

P/N 402620

© Davey is a trademark of Davey Water Products Pty Ltd. © Davey Water Products Pty Ltd 2019.

AUSTRALIA

Head Office
6 Lakeview Drive,
Scoresby, Australia 3179
Ph: 1300 232 839
Fax: 1300 369 119
Email: sales@davey.com.au
Website: davey.com.au

EUROPE

ZAC des Gaulhes
355 Avenue Henri Schneider
69330 Meyzieu, France
Ph: +33 (0) 4 72 13 95 07
Fax: +33 (0) 4 72 33 64 57
Email: info@daveyurope.eu
Website: daveyurope.eu

NEW ZEALAND

7 Rockridge Avenue,
Penrose, Auckland 1061
Ph: 0800 654 333
Fax: 0800 654 334
Email: sales@dwp.co.nz
Website: davey.nz.co.nz

NORTH AMERICA

Ph: +1 866 328 7867
Email: export@davey.com.au
Website: daveyusa.com

INTERNATIONAL

Australian Head Office
Ph: +613 9730 9124
Fax: +613 9753 4248
Email: export@davey.com.au
Website: davey.com.au

Davey Warranty

Davey Water Products come with guarantees that cannot be excluded under the local country 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.

Davey Water Products Pty Ltd (Davey) of 6 Lakeview Drive Scoresby VIC 3179 provides the following warranty in relation to this product. Davey warrants that, subject to the exclusions and limitations below, the product will be free from defects in material and workmanship for a period of 24 months from the date of purchase (warranty period). If a defect appears in the product before the end of the warranty period and Davey finds the product to be defective in materials or workmanship, Davey will, in its sole discretion, either:

1. replace or repair the product or the defective part of the product free of charge; or
2. arrange for the product or the defective part of the product to be repaired or replaced by a qualified repairer free of charge.

Davey reserves the right to replace defective parts of the product with parts or components of similar quality, grade and composition where an identical part or component is not available. Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired.

Warranty claims:

1. If a fault covered by the warranty occurs, Davey suggests, in the first instance, that you contact the Davey Dealer from whom you purchased the product. Alternatively, you can: phone the Davey Customer Service line on 1300 367 866 in Australia, or 0800 654 333 in New Zealand; send a written letter to Davey at the address listed above; or email sales@davey.com.au.
2. Any warranty claim must be accompanied by proof of purchase and details of the alleged defect.
3. 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 product repaired, obtain a replacement or a refund.
4. This warranty is limited to defects in the materials or workmanship in the product and does not cover expendable parts or the replacement of parts due to fair wear and tear.

Exclusions:

The warranty will not apply where:

1. The Product has been modified, repaired or serviced by someone other than Davey, or an authorised repairer.
2. Davey cannot establish any fault in the product after testing.
3. The product has been used other than for the purpose for which it was designed.
4. The product has been subject to abnormal conditions, whether of temperature, water, humidity, pressure, stress or similar.
5. The purchaser has used or fitted non-genuine, or non-approved parts and accessories.
6. The Product defect has arisen due to abuse, misuse, neglect or accident.
7. The Product defect has arisen due to the purchaser's failure to properly maintain or use the product.
8. The damage has been caused by the use of chemicals and detergents not approved by Davey.

You should your Davey product require repair or service after the warranty period, please contact your nearest Davey Dealer, or phone or email the Davey Customer Service Centre. For a complete list of Davey Dealers please visit our website.

Your Davey Cartridge Filter

Congratulations on your purchase of a quality product from the Davey range of Pool and Spa Equipment. You are assured of many years of reliable and efficient performance from your Davey Filter backed by Davey's 5 year tank guarantee.*

Davey Crystal Clear™ Cartridge Filters have been specifically designed for the filtration of spa and swimming pool water. They should not be used for any other purpose without first consulting your Davey Dealer or Davey Customer Service Centre.

