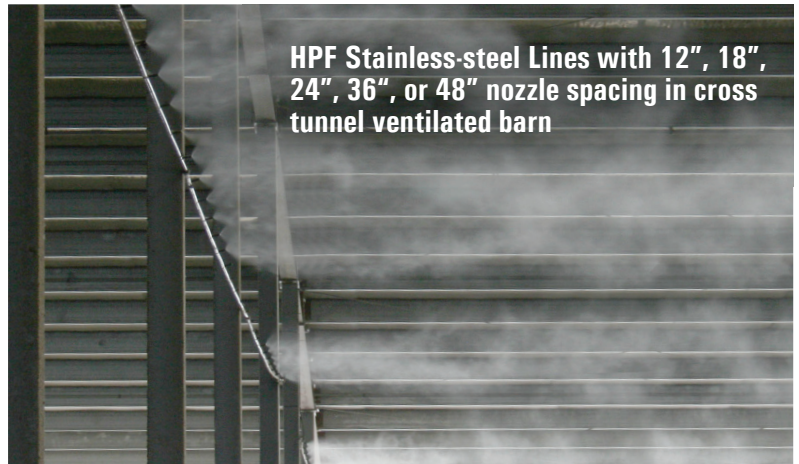


# High Pressure Fogging System

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.



HPF Stainless-steel Lines with 12", 18", 24", 36", or 48" nozzle spacing in cross tunnel ventilated barn

## 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 helps keep your floor dry

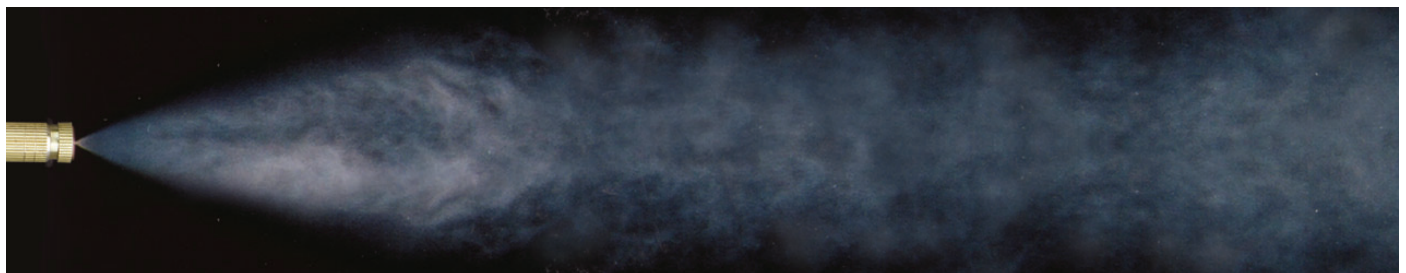


HPF Stainless-steel Panel Fan Ring Kit with 12 nozzles

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.**



**⚠WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Choose a Delivery System

## HPF Stainless-Steel Lines

Part#	Description
<b>Lines with 0.015 GPM Nozzles and Couplers</b>	
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
<b>Lines with 0.039 GPM Nozzles and Couplers</b>	
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
<b>Solid Line with Couplers</b>	
VHPR2000	Pipe, 1/2" Stainless-steel 20' (No Nozzles)

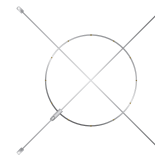


### Features

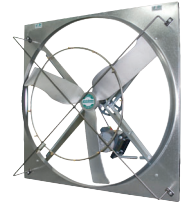
- Standard lines are 20' long for easy and quick installation
- Made of corrosion-resistant 1/2" 304 stainless-steel pipe
- Each line end is fitted with a 1/2" brass female flare swivel nut with o-ring  
*(Additional fittings are required to assemble system)*
- Lines come with 0.015 GPM or 0.039 GPM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

These kits are a great way to retrofit your current basket fans for increased cooling.



