzles



Part#	Description
SS3012	Fog Ring Kit, 30" Stainless Steel with Coupler, (12) 0.015 GPM Anti Drip Brass Nozzles, X-Frame w/Mounting Ties
Accessories	
SS38	X-Frame ONLY, can be used to mount HPF Crosses and Rings to 50", 55" and 60" panel fans

AirBlaster HPF Kit - 3 Louver

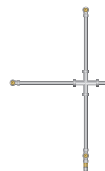
Part#	Description
SSAB34015	HPF Kit, Airblaster, 3 Louver, 12 Nozzle @ .015 gpm, w/Hardware

- Increase cooling
- Easy to install on new or previously installed 3 Louver AirBlasters

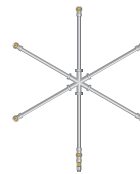


HPF Crosses and Ring Kits for Basket Fans

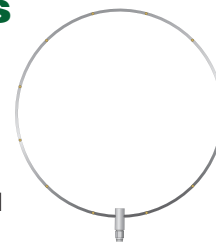
Stainless steel crosses are easily attached to your basket fans and quick connect slip lock fitting for high pressure nylon tubing making this a great way to retrofit.



SS36SH
13" Stainless steel fogging cross with hose connector and (4) 0.016 nozzles



SS36SH6
13" Stainless steel fogging cross with hose connector and (6) 0.016 nozzles



SS3011
30" Stainless steel fog ring with hose connector and (12) 0.015 nozzles

Part#	Description
SS36SH	4-way Cross, 13" Stainless Steel with Coupler, (4) 0.016 GPM Anti Drip Brass Nozzles - for 20" or Larger Basket Fan
SS36SH6	6-way Cross, 13" Stainless Steel with Coupler, (6) 0.016 GPM Anti Drip Brass Nozzles - for 36" or Larger Basket Fan
SS3011	Fog Ring Kit, 30" Stainless Steel with Coupler, (12) 0.015 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 - 0.015 GPM, 0.039 GPM or 0.045 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 (*do not oversize pumps by more than 10%*) and desired filter size.

Single Phase HP Fog Kits

Part#	GPM	HP	Volts*	Hz	Amps	Maximum # of Nozzles		
						0.015	0.039	0.045
2.5" Filter Kits								
VHP1125	1.3	1	115/230	60	13.2/6.6	87	33	29
VHP2225	3.0	2	115/230	60	20/10	200	77	67
VHP3125	4.1	3	115/230	60	28/14	273	105	91
VHP5125	5.7	5	230	60	20.2	380	146	127
4.5" Filter Kits								
VHP3145	4.1	3	115/230	60	28/14	273	105	91
VHP5145	5.7	5	230	60	20.2	380	146	127

3 Phase HP Fog Kits

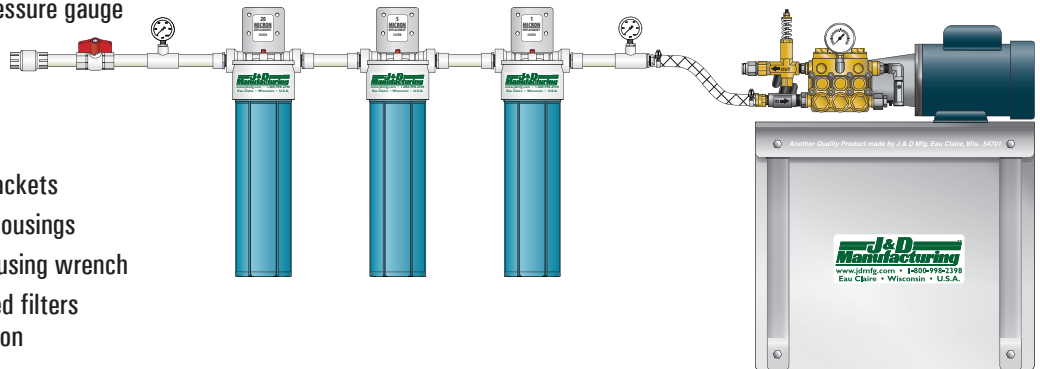
Part#	GPM	HP	Volts*	Hz	Amps	Maximum # of Nozzles		
						0.015	0.039	0.045
2.5" Filter Kits								
VHP1325	1.3	1	230/460	60	3.8/1.9	87	33	29
VHP2325	3.0	2	230/460	60	5.8/2.9	200	77	67
VHP3325	4.1	3	230/460	60	8.2/4.1	273	105	91
VHP5325	5.7	5	230/460	60	13/6.5	380	146	127
VHP10325	10.2	10	230/460	60	29.4/14.7	680	262	227
4.5" Filter Kits								
VHP3345	4.1	3	230/460	60	8.2/4.1	273	105	91
VHP5345	5.7	5	230/460	60	13/6.5	380	146	127
VHP10345	10.2	10	230/460	60	29.4/14.7	680	262	227

* High Pressure Fog pump motors are warranted 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 winterizing and 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.

