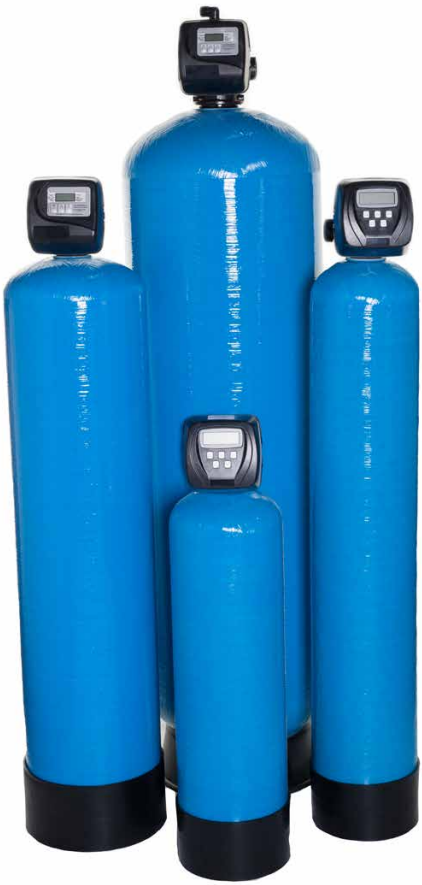
PUMP EXPRESS
WE MOVE WATER

ACTIVATED CARBON SYSTEMS

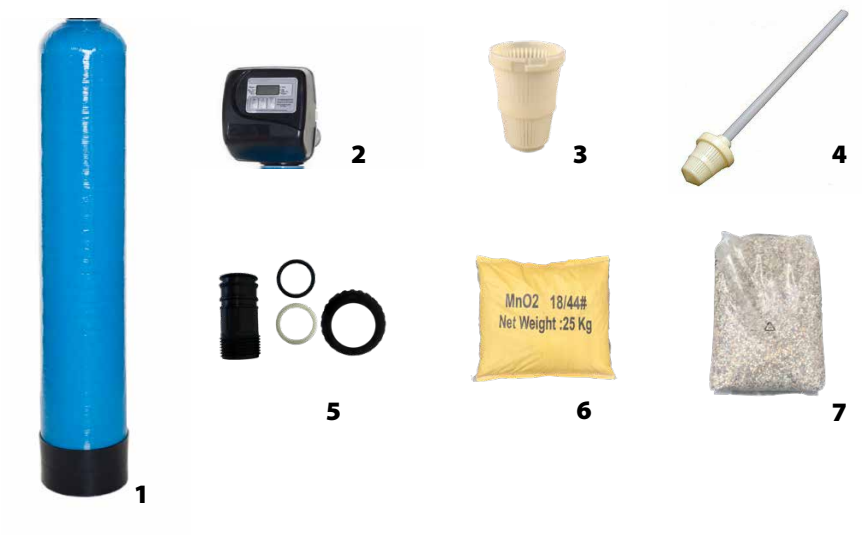


O&M MANUAL

CLACK WS1

QUICK INSTALLATION CHECKLIST

- The installation site should be a flat level surface in a frost-free environment.
- Water pressure required is a minimum of 2.0 bar – maximum of 8.0 bar
- Access to a drain that is open, level and accessible.



1. Vessel 2. 3-Button Clack Valve (Clack Head) 3: Distributor Basket 4: Riser Tube
5: Clack Valve-connection fittings (pack of two) 6: Activated CARBON 7: Filter Gravel

1.0 VESSEL ASSEMBLY

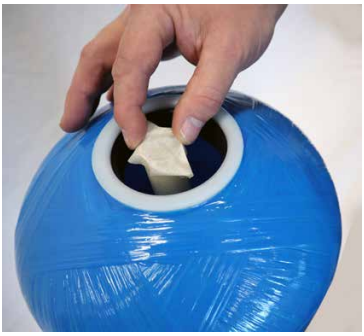
- Place the vessel (1) onto a flat level surface, ideally in or close to its final location.
- Insert the riser tube (4) into the vessel "basket-end" first.
- The tip of the basket should nestle into the central divot in the base of the vessel.
- The top of the riser tube should be sitting flush with the neck of the vessel. If not, this is seated incorrectly.

2.0 ADDING THE MEDIA

Fill the vessel between 30 – 40% with water.

This will protect the vessel and basket from scoring once the media is added.

Securely cap-off the opening to the top of the riser-tube. It is important that no media enters the tube. As pictured, tape should be sufficient.



Please read the Media Safety Datasheet before installing any of our water treatment systems.

Scan the QR Code or visit:
https://pumpexpress.co.uk/media-safety-datasheets/

Media Safety Datasheets

The vessel will need to be filled with the gravel (7) supplied with your kit, followed by the Activated Carbon media (6) (Exact qty on pg5). This should be poured into the open-neck of the vessel surrounding the taped riser-tube (4).

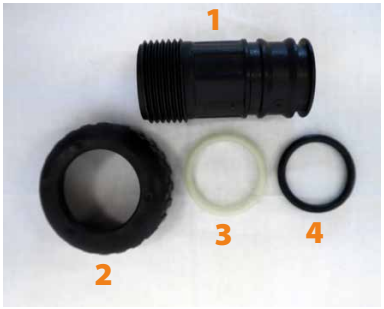
STOP pouring when the media reaches around two thirds of the tank.

