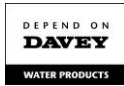


For assistance in locating your nearest dealer, call: **0800 654 333**.



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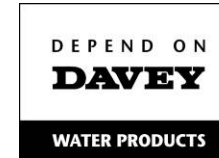
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**DAVEY WATER
PRODUCTS LIMITED**

Installation & Warranty

Instructions for



Benchtop Purifiers

Models: WMTBT1 | WMRBT1 | WMTRC2 |
WMRRC2 | WMTBT2 | WMRBT2



WARNING - CAUTION WHEN INSTALLING

- For use on cold water and municipally chlorinated tap water **ONLY**
- Always leave water in the purifier after usage has commenced.

**NO CLAIMS WILL BE CONSIDERED FOR DAMAGE
DUE TO INCORRECT INSTALLATION!**

Please pass these instructions onto the operator of this equipment.



Davey Water Products Ltd. Member of the GUD Group

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Warranty

Your housing is backed by a one year warranty or workmanship against defective materials. Actual filtration/purification life of purifier can vary with condition of incoming water; prefilters are available for heavy dirt loadings. No actual filtration life can be guaranteed with any filter for blockage. Replacement of any faulty part or parts will be made within this period free of charge provided the unit is returned to the manufacturer freight paid.



IMPORTANT:

The attached warranty card must be completed and returned within 7 days of purchase to the manufacturer. For sale outside New Zealand return warranty card to selling agent.

It is truly bacteriostatic so in addition KDF controls microorganisms to keep the media beds of your purifier hygienic over the course of its recommended life.

By reducing inorganic contaminants before they get to the carbon media bed, KDF Process media preserves the adsorption capacity of GAC for removing organic contaminants and protects GAC from bacterial build-up. This means the carbon lasts much longer.

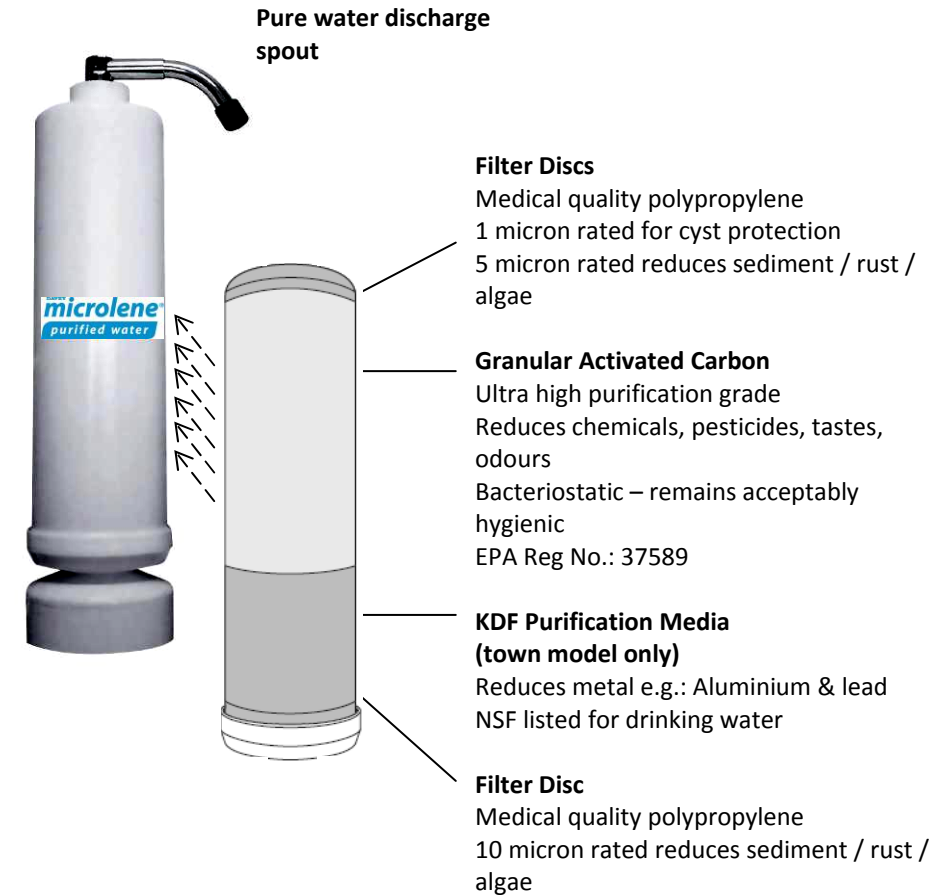
GAC is the most practical method known to science for removing organic contaminants. Protection from a KDF first stage allows carbon to do what it does best – control odour, improve taste and remove sinister chemicals and the carbon's life can be tripled.

