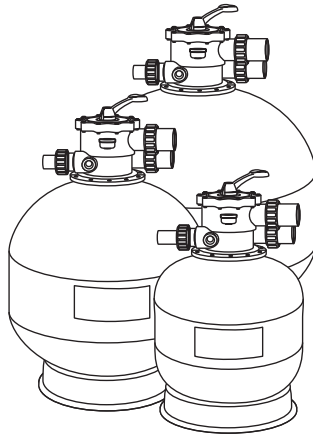




Media Filters

HMF-2140, HMF-2540, HMF-2550,
HMF-2850, HMF-3250

INSTALLATION & OWNER'S MANUAL



IMPORTANT
Please read carefully



CAUTIONS AND WARNINGS:

Failure to follow these instructions and comply with all applicable codes may cause serious bodily injury and/or property damage.

This filter operates under high pressure. When any part of the circulating system (e.g., clamp, pump, filter, valves, etc.) is serviced, air can enter the system and become pressurised. Pressurised air can cause the lid or valve to be blown off which can result in severe injury, death, or property damage.

Turn pump off before changing valve position. To prevent damage to the pump and for proper operation of the system, clean pump strainer and skimmer baskets regularly.

Do not unscrew screws of flange clamp while pump is running.

Under low temperature shut off condition, it is strongly recommend to turn to Winterise position and discharge all the water inside filter through the bottom drain.

Contents

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INSTALLATION

- 1** The filter should be placed on a level concrete slab, very firm ground, or equivalent. Position the filter so that the piping connections, control valve are convenient and accessible for operation and service.


Handy Tip!

A minimum clearance of 400mm above the multiport valve is required to permit easy removal.

- 2** Filtration media is loaded through the top opening of the filter.
 - a) Loosen the flange clamp and remove filter control valve (if previously installed).
 - b) Cap internal pipe with the plastic cap to prevent media from entering.
 - c) We recommend filling the tank approximately 1/3 of the way with water to provide a cushion effect when the filtration media is poured in. This helps protect the under-drain laterals from excessive shock.
 - d) Carefully pour in the correct amount and grade of filtration media (making sure the centre pipe remains centred in the opening). The surface of the filtration media should be level and come to about the middle of the filter tank. Remove the plastic cap from the internal pipe.
- 3** Assemble filter control valve into the filter tank.
 - a) Insert filter control valve (with O-Ring in place) into the tank neck taking care that the centre pipe slips into the bottom of the valve.
 - b) Place the 2 plastic clamps around the valve and tank flange, tighten just enough so the valve may be rotated on the tank for final positioning.
 - c) Carefully screw pressure gauge (with O-Ring in place) into the tapped hole in the valve body (DO NOT OVER TIGHTEN).
 - d) Connect pump to control valve opening marked PUMP. After connections are made, tighten valve flange clamps with screwdriver, tapping around clamp with screwdriver handle to help seat valve flange clamp.


BEFORE STARTING THE PUMP

- 1** Connect return to pool pipe to control valve opening marked RETURN and complete other necessary plumbing connections, suction lines to pump, waste, etc.
- 2** Make electrical connections to pump per pump instructions.
- 3** To prevent water leakage, be sure all pipe connections are tight.

 **DO NOT OVERTIGHTEN** - The fittings and multiport valve on this product are constructed of ABS. Some PVC jointing compounds are incompatible with ABS. Check compound suitability before use.

A non-return valve is required in between the pump and filter:

- > On installations where the waste line is more than 3 metres below pool water level and more than 12 metres in length, a vacuum break valve must be fitted in the waste line close to the filter.
- > If an auxiliary pump is installed in line downstream of the filter, it should be protected against causing negative pressure in the filter tank. A flow or pressure switch which only enables the auxiliary pump to run when the main filter pump is running will achieve this.
- > 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 skimmer box and in the return pipe from the multiport valve to the pool. This prevents water draining from the pool during maintenance.

