

MagnaClean™ CMX

Product Specification



ADEY®

MagnaClean® CMX

Market leading adaptive filtration

The *MagnaClean CMX* range of 316L stainless steel filters deliver adaptive, market leading water system filtration, offering a completely flexible, bespoke approach to addressing the needs of commercial and industrial heating and chilled water systems.

The filter range has been specifically designed for use within small to large commercial and heavy industrial applications as sidestream filters, with the Midi and Maxi models also providing market leading inline filtration performance. Each model within the range provides adaptive filtration options - magnetic or non-magnetic and combined, dual-filtration capabilities through the combination of powerful, neodymium magnets and superior spun-bonded filter cartridges and needlefelt bag filters.

Each *MagnaClean CMX* filter can be configured and re-configured according to specific system needs and requirements. At point of installation, they should be configured to filter magnetic debris only in order to capture as much magnetite from the system as possible whilst also ensuring that non-magnetic cartridge filters aren't needlessly blocked with magnetic material. Once magnetic capture rates begin to reduce, cartridge filters and filter bags from 5-50-microns in size can then be introduced to the filter housings to begin the capture of any non-magnetic debris within the system.

Once filter cartridges are required, the Midi filter within the range could then be configured with its three magnets together with two 10-micron filters and one 20-micron filter, helping to maintain flow and pressure performance across the filter by reducing the likelihood of all three cartridge filters blocking with debris from the system. Any combination of cartridge filters can be configured according to specific system requirements through the four-pack filter kits available to purchase separately.

The innovative *MagnaClean CMX* range of filters is a highly efficient and flexible product solution. Delivering market leading dual-filtration performance, improved system efficiencies and reduced maintenance and running costs, the *CMX* range is an integral part of ADEY's compelling package of water management solutions and services for commercial heating and chilled water systems.

MaganClean CMX range



MagnaClean CMX - NANO

Innovative, adaptive sidestream filtration

The *MagnaClean CMX* Nano sidestream filter is constructed from high quality, polished 316L stainless steel and has been carefully designed and scaled to work within commercial heating and chilled systems up to 43,200 litres in size.

Weighing in at less than 3kg* and with a space envelope of just 0.004m³, the Nano filter is a truly compact plant room solution offering high performance, adaptive magnetic and non-magnetic filtration, simple, low-cost installation and maintenance and improved energy efficiencies.



43,200 Litre
Capacity



Up to 30 l/min
Flow Rate



10 Bar Max.
Pressure

Features & Benefits

- Marine-grade, 316L stainless steel construction
- Compact & lightweight space-saving solution
- Adaptive filtration options – magnetic or non-magnetic and combined, dual-filtration
- Effortless, tool-free servicing and maintenance
- 10.0 bar maximum working pressure
- Temperature range -10°C to 150°C
- Optional insulation jacket accessory