Low pressure hot water cylinder – i.e.: with an Ajax valve

It is possible to damage your Ajax valve if you try and run HOT and COLD water together through a diverter valve on the end of a single mixer tap (the damage can occur if your cold water pressure is such that it can force its way back down the hot water line).

Therefore only run HOT water on its own, **DO NOT MIX HOT AND COLD WATER.**

Purifier Module Diagram



Dimensions:
290mm Height x 75mm Dia



Product codes

The product codes for Microlene® have changed, below are the new codes with reference to old codes.

Old	New
BTPC-2HK-1	WMTBT1
BTPC-1H1	WMRBT1
RPC-2HK-1	WMTRC2
RPC-1H1	WMRRC2
BTPC-2HK-1WOD	WMTBT2
BTPC-1H1-WOD	WMRBT2

What the new codes mean?

Category	Brand	Type	Model	Version
Water	Microlene	Town/ Rural	BT Benchtop/ RC Replacement cartridge	1 or 2

Installation

1. Unpack contents:
 - a) Bacteriostatic benchtop water purifier
 - b) Divertor valve assembly and plastic tubing.
2. Unscrew existing aerator from tap – divertor valve should fit the tap, if not contact DWP or your local Microlene® agent for possible adaptor.
3. To activate your benchtop purifier, turn on water then pull button on divertor valve and allow water to flow for 40 litres / 10 minutes. **DO NOT DRINK THIS WATER** – this is to remove the carbon fines from the unit. Each time the purifier is reused flush for 10 seconds prior to collecting water.

KDF process media – ahead of the carbon, ahead of the game!

When you use KDF process media ahead of the (GAC) Granular Activated Carbon stage in point-of-use (POU) water purifiers, you get:

- Less free chlorine
- Less heavy metal content
- Less bacteria
- Less purifier maintenance
- Enhance the performance of the carbon (GAC)
- Extend the useful life of the carbon.

How KDF 55 Process media works

KDF55 Process media is a high purity copper-zinc alloy. When used in a water treatment unit, it undergoes a chemical process known as redox. Redox is a short oxidation-reduction, which is a chemical reaction where electrons are transferred between molecules.

In some cases, such as chlorine, this transfer results in the formation of benign substances, such as chloride in this case which then passes through the purifier.

In a similar way; lead, copper, mercury other heavy metals and metals such as aluminium react to plate out onto the KDF medias surface – effectively being removed from the water supply.

KDF55 Process media is so effective that it removes up to 98% of inorganic water soluble heavy metals that are a concern to public health officials and many consumers.

acceptable performance. The reason for this is simply that the backwash will flush out any build-up of material that has been collecting on the incoming filtration section as well as in the media bed.

Note: Some water supplies can have a higher organic loading than others – these water supplies will “exhaust” the activated carbon purification media faster / earlier than 30,000 litres.

There is no guarantee covering blockage of the filtration section or covering exhaustion of the purification media.

Bacteriostatic

Bacteriostatic does NOT mean that bacteria passing through the unit will be killed / sterilised.