 **FAILURE TO COMPLY** with the above cautions may result in filter damage not covered by the warranty.

FIRST TIME START UP

- 1** Make sure the correct amount of filter media is in the tank and that all connections have been made and are secured.
- 2** Depress control valve handle and rotate to BACKWASH position. (To prevent damage to control valve seal, always depress handle before turning).
- 3** Prime and start pump according to pump instructions (be sure all suction and return lines are open), allowing the filter tank to fill with water. Once water is flowing out of the waste line, run the pump for at least 1 minute. The initial backwashing of the filter is recommended to remove any impurities or fine particles in the filter media.
- 4** Turn the pump off and set valve to RINSE position. Start pump and operate until water in sight glass is clear, about 30 seconds to 1 minute. Turn the pump off and set valve to FILTER position and restart pump. The filter is now operating in the normal filter mode, filtering dirt particles from the pool water.
- 5** Adjust pool suction and return valves to achieve desired flow. Check system and filter for water leaks and tighten connections, bolts, nuts, as required.
- 6** Note the initial pressure gauge reading when the filter is clean. (It will vary from pool to pool depending upon the pump and general piping system.) As the filter removes dirt and impurities from the pool water, the accumulation in the filter will cause the pressure to rise and flow to diminish. When the pressure gauge reading is 1.5 bar, higher than the initial “clean” pressure you noted, it is time to backwash the filter (see BACKWASH under filter and control valve functions).

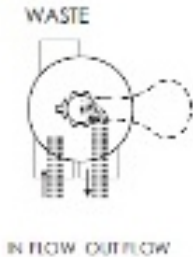
NOTE: During initial clean-up of the pool water, it may be necessary to backwash frequently due to the unusually heavy initial dirt load in the water.

FUNCTIONS OF VALVE POSITIONS

The flow of water through the filter is controlled by the multiport valve on the top of the filter tank. The handle on top of the valve can be moved to any one of six positions, which have the following functions:

VALVE POSITION	FUNCTION
Filter	Normal filtration and vacuuming
Backwash	Cleaning filter by reversing the flow
Rinse	Used after backwash to flush dirt from valve
Waste	Bypasses filter, used for vacuuming to waste or lowering water level
Recirculate	Bypasses filter for circulating water to pool
Closed	Shuts off all flow to filter or pool

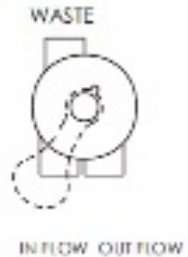
FILTER



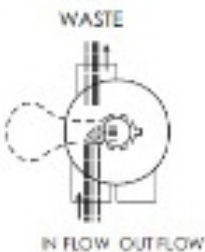
WASTE



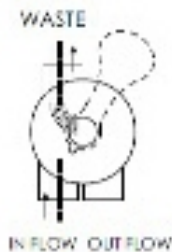
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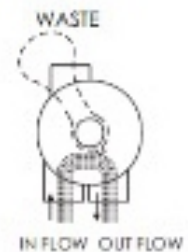
BACKWASH



RINSE



RECIRCULATE



GENERAL

To service valve (Stop pump, close gate valve in suction and discharge before proceeding):

- a) Set handle in filter position.
- b) Remove cover screws.
- c) Lift cover and key assembly out.

TO ASSEMBLE

- 1** Reinstall top assembly to control valve, ensure rinse cycle is in-line with multiport valve inlet pipe that is labeled "pump".
- 2** Position cover O'Ring.
- 3** Secure assembly to body with cover screws. Tighten cover screws evenly and alternately. Do not over-tighten.

BACKWASHING

Henden recommends completing a backwash once a month. To backwash, follow the steps below:

- 1** Shut off the pump. Ensure you disconnect any automatic vacuum cleaner.
- 2** Depress and move the handle to backwash.
- 3** Start the pump and run until the water appears clean through the sight glass (this will take two or three minutes).
- 4** Shut off the pump and turn the valve handle to RINSE.
- 5** Start the pump and run for approximately one minute.
- 6** Shut off the pump and turn the valve handle to FILTER.
- 7** Start the pump; a new filter cycle has now begun.
- 8** If a backwash cycle does not reduce the operating pressure of the filter, the media will need to be changed.

CHANGING MEDIA

Henden recommends changing the media in the media tank every 10-15 years as required.

