

Operation Manual



Dual Big Blue Filtration K-A-PT-5054

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Section 1.1**WARNINGS AND CAUTIONS****WARNINGS** 

- Read this manual in its entirety before operating the Big Blue Filtration System.
- Misuse, improper operation, and/or improper monitoring of this system could result in serious injury, death, or other serious reactions to the end users of the equipment.
- Routine maintenance of the system is required to protect the system from over-pressurizing and over-temperature which could result in damage to the facility, injury to staff, or the end users of the equipment.

CAUTIONS 

- When used as a medical device, Federal law restricts this device to sale by or on the authority of a physician. Per CFR 801.109 (b)(1).
- All local, state, and federal regulations regarding the installation and operation of this system must be observed.
- To be used only for pre-treatment of water prior to reverse osmosis (RO).

Section 1.2**THEORY OF OPERATION**

The Dual Big Blue Filtration was designed to remove particulate matter from the water source using either a 1 or 5 micron cartridge filter in a polypropylene housing before the media tank(s).

The system consists of (2) two 20" long x 4 ½" wide 1 or 5 micron disposable filter cartridges. The system is capable of trapping large quantities of particulate matter while maintaining a high flow rate with little pressure drop.

Section 1.3**SYSTEM COMPONENTS**

Inlet Pressure Gauge:

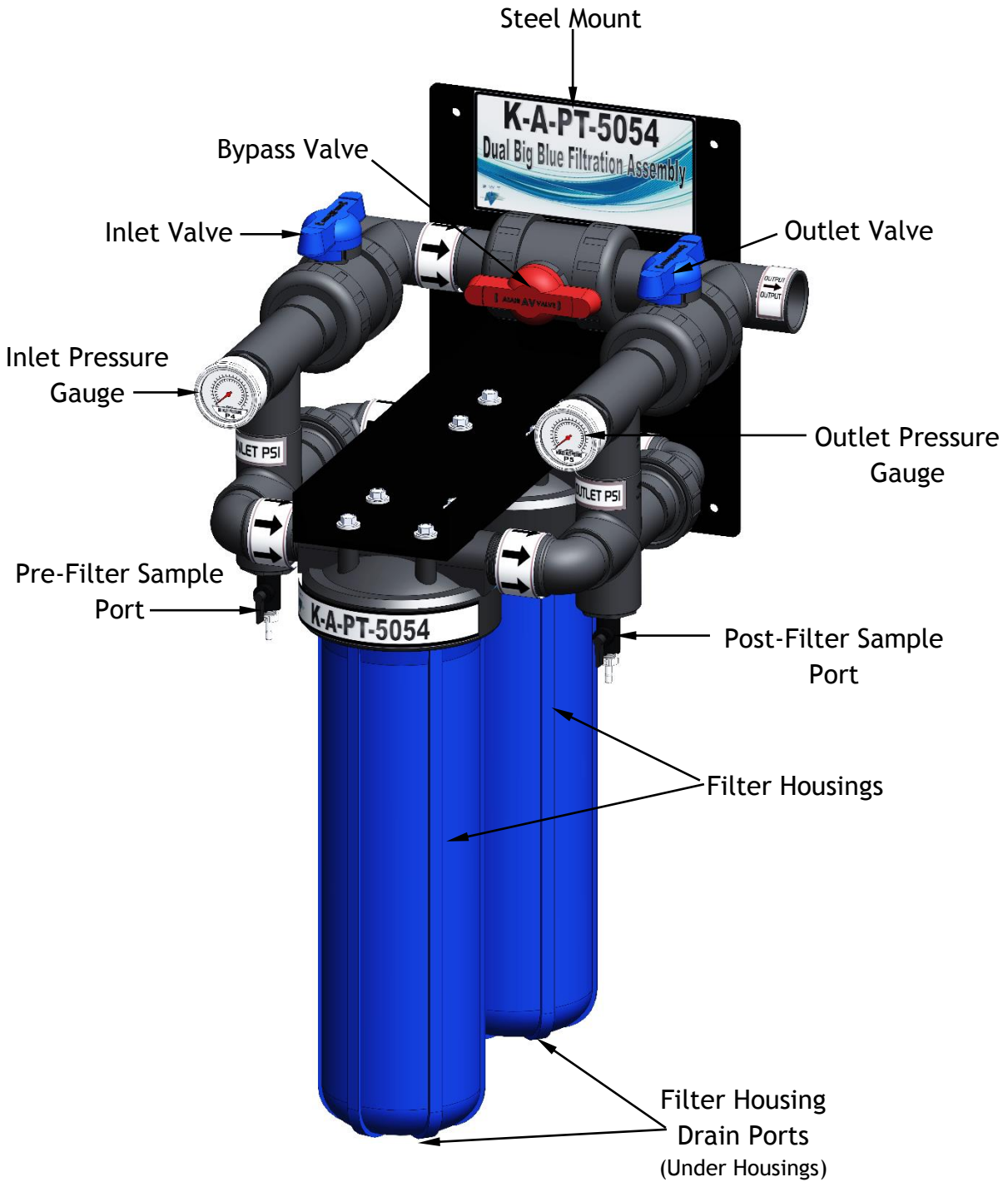
Monitors the pressure of pre-filtered water

Outlet Pressure Gauge:

Monitors the pressure of post filtered water. Used in conjunction with the Inlet Pressure reading, can determine when filters are needing to be changed when the pressure difference between the two gauges is ≥ 15 psi.

