



FC5A380 Installation and Maintenance

MASTER PNEUMATIC - DETROIT, INC.

6701 -18 Mile Rd. | Sterling Heights, MI 48314 | Phone: (586) 254-1000 | Fax: (586) 254-6055 | Email: mp@masterpneumatic.com

PRODUCT NUMBERS:

FC5A380-3
FC5A380-4
FC5A380-6

THANK YOU!

You have just purchased a quality Coalescent Filter from Master Pneumatic.

With care in its installation and maintenance, you can expect it to have a long and economical service life. Before you go any further, please take a few minutes to look over this information, then save it for future reference and for the useful service information it contains.

Installation & Operation Procedures

NOTE: Read Warning Stuffer STU-A019 included in box with product before proceeding.

INSTALLATION:

1. Depressurize and lockout air pressure.
2. Upstream pipes must be free of excessive dirt and liquids.
3. A conventional M/P Filter with standard 5 micron filter element should be installed immediately ahead of Coalescing Filters to maximize the life of the coalescing element.
4. Install the Coalescent Filter as near as possible to the device it is to serve.
5. Install the Coalescent Filter so that air flows in the direction of the arrow on the cap.
6. The Coalescent Filter must be installed vertically with drain mechanism at the bottom.
7. Coalescent Filters should be installed upstream of any Regulators or Lubricators in the airline.
8. If installing using modular clamp connections A118-105 or A118-105M, torque screws 30-40 in-lbs.

OPERATION:

1. Filter may be drained manually by turning Drain Knob clockwise until bowl drains. Return to full counter-clockwise position for automatic drain position. To install 3/16 flexible tubing, push Drain Knob up to expose the Drain Clip. Remove the Drain Clip and Drain Knob. Push tubing on Stem. A tube clamp should be used to retain tubing on drain stem.
2. Replace Plastic Bowls with Metal if any signs of crazing or cracking is observed.
3. Replace Coalescent Element when the pressure differential reaches 8 to 10 psid (0.55 to 0.69 bar).

TO CLEAN OR REPAIR:

1. Depressurize and lockout air pressure.
2. Remove Bowl Ring and Bowl Assembly by turning counter-clockwise.
3. Remove Bottom Cap by turning counter-clockwise.
4. The Coalescent Element can now be removed. Do NOT clean elements, they must be replaced.
5. To service Float Drain, turn Drain Knob counter-clockwise until it stops. Then push Drain Knob up to expose Drain Clip. Remove Drain Clip and pull off Drain Knob.
6. Remove Drain Nut by turning counter-clockwise. The Float Drain can now be removed from Bowl and disassembled.
7. The Float Drain and Bowl can now be cleaned. (*For instructions to repair Float Drain see STU-A027.*)
8. When re-assembling, be sure all o-rings are correctly located. Lubricate o-rings with Lithium grease. Torque Bottom Cap maximum 5 in-lbs. Torque Drain Nut 5-15 in-lbs. Torque Bowl Ring 30-50 in-lbs. When Bowl Ring is fully in place, there should be a gap between the Bowl Ring and Head of 0.020"-0.040". (*See Sectional on next page.*)
9. If the Coalescent Filter cannot be repaired by cleaning with soap and water, the parts should be replaced.

Replacement Parts

DESCRIPTION	PART NUMBER
Float Drain Plastic Bowl Assembly	AF5A115-109
Float Drain Metal Bowl Assembly	ABF5A115-100
Float Drain Metal Ext. Bowl Assembly	ABF5A115-100H

DESCRIPTION	PART NUMBER
Element Kit - 0.3µm	A115-117
Ext. Bowl Element Kit - 0.3µm	A115-118
Element Kit - 0.01µm	A115-117E8
Ext. Bowl Element Kit - 0.01µm	A115-118E8



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Replacement Parts Cont'd

DESCRIPTION	PART NUMBER
Differential Pressure Gauge	103-151
Float Drain Kit	A802-42

Parts Listing

KEY	DESCRIPTION
1	Differential Pressure Gauge
2	Cap
3	Head
4	Stud
5	O-Ring
6	Upper Cap
7	Bowl Ring
8	Shatter guard
9	Plastic Bowl
10	Coalescent Element
11	Bottom Cap
12	Automatic Drain
13	Drain Nut
14	Drain Knob
15	Drain Clip

