



MagnaClean DRX™ Specifications

The MagnaClean DRX Magnetic Dirt Filters are a patented range of magnetic dirt filters that capture magnetite particles in a hydronic heating system. These filters are designed specifically to be installed with 2", 3" and 4" pipe sizes in North American.

Filter Body and Magnetic Belt

- ASME rating: The MagnaClean DRX filters have the following ASME rating; ASME VIII Division 1-2017.
- The flanges and main body or canister of the DRX Filter is a single cast of 304L stainless steel.
- The flanges on each of the DRX filter sizes are type ASNI B16.5 Class 150.
- Maximum working pressure should be 10 Bar or 145 psi.
- The detachable collars of the DRX filter should be constructed of glass reinforced nylon with sections that clip onto a stainless-steel circular bar that is located on the top of the collar mechanism.
- Each section of the collar mechanism should house spring loaded neodymium magnets with a rating between 9,000 and 12,000 Gauss at a maximum working temperature of 212 Deg F.

Magnet Arrays

The number of neodymium magnets for each of the sizes should be;

- 2" DRX Filter 48 individual spring-loaded magnets
- 3" DRX Filter 64 individual spring-loaded neodymium magnets
- 4" DRX Filter 80 spring-loaded neodymium magnets.
- The individual magnets should be 3/4" diameter with a thickness of 1/2"

Flow Ranges & Pressure Drop

Flow range and pressure drop values for each of the DRX Filter sizes should be as follows;

- 2" DRX Filter Flow Range 0 – 140 GPM. Pressure drop across the filter should not exceed 1.2 psi at 140 GPM.
- 3" DRX Filter Flow Range 0 – 300 GPM. Pressure drop across the filter should not exceed 0.5 psi at 300 GPM
- 4" DRX Filter Flow Range 0 – 400 GPM. Pressure drop should not exceed 0.25 psi at 400 GPM

Drain Port

- Each DRX Filter should have a 3/4" NPT female drain port and thread plug.

Manual Air Vent (AAV Optional)

- Each DRX Filter should have a 3/8" manual air vent located on the top left of the stainless-steel canister. An optional AAV (Automatic Air Vent) is available for the DRX Filter.

Seals

- Each DRX Filter should be provided with 2 EPDM Seals for the ANSI flanges.

Canister Volume

Canister Volume for each filter shall be;

- 2" DRX Filter Volume 1.3 US Gallons
- 3" DRX Filter Volume 1.7 US Gallons
- 4" DRX Filter Volume 2.0 US Gallons

Installation Configuration

The DRX Filter can be installed in either horizontal or vertical configurations;

