

microlene[®]

Twin Filter Housing Kits

Installation and Warranty Instructions

Housing kit only models: AS10J & AS20J
Supplied with filters models: KAS10J & KAS20J



DO NOT DISASSEMBLE ANY COMPONENTS UNTIL YOU HAVE FULLY READ THESE INSTRUCTIONS. Unit is supplied fully assembled.

Installation on a flooded suction is recommended. Installation under vacuum is not advised, any damage to persons or associated equipment will not be covered under this guarantee.

Maximum operating pressure is identified overleaf. If the maximum pressure is exceeded or if operating close to this pressure fit a suitable pressure limiting valve before the filters.

WARNING: This system operates under pressure. Under no circumstances should the system be disassembled unless the internal pressure of the unit has been relieved. Failure to observe this warning will expose persons to the possibility of personal injury and may result in damage to the product or other property.

This unit is designed to filter the cold water line at ambient temperatures (4°C to 50°C).

The appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure they do not play with the appliance.

If installing on Australian Municipal water sources, a dual check valve and back flow prevention device must be fitted prior to this system.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

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

Introduction

Congratulations on your purchase of a high quality, Microlene Twin Filter Housing Kit. All components have been designed and manufactured to provide reliable operation.

Model Selection

Davey offer our Microlene Twin Filter Housing Kits with two purchasing options:

KAS Models – Include preselected filters, 20 micron for removal of dust and sediment, followed by 1 micron for finer sediment and cyst removal.

AS Models – Offer the option to select your own filters to suit your specific requirements. The model selected should be based on the maximum water or peak flow rate required.

Specifications

Model	Size	Description	Filters Included	Max. Working Pressure	Max. Temp.	Min. Temp.	Max. System Flow Rate
KAS10J	10" Jumbo	Dual jumbo filter pack, including sediment removal filters	1 x 20 micron pleated filter 1 x 1 micron poly spun filter	850kPa	50°C	4°C	50 lpm to suit single bathroom home
AS10J	10" Jumbo	Dual jumbo housing kit only	Purchased separately	850kPa	50°C	4°C	50 lpm (subject to filter selection)
KAS20J	20" Jumbo	Dual jumbo filter pack, including sediment removal filters	1 x 20 micron pleated filter 1 x 1 micron poly spun filter	620kPa	50°C	4°C	70 lpm to suit two storey home with two bathrooms
AS20J	20" Jumbo	Dual jumbo housing kit only	Purchased separately	620kPa	50°C	4°C	70 lpm (subject to filter selection)

Note : All housing kits above are mounted onto a sturdy frame and supplied with housing spanner and screws.



Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.



Filter must be protected against freezing, which can cause cracking of the filter and water leakage.



If your fluid system is suspected to have high night time pressures or occasional high pressure surges/water hammer (which can be induced by the quick acting valves in equipment such as washing machines and dishwashers) or the pressure is regularly/typically over 100 psi / 680 kPa - then it is recommended that an anti-hammer device (before/after) or a pressure reducing valve be installed before the filter housing.



The rubber O-ring provides the water-tight seal between the cap and the bottom of the housing. It is important that the O-ring be properly seated in the groove below the threads of the housing or a water leak could occur.



Because of the product's limited service life and to prevent costly repairs or possible water damage, we strongly recommend that the bottom of all plastic housings be replaced every TEN YEARS. If the bottom of your housing has been in use for longer than this period, it should be replaced immediately. Date the bottom of any new or replacement housing to indicate the next recommended replacement date.

Special Notes

- For cold water use only.
- Do not install where system will be exposed to direct sunlight.
- Make certain that installation complies with all state and local laws and regulations.
- The contaminants or other substances removed or reduced by the selected cartridge are not necessarily in your water. Ask your local water municipality for a copy of their water analysis, or have your water tested by a reputable water testing lab.
- After prolonged periods of non-use it is recommended that the system be flushed thoroughly. Let water run for 5–6 minutes before using.
- The filter cartridges used with this system have a limited service life. Changes in taste, odour, and/or flow of the water being filtered indicate that the cartridge should be replaced.
- Some harmless bacteria may attack cellulose media cartridges. If your cartridge seems to disintegrate or develops musty or mouldy odour, switch to a synthetic media cartridge or consult the manufacturer.
- Please read all instructions, specifications, and precautions before installing and using this filter.

