



MagnaClean Commercial™ Specifications

MagnaClean Commercial is manufactured to EN 13445:2009 in five sizes to meet the demands of a broad cross section of applications. Engineered to a high specification, the single cast mouldings are readily available in 2", 3", 4", 6" and 8" pipe dimensions with PN16 flanges. The quality of the filter cast bodies is verified by X-ray analysis. The product also comes supplied with EPDM full-flange gaskets for robust sealing at high temperatures.

Filter Body and Magnets

- Casing
- Material: 304L stainless steel
- Drain point: 1¼" BSPP hole, 1¼" BSPT plug
- Maximum working pressure: 145 bar
- Maximum working temperature: 212°F

Magnets

- High quality neodymium magnets which can be individually removed to make servicing easier and safer
- Magnets remain attached to the filter during servicing,
- reducing risk of water ingress
- Material: High power, NdFeB
- Pocket sleeves: 304L Stainless steel
- Lid seal: EPDM

Sight glass

- Weld material: DIN1.4404 stainless steel
- Collar nut: DIN1.4301/DIN1.4307 stainless steel
- Glass: Toughened soda lime to BS3463
- Product side seal: EPDM
- Outer seal: Non-asbestos fibre (KILINGERSil C-4400)

Flow Flange and total weight

2" Size: PN16, supplied with EPDM gasket

- **Flange thickness: ¾"**
- **Bolt size: M16**
- **Bolt quantity: 4**
- **Bolt hole PCD: 125**
- **Total weight 61.1 lbs.**

3" Size: PN16, supplied with EPDM gasket

1. **Flange thickness: 5/8"**
2. **Bolt size: M16**
3. **Bolt quantity: 8**

- 4. Bolt hole PCD: 160
- 5. Total weight 88.4 lbs.

4" Size: PN16, supplied with EPDM gasket

- Flange thickness: 5/8"
- Bolt size: M16
- Bolt quantity: 8
- Bolt hole PCD: 180
- Total weight 95.5 lbs.

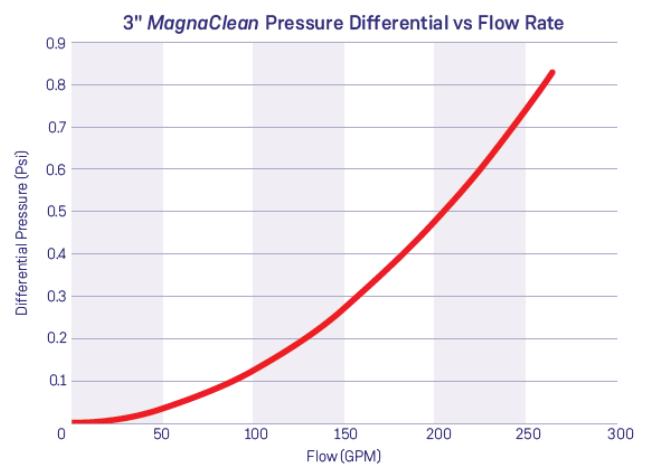
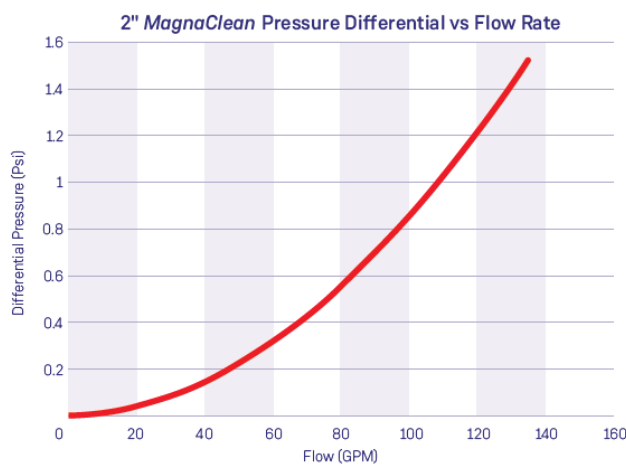
6" Size: PN16, supplied with EPDM gasket