Bacteriostatic means; while there is water sitting in the unit when you are not using it - the growth of bacteria within the unit will be inhibited to acceptable levels. These bacteria are harmless (non-pathogenic) and are quite commonly in the water coming into the house through the chlorinated mains water supply. If the numbers of these harmless bacteria were allowed to multiply out of hand inside the unit you could perhaps begin to get unpleasant tastes and odours in the water that has been left sitting in the unit.

Note: You should always flush the unit for at least 10 seconds before using any water.



IMPORTANT:

FOR USE ON COLD WATER ONLY AND ON MUNICIPALLY CHLORINATED TAP WATER.

You can use on “untreated” water but note this unit cannot disinfect.

ALWAYS LEAVE WATER IN THE PURIFIER AFTER USAGE HAS COMMENCED.

4. Specifications: WMTBT1 (KDF/GAC)

- Normal life (chlorine reduction) up to 30,000 litres.
- Recommended maximum life – 3 years.
- Normal family water use is 10-20 litres / day – 4-8,000 litres / year.
- 1 micron filtration prevents passage of disease carrying Giardia cysts (tested by Massey University).
- **Bacteriostatic KDF** purification media – NSF 61 component.
- **Bacteriostatic GAC** purification media – EPA Registration No.: 37589.
- Maximum water temperature – 30°C.
- Maximum water pressure – 125 psi.
- Maximum water flow 2-4 litres / minute. This flow rate ensures reduction of pollutants.

5. Recommended maximum purifier module life is 3 years or earlier if indicated by:

- a) Filtration life: Flow reduction - try high pressure backwash to clear blockage (sediment prefilters are available for silty water supplies).
- b) Purification life: Media exhausted – chlorine, bad taste reappears. Try high pressure backwash if backwashing does not restore.

- Install new WMTRC2 purifier module. Dispose spent module with rubbish.

Operation

Divertor valve models: WMTBT1, WMRBT1

With the divertor valve connected to your tap, the operation of your tap remains unchanged. It is only when you want purified water that the divertor comes into use. To ensure that no damage occurs to your divertor valve due to misuse, please follow these steps.

1. Turn on the cold water tap to moderate flow rate, pull out the button on the divertor valve – water is now flowing through the purifier. The flow rate out of the purifier should be 2-4 litres per minute.
2. If you run the water faster than specified, it will not be able to work to maximum efficiency – the activated carbon purification media needs contact time to adsorb the undesirable chemicals from the water.
3. To turn off the purification process, simply turn off the tap. The divertor button is normally spring loaded and will return to the OFF position. If this button “sticks” after long periods of use, put a drop of vegetable/cooking oil onto the shaft for lubrication (**do not use CRC or any other petroleum based lubricant**).



IMPORTANT:

Do not push the divertor button in while the tap is still running; otherwise you may damage the O-ring on the divertor button shaft due to high velocity water flow/pressure at this point.

WMTRC2 purifier module (KDF* / GAC)

Nominal life / chlorine removal – up to 30,000 litres

Nominal life / chlorine removal up to 30,000 litres does NOT mean that you will get this amount of water treated without fail on any water supply anywhere.

There are many factors that can influence how many litres your WMTRC2 purifier will last.

Dirt loading:

If the dirt loading in the water is significant you could at any time block up your filtration section at the inlet end of the purifier module. You can try backwashing to clear any such blockage. If dirt is an ever present problem, you should install a prefilter.

Note: Even on the same town water supply, the dirt loading can vary from one part of the reticulation system to another and from time to time.

Purification life:

The purification life of your KDF / GAC (granular activated carbon) purification media can be affected by the components in your water supply. Assuming cleaned properly filtered and chlorinated municipal water, you can expect to reduce chlorine to miniscule levels and enjoy great tasting water for up to 30,000 litres.