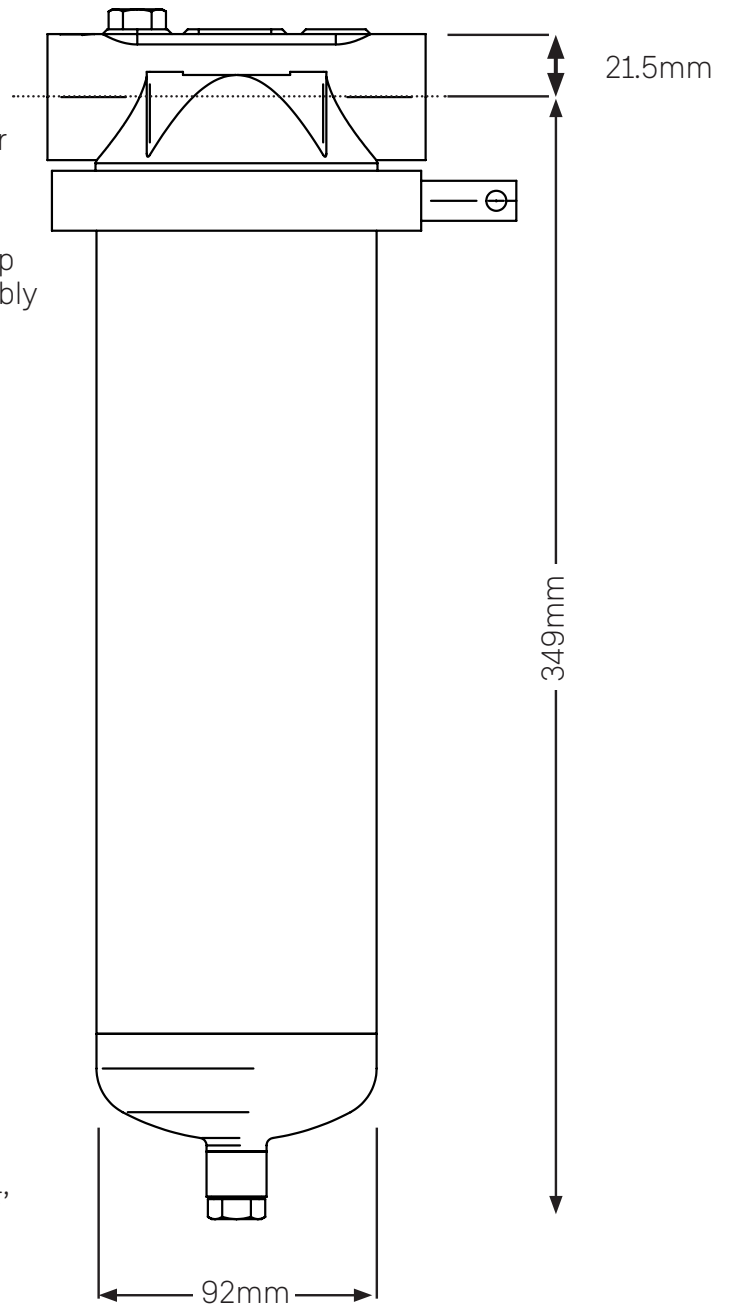
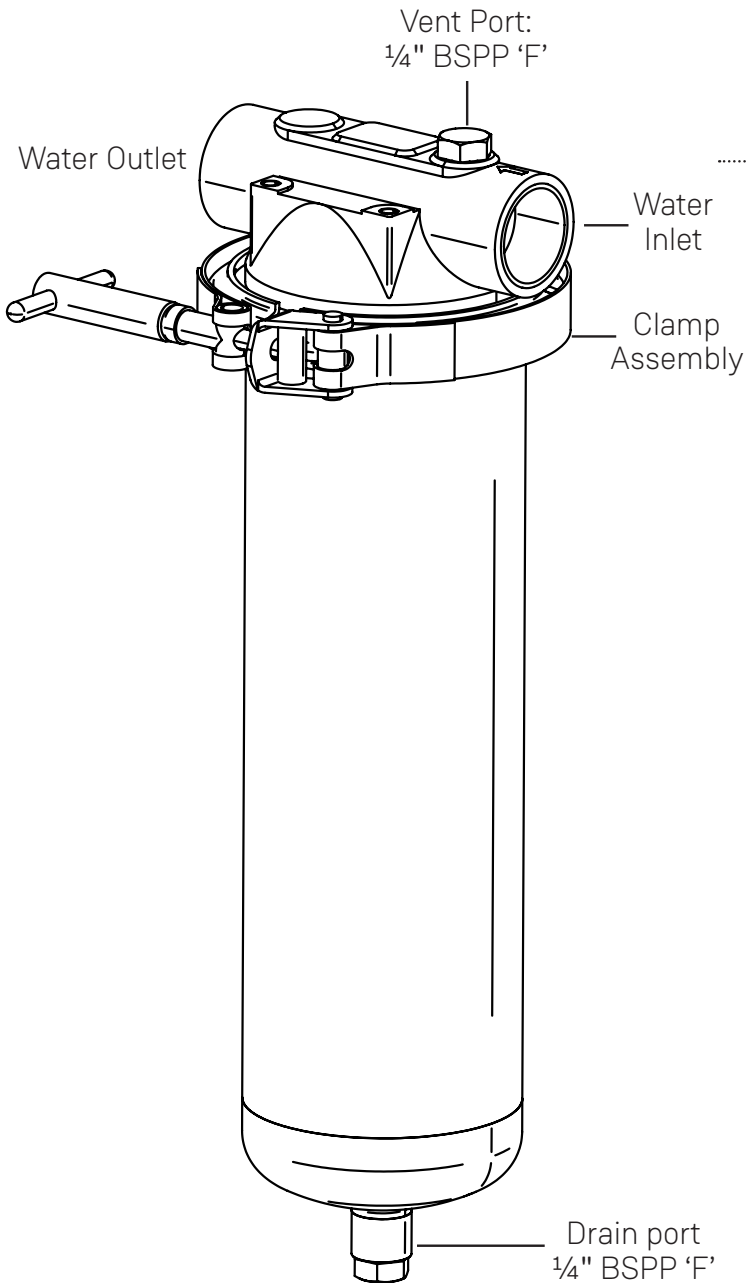
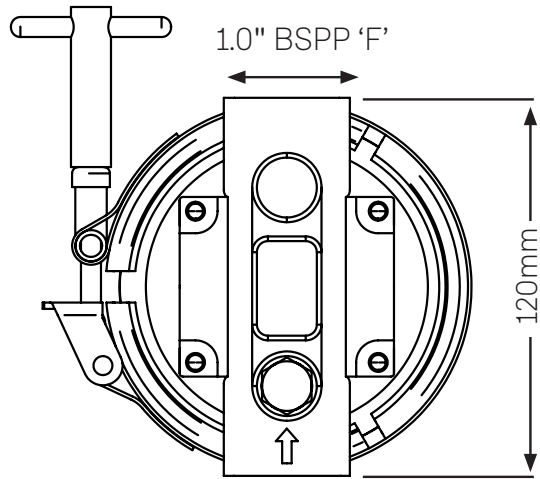
*Dry weight