**SS36SH**  
13" Stainless-steel fogging cross with hose connector and (4) 0.015 nozzles



**SS36SH6**  
13" Stainless-steel fogging cross with hose connector and (6) 0.015 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) 0.015 GPM Anti Drip Brass Nozzles - for 20" or Larger Basket Fan
SS36SH6	6-way Cross, 13" Stainless-Steel with Coupler, (6) 0.015 GPM Anti Drip Brass Nozzles - for 20" or Larger Basket Fan
SS3011	Fog Ring Kit, 30" Stainless-Steel with Coupler, (12) 0.015 GPM Anti Drip Brass Nozzles - for 48" or Larger Basket Fan

## HPF Ring Kits for JD360 Destratifier Fan

Part#	Description
SS2218	JD360 Fog Ring Kit, 22" with (8) 0.006 GPM Nozzles
SS2228	JD360 Fog Ring Kit, 22" with (8) 0.015 GPM Nozzles
SS2238	JD360 Fog Ring Kit, 22" with (8) 0.039 GPM Nozzles

Customize your cooling with three nozzle sizes to choose from 0.006, 0.015, or 0.039 GPM



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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
<b>2.5" Filter Kits</b>								
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
<b>4.5" Filter Kits</b>								
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

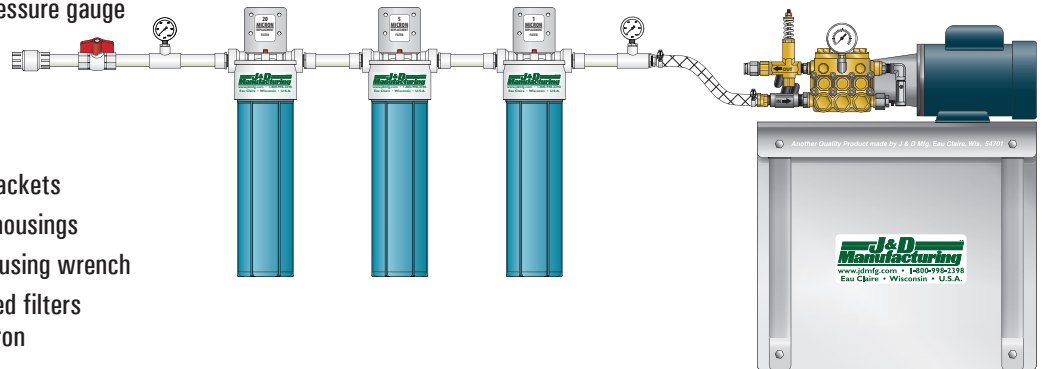
Part#	GPM	HP	Volts*	Hz	Amps	Maximum # of Nozzles		
						0.015	0.039	0.045
<b>2.5" Filter Kits</b>								
VHP1325	1.3	1	230/460	60	3.8/1.9	87	33	29
VHP2325	3.0	2	230/460	60	5.8/2.9	200	77	67
VHP3325	4.1	3	230/460	60	8.2/4.1	273	105	91
VHP5325	5.7	5	230/460	60	13/6.5	380	146	127
VHP10325	10.2	10	230/460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

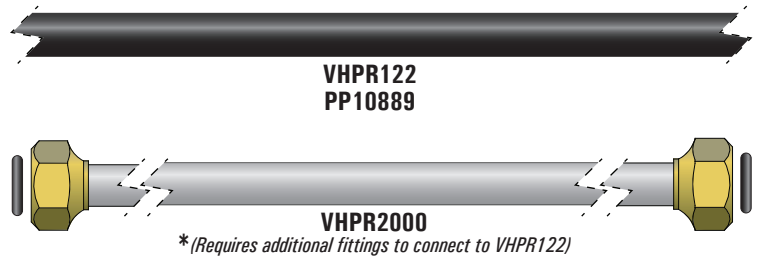
Test	Required Parameters
Hardness	Less than 7gpg (120 parts per million or milligrams per liter)
PH	7.0 or higher
Dissolved Metals	Listed are the most common and problematic. Consult with your water specialist on what additional dissolved metals you may need to correct. <u>Iron</u> - Less than 0.3 parts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

