MagnaClean CMX™
Side-Stream Magnetic and Non-Magnetic Filter

***MagnaClean CMX* Series 1" NPT**
SUBMITTAL DATA *MagnaClean CMX Nano™* – ISSUE DATE 05/2022

Job name	Size
Job location	Quantity
Engineer	Approval
Mechanical contractor	Service
Contractor's P.O. No.	Tag No.
Representative	Notes

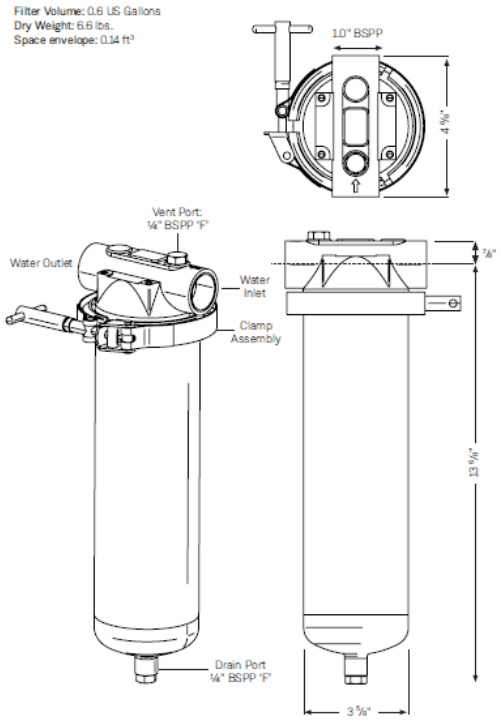
Application

In closed loop heating and chiller systems, the circulation of water contaminants such as copper, chloride, iron, scale, and pH imbalances may result in rapid corrosion, damage, and blockages to components such as pumps, control valves, thermostats, heat exchangers, heat emitters and pipes, resulting in lower thermal efficiency within the system and even component failures. The MagnaClean CMX side-stream filters provide adaptive filtration options - magnetic only or combined, magnetic & non-magnetic dual-filtration, combining powerful, neodymium magnets with superior spun-bonded filter cartridges and needlefelt bag filters, which also help promote air separation from the system water.

Delivering market leading dual-filtration performance, direct chemical dosing capability, improved system efficiencies, reduced maintenance and running costs, the CMX range is an integral part of water management solutions and services for commercial heating and chilled water systems.

Dimensions

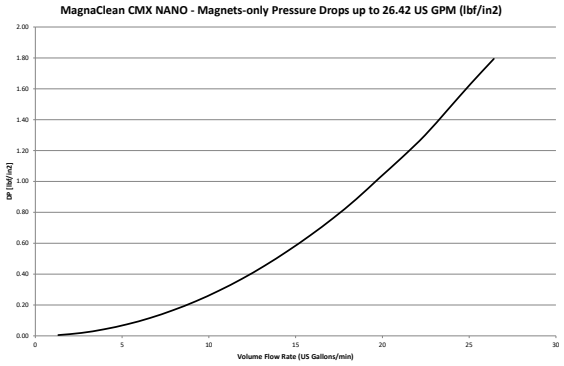
MagnaClean CMX Nano



Typical Specification

Furnish and install on the plans and described herein, an *ADEY® MagnaClean CMX* magnetic and non-magnetic side-stream as manufactured by ADEY. Each filter must be designed with a 316L stainless-steel body with large internal volume, seals in EPDM, blowdown drain port, internal powerful, neodymium magnet assembly with superior spun-bonded filter cartridges and needlefelt bag filters, capturing particles from 50µm to 5µm (0.2 mil), and including magnetite. Each magnetic and non-magnetic filter shall be an ADEY MagnaClean CMX model or approved equal. (See product instructions for specific installation information.)

Pressure Drop Data



Technical Data

Filter body & lid: 316L Stainless Steel
Body finish: Polished
Filter head: Bead Blast
Internal compression nut: 316L Stainless Steel
O-Ring seal: EPDM
Clamp with Tee-Bar: 304 Stainless Steel
Clamp Tee-Bar: 304 Stainless Steel
Drain port: 316L Stainless Steel
Plug & O-Ring: 316L Stainless Steel & PTFE
Magnets (x1): Neodymium rare-earth
Air vent body: CB754S Brass
Air vent float: PE
Air vent spring: Stainless steel
Cartridge filters 5 - 50 µm (x1): Spun-bonded polypropylene

Performance

Suitable fluids: water, glycol solution
Max. percentage of glycol: 50%
Max. working pressure: 145 psi (10 bar)
Temperature range: 14–302°F (-10–150°C)
Maximum temperature with packaged air vent: 230°F (110°C)
Particle separation capacity: down to 5 µm (0.2 mil)
Inlet & Outlet Connections: 1" BSPP F with 1” NPT M Adapter
Vent port: ¼” BSP Female with BSPP Plug & PTFE O-Ring
Drain port: ¼” BSPP Female with BSPP Plug & PTFE O-Ring
Flow rate: 7.9 g/pm with cartridge filter installed