ADEY System Kit

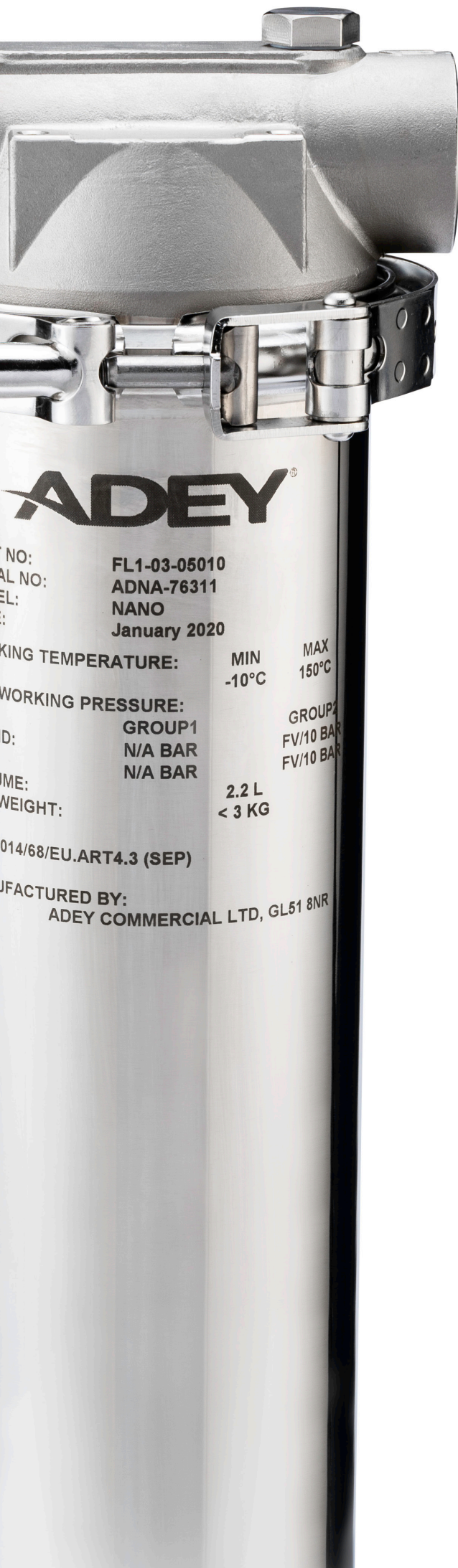
An ADEY system kit is available for the *MagnaClean CMX* Nano filter comprised of three 20-micron cartridge filters, an automatic air vent, magnetite scraper tool and five litres of ADEY's award winning *MC1+[®] Protector* which passivates and protects bare metal surfaces.



