

MagnaClean CMX™

Side-Stream Magnetic and Non-Magnetic Filter

MagnaClean CMX Series 2" NPT

SUBMITTAL DATA MagnaClean CMX Midi™ – ISSUE DATE 05/2022

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

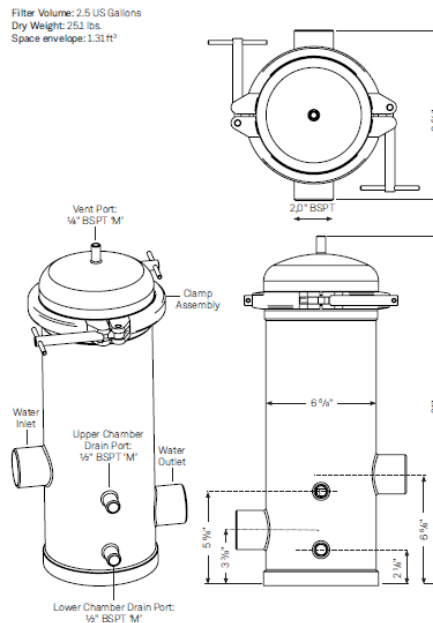
Application

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 Midi





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.)

Technical Data

Filter body & lid: 316L Stainless Steel

Body & lid finish: Polished

Gasket seal: EPDM

Centre rod top section: 316L Stainless Steel

Spring & seal assembly: 316L Stainless Steel

Compression plate assembly: 316L Stainless Steel

Compression nut & washer: 316L Stainless Steel

Clamp with Tee-Bar: 304 Stainless Steel

Clamp: 304 Stainless Steel

Clamp Tee-Bar: 316L Stainless Steel

Blanking caps: 316L Stainless Steel

Magnets (x3): Neodymium rare-earth

Air vent body: CB754S Brass

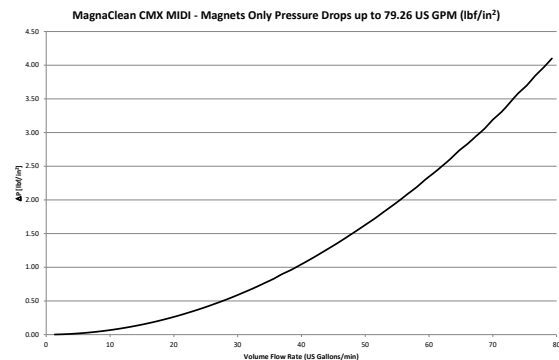
Air vent float: PE

Air vent spring: Stainless steel

Cartridge Filters 5 - 50 µm (x3): Spun-bonded polypropylene

-Micron sizes can be mixed, e.g. 2 x 20 µm & 1 x 50 µm

Pressure Drop Data



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: 2" BSPT M with 2" NPT F Adapter

Vent port: ¼" BSPT Male with BSPT Plug

Drain ports: ½" BSPT Male with BSPT Plug

Flow rate: 17.2 g/pm with cartridge filters installed