Installation

Housings are easily installed on cold water lines. The water supply should be turned off at the meter or, preferably, a shut off valve installed before (and after is also recommended) the housing inlet to allow for easy installation/replacement of cartridges.

NOTE: When installing your filter kit allow a minimum of 100mm clearance below housing bowl to enable filter cartridge changes. The filter housing connections are standard 1" connections and can easily be installed on copper, plastic or galvanised pipe by use of the appropriate fittings.



CAUTION: In some countries metal pipework is used as earth. If applicable in your country, housings installed on metal pipelines must have a jumper wire installed from the metal pipe on the inlet to the metal pipe on the outlet. This work must be carried out by a suitably qualified person.



WARNING: Do not over tighten inlet/outlet connections – stripped threads will result.

For installation on galvanized, copper or plastic pipe. Style of fittings may vary from those shown, depending on type and size of pipe.

Take into account other equipment installed nearby. Installation above electrical equipment is not preferable as water loss during maintenance or in the event of a water leak, could damage this equipment.

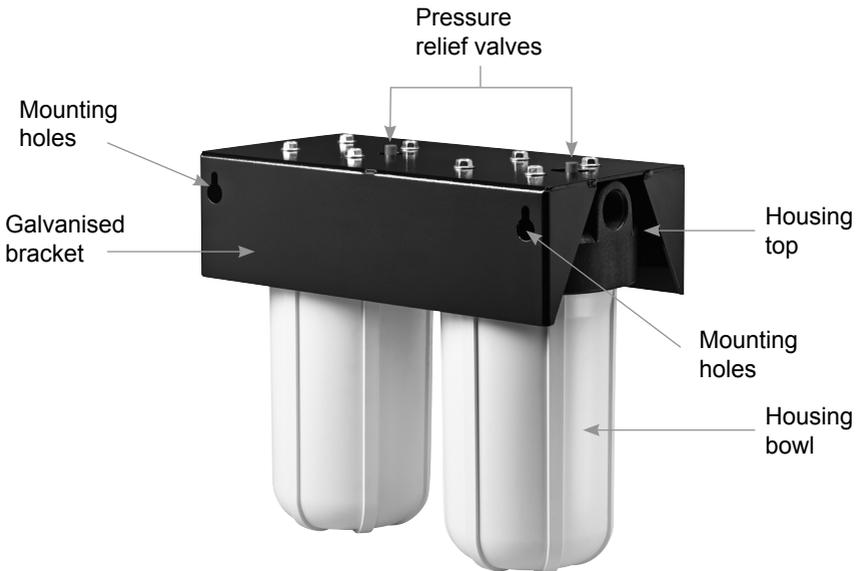
Mounting, Plumbing and Start-up

The unit has 25mm BSP plumbing connections.

The inward side has a 25mm female connector and requires male plumbing.

The outward side has a connector that requires either 25mm female plumbing OR 20mm male plumbing.

- Use the mounting template to mark the position of holes required for mounting. Fix screws to the wall that will allow the kit to be mounted using the key-holes in the back of the unit. Ensure there is more than 100mm space below the filters for maintenance.
- Mount the kit to the wall then tighten the screws to hold it firmly.
- Plumb the pipework into and out of the unit. If connected to a pumping and/or UV system switch on and allow the UV system to warm up for two minutes.
- Turn water on and any tap downstream.
- Check for leaks.



Sediment Cartridge Filter Life

Once the housing is properly installed, a reduction in flow/pressure (to such an extent as to cause inconvenience) will indicate when the cartridge is becoming clogged and needs replacing/cleaning. Sediment cartridges should be replaced/cleaned/sanitised when the water flow has been noticeably reduced/or after 3-6 months - whichever comes first (this is for hygiene reasons).