Technical Specification



MagnaClean™ CMX



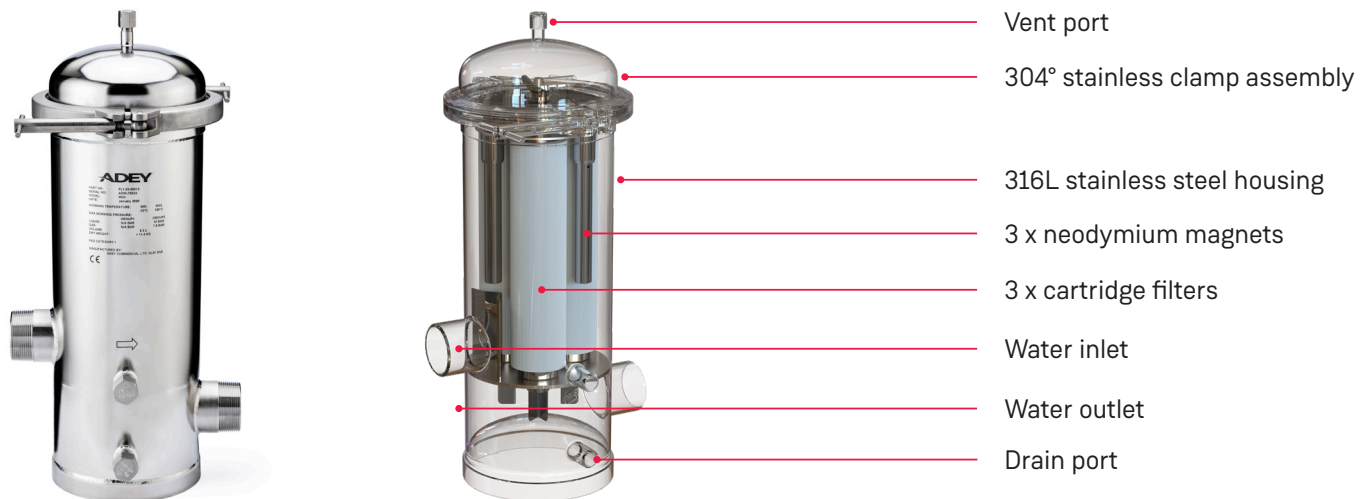
Nano

MagnaClean CMX - MIDI

Innovative, adaptive sidestream & inline filtration

The *MagnaClean CMX* Midi filter is constructed from high quality, polished 316L stainless steel and has been carefully designed and scaled to work within medium-sized industrial and commercial heating and chilled systems up to 93,000 litres in size.

The Midi filter provides highly flexible, magnetic and non-magnetic filtration via a powerful neodymium magnet assembly and three cartridge filters, both of which can be configured either independently or in combination to deliver market leading, adaptive system filtration performance.