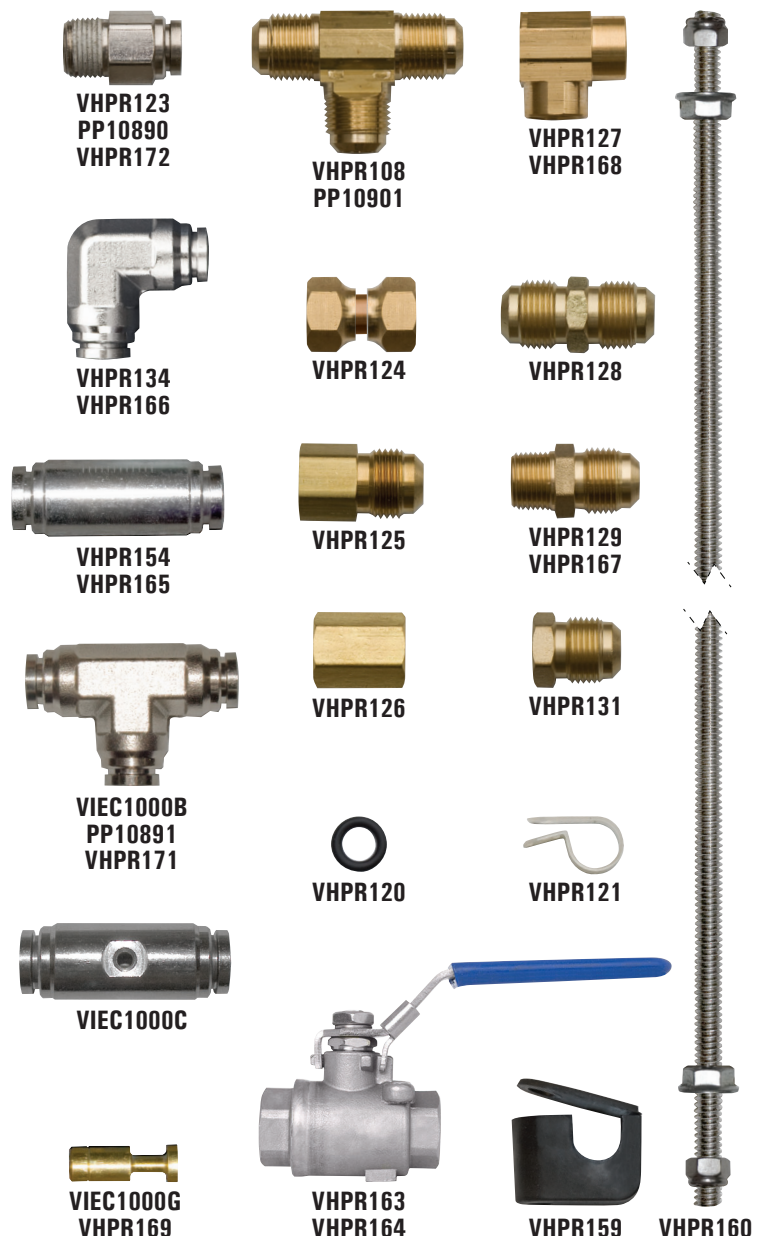
Part#	Description
<b>Nylon Tubing</b>	
VHPR122	Tubing, 3/8" OD High Pressure Nylon (per foot)
PP10889	Tubing, 1/2" OD High Pressure Nylon, 500' roll
<b>Solid Line with Couplers</b>	
VHPR2000	Pipe, 1/2" Stainless-steel 20' (No Nozzles)*
<b>Kit</b>	
VHPR162	Auto Drain Kit, HPF System (recommend 1 per system)
<b>Fittings - Slip Lok</b>	
VHPR123	Adaptor, 3/8" Slip Lok x 3/8" Male, NP Brass
PP10890	Adaptor, 1/2" Slip Lok x 1/2" Male, NP Brass
VHPR172	Adaptor, 1/2" Slip Lok x 3/8" Male, NP Brass
VHPR134	Elbow, 3/8" Slip Lok, NP Brass
VHPR166	Elbow, 1/2" Slip Lok, NP Brass
VHPR154	Coupling, 3/8" Slip Lok, NP Brass
VHPR165	Coupling, 1/2" Slip Lok, NP Brass
VIEC1000B	Tee, 3/8" Slip Lok, NP Brass
PP10891	Tee, 1/2" Slip Lok, NP Brass
VHPR171	Tee, 1/2" Slip Lok x 3/8" Slip Lok, NP Brass
VIEC1000C	Tee, 3/8" Slip Lok, w/Nozzle Opening, NP Brass
VIEC1000G	End Plug, 3/8" Slip Lok, Brass
VHPR169	End Plug, 1/2" Slip Lok, Brass
<b>Fittings - Threaded Brass</b>	
VHPR108	Tee, 1/2" Male Flare, Brass
PP10901	Tee, 1/2" Male Flare x 3/8" Male NPT, Brass
VHPR124	Adaptor, 1/2" Female Flare Swivel Nut, Brass
VHPR125	Coupling, 1/2" x 3/8" FIP, Brass
VHPR126	Coupling, 3/8" Female, Brass
VHPR127	Elbow, 3/8" Female NPT x 3/8" Female NPT, Brass
VHPR168	Elbow, 1/2" Female NPT x 1/2" Female NPT, Brass
VHPR128	Union, 1/2" Flare x 1/2" Flare, Brass
VHPR129	Union, 1/2" Flare x 3/8" MIP, Brass
VHPR167	Union, 1/2" Flare x 1/2" MIP, Brass
VHPR131	Plug, 1/2" Flare, Brass
VHPR120	O-Ring, for HPF Flare Brass Fittings
<b>Valve</b>	
VHPR163	Ball Valve, Full Port, 3/8" S.S., 2,000 Working PSI
VHPR164	Ball Valve, Full Port, 1/2" 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>	
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)
<b>Other</b>	
VHPR150	O-Ring, Replacement for Nozzles