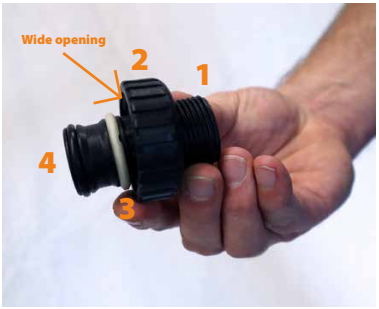
DO NOT OVERFILL THE VESSEL – Once your gravel and media is in the vessel, there should only be two-thirds of the tank, full. This open space is required to give the media space to backwash efficiently.

3.0 INSTALLING THE CLACK VALVE

(The clack valve (2) is pre-set to backwash at 2am)

Assemble the inlet & outlet connectors (5) as per the below image





Now assembled, align valve #1 with the inlet valve squarely, with the ring end-first into the port. Taking care not to cross-thread, rotate this fastening by hand to create a firm lock. Over tightening will lead to damage. Perform the same task for valve #2 for the outlet (These parts are interchangeable).

The under-side of the Clack head (2) has a bayonet connection for which to attach the Top distributor basket. Tilt the clack head to reveal this connection, insert the open-end of the top distributor basket and twist it into place to secure.

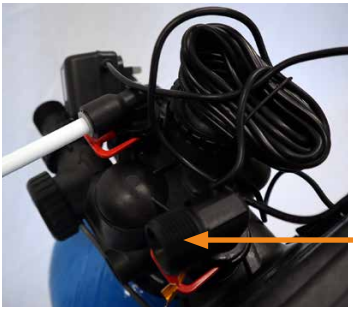
WARNING

FAILURE TO ATTACH THIS BASKET MAY RESULT IN THE MEDIA CONTAMINATING THE FULL SYSTEM.

4.0 CONNECTING THE CLACK VALVE TO THE VESSEL

Position the clack valve (2) directly over the vessel (1), aligning the open end of the riser tube (4) with the top distributor basket (3). Push gently so that the tube inserts into the distributor basket.

The male-thread of the clack-head should now meet the neck of the vessel and can be rotated until hand tight (DO NOT over tighten).



5.0 CONNECTING THE DRAIN LINE

The drain line should be plumbed in to the nearest drain. We suggest using the following items. These are not included.

1 x 3/4" stainless steel socket
1 x ¾ to ½" stainless steel reducing bush
½" pipe to drain

BUILD COMPLETE! Your unit is now ready to be connected to your water supply and powered up!

SPECIFICATION

Model	Service flow rate		Backwash Flow Rate		Vessel Size	Media		Gravel	
	m3/hr	Lpm	m3/hr	Lpm	Inches	Bags	KG	Bags	KG
1054	0.4	6.67	0.5	8.33	10x54	0.8	20.0	0.2	5.0
1248	0.5	8.33	0.9	15.0	12x48	1.0	25.0	0.2	5.0
1354	0.7	11.67	1.0	16.66	13x54	1.4	35.0	0.4	10.0
1465	1.0	16.67	1.2	20.0	14x65	2.0	50.0	0.6	15.0
1665	1.4	23.33	1.5	25.0	16x65	2.5	62.5	1.0	25.0
1865	1.9	31.00	2.2	36.66	18x65	3.4	85.0	1.5	40.0
2162	2.25	37.50	2.6	43.33	21x62	4.0	100.0	2.0	50.0
2472	3.25	54.17	3.4	56.67	24x72	6.0	150.0	4.0	100.0

m3/hr - Cubic Metres Per Hour Lpm - litres per minute

Programming inputs for Clack filters using a 3 button Clack valve

Set days between Regen

Press SET and UP simultaneously for 3 seconds

Set regen time to 2:00

Set number of days between regens to 1

Press set complete and return to front screen

Programming inputs for Clack filters using a 5 button CI valve

User settings (NEXT & UP together for 3 seconds)

Set day override to 2 (backwash every 1 days)

Set regeneration time (2am is factory, if there is more than 1 filter in system stagger them by 30 mins)

OEM programming level 2 (NEXT & DOWN for 3 seconds then repeat)

Set valve size eg 1.0 for WS1

Set to "OFF" the option to use NHBP valve

Set to "DP OFF" (not using differential pressure switch)

Set stage 1 to BACKWASH

Set stage 2 to RINSE

Set stage 3 to END

OEM programming level 1 (NEXT & DOWN for 3 seconds)

Set to FILTERING

Set backwash time to 10 mins

Set rinse time to 8 mins

Set relay 1 to OFF

Set relay 2 to OFF

Set to filtering first in OEM1 & scroll through to front screen.

Go into OEM 2 and set all parameters.

Go back into OEM 1 to set backwash and rinse times.

Enter user settings to set day override and backwash time.

MORE RESOURCES

Please scan QR codes for further helpful resources, and trouble shooting.

Please read the safety datasheet before installing any of our water treatment systems.

Media Safety Datasheets

Pump Express Website

WARRANTY

This product is guaranteed for the period of one year from the date of purchase against mechanical and/or electrical defects. This guarantee is only valid if the unit has been installed and used in accordance with these instructions.

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WE MOVE WATER

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