

Filter Bank Station



PART NO. 7110-9168-060

Overview

The filter bank station is an ideal solution to improve the quality of drinking water for applications not using a purified water source. The filter bank station is a compact panel mount assembly with three filters that provide filtered drinking water for animal watering systems. This eliminates the need to put a 5-micron filter in each pressure reducing station to remove suspended particles which could potentially cause problems in the drinking valves.

Features & Benefits

- Compact stainless steel panel mount assembly.
- 3-step filtration (5, 1, and 0.2 micron).
- Stainless steel piping and fittings.
- 10" [254 mm] high capacity filters.
- Inlet shut-off valve for easy servicing.
- Injection port for filter sanitization.
- Pressure gauge located after the filters.
- Provisions for inlet gauge to check pressure drop across filters.
- Enhanced water quality with 0.2 micron final filter.
- Reduced maintenance cost with less filter cartridges to change.
- Compact wall-mounted panel requires minimal space.
- Affords protection against some pathogenic microorganisms.
- Readily adapts to existing systems with header lines.

Filter Bank Station

Specifications

Hardware

- Size
 - 22 in W x 15 in H x 5.75 in D [559 mm W 381 mm H x 146 mm D].
- Back Panel
 - 316 stainless steel.
- Piping
 - 1/2 in [12.7 mm] OD, 316 stainless steel.
- Fittings
 - 1/2 in [12.7 mm] Avidity Science clean fitting / 3/8 in [9.5 mm] NPT.
 - 316 stainless steel.
- Shut-off Valve
 - Ball valve - stainless steel.
- Injection Point
 - Stainless steel valved quick disconnect plug.
- Pressure Range
 - 0-60 psi [0-414 kPa, 0-4.14 bar].
- Filter Housings
 - 10 in [254 mm] long polypropylene with 3/8 in [9.5 mm] FPT ports.
- Filter Cartridges
 - 9 3/4 in [247.7 mm] long
 - 5 micron, 1 micron, 0.2 micron absolute

Utility Requirements

- Water
 - Potable or chlorinated.
- Pressure
 - 60 psi [0.41 MPa] maximum.

Flow Rate

- 5 gallons/minute [19 liters/].

Operation

The filter bank station requires a water supply header line, from the filter bank at a central location, to each of the pressure reducing stations in the system.

The filter bank has 10" [254 mm] filters with capacity, in most cases, to handle the entire animal watering system. With only one set of filters to change, maintenance costs are greatly reduced. The absolute 0.2 micron rated final filter significantly enhances the water quality with its capacity to remove bacteria and microorganisms like *Cryptosporidium* that may be present in the house water supply feeding the filter bank. However, the filter bank can not be expected to produce absolutely sterile, bacteria-free water. Bacteria which are trapped within the filter will continue to multiply and can eventually grow-through the filter. Best results are expected when the water supply to the filter bank is chlorinated to inhibit bacteria growth. If this isn't possible, periodic chlorine sanitization should be done.

The two prefilters (5 and 1 micron) remove the larger suspended particles to protect the 0.2 micron cartridge and extend its functional life of up to 3 months. This life factor is dependent on the quality of the water supply and the volume of water flowing through the filter bank. Filter cartridges should be changed regularly. The frequency should be determined by routine on-site bacteria testing.

All specifications are subject to change without notice.

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