NOTE: Parts received may differ from appearance of parts shown.



### 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.  |

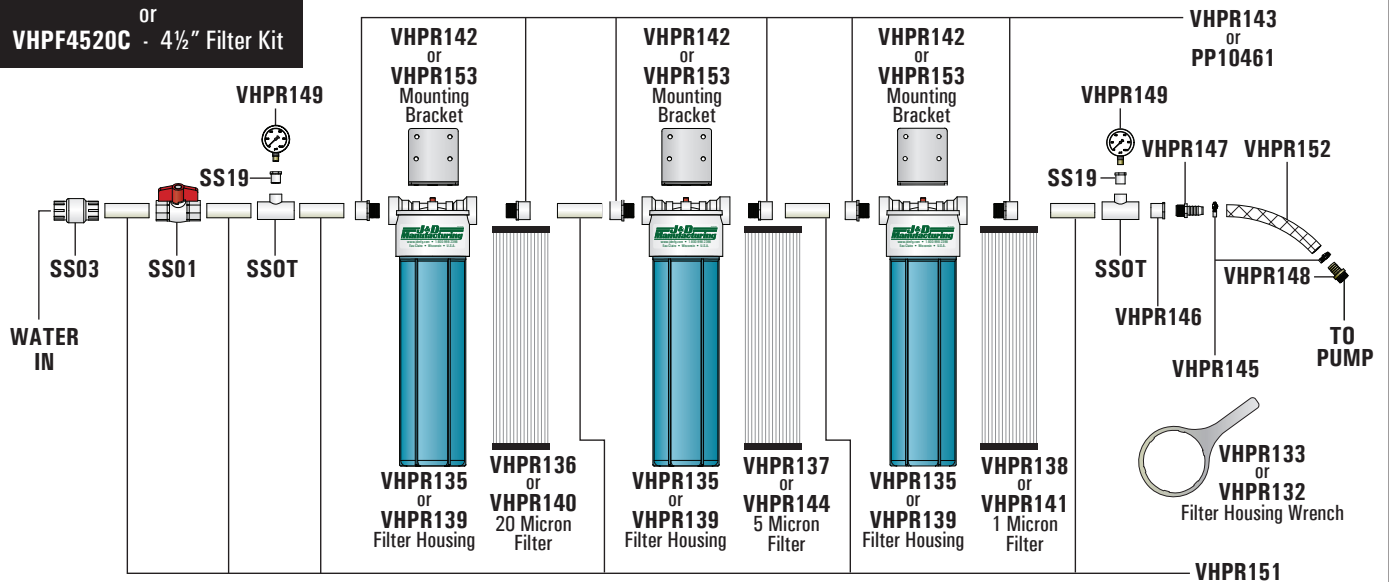


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# Basic Assembly of HPF System