Davey Cartridge Filters provide economy, high performance and convenience in a well-designed pressure filter. The polyester element can be removed quickly for rinse cleaning without water loss. Davey Cartridge Filters feature large filter areas which ensure even water distribution, peak filtration performance and longer filter cycles.

The corrosion-resistant construction of Davey Cartridge Filters provides long-life and durability. Davey Cartridge Filters are capacity matched with Davey pool pumps forming a total pool filtration system that lasts and lasts. Davey Cartridge Filters are also very suitable for use with other pool pumps. Take care to match the pump and filter capacities to gain maximum performance and efficiency.

The Sparkling Clear Water Difference

Cartridge filtration is an effective trouble-free proven method of filtration. Pool water enters the filter and passes through a polyester element cartridge. Suspended particles are trapped and the water is returned to the pool. As the build-up of dirt in the element increases, so the water pressure rises and the flow decreases. When the pressure reaches an unacceptable level, the element must be removed and cleaned. (Spray washing with a common garden hose is generally sufficient).

* Refer to guarantee statement for full details

Installation and Operating Instructions Location

The filter should be placed in its permanent location, preferably as close to the pool as practicable. Position the filter tank and pump on a level concrete slab or similar base. Allow sufficient space around the filter for routine maintenance and provide for adequate ventilation and drainage.

Place the pump in position on the slab and locate the filter alongside with the appropriate pump inlet connection oriented towards the pump. Refer to the specification section for the minimum clearance measurements required for each model.

Weather Protection

Davey Cartridge Filters are constructed of corrosion resistant materials. However, to ensure years of reliable performance, it is recommended that the filtration system is adequately protected from the weather.

Assembly

Assemble the pressure gauge to the filter lid using Teflon tape on the male thread. Do not over-tighten.

Pipe Connections

Piping should be independently supported and not impose heavy loads on the filter or pump. Use 40mm or 50mm pipe for pump and pool return lines. 50mm should always be used if length of piping is over 15m.

If the pump and filter are located below pool water level, it is necessary to fit isolating valves in the pipe between the pump and the pool, and in the return line from the filter to the pool.

Barrel unions need to be hand tightened on. No sealant, glues or silicones are required.

1. Pump to the Filter

Davey Cartridge Filters are equipped with two inlet ports marked 'INLET'. Select the inlet port most suitable for the installation and plug the other inlet port with the blanking cap provided. Using quick connect couplings, connect the pool pump delivery piping to the selected inlet port. Tighten by hand only. Ensure the oring on the fitting is clean, lubricated with oring lubricant and in the correct position.

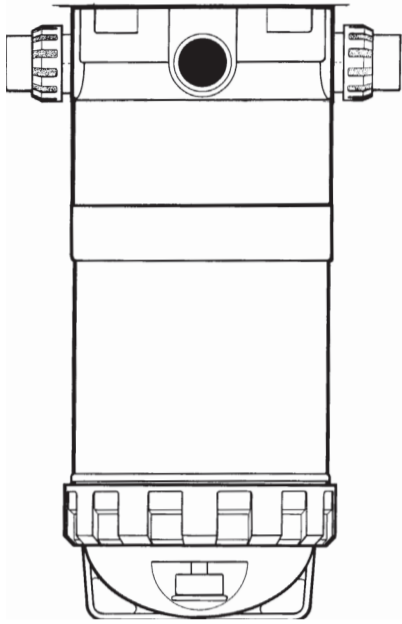
2. Filter to Pool Return

Using quick connect couplings, connect the pool return piping to the filter fitting marked 'OUTLET'. Tighten the fitting by hand only. Ensure the oring on the fitting is clean, lubricated with oring lubricant and in the correct position.

The filter base is provided with four mounting holes to enable it to be secured, if required.

The installation of this product should be carried out by a person knowledgeable in swimming pool plumbing requirements following the installation instructions provided in this manual. Please pass these instructions on to the owner of this equipment.

