

microlene[®]

Twin Filter Housing Kits Installation and Warranty Instructions

Housing kit only models: AS10A, AS10J & AS20J
Supplied with filters models:
Rainwater Solution – KAS10J and KAS20J
Mains Water Solution – KAS10JM and KAS20JM



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 (0°C to 40°C) line at ambient temperatures (0°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.

**FOR THE CORRECT OPERATING AND MAINTENANCE OF THIS PRODUCT,
IT IS ESSENTIAL TO OBSERVE THE MANUFACTURER'S INSTRUCTIONS**

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#J Models – Include preselected filters for treating harvested water, 20 micron for removal of dust and sediment, followed by 1 micron for finer sediment and cyst removal.

KAS#JM Models – Include a preselected 5 micron filter for light sediment removal and a 5 Micron Carbon Cartridge for taste and odour.

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	Connection Sizes Inlet & Outlet	Max. Nominated working pressure	Min – Max Operating Temp.	Min – Max Ambient Temp.	Suggested System Max. Flow Rate
AS10A	10" Standard	Dual Standard housing kit only	Purchase Separately	20mm (3/4") BSP Female	0 - 880kPa	0° - 40°C	0° - 50°C	40 lpm (subject to filter selection) to suit small unit, bungalow or single point of use
KAS10J	10" Jumbo	Dual jumbo filter pack, including sediment removal filters	1 x 20 Micron poly pleated filter (20PP10J) & 1 x 1 Micron Poly Spun filter (1PS10J)	25mm (1") BSP Female	0 - 880kPa	0° - 40°C	0° - 50°C	57 lpm to suit single bathroom home
KAS10JM	10" Jumbo	Dual jumbo filter pack including sediment removal filter and carbon filter	1 x 5 Micron Poly Spun filter (5PS10J) and 5 micron Carbon filter.	25mm (1") BSP Female	0 - 880kPa	0° - 40°C	0° - 50°C	57 lpm to suit single bathroom home
AS10J	10" Jumbo	Dual jumbo housing kit only	Purchased separately	25mm (1") BSP Female	0 - 880kPa	0° - 40°C	0° - 50°C	Max flow of 125 lpm (subject to filter selection which generally lands close to 57 lpm)
KAS20J	20" Jumbo	Dual jumbo filter pack, including sediment removal filters	1 x 20 Micron poly pleated filter (20PP20J) & 1 x 1 Micron Poly Spun filter (1PS20J)	25mm (1") BSP Female	0 - 880kPa	0° - 40°C	0° - 50°C	79 lpm to suit two storey home with two bathrooms
KAS20JM	20" Jumbo	Dual jumbo filter pack including sediment removal filter and carbon filter	1 x 5 Micron Poly Spun filter (5PS20J) and 5 micron Carbon filter.	25mm (1") BSP Female	0 - 880kPa	0° - 40°C	0° - 50°C	79 lpm to suit two storey home with two bathrooms
AS20J	20" Jumbo	Dual jumbo housing kit only	Purchased separately	25mm (1") BSP Female	0 - 880kPa	0° - 40°C	0° - 50°C	Max flow of 155 lpm (subject to filter selection which generally lands close to 79 lpm)

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

- Inlet and outlet are marked on the top of the Housing Top.
- 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 3/4" BSP (on 10" Standard) and 1" BSP (on 10" Jumbo and 20" Jumbo models) 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.

Pressure control and backflow should be supplied and installed by a licensed practitioner.

When installed in Australia or New Zealand installation compliance with AS/NZS 3500.1 on all potable water supplies should be observed.

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.

Alternate Direction of Flow

While the "out of box" direction of flow is from left to right in the twin housing assembly, this can be changed if there are plumbing limitations.

The twin cartridge housings and the metal mounting bracket are joined by eight setscrews.

1. Remove all eight setscrews.
2. Rotate mounting bracket by 180°.
3. Refit setscrews.

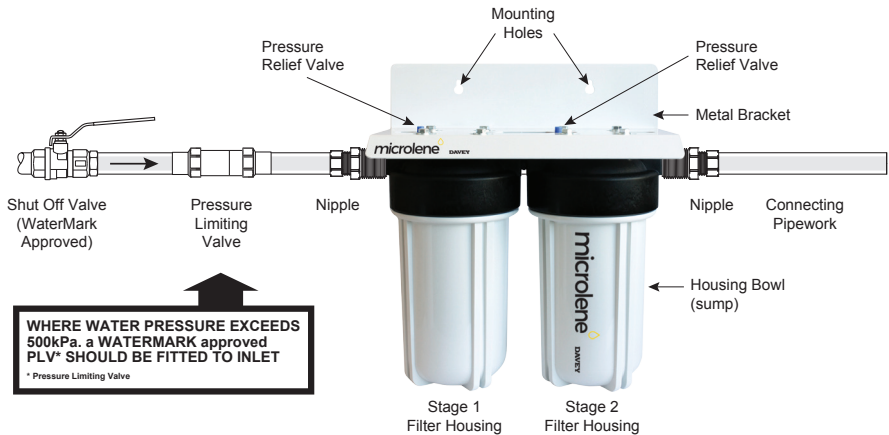
Direction of flow will now be right to left. This can be confirmed by looking at the markings on the top of the Housing Top.

