



FCD101 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:

FCD101-6
FCD101-8

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 from inlet to outlet as shown on the head.
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.

OPERATION:

1. For Manual Drain models: Periodically drain to discharge accumulated liquids by turning Drain Knob clockwise.
2. For Automatic Drain models: Flexible tubing (3/16" ID) may be installed on the Drain Stem to remove discharges. Turn Drain Knob counter-clockwise until it stops, push up to expose the Drain Clip. Remove Drain Clip and Drain Knob, and push tubing onto Drain Stem. The drain may be adjusted to compensate for differing operating conditions by adjusting the Drain Knob. For low flow or low pressure drop, turn the Drain Knob until the drain just closes. For high flows or high pressure drop, turn the Drain Knob clockwise if reduced drain action is required. Turning the Drain Knob clockwise to the stop puts the drain in a manual shutoff position. Turning the Drain Knob counter-clockwise will manually drain the filter.
3. Replace Plastic Bowls with Metal if any signs of crazing or cracking is observed.
4. 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 Coalescent Element Assembly by turning counter-clockwise. Do NOT clean elements, they must be replaced.
4. To service Automatic 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.
5. Remove Drain Nut by turning counter-clockwise. The Automatic Drain can now be removed from Bowl and disassembled.
6. The Automatic Drain and Bowl can now be cleaned.
7. When re-assembling, be sure all o-rings are correctly located. Lubricate o-rings with Lithium grease. Torque Coalescent Element Assembly hand tight. Torque Drain Nut 5-15 in-lbs. Torque Bowl Ring hand tight.
8. If the Coalescent Filter cannot be repaired by cleaning with soap and water, the parts should be replaced.

Replacement Parts

DESCRIPTION	PART NUMBER
AID Plastic Bowl Assembly	ADK109-6M
Manual Plastic Bowl Assembly	AL109-6M
AID Metal Bowl Assembly	ABFCD109-6A
Manual Metal Bowl Assembly	ABL109-6A

DESCRIPTION	PART NUMBER
Element Kit - 0.3µm	A109-106
Element Kit - 0.01µm	A109-106E8
Differential Pressure Gauge	106-35



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Replacement Parts Cont'd

DESCRIPTION	PART NUMBER
AID Drain Kit	D380
Manual Drain Kit	A802-32

Parts Listing

KEY	DESCRIPTION
1	Differential Pressure Gauge
2	Head
3	O-Ring
4	Upper Element Cap
5	O-Ring
6	Bowl Ring
7	Hex Cap Screw
8	Coalescent Element
9	Shatterguard
10	Plastic Bowl
11	Lower Element Cap
12	Automatic Drain
13	Drain Nut
14	Drain Knob
15	Drain Clip
16	Manual Drain