INTRODUCTION



Installation & Operating Instructions

Models: 39050, 39075, 39100, 39150, 39175 & 39225

Davey Crystal Clear™ Cartridge Filters

Davey Water Products Pty Ltd



Filter Operation

1. Make sure the pump is primed according to manufacturer's directions.
2. Be sure all valves are open on suction and discharge lines. Ensure the air bleed valve on the filter lid is open and the lid lock ring is in place and secure.
3. Start the pump. Close the air bleed valve when water is expelled.
4. To determine the correct operating conditions with a clean filter, check that the pressure gauge reading is 80kPa or below.
5. Record the pressure gauge reading or mark the needle position on the face of the pressure gauge.
6. Operate the filter for a sufficient time to circulate the total pool water volume daily. The filter should also be operated at all times the pool is in use and for about one hour afterwards. During winter, the running time may be reduced. Filter operating requirements will vary for spa applications, depending upon the system design, type and size of spa. Consult your builder or spa supplier.
7. When the pressure gauge reading is 50 - 70kPa higher than the 'clean filter' reading as in (4) above, it is time to clean the element/s. (See "Cartridge cleaning procedure")

Cartridge Cleaning Procedure

When the filter gauge reading is 50 - 70kPa above the clean filter gauge reading, cleaning the element cartridge is required. To perform the cleaning procedure :

1. Switch off the pump.
2. Close isolating valves on suction and discharge lines where fitted.
3. Open the air bleed valve on the filter lid, unscrew the lock ring and remove the filter lid.
4. Lift the element/s out.
5. In most cases the element can be easily cleaned with a garden hose, using good velocity sprayed directly on the pleats.



NOTE: Algae, calcium, clay, sun tan oil and body oils can form a coating on the element which may not be easily removed with normal hosing. These materials can be removed by soaking the element in a de-greaser and/or de-scaler. Your local Davey Dealer will be able to recommend suitable products.



Failure to undertake regular maintenance may cause damage not covered by warranty.

Removal of the Filter



Danger HIGH PRESSURE. Relieve internal pressure before adjusting clamps or opening filter.

Should it be necessary to remove the filter, the following procedure should be followed :

1. Switch off the pump and remove the plug from the power point.
2. Open the air bleed valve on the filter lid.
3. Close isolating valves where fitted.
4. Remove: - piping connection to the pump
- piping connection to the pool return
5. Remove filter.



NOTE: When making any enquiries about your Davey Filtration Equipment, be certain to quote the Model Number from the nameplate on the equipment.



To avoid explosion and possible severe or fatal injury, filter pressure must not exceed 280kPa. Do not test filter with compressed air. Check that all clamps and fasteners are in good condition and are firmly secured before pressurising system. Never adjust clamps or fasteners while filter is pressurised.



DANGER - Hazardous suction. Do not block water entry into filtration system with any part of your body as the pressure can trap hair or body parts, causing severe injury or death. Do not block suction. Turn off pump immediately if someone becomes trapped.



Caution! Do not add chemicals directly to the pool skimmer. Adding undiluted chemicals may damage pump and filter and void warranty.



Small children using the pool or spa must ALWAYS have close adult supervision.



Routine Maintenance tasks - to maximise the life of your pool equipment & personal safety, use this checklist once a week. Turn pump off first.

- a. Make sure that any pressure gauges are in working condition and the operating pressure is within limits as specified on the product.
- b. Make sure that each suction inlet, and main drain has a cover that is securely attached and in safe working condition.
- c. Make sure that all skimmer covers are securely attached and in safe working condition. These should be replaced every 3 to 4 years.
- d. Remove any obstructions or debris from the main drain cover.
- e. Ensure the skimmer baskets and the pump hair and lint pots are free of leaves and debris at least once a week.
- f. Remove obstructions and combustibles from around the pump motor.
- g. Make sure all wiring connections are clean and that all wiring and electrical equipment is in good condition. Damaged wiring must be repaired or replaced by a qualified electrician as soon as damage is discovered.
- h. Check water balance and sanitiser levels at your local pool shop.