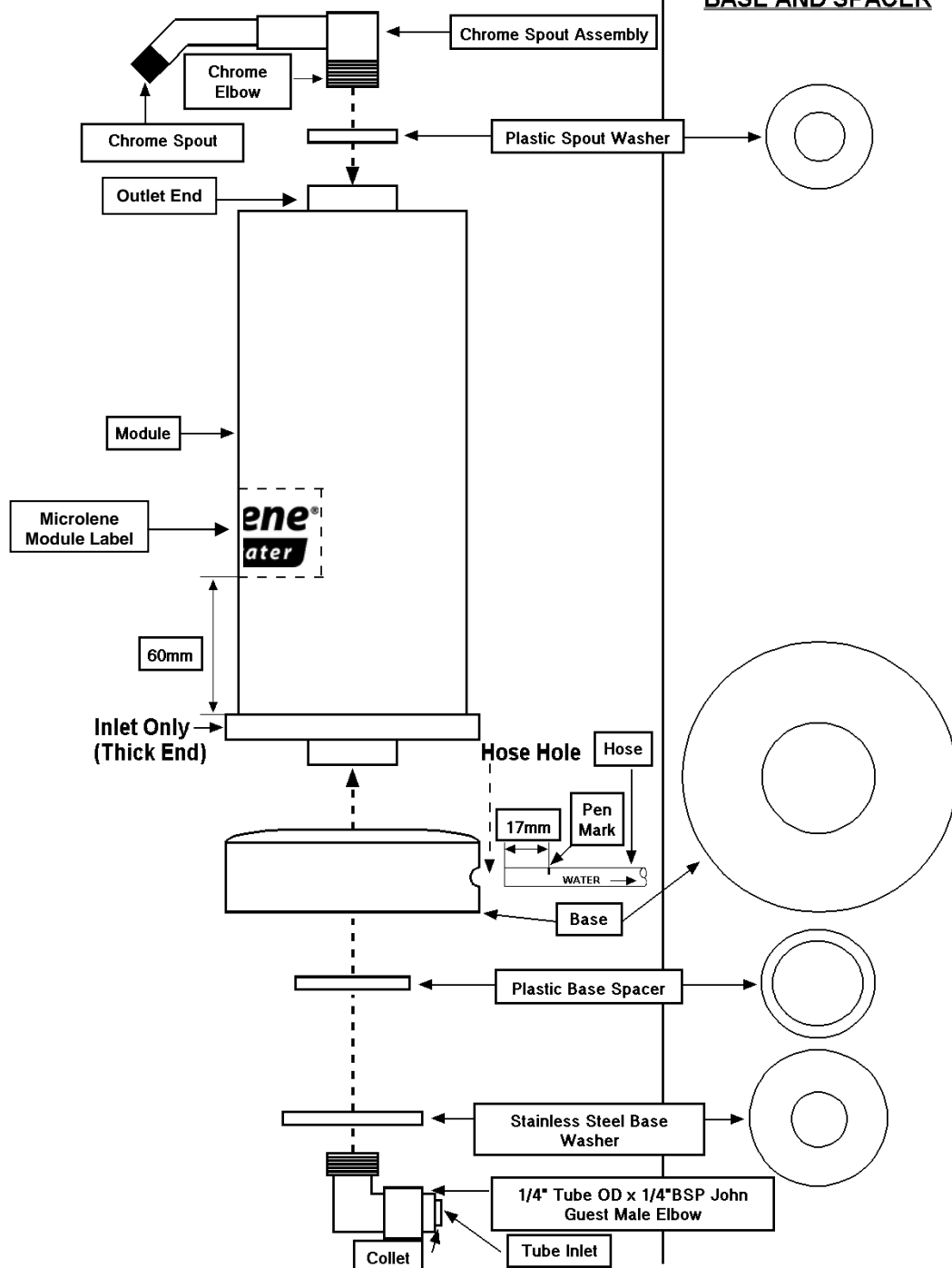
Taste / odour:

If the taste / odour of your water begins to go “off” before you have reached 30,000 litres then we recommend that you give the purifier module a backwash at maximum flow / pressure for 30 minutes. Usually this will recover the module to

* KDF is NOT recommended for non-chlorinated water, e.g.: roof or bores.