If your filter is struggling with water flow on the filter setting but not on the recirculate setting this is usually the indicator that it needs to be changed. Always try running a degreaser through the filter first to see if this fixes the issue. Regular degreaser treatments will prolong the life of the media.

SPECIFICATIONS

Specifications

MODEL	HENDEN MEDIA FILTER 2140	HENDEN MEDIA FILTER 2450	HENDEN MEDIA FILTER 2550	HENDEN MEDIA FILTER 2850	HENDEN MEDIA FILTER 3250
Max Temperature	43°C	43°C	43°C	43°C	43°C
Max Pressure	250kPa(36psi)	250kPa(36psi)	250kPa(36psi)	250kPa(36psi)	250kPa(36psi)
Max Testing Pressure	400kPa (58psi)	400kPa (58psi)	400kPa (58psi)	400kPa (58psi)	400kPa (58psi)
Size of media	0.8mm	0.8mm	0.8mm	0.8mm	0.8mm
Filter Area m2	0.22 m2	0.32 m2	0.32 m2	0.41 m2	0.50 m2
Height mm	845mm	950mm	980mm	1095mm	1200mm
Tank Diameter mm	535mm	635mm	635mm	723mm	800mm
Design Flow m3/h	11.10 m3/h	15.6 m3/h	16.32 m3/h	20.16 m3/h	24.90 m3/h
Recommended Media kg	85kg	145kg	145kg	215kg	355kg
Valve connections inch	1.5inch	1.5inch	2inch	2inch	2inch

Troubleshooting

PROBLEM	REMEDY
Reduced water flow returning to pool.	Check pressure gauge, if high, perform a backwash.
Reduced water flow after backwash.	Check for blocked or plugged lines which could restrict flow.
Large quantities of media returning to pool.	One of the lower laterals may be damaged. Remove media and replace broken laterals.
Pump is operating noisily.	Check for air leaks, blocked pipes, or obstruction in pump basket. (Refer pump manual).
Media filter operating noisily.	Water flow through media filter and multiport valve is too high. The media level is too high, or the media may not be level.
Filter is struggling with water flow on the filter setting but not on the recirculate setting	Run a degreaser through the filter first to see if this fixes the issue. Regular degreaser treatments will prolong the life of the media.

WARRANTY

Henden Media Filter Warranty

Reece Australia Product Quality Guarantee

You have purchased a quality product from Reece Australia Pty Ltd ABN 84 004 097 090 ("Reece Australia").

Warranty Terms & Conditions

These Warranty Terms and Conditions ("Warranty") constitute your agreement with Reece Australia and will apply to your service order. The benefits given by this Warranty are in addition to all consumer guarantees and other rights and remedies prescribed by the Australian Consumer Law and any other applicable laws.

Our goods come with guarantees that cannot be excluded under the Australian 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.

In addition to your rights and remedies under the Australian Consumer Law, Reece Australia provides consumers with a Warranty which covers faults in product construction, materials and assembly in the following applicable warranty periods:

RESIDENTIAL APPLICATION*	WARRANTY		
	Tank	Internals & Gauge	Labour
Henden Media Filter 2140	10 Year	1 Year	1 Year
Henden Media Filter 2540	10 Year	1 Year	1 Year
Henden Media Filter 2550	10 Year	1 Year	1 Year
Henden Media Filter 2850	10 Year	1 Year	1 Year
Henden Media Filter 3250	10 Year	1 Year	1 Year

*Residential Application defined as: Any structure containing water to a depth greater than 300 mm and used primarily for swimming, wading, paddling or the like, including a bathing or wading pool, or spa pool.

*Commercial Application defined as any other use of the product other than defined in the domestic application is considered to be a commercial application.

WARRANTY

Warranty Periods

The Warranty Periods commence from the date the customer purchased the product from Reece Australia. Within the Warranty Periods, products which are found upon inspection by an authorised Reece Australia representative or an associated licenced technician supplied by either Reece Australia or a relevant supplier ("Service Agent") to be defective in construction, material, or assembly, will be repaired or exchanged with an equivalent product at no cost to the customer.

