



TFM, TFC & TFN Filters

Installation and Operating Instructions



WARNING

For proper operation, the inlet water pressure must be between 140kPa (20psi) and 690kPa (100 psi) 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.

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.

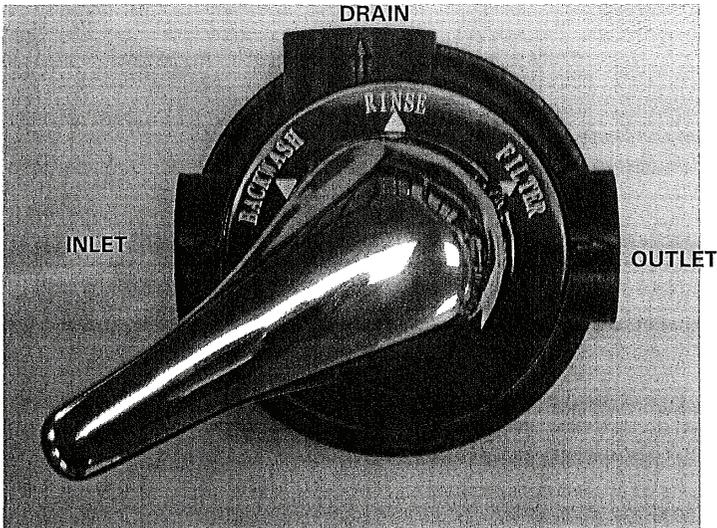
In backwash and rinse modes there is no water supply to service.

Points to watch

- 1 Do not use the valve handle to tighten the head.
- 2 Do not sweat copper fittings to or near the valve as it may cause damage.
- 3 Do not lift any filter by the valve handle, or push down on handle.
- 4 Do not overtighten any pipe fittings, plastic fittings are preferable.
- 5 A strainer needs to be installed if any sand or grit is in the water.

INSTALLATION

- 1 Position the filter on a flat surface close to a drain or a properly trapped outlet and in a position where the filter can service all the lines which require filtered water. The filter should be placed far enough away from a water heater to avoid any hot water backup into the filter.
- 2 Identify the inlet and outlet by the arrows moulded into the black valve. The drain outlet is between the inlet and outlet.



- 3 Ensure the valve body is tightly screwed into the main tank.
- 4 Plumb in inlet/outlet piping, we recommend the use of unions to facilitate removal of the valve for media recharge. **Unions are essential for neutralising filters where regular media additions are required.**
- 5 Fit the backwash flow controller supplied, run a hose (not supplied) from the drain outlet on the valve to a floor drain. The drain hose should not be longer than 7 metres, be reduced or restricted, have any rises and should have an air gap of at least 40mm at the drain entrance to prevent syphoning and allow the backwash flow to be observed.
- 6 Allow tank to fill and pressurise, check for leaks and seal with thread tape.
- 7 Unscrew valve from body to allow addition of media. Syphon half of the water out and slowly fill the tank with the media in the order shown below. Replace valve making sure there is no media left on the o-ring or thread.

TO PLACE THE NEUTRALISER INTO SERVICE

- 1 Turn the silver filter valve lever to the Backwash position.
- 2 Slowly turn the water supply on.
- 3 When water starts to run to drain turn the water supply off.
- 4 Soak the media for a minimum of two (2) hours, preferably overnight, before proceeding with the next step. Carbon filters should soak for at least 24 hours and preferably 48 hours.
- 5 Ensure the filter valve is still in Backwash position. Slowly open the water supply to start backwashing. Leave until water becomes clear at the drain.
6. Turn the valve lever to the rinse position. Rinse until water is clear
- 7 Turn valve lever to filter position. The filter is now in service and ready for use.

TO BACKWASH FILTER

This should be performed at least weekly.

- 1 Ensure no appliances are running that require water.
- 2 Turn the silver handle on valve to the backwash position.
- 3 Run water to drain until water becomes clear or for at least five minutes whichever is longer.
- 4 Turn the silver handle on the valve to rinse. Run water to drain for at least 5 minutes.
- 5 Turn the silver handle to the filter position. The filter is now backwashed and back in service.

MEDIA PLACEMENT

Multi-media sediment filter

Sequence in tank	TFM7	TFM9	TFM12
1st	5kg No.6 gravel	9kg D1	22kg D1
2nd	10kg 7m sand	5kg D2	10kg D2
3rd	5kg D3 Anthracite or 4kg Filter coal	9kg 7m	22kg 7m
4th	–	8kg D3 Anthracite or 7kg Filter coal	20kg D3 Anthracite or 18kg Filter coal

Carbon Taste & Odour Filter

Sequence in tank	TFC6 (and GAC618)	TFC7	TFC6 (and GAC618)	TFC12
1st	–	5kg No.6 gravel	5kg No.6 gravel	10kg No.6 gravel
2nd	3.5kg F200 or 2.5kg 12–40	6kg F200 or 4kg 12–40	10kg F200 or 7kg 12–40	25kg F200 or 17kg 12–40

Neutralising Filter

Sequence	TFN6	TFN7	TFN6	TFN12
1st	–	5kg No.6 gravel	5kg No.6 gravel	10kg No.6 gravel
2nd	6.5kg Neutrafil	14kg Neutrafil	25kg Neutrafil	60kg Neutrafil

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 and power connections from the valve.
- 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) Connect a hose with a suitable adapter fitting to the riser pipe. A 20mm PVC pressure elbow is suitable to connect onto the riser 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 adapter.
- 7) Refit the valve and reconnect.
- 8) Do a backwash and rinse.

Davey® Repair or Replacement Guarantee

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.

Your Davey One Year Guarantee naturally does not cover normal wear or tear, replacement of product consumables (i.e. mechanical seals, bearings or capacitors), loss or damage resulting from misuse or negligent handling, improper use for which the product was not designed or advertised, failure to properly follow the provided installation and operating instructions, failure to carry out maintenance, corrosive or abrasive water or other liquid, lightning or high voltage spikes, or unauthorized persons attempting repairs. Where applicable, your Davey product must only be connected to the voltage shown on the nameplate.

Your Davey One Year Guarantee does not cover freight or any other costs incurred in making a claim. Please retain your receipt as proof of purchase; you **MUST** provide evidence of the date of original purchase when claiming under the Davey One Year Guarantee.

Davey shall not be liable for any loss of profits or any consequential, indirect or special loss, damage or injury of any kind whatsoever arising directly or indirectly from Davey products. This limitation does not apply to any liability of Davey for failure to comply with a consumer guarantee applicable to your Davey product under the Australian or New Zealand legislation and does not affect any rights or remedies that may be available to you under the Australian or New Zealand Consumer Legislation.

In Australia, you are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Should your Davey product require repair or service after the guarantee period; contact your nearest Davey Dealer or phone the Davey Support Centre on the number listed below.

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



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