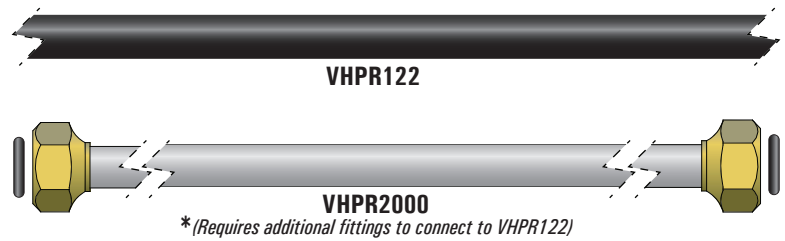
Test	Required Parameters
Hardness	Less than 7gpg (120 parts per million or milligrams per liter)
PH	7.0 or higher
Dissolved Metals	Listed are the most common and problematic. Consult with your water specialist on what additional dissolved metals you may need to correct. <u>Iron</u> - Less than 0.3 parts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

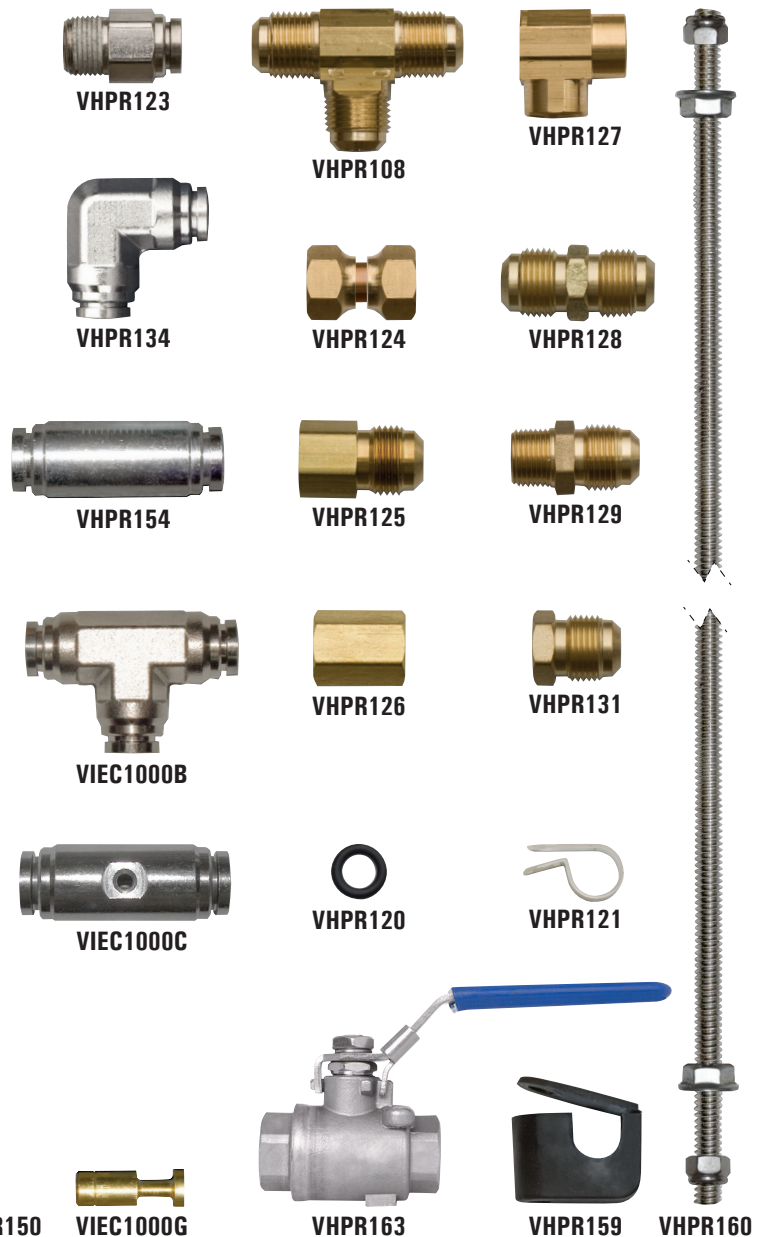
- Stainless steel and brass fittings resist corrosion under the harshest conditions for long-lasting maintenance free connections
- High pressure nylon flexible tubing and slip lock fittings simplifies installation
- Flush and suspended mounting options to fit your buildings needs



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.