93,000 Litre
Capacity



Up to 65 l/min
Flow Rate



10 Bar Max.
Pressure

Features & Benefits

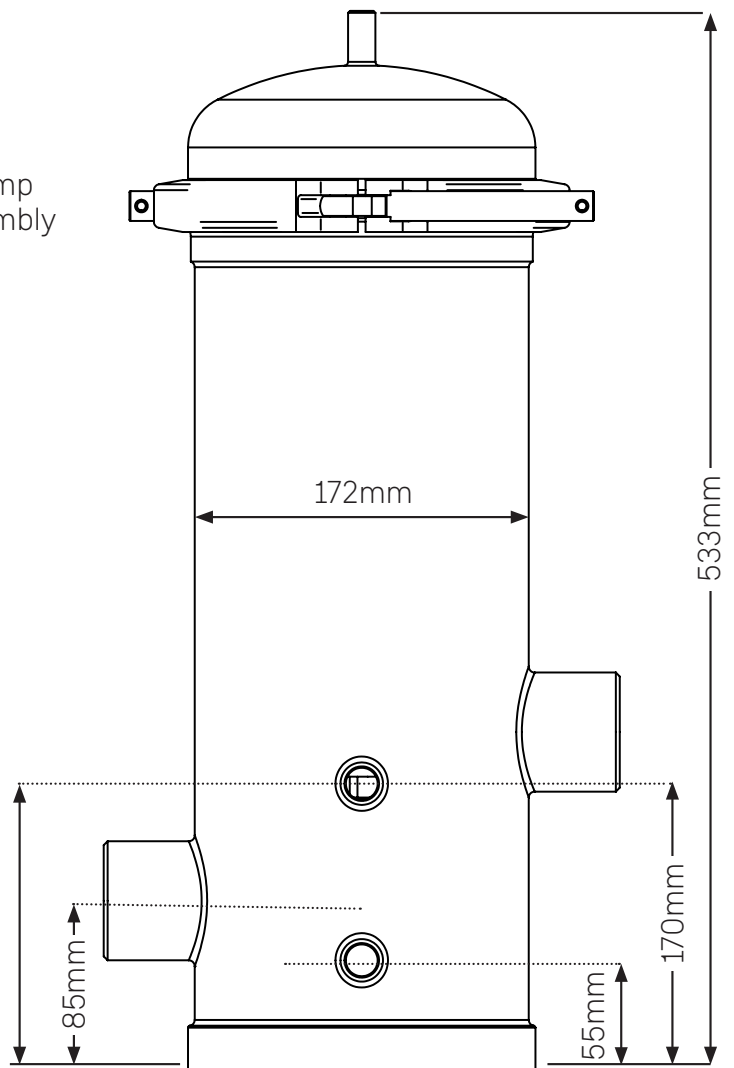
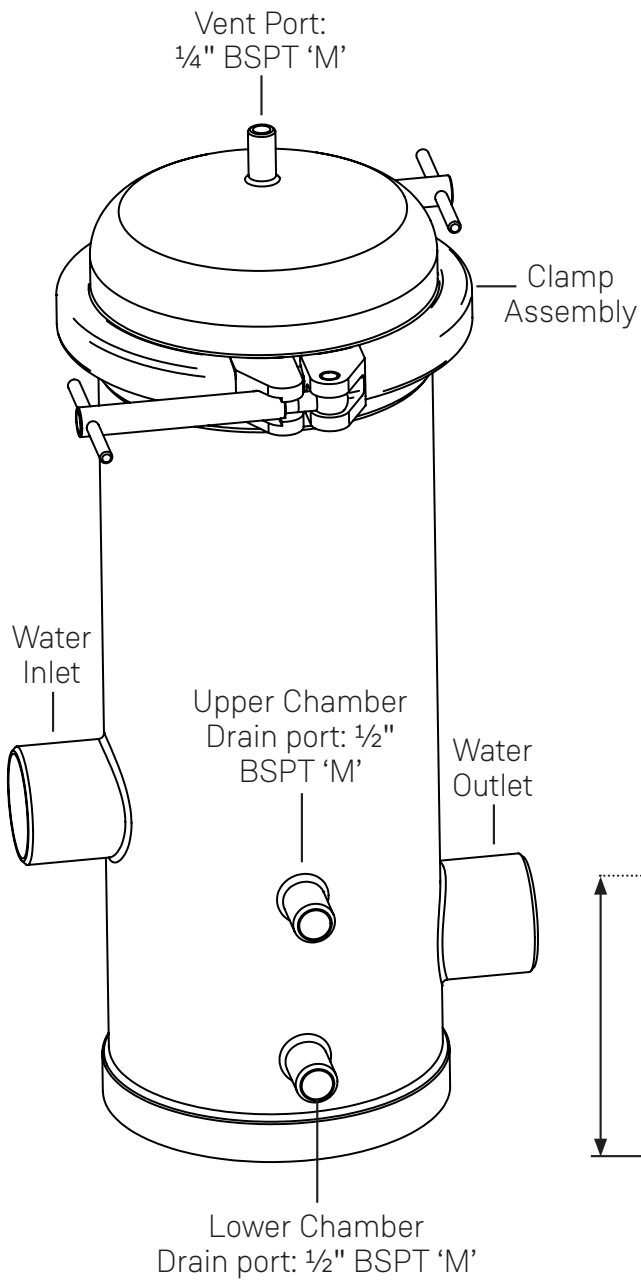
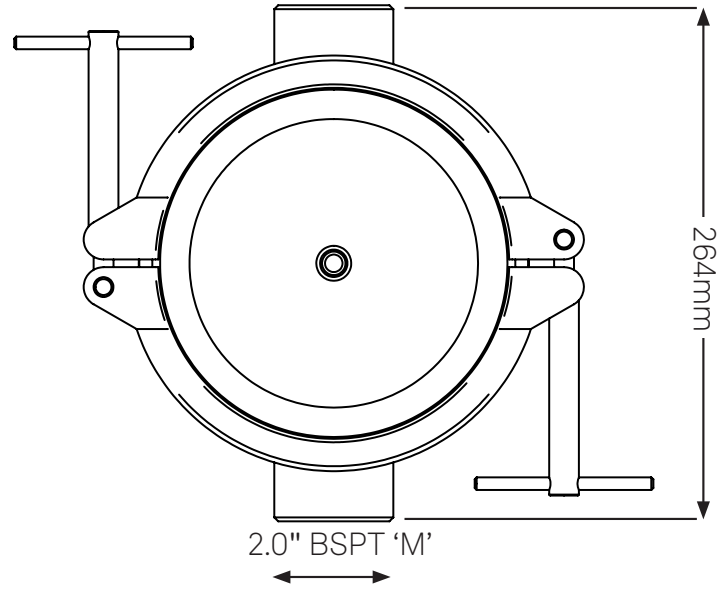
- Marine-grade, 316L stainless steel construction
- Low-cost installation, reduced maintenance and improved energy efficiencies
- Adaptive filtration options – magnetic or non-magnetic and combined, dual-filtration
- Configurable cartridge filter specification to suit exact system filtration requirements
- Effortless, tool-free servicing and maintenance
- 10.0 bar maximum working pressure
- Temperature range -10°C to 150°C
- Optional insulation jacket accessory