Cartridge Re-Assembly Instructions

1. Install the cartridge/s & centre pipe so that it is located in the bottom spigot.
2. Ensure the filter lid oring is clean, lubricated with oring lubricant and located in the bottom groove of the lid.
3. Replace the lid and press firmly in place. Screw down the lock ring, hand tight is sufficient - **DO NOT OVERTIGHTEN.**
4. Make sure the pump is primed according to manufacturer's directions.
5. Ensure all valves are open on suction and discharge lines.
6. Start the pump.
7. Close the air bleed valve when water is expelled.

Water Quality

Maintaining balanced water chemistry is important to the life of your pool pump. This pump is designed to be used with Pool & Spa water, balanced in accordance with Langlier Saturation Index, with a pH level of between 7.2 and 7.8 and is regularly treated with a chlorine sanitising agent with the level not exceeding 3000PPM.

Please consult your local pool shop regularly to have your water tested.

Filter Care

The Davey Cartridge Filter is the heart of the pool equipment installation. Proper care and maintenance will add many years of service and enjoyment to your pool. Keep the exterior of the filter clean using a mild detergent and water.

Trouble Shooting

Reduced flow of water to the pool generally indicates the filter is ready to be cleaned. Check the filter pressure gauge. (See section on 'Filter Operation'). If cartridge cleaning is required, perform the steps described earlier in 'Cartridge Cleaning Procedure'. If there is still reduced flow after cleaning, check for blocked or plugged lines which could restrict the volume of water entering the pool.

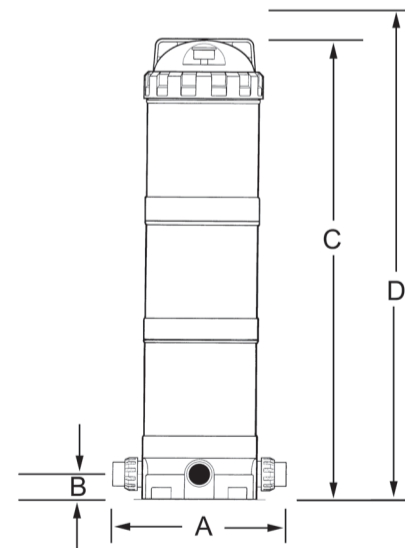
In the event of installation or operation difficulties with your Davey Filtration Equipment, contact the supplier from whom the filter was purchased or your nearest Authorised Davey Pool Equipment Service Centre. For assistance in locating your nearest dealer contact the Davey Customer Service Centre.



WARNING! Pump suction is hazardous and can trap and drown or disembowel bathers. Do not block suction. Do not use or operate swimming pools, spas or spa baths if a suction cover is broken, missing or loose. Two suction covers and inlets must be provided into every pump to avoid suction entrapment.

Specifications

CLEARANCE NEEDED TO REMOVE CARTRIDGE



Technical Data

Model	Max Flow Rate (lpm)	6 Hour Turnover	8 Hour Turnover	Max Operating Pressure (kPa)	Max Operating Temp (°C)	Filtration Area (sq metres)	Filtration Area (sq feet)
39050	205	73,800	98,400	280	50	4.67	50
39075	270	97,200	129,600	280	50	7.08	75
39100	340	122,400	163,200	280	50	9.43	100
39150	450	162,000	216,000	280	50	14.16	150
39175	540	194,000	259,200	280	50	16.50	175
39225	670	241,200	321,200	280	50	21.10	225

Dimensions (mm)

Model	A	B	C	D
39050	410	60	540	875
39075	410	60	540	875
39100	410	60	635	1000
39150	410	60	820	1360
39175	410	60	905	1550
39225	410	60	1110	1950