Mounting, Plumbing and Start-up

The 10" Standard unit (AS10A) has 20mm (3/4") BSP female plumbing connections requiring 20mm (3/4") BSP male plumbing.

The 10" Jumbo and 20" Jumbo models (AS10J, KAS10J, KAS10JM, AS20J, KAS20J and KAS20JM) have 25mm (1") BSP female plumbing connections requiring 25mm (1") BSP male plumbing.

- Hold the unit in the desired mounting position to make a mark through mounting holes on the surface you are mounting to.
- Remove the kit from the marking position and place down carefully.
- 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 future 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.



NOTE:

Installation of a backflow valve should be in compliance with all local water authority regulations and in accordance with AS/NZS 3500.1 and complying with AS/NZS 2845.1.

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.



To maintain performance, Australian Standards and warranty, cartridges and replacement cartridges must be WaterMark certified. Contact Microlene for further advice.

Filter Cartridge Replacement

- A. Turn off water supply to filter. Depress blue pressure-relief button to release trapped air.
- B. Place a bucket or container under the housing if needing to protect surface underneath from any spilled water.
- C. Remove bottom of filter housing by turning clockwise (if required use spanner included with product upon initial purchase).

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 on the top of the filter housing base, wipe clean of lubricant and set aside.

Discard used cartridge. 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 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 into bottom of housing.

- E. Screw bottom of housing onto the cap and hand-tighten. Do not over-tighten. Turn on water supply slowly to allow filter to fill with water. Depress blue pressure-relief buttons 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. If leaks present, tighten with spanner provided.

Troubleshooting

1. Leak between cap and bottom of filter housing:

- a. Turn off water supply and press the blue 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. Do not use petroleum based lubricant. 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.

Davey Warranty

Davey Water Products Pty Ltd (Davey) warrants all products sold will be (under normal use and service) free of defects in material and workmanship for a minimum period of one (1) year from the date of original purchase by the customer as marked on the invoice, for specific warranty periods for all Davey products visit daveywater.com.

This warranty does not cover normal wear and tear or apply to a product that has:

- been subject to misuse, neglect, negligence, damage or accident
- been used, operated or maintained other than in accordance with Davey's instructions
- not been installed in accordance with the Installation Instructions or by suitably qualified personnel
- been modified or altered from original specifications or in any way not approved by Davey
- had repairs attempted or made by other than Davey or its authorised dealers
- been subject to abnormal conditions such as incorrect voltage supply, lightning or high voltage spikes, or damages from electrolytic action, cavitation, sand, corrosive, saline or abrasive liquids,

The Davey warranty does not cover replacement of any product consumables or defects in products and components that have been supplied to Davey by third parties (however Davey will provide reasonable assistance to obtain the benefit of any third-party warranty).

To make a warranty claim:

- If the product is suspected of being defective, stop using it and contact the original place of purchase. Alternatively, phone Davey Customer Service or send a letter to Davey as per the contact details below
- Provide evidence or proof of date of original purchase
- If requested, return the product and/or provide further information with respect to the claim. Returning the product to the place of purchase is at your cost and is your responsibility.
- The warranty claim will be assessed by Davey on the basis of their product knowledge and reasonable judgement and will be accepted if:
 - a relevant defect is found
 - the warranty claim is made during the relevant warranty period; and
 - none of the excluded conditions listed above apply
- The customer will be notified of the warranty decision in writing and if found to be invalid the customer must organise collection of the product at their expense or authorise its disposal.

If the claim is found to be valid Davey will, at its option, repair or replace the product free of charge.

The Davey warranty is in addition to rights provided by local consumer law. You are entitled to a replacement or refund for a major failure and 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.

For any internet connected products the consumer is responsible for ensuring a stable internet connection. In the event of a network failure the consumer will need to address the concern with the service provider. Use of an App is not a substitute for the User's own vigilance in ensuring the product is working to expectation. Use of a Smart Product App is at the User's own risk. To the fullest extent permitted by law Davey disclaims any warranties regarding the accuracy, completeness or reliability of App data. Davey is not responsible for any direct or indirect loss, damage or costs to the User arising from its reliance on internet connectivity. The User indemnifies Davey against any claims or legal actions from them or others relying on internet connectivity or App data may bring in this regard.

Products presented for repair may be replaced by refurbished products of the same type rather than being repaired. Refurbished parts may be used to repair the products. The repair of your products may result in the loss of any user-generated data. Please ensure that you have made a copy of any data saved on your products.

To the fullest extent permitted by law or statute, 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 local laws and does not affect any rights or remedies that may be available to you under local laws.

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

DAVEY

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