ADEY System Kit

An ADEY system kit is available for the *MagnaClean CMX* Midi filter comprised of three 20-micron cartridge filters, an automatic air vent, magnetite scraper tool and five litres of ADEY's award winning *MC1+ Protector* which passivates and protects bare metal surfaces.



Technical Specification



MagnaClean™ CMX



ADEY®

PART NO: FL1-03-05013
 SERIAL NO: ADMI-76533
 MODEL: MIDI
 DATE: January 2020

WORKING TEMPERATURE:	MIN	MAX
	-10°C	150°C
MAX WORKING PRESSURE:	GROUP1	GROUP2
	N/A BAR	10 BAR
	N/A BAR	7.5 BAR
VOLUME:	9.3 L	
WEIGHT:	< 11.4 KG	

CATEGORY I
 MANUFACTURED BY:
 ADEY COMMERCIAL LTD, GL51 8NR



Midi



MagnaClean CMX - MAXI

Innovative, adaptive sidestream & inline filtration

The *MagnaClean CMX* Maxi filter is constructed from high quality, polished 316L stainless steel and has been carefully designed and scaled to work within large industrial and commercial heating and chilled systems up to 324,000 litres in size.

The Maxi filter delivers formidable magnetic and non-magnetic filtration performance via a powerful neodymium magnet assembly seated within a needlefelt bag filter and stainless steel basket strainer, all of which can be configured independently and in combination to deliver market leading, adaptive system filtration performance.