Part#	Description
Nylon Tube	
VHPR122	Tube, 3/8" High Pressure Nylon (per foot)
Solid Line with Couplers	
VHPR2000	Pipe, 1/2" Stainless Steel 20' (No Nozzles)*
Kit	
VHPR162	Auto Drain Kit, HPF System (recommend 1 per system)
Fittings - Slip Lock	
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
Fittings - Threaded Brass	
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
Valve	
VHPR163	Ball Valve, Full Port, 3/8" S.S., 2,000 Working PSI
Pipe/Tube Mounting	
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
Nozzles	
PP10884	Nozzle, Anti Drip, 0.015 GPM, Brass w/SS Tip
PP10885	Nozzle, Anti Drip, 0.039 GPM, Brass w/SS Tip
PP10886	Nozzle, Anti Drip, 0.045 GPM, Brass w/SS Tip
VIEC1000I	Valve, Auto Drain (for end of line)
VHPR107	Nozzle, Plug, Brass (plug unwanted nozzle port)
Other	
VHPR150	O-Ring, Replacement for Nozzles



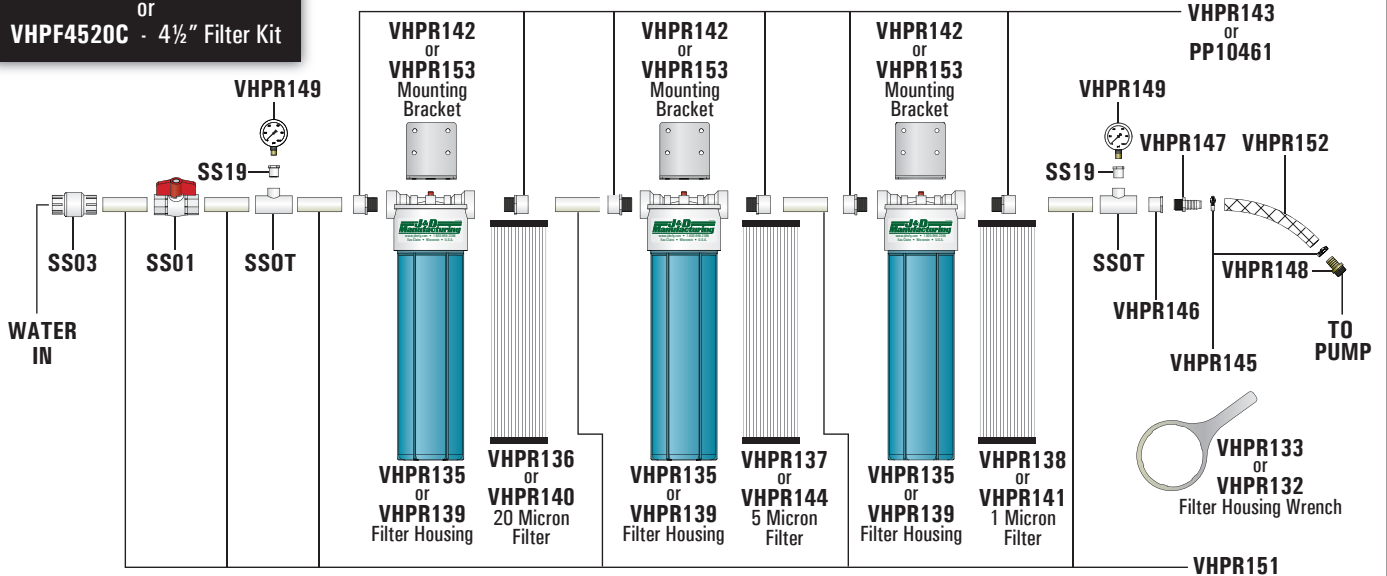
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Basic Assembly of HPF System