Parts of products found upon inspection by a Service Agent to be defective in construction, material, or assembly, will be replaced at no cost to the customer. The labour for the replacement of products and parts to which this Warranty applies will be carried out by a Service Agent. Where the Service Agent is unable to identify any fault in the product, Reece Australia may require the consumer to provide proof that the product is defective.

WARRANTY

Warranty Conditions

This Warranty applies only if the following conditions are met:

- › The Media Filter has been installed by a fully qualified technician.
- › The Media Filter has been installed for and subjected to domestic residential use only subject to local building a municipality guideline.
- › Failure is due to a fault in the manufacture of the project. In this case, proof of purchase, date of purchase and serial number is required.
- › Proof of purchase (including the date of purchase) is provided
- › The consumer has operated and maintained the product in accordance with the operating instructions.

This Warranty does not cover faults caused by

- › Failure to adhere to the conditions above.
- › Normal wear and tear.
- › Damage by foreign objects.
- › External damage caused by exposure to pool chemicals.
- › Inadequate or complete lack of maintenance.
- › Installation or part installation by the purchaser or any person other than a tradesperson licensed to install this product.
- › Faults or substandard performance caused by any product or part which has not been supplied by or purchased from Reece Australia.
- › Faults or substandard performance caused by vermin, misuse, negligence, vandalism, storm, flood, fire, earthquake, force majeure, war, foreign matter entering the air conditioner (e.g. detritus; dirt and moisture) or any other outside agency.

This Warranty does not cover 'ex display' products where the ex-display products have not been checked and certified for sale by the manufacturer prior to purchase.

For the avoidance of doubt, defective items become Reece Australia's property.

WARRANTY

Claim Procedure

In order to claim the Warranty, you must cease using the product when a fault arises, contact the Reece Australia branch where the product was purchased to report the issue and follow Reece Australia's directions regarding what to do next. The relevant Reece Australia branch details can be found on your purchase invoice. You must also provide the product serial number.

Reece Australia's general contact details are as follows:

For a complete list of Reece Irrigation & Pools branches visit our website reece.com.au/storefinder or contact:

Technical and after sales support:

1300 HENDEN (1300 436 336)

Mailing/manufacturer address:

The Reece Group, 57 Balmain Street,
Cremorne, VIC, 3121, Australia.

If applicable, all replacement products will be available for collection at no cost to the customer at the nearest Reece Australia branch to the customer's location, or elsewhere as agreed between the customer and Reece Australia.

Labour

Warranty for installation labour is twelve (12) months from date of purchase. Any product found to be faulty due to installation/labour fault shall be covered under warranty and will be repaired or replaced by Reece Australia at their cost for a period of twelve (12) months from date of installation.

All replacement parts / components will be supplied direct by Reece Australia. Should the buyer purchase parts / components from their own supplier the company may at their own discretion reject or reimburse the cost to which the company can purchase the part for.

WARRANTY

Costs

The customer will be responsible for any ancillary costs associated with making a warranty claim, such as:

- > Any travel outside of the area normally serviced by Reece Australia or any associated repair agent authorised by Reece Australia
- > All costs related to gaining access to unsafe (e.g. high) or restricted locations
- > Any and all arrangements required to create safe access for the Service Representative to service the product; this includes making clear access to and from the unit (e.g.moving furniture etc.)

Excessive labour costs due to job conditions that make the equipment unusually inaccessible or otherwise difficult to source is NOT covered under this policy. The equipment must be readily accessible to the service men, that no special scaffolding, ladders or lifting equipment other than that which is normally carried in a service vehicle is required, and that the conditions or working meet the requirements of local authorities having justification on conditions of work and safety.

A service fee may be charged to the customer if an aftersales service call is attended, and the fault is deemed to be a result of incorrect installation, or the points outlined below. Please note the site environment and associated product must be accessible and safe workplace for the service agent.

If applicable, Reece Australia will also provide information regarding how to claim back any expenses the consumer may incur.

Exclusions

Except to the extent required by law, all consumer guarantees, representations, warranties, terms and conditions in relation to the products (whether implied or otherwise) are hereby excluded to the maximum extent permitted by law.

To the fullest extent permitted by law, Reece excludes all liability for damage or injury to any person, damage to any property, and any indirect consequential or other loss or damage.

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