The stage one **pleated cartridge is washable**, in mild detergent. Rinse thoroughly and replace. If damage to the pleats is visible, it should be replaced.

The stage two **poly spun is not washable** and requires replacement every 3-6 months depending on water quality.

It is always good practice to keep a spare set of filters on hand.

Activated Carbon Cartridge Filter Life – available as an added option

Fit into the stage two filter housing. Readily available through your Davey dealer, these should be replaced when they no longer remove taste or odour from the water, when blocked, or after 6 months - whichever comes first (the latter recommendation is for reasons of hygiene - Bacteriostatic cartridges can be used up to a maximum of 12 months).



NOTE: Actual filtration/purification life of cartridge can vary with the condition of incoming water.



WARNING: DISINFECTION MAY ALSO BE REQUIRED ON UNTREATED WATER SUPPLIES. We recommend Steriflo Ultraviolet Disinfection Systems.

Filter Cartridge Replacement

A. (1) Turn off water supply to filter. **(2)** Depress red pressure-relief button to release trapped air.

B. Place a bucket or container under the housing. Where a drain valve is installed at bottom of housing, open the valve and allow water to drain into bucket or container.

C. Remove bottom of housing by turning clockwise.

NOTE: If turning off water supply to the filter, this will also turn off water to the rest of the home. Be sure to fill a bucket of water first to allow you to clean the housing after it has been removed.

D. Locate and remove large O-ring **(3)**, wipe clean of lubricant and set aside.

Discard used cartridge **(4)**. Rinse out bottom of housing and fill 1/3 full with water. Add 2 tablespoons of bleach and scrub cap and bottom of housing with non-abrasive sponge or cloth. Rinse thoroughly.

Lubricate O-ring **(3)** with clean silicone grease. Insert O-ring back into groove and smooth into place with finger.

NOTE: This step is important to ensure proper housing seal. Make sure O-ring is seated level in the groove.

Insert new cartridge **(4)** over standpipe in bottom of housing.

E. (5) Screw bottom of housing onto the cap and hand-tighten. Do not over-tighten. Make certain cap standpipe slips into cartridge. Close drain valve where fitted.

(6) Turn on water supply slowly to allow filter to fill with water. **(7)** Depress red pressure-relief button (if present) to release trapped air. Flush cartridge for 5 minutes before use. Flush again for 10 minutes before using water. Check for leaks before leaving installation.

Troubleshooting

1. Leak between cap and bottom of filter housing:

- a. Turn off water supply and press the red pressure-relief button. Remove bottom of housing.
- b. Clean O-ring and O-ring groove (located directly beneath threads of housing). Lubricate O-ring with clean silicone grease and replace securely into groove. Screw bottom of housing onto cap and hand-tighten. **Do not over-tighten.**
- c. Replace O-ring, should leak persist. O-ring can deteriorate over time and periodic replacement is required.

2. Leak on inlet/outlet connections:

- a. Turn off water supply. For brass fittings, tighten nut snugly about half of a turn with a wrench.
- b. Turn on water supply. If leaks persist, or if there are other leaks on the system, turn off water supply. Contact your nearest Davey dealer for advice.

Maintenance

Filter housings must be maintained according to manufacturer's instructions, including ongoing replacement of the filter cartridge. Failure to do so will result in poor water pressure and poor filtration results.

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

Your Guarantee naturally does not cover normal wear or tear, replacement of product consumables, more specifically, water filters, 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 unauthorised persons attempting repairs. Where applicable, your Davey product must only be connected to the voltage shown on the nameplate.

Your 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 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 Microlene products. This limitation does not apply to any liability of Davey for failure to comply with a consumer guarantee applicable to your 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 product require repair or service after the guarantee period; contact your nearest Dealer or phone the our Support Centre on the number listed below.

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



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P/N 402343-1

* Installation and operating instructions are included with the product when purchased new. They may also be found on our website.