Complete 3 Stage Filter Kits

VHPF2520C - 2 1/2" Filter Kit
or
VHPF4520C - 4 1/2" Filter Kit

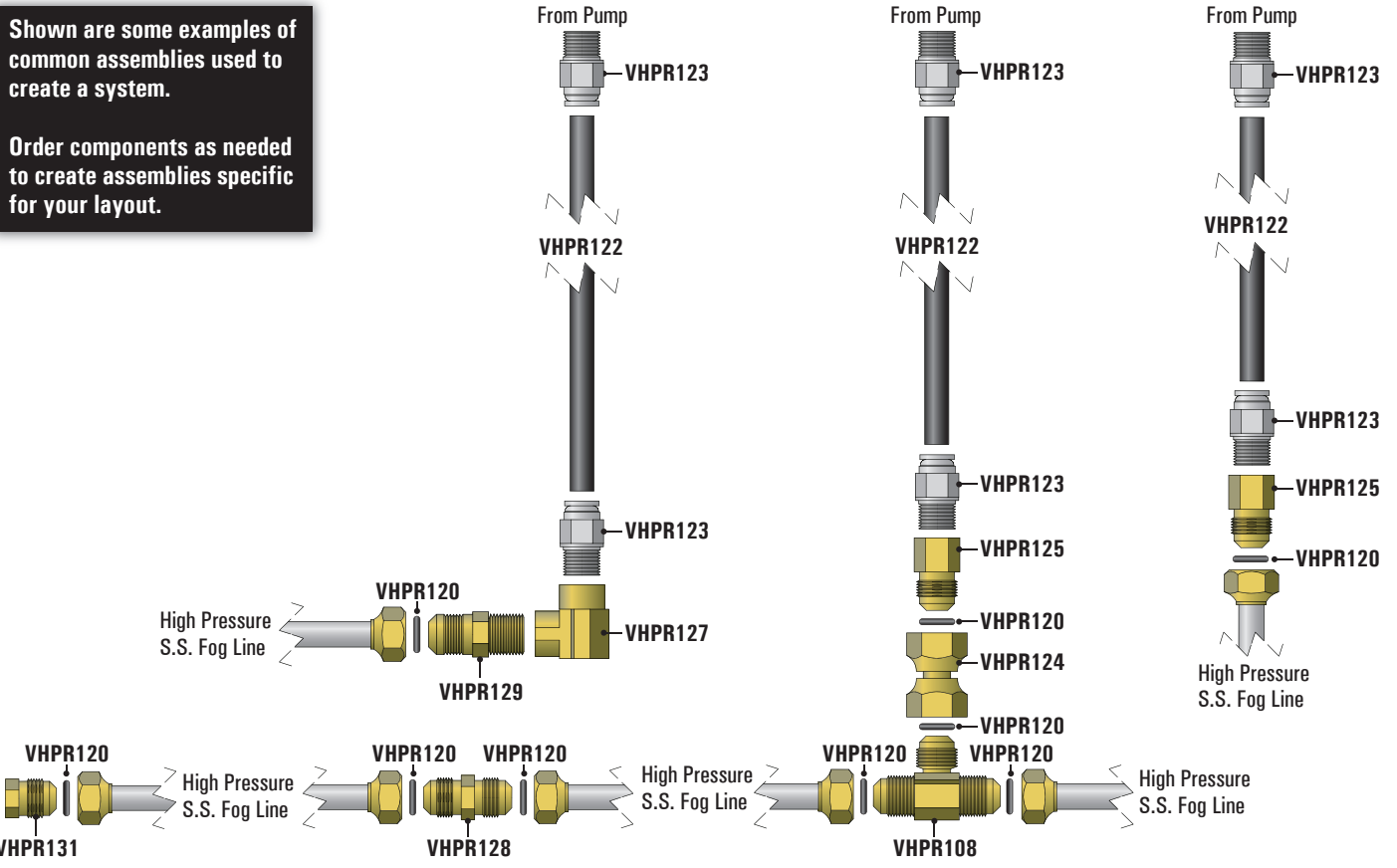


Each filter kit also includes: (1) VHPR123 adapter to connect the pump to the VHPR122 nylon tube
(1) PP10815 single use pouch of anti-seize lubricant to be used when assembling pump to motor
See installation manual for additional details.