Section 1.4

SYSTEM ILLUSTRATION



Section 2.1**SPECIFICATIONS**

WATER REQUIREMENTS:**Inlet Water Connection:**

Inlet water piping capable of delivering 35 GPM (Gallons per Minute), and 30-120 PSI (Pounds per Square Inch) pressure.

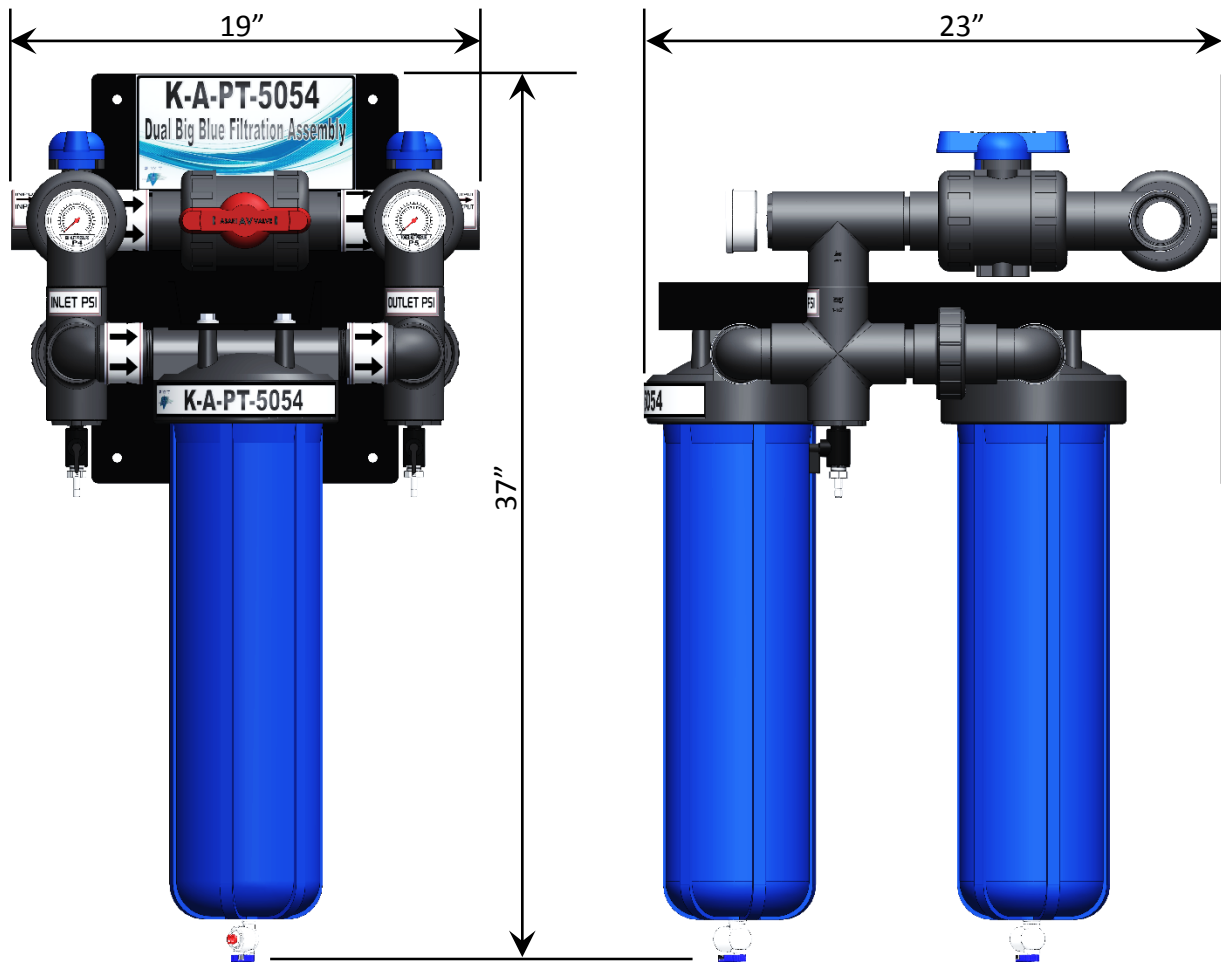
Section 2.2

SPECIFICATIONS

DIMENSIONS & WEIGHT:

Size: 37”H X 19”W X 23”D

Weight: 55 lb. Dry



Section 3.1**ROUTINE MAINTENANCE**

Routine inspection of the system is recommended. Follow all facility procedures regarding regular inspection of water system equipment.

This component should be checked every day for pressure drop, as this is the primary indicating factor of when the filters should be changed. Routine replacement of the filters will be required as necessary (<15 psi pressure drop or every 30 days, whichever comes first).

Section 3.2**FILTER CHANGE**

To change the filter cartridge:

1. Close both Inlet and Outlet Valves.
2. Relieve pressure to housings by opening both pre and post sampling ports, run to drain and leave open.
3. To drain water from housings, open each drain port at the bottom of each bowl and run to drain.
4. Using housing wrench, slide it up from the bottom until snug and rotate clockwise and unscrew each housing from the cap assembly.
5. Replace with new filter cartridges.
6. Apply a light coat of silicone lubricant to the O-ring and fasten bowl back to cap assembly using housing wrench snugly. Do not over tighten!
7. Close drain ports under each housing, if not already.
8. Close the pre-filter sample port leaving the post-filter sample port open.
9. Slowly open the Inlet Valve allowing the housings to fill and expel air thru the post-filter sample port.
10. When all of the air is purged from the housings close the post-filter sample port then open the Outlet Valve.



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