324,000 Litre
Capacity



Up to 225 l/min
Flow Rate



10 Bar Max.
Pressure

Features & Benefits

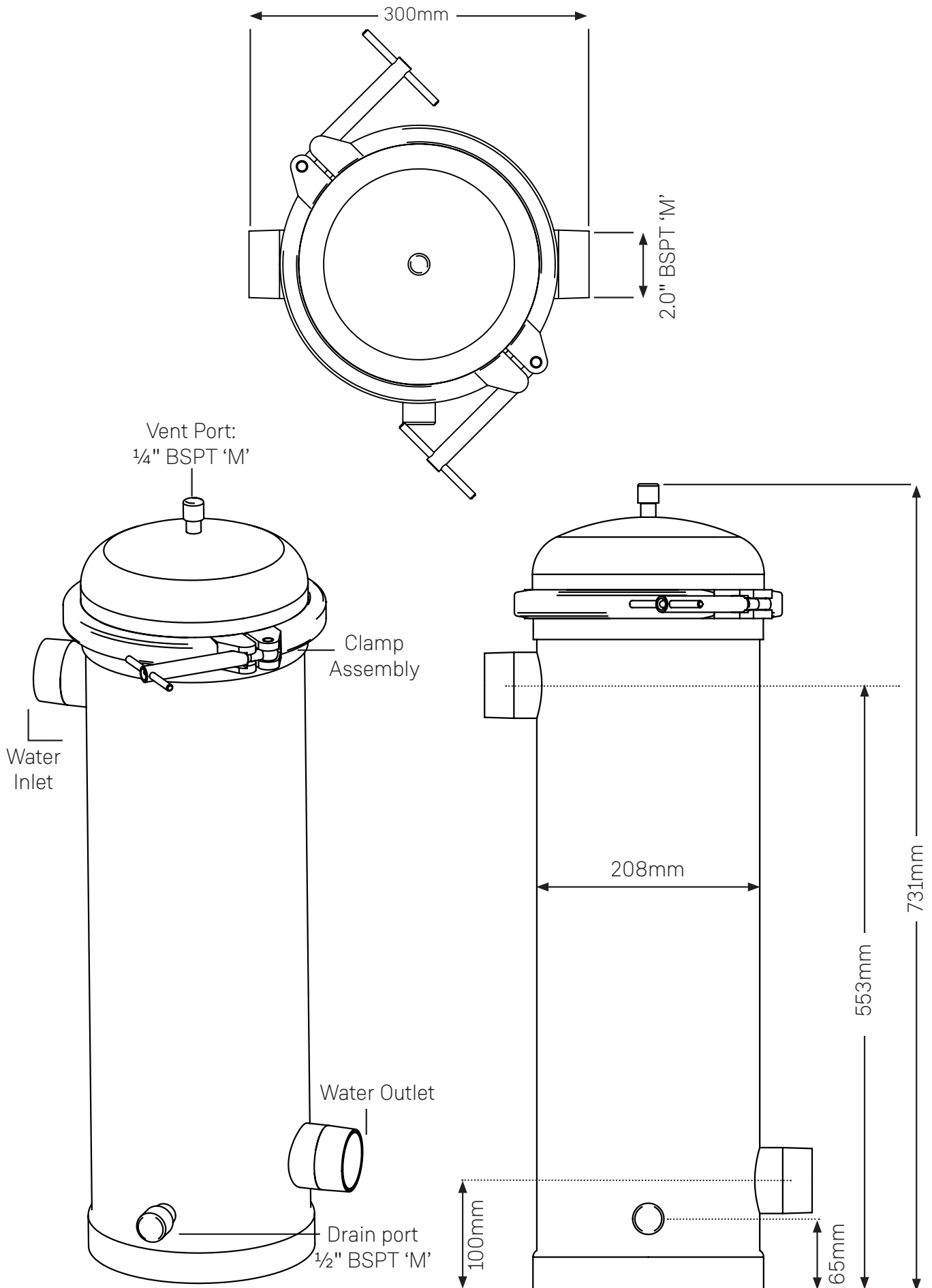
- Marine-grade, 316L stainless steel construction
- Low-cost installation, reduced maintenance and improved energy efficiencies
- Adaptive filtration options – magnetic or non-magnetic only and combined, dual-filtration
- Stainless steel basket strainer and bag filter combine for highly effective non-magnetic filtration
- Effortless, tool-free servicing and maintenance
- 10.0 bar maximum working pressure
- Temperature range -10°C to 150°C
- Optional insulation jacket accessory

ADEY System Kit

An ADEY system kit is available for the *MagnaClean CMX* Maxi filter comprised of three 25-micron needlefelt bag filters, an automatic air vent and five litres of ADEY's award winning *MC1+* Protector which passivates and protects bare metal surfaces.



