



EAFM, EAFC & EAFN Filters

Installation and Operating Instructions



Please pass these instructions on to the operator of this equipment.

WARNING

For proper operation, the inlet water pressure must be between 140kPa (20psi) and 690kPa (100psi) except for Model XFN12 where the minimum is 210kPa. Lower pressure will mean low flow rates. If the inlet pressure exceeds 690kPa a pressure reduction valve must be fitted prior to the filter.

If water hammer is prevalent a water hammer arrestor must also be fitted prior to the filter.

The filter should be located far enough from any water heaters to avoid hot water backup to the filter.

The filter must be protected against freezing water temperatures.

Backwash this unit at least weekly to prevent media compaction and channeling. As the valve is designed to bypass during backwash, the outlet water should not be used during backwash or preferably isolated during backwash.

If grit or sand is present in the water supply remove it with a coarse (200 micron or similar) in-line strainer to prevent damage to valve components and seals.

FAILURE TO OBSERVE THE ABOVE WILL VOID WARRANTY.

If connecting to a public water supply a backflow preventer may have to be installed – check with the water supplier.

INSTALLATION

- 1 Position the filter on a flat surface close to a drain or any other properly trapped outlet, and in a position where the filter can service all the water lines which require the filtered water. The filter should be placed far enough away from a water heater to avoid any hot water backup into the filter. The EAF model filters require a standard or weatherproof 3 pin 10 amp power point, depending on the location of filter installation. Note that valve operation is at 12 Volt and the Logix 742 is the controller fitted as standard.
- 2 Refer to: Operation Manual, 742/762 Control, 255 and Performa series valves, pgs 15 -18.
- 3 Remove filter valve by unscrewing, anticlockwise. Pull the distributor assembly out of the valve and place in tank (the distributor assembly is the piece of tube with the strainer on the end inserted in the valve base). Plug or cover the top end of distributor tube making sure no media can enter the tube.
- 4 Fill tank to about 1/3 full with water, make sure the distributor is sitting on the bottom of the tank, then place the media in the tank as follows, leveling media between each layer. DO NOT shake filter to level the media.
- 5 Remove plug or cover from the distributor tube making sure you do not lift the distributor. Top up filter tank with water. Smear o-ring lubricant on valve o-ring and replace valve onto tank (hand tight is usually sufficient), making sure the distributor tube is properly inserted into the valve base.
- 6 Allow the media to soak for a minimum of two (2) hours before proceeding place into service, preferably overnight, with the control valve in the "Backwash" position. Carbon filters should soak for at least 24 hours, preferably 48 hours.

Note that most media does not need replacing on a regular basis, Neutrafil is the exception as it is sacrificial and designed to dissolve slowly neutralising acidity. It is likely to need topping up every 2 months or so depending on water use and chemistry. For top up hints see next section.

- 7 Run a hose (not supplied) from the drain outlet on the valve to the drain. The hose should not be longer than 7 metres, be reduced or restricted, not have any rises and should have an air gap of at least 40mm at the drain entrance.

CONTROLLER SET UP

The logix 742 controller has been factory set to:

- Backwash day: Monday
- Backwash start time: 2.00am
- Backwash duration: 20 minutes
- Rinse duration: 10 minutes

To alter these settings refer to: Operation Manual, 742/762 Control, 255 and Performa series valves, pg 32 – 35 Initial start up step by step instructions.

The current time and day needs to be set:

1. Connect the 240/12V adapter to the controller and switch on power.
2. A default time is displayed.
3. Press ■. The default time will flash. Use the ⏪ and ⏩ arrows to adjust to the current time.
4. Press ■ twice.
5. A triangle will flash under 'Su' (Sunday).
6. Use ⏪ and ⏩ to set to the current day.
7. Press ■.
8. Leave the controller for 30 seconds and it will default to the current time (normal operation).

The current day is indicated by a ▲ under it. The backwash day is indicated by a - under it.



Example: Current Day and time = Tuesday 10:38am
Backwash day is Monday

PLACING FILTER INTO SERVICE

- 1 Before placing filter into service, media must be soaked for at least two hours; 24 hours for carbon filter.
- 2 Once media is soaked, push the recycling button  for five seconds to start backwash.
- 3 You can shorten the backwash time by pushing both  and  buttons.
- 4 A few short cycle backwashes are better than a full long one as dust and dirt will release with change of flow direction. Carbon filter requires five to seven backwash cycles until backwash water is clear.

MEDIA PLACEMENT

Multi-media sediment filter

Sequence in tank	EAFM7	Code	EAFM9	Code	EAFM12	Code
1st	5kg No.6 gravel	EM10A	9kg D1	EM24	22kg D1	EM24
2nd	10kg 7m sand	EM17	5kg D2	EM14	10kg D2	EM14
3rd	4kg Filter coal	EM18	9kg 7m	EM17	22kg 7m	EM17
4th	–	–	7kg Filter coal	EM18	18kg Filter coal	EM18

Carbon Taste & Odour Filter

Sequence in tank	E AFC7	E AFC9	E AFC12	Code
1st	5kg No.6 gravel	5kg No.6 gravel	10kg No.6 gravel	EM10A
2nd	4kg 1240 carbon	7kg 1240 carbon	17kg 1240 carbon	EM11A

Neutralising Filter

Sequence in tank	E AFN7	E AFN9	E AFN12	Code
1st	5kg No.6 gravel	5kg No.6 gravel	10kg No.6 gravel	EM10A
2nd	14kg Neutrafil	25kg Neutrafil	60kg Neutrafil	EM23/ EM23C

NEUTRAFIL TOP UP

Note that most media does not need replacing on a regular basis, Neutrafil is the exception as it is sacrificial and designed to dissolve slowly neutralising acidity. It is likely to need topping up every 2 months or so depending on water use and chemistry.

- 1) Disconnect the inlet, outlet and drain.
- 2) Unscrew the valve from the tank and remove it. The riser pipe in the centre of the tank may lift up with valve. Attempt to minimise this.
- 3) Place a cap over the riser pipe.
- 4) Add Neutrafil to the tank so it is approx. 2/3 full.
- 5) Ensure there is no media in the tank thread. Remove the cap on the riser pipe.
- 6a) If the riser pipe has lifted when removing the valve it must be moved back down into the Neutrafil.
- 6b) Insert a garden hose down the pipe.

E.g.



- 6c) Turn on the water, and push / wriggle the riser pipe pack into the tank. The Neutrafil will rise up with the flow. Do not allow it to overflow out of the tank. Reduce the water flow to prevent.
- 6d) Once the riser pipe is back in position, turn off the water. Hold the riser pipe and remove the hose.
- 7) Refit the valve and reconnect.
- 8) Do a backwash and rinse.

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In the unlikely event in Australia or New Zealand that this Davey product develops any malfunction within one year of the date of original purchase due to faulty materials or manufacture, Davey will at our option repair or replace it for you free of charge, subject to the conditions below.

Should you experience any difficulties with your Davey product, we suggest in the first instance that you contact the Davey Dealer from which you purchased the Davey product. Alternatively you can phone our Customer Service line on 1300 232 839 in Australia, or 0800 654 333 in New Zealand, or send a written letter to Davey at the address listed below. On receipt of your claim, Davey will seek to resolve your difficulties or, if the product is faulty or defective, advise you on how to have your Davey product repaired, obtain a replacement or a refund.

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For a complete list of Davey Dealers visit our website (davey.com.au) or call:

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P/N 402478-2

* Installation and operating instructions are included with the product when purchased new.
They may also be found at davey.com.au