SIDE VIEW OF UNASSEMBLED BENCHTOP

TOP VIEW OF WASHERS, BASE AND SPACER



Replacement purifier modules

These instructions may be used to replace a purifier module in a benchtop or reassemble a repair.

To assemble the benchtop, you will need:

- Thread seal tape
- Adjustable spanner
- Pen to mark the hose
- Sharp blade to clean up the threads or cut the hose

1. Look at the side view of unassembled benchtop diagram (see page 10) during the assembly process and read each step carefully before proceeding onto next.

2. To disassemble a benchtop you must first put in the collet of the tube inlet on the 1/4" Tube OD X 1/4" BSP John Guest male elbow and pull out the hose. Unscrew the John Guest with a spanner, unscrew the chrome spout assembly by hand.

3. The chrome spout assembly may need adjustment for benchtop repairs. The assembly is made by wrapping thread seal tape three times around the chrome spout thread and screwing it into the chrome spout elbow until the fit is firm and the spout tip is pointing down. The fittings should be tightened together firmly, however it is more important that the spout tip ends up pointing directly down.

4. Wrap thread seal tape around the threaded parts of the chrome spout assembly (clean off any debris on the threads before taping) and 1/4" Tube OD X 1/4" BSP John Guest male elbow approximately three times. If the washers are not easily removed you may tape the threads and skip to 'Special Note' instructions (see page 8).

5. Screw the 1/4" Tube OD X 1/4" BSP John Guest male elbow onto the stainless steel base washer and the chrome spout

assembly onto the plastic spout washer.

Special Note:

The assembled benchtop requires the chrome spout assembly to be pointing in the opposite direction to the tube inlet of the ¼" Tube OD X ¼" BSP John Guest male elbow in the base. To ensure this happens the fittings must initially be applied firmly, which is approximately ¼ turn from tight (the benchtop system is not pressurised and will not leak water if fittings are just firmly tightened). To obtain the ideal fittings position you may need to tighten one or both of the parts from step 5.

6. Remove the blue caps from the inlet and outlet ends of the module. Hold the module with the inlet end pointing up. Push the hole on the curved surface of the base onto the inlet end followed by the plastic base spacer. Screw the ¼" Tube OD X ¼" BSP John Guest male elbow with stainless steel base washer onto the inlet end of the module. Tighten firmly with a spanner, ensuring the tube inlet part of the fittings is pointing towards the hose hole part of the base.

7. Firmly screw the chrome spout assembly with plastic spout washer onto the outlet end of the module. Correctly position the inlet and outlet fittings using the 'Special Note' instructions (see above). The chrome spout assembly is now perpendicular to the front of the benchtop.

8. The hose should have a pen mark 17mm from one end. Draw it on if it is not present. The hose must be pushed through the base hose hole and then into the tube inlet of the ¼" Tube OD X ¼" BSP John Guest male elbow, all the way to the pen mark. A strong hand may be required to reach the mark (1mm from the pen mark is reasonable).

If the hose can not be pushed all the way in, cut the hose at the pen mark and repeat step 8 (ensure cut is square and clean).

9. Replacement modules require labelling. Two loose labels are supplied with replacements. When labelling a module, place the blue on clear Microlene® module label on the front of the benchtop and the black on white Serial Number label on the inside of the base.



IMPORTANT:

- **Over taping or over tightening fittings may result in permanent damage to the benchtop purifier module.**
- Fittings that leak may need to be tightened or taped again with more thread seal tape.
- When ordering replacement fittings the name benchtop should be written in front of part name in this instruction sheet i.e.: Benchtop Plastic Spout Washer for Plastic Spout Washer.
- The John Guest male elbow does not require a benchtop prefix and modules have specific part names that will require salesperson assistance or reference to a parts list.

(See side view of unassembled benchtop diagram on next page)