Technical Specification



MagnaClean™ CMX



ADEY

PART NO: FL1-03-05014
SERIAL NO: ADMA-74265
MODEL: MAXI
DATE: January 2020

WORKING TEMPERATURE:	MIN	MAX
	-10°C	150°C

MAX WORKING PRESSURE:	GROUP1	GROUP2
LIQUID:	N/A BAR	10 BAR
GAS:	N/A BAR	4.5 BAR

VOLUME: 19.7 L
DRY WEIGHT: < 17.5 KG

PED CATEGORY I

MANUFACTURED BY:
ADEY COMMERCIAL LTD, GL51 8NR



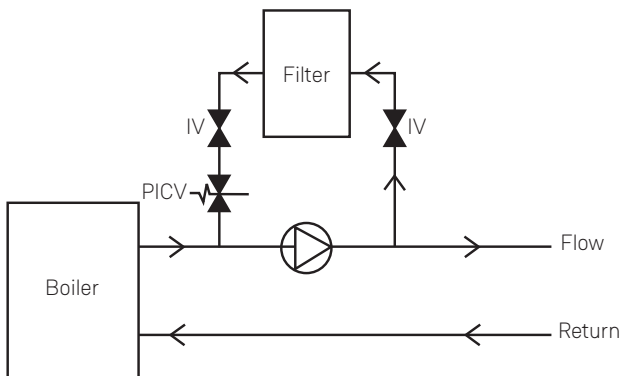
Maxi

Technical Specification

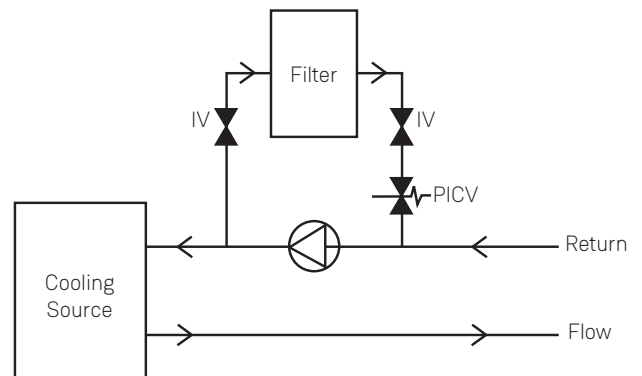
<i>MagnaClean CMX</i>			
Product code	FL1-03-05010	FL1-03-05013	FL1-03-05014
Model	NANO	MIDI	MAXI
System Capacity (Litres)	43,200	93,000	324,000
Connection Size & Type	1" BSPP Female	2" BSPT Male	2" BSPT Male
Vent Port Size & Type	¼" BSPP Female	¼" BSPT Male	¼" BSPT Male
Drain Port Size & Type	¼" BSPP Female	½" BSPT Male	½" BSPT Male
Material specification			
Body	316L Stainless steel		
Lid Clamps	304 Stainless steel		
Finish	Polished		
Design specification			
Maximum working pressure	10.0 Bar		
Minimum working temperature	-10°C		
Maximum operating temperature	150°C		
Dry Weight (Kg)	<3.0	<11.4	<17.5

Sidestream Installation Examples

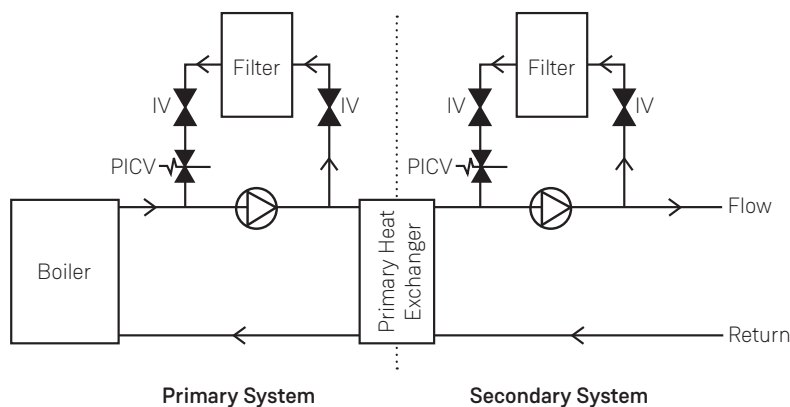
Commercial Heating System



Commercial Chilled System



Commercial Primary & Secondary System



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