**Complete 3-Stage Filter Kits**

VHPF2520C - 2½" Filter Kit  
or  
VHPF4520C - 4½" Filter Kit

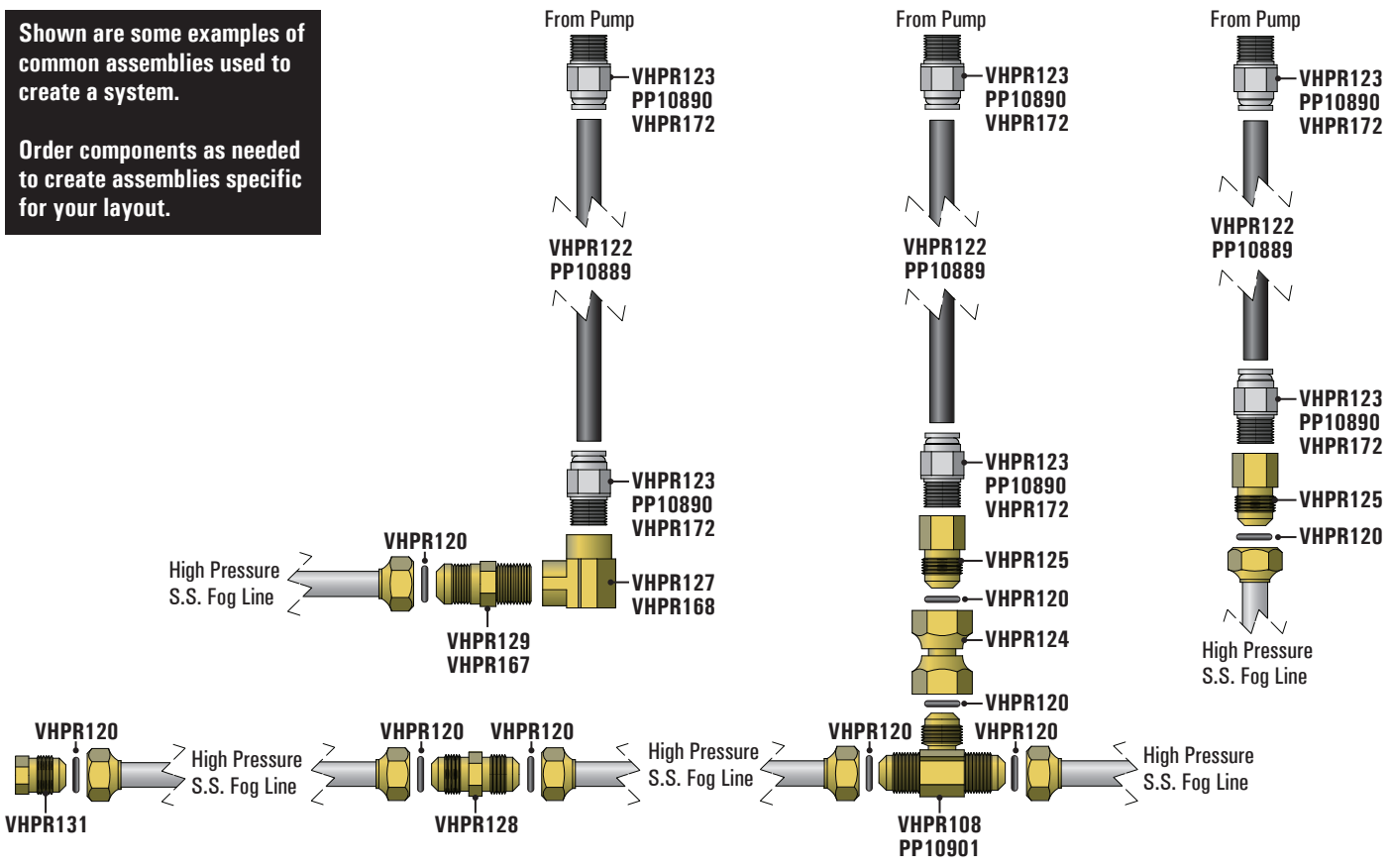


Each filter kit also includes: (1) VHPR123 adapter to connect the pump to the VHPR122 nylon tube  
(1) PP10815 single use pouch of anti-seize lubricant to be used when assembling pump to motor  
*See installation manual for additional details.*

