

# Ecovortek Universal Unit

## Instructions for Installation

### Installation instructions for a standard mains water 20mm (3/4") copper pipe

Water can flow in either direction through the Universal Unit so therefore it can be installed either way around.

#### Below ground installation:

1. Choose the location for the Ecovortek unit is at least two metres away from any electricity source eg mains electricity supply or appliance such as an electric motor or pump. Ensure that the earth for any electricity supply for the building is not attached to the water piping.
2. Turn off the water supply.
3. Excavate the site to expose at least 1m of the existing piping.
4. The 22 mm Unit can be fitted to a 20 mm (3/4") copper pipe using 2 "kinko" nuts and 2 nylon (or copper) olives.
5. Lay the Ecovortek unit along side the exposed copper pipe in its desired position. Mark the length of the Ecovortek unit on the copper pipe.
6. Cut the copper pipe at **one** of the positions marked.
7. Gently push the longer length of the copper pipe aside in order to allow the Ecovortek unit to be gently pushed onto the copper pipe that it will be connected to until it stops (about 15 mm).
8. At the other end of the Ecovortek unit place a second cutting mark on the copper pipe at the end of the unit.
9. Cut the copper pipe at this second cutting mark and remove it (this pipe should be approx 675mm long or a little shorter than Ecovortek unit). Retain this copper pipe as it can be replaced if the Ecovortek unit is removed.
10. Remove all burrs & clean the remaining pipe 50 mm from each end with a cloth.
11. Mark a guide line on the copper pipe 50 mm from the each end of the pipe and slide a kinko nut and olive onto each end.
12. Insert the Ecovortek unit and centre it between the 50 mm guide lines so that each end of the copper pipe is inserted equally into the Ecovortek unit.
13. Slide the olives and kinko nuts to the end of the Ecovortek unit and hand tighten the nuts. Finally tighten using two spanners. Do not over tighten kinko nuts and do not damage threads on the Ecovortek unit.
14. Turn the water back on and ensure there are no leaks. Retighten kinko nuts if needed.
15. Backfill soil around the unit. It is recommended you use quartzite sand to surround the unit and portion of the pipework approaching the house. This may help with location during subsequent digging.

#### Other type of piping

1. The 22 mm Ecovortek unit can be fitted to different sizes and materials of pipes. If a smaller 5/8" copper pipe is present it may be necessary to flare the ends and use appropriate fittings. Ecovortek units can be installed to poly butylene, PVC and poly pipes using the appropriate plumbing fittings.

#### Above ground installation:

Where it is necessary to install the unit above ground the following precautions should be undertaken.

1. Follow the instructions above that relate to fitting the Ecovortek unit below ground ie Nos 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and 14.
2. The Unit must be protected from extreme climatic temperatures (see "Attention" below).