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

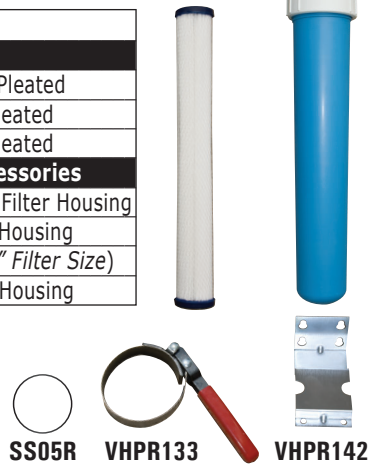
3 Stage Filter Kits

Part#	Description
2½" Filter Kits	
VHPF2520C	Complete* 3 Stage, 2½" Filter Kit, w/Fittings, Gauges & Filters
4½" Filter Kits	
VHPF4520C	Complete* 3 Stage, 4½" 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.	

2½" Filters & Parts

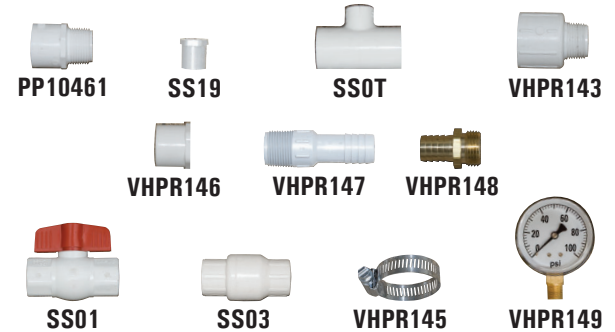
Part#	Description
2½" Replacement Filters	
VHPR136	Filter, 2½" x 20", 20 Micron, Pleated
VHPR137	Filter, 2½" x 20", 5 Micron, Pleated
VHPR138	Filter, 2½" x 20", 1 Micron, Pleated
Additional Replacement Parts & Accessories	
SS05R	O-Ring Replacement for 2½" Filter Housing
VHPR133	Wrench, for 2½" x 20" Filter Housing
VHPR135	Housing, for Filter (2½" x 20" Filter Size)
VHPR142	Bracket, for 2½" x 20" Filter Housing

VHPR136
VHPR137
VHPR138



Fittings & Accessories

Part#	Description
Fittings	
PP10461	Adapter, ¾ x 1" MXS
SS19	Reducer, ½" x ¼" SxM
SS0T	Tee, 1" x 1" x ½" SxSxS
VHPR143	Adapter, 1" Mt x Sweat PVC
VHPR146	Bushing, Reducer, 1" Spigot x ¾" FPT
VHPR147	Adapter, Male, ¾" MPT x ¾" Insert
VHPR148	Adapter, ¾" Barb x ¾" GHT
Accessories	
SS01	Valve, 1" Ball
SS03	Valve, 1" Check (One Way)
VHPR145	Clamp, Hose, ¾" - 1¾", Stainless Steel
VHPR149	Gauge, Low Pressure, Water Supply
VHPR151	Tubing, 1" Schedule 40 PVC, 2' Length
VHPR152	Hose, ¾" Braided, 5' Length
VHPRSHELF	Galvanized Pump Shelf w/Supports & Hardware



4½" Filters & Parts

Part#	Description
4½" Replacement Filters	
VHPR140	Filter, 4½" x 20", 20 Micron, Pleated
VHPR144	Filter, 4½" x 20", 5 Micron, Pleated
VHPR141	Filter, 4½" x 20", 1 Micron, Pleated
Additional Replacement Parts & Accessories	
SS06R	O-Ring Replacement for 4½" Filter Housing
VHPR132	Wrench, for 4½" x 20" Filter Housing
VHPR139	Housing, for Filter (4½" x 20" Filter Size)
VHPR153	Bracket, for 4½" x 20" Filter Housing

VHPR140
VHPR141
VHPR144

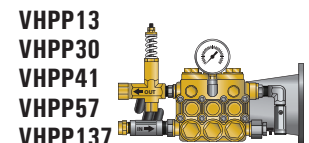


C-Face TEFC Motors

Part#	HP	Volts	Hz	Amp	Shaft
Single Phase					
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"
3 Phase					
VHPM13A	1	230/460	60	3.8/1.9	5/8"
VHPM33A	3	230/460	60	7.8/3.9	1 1/8"
VHPM53A	5	208-230/460	60	13.6-12.3/6.2	1 1/8"
VHPM103	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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