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

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

HIGH PRESSURE FOG & COOLING



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# Replacement Parts

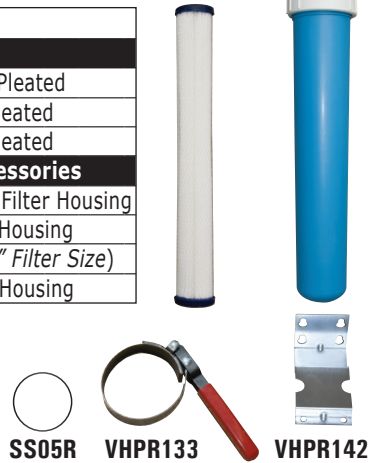
## 3 Stage Filter Kits

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

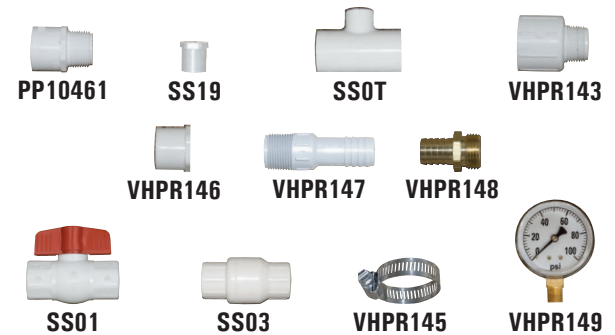
Part#	Description
<b>2½" Replacement Filters</b>	
VHPR136	Filter, 2½" x 20", 20 Micron, Pleated
VHPR137	Filter, 2½" x 20", 5 Micron, Pleated
VHPR138	Filter, 2½" x 20", 1 Micron, Pleated
<b>Additional Replacement Parts &amp; Accessories</b>	
SS05R	O-Ring Replacement for 2½" Filter Housing
VHPR133	Wrench, 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
<b>Fittings</b>	
PP10461	Adaptor, ¾ x 1" MXS
SS19	Reducer, ½" x ¼" SxM
SS0T	Tee, 1" x 1" x ½" SxSxS
VHPR143	Adaptor, 1" Mt x Sweat PVC
VHPR146	Bushing, Reducer, 1" Spigot x ¾" FPT
VHPR147	Adaptor, Male, ¾" MPT x ¾" Insert
VHPR148	Adaptor, ¾" Barb x ¾" GHT
<b>Accessories</b>	
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
<b>4½" Replacement Filters</b>	
VHPR140	Filter, 4½" x 20", 20 Micron, Pleated
VHPR144	Filter, 4½" x 20", 5 Micron, Pleated
VHPR141	Filter, 4½" x 20", 1 Micron, Pleated
<b>Additional Replacement Parts &amp; Accessories</b>	
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

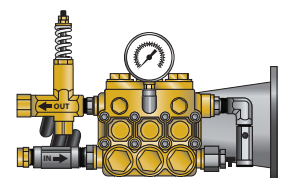


## C-Face TEFC Motors

Part#	HP	Volts	Hz	Amp	Shaft
<b>Single Phase</b>					
VHPM1	1	115/230	60	13.2/6.6	5/8"
VHPM2A	2	115/230	60	20/10	5/8"
VHPM3	3	115/230	60	28/14	1½"
VHPM5A	5	230	60	20.2	1½"
<b>3 Phase</b>					
VHPM13A	1	230/460	60	3.8/1.9	5/8"
VHPM33A	3	230/460	60	7.8/3.9	1½"
VHPM53A	5	208-230/460	60	13.6-12.3/6.2	1½"
VHPM103	10	230/460	60	13/6.5	1¾"

## Pumps with Unloader

Part#	GPM	Hollow Shaft	HP
VHPP13	1.3	5/8"	1
VHPP30	3.0	5/8"	2
VHPP41	4.1	1½"	3
VHPP57	5.7	1½"	5
VHPP137A	10.2	24mm	10



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