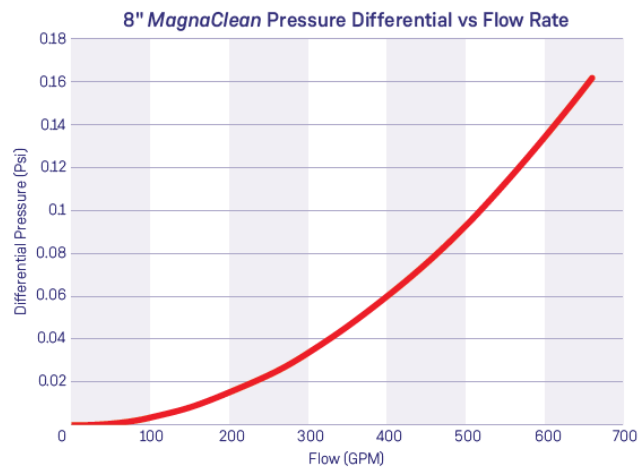
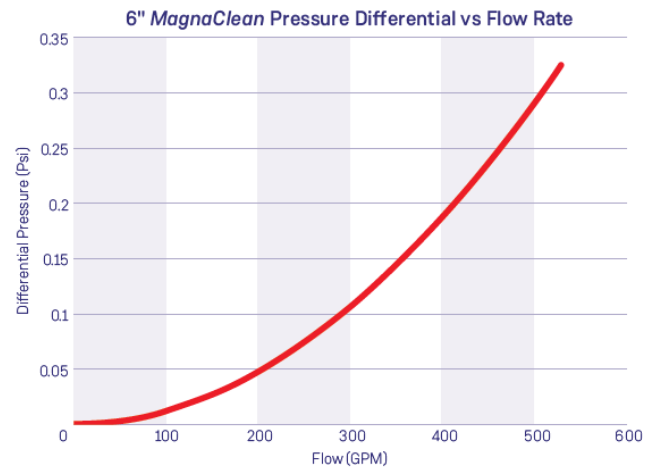
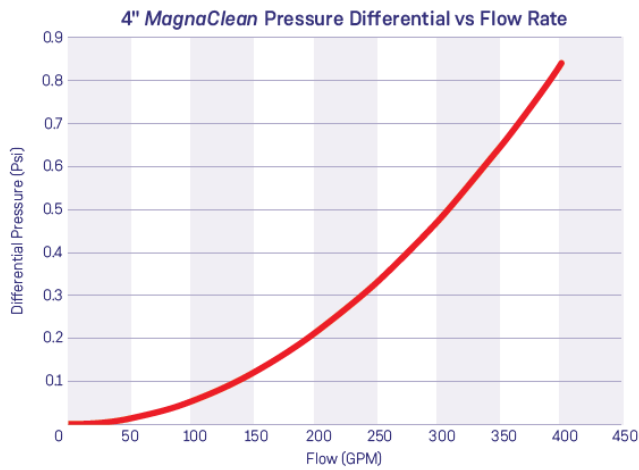
- Flange thickness: 3/4"
- Bolt size: M20
- Bolt quantity: 8
- Bolt hole PCD: 240
- Total weight 201.1 lbs.

8" Size: PN16, supplied with EPDM gasket

- Flange thickness: 3/4"
- Bolt size: M20
- Bolt quantity: 12
- Bolt hole PCD: 295
- Total weight 223.3 lbs.

Pressure Drop flow graphs





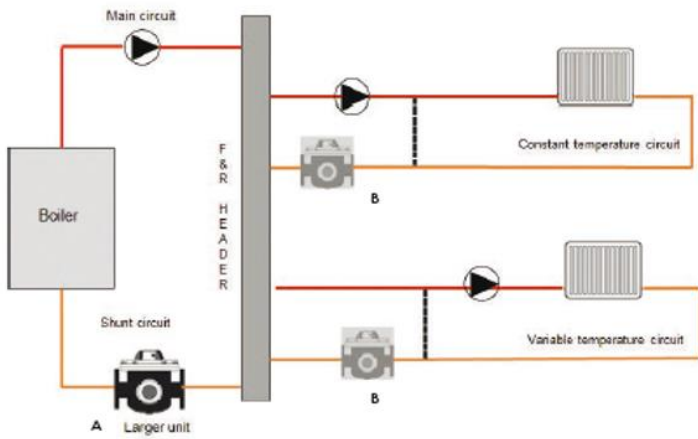
Installation instructions

MagnaClean Commercial is an incredibly powerful range of magnetic filters designed to remove magnetite from light commercial heating systems through to heavy industrial applications. The exceptional design characteristics and high production quality of MagnaClean Commercial make installation and ongoing maintenance extremely straightforward. Correct installation and servicing are essential to ensure optimum operating performance and a longer operational life for the system.

Flexible magnetic filtration options

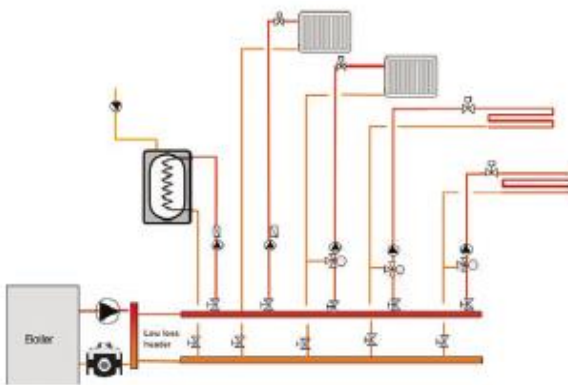
As can be seen in the diagram below, MagnaClean Commercial provides a number of installation solutions in terms of unit size and location. The typical HVAC system illustrated identifies two of these options within the various circuits.

Installation with Cascade (zoned) system

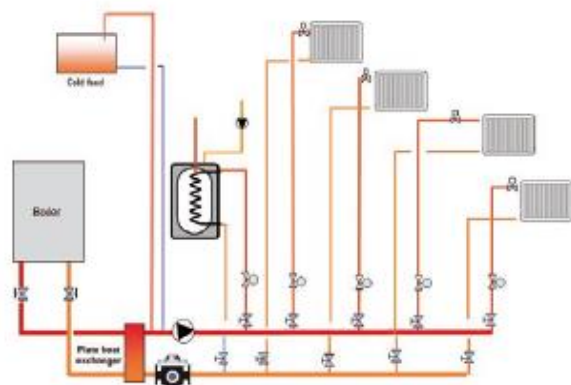


* Position A is the recommended best practise installation option. Position B could be added in as an option to further protect the system.

Installation with a Low loss header



Installation with a Plate to plate



For chiller systems, it is recommended that a *MagnaClean* is installed on the return of the system before the chiller.