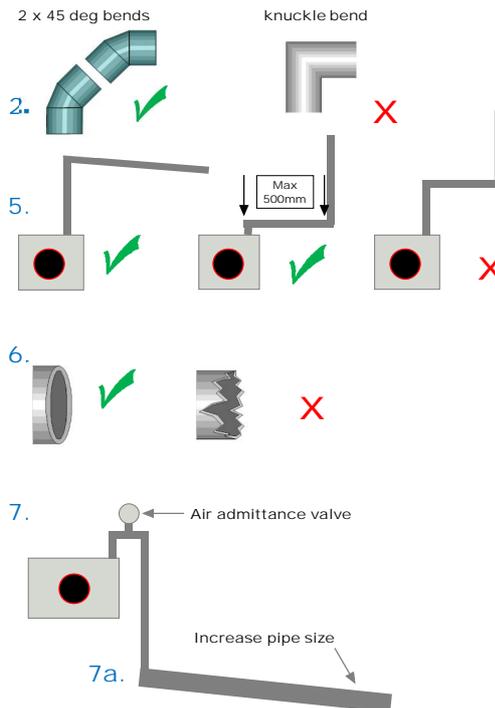


Uniflo Macerator & Pump Fitting Guidelines

DISCHARGE / OUTLET WASTE PIPE

1. Pipe type. ABS solvent weld plastic pipe and fittings or copper tube and fittings.
 2. Avoid using 90 deg knuckle type bends, use long radius bends or two 45 deg bends fitted together to form a 90 deg angle.
 3. Always connect non return valves, unless the valves are pre-built internally.
 4. Horizontal pipes should be installed with a minimum fall of 1:100. Each bend installed reduces the distance graph by 50cm
 5. If you are installing the outlet vertically always install the vertical section as near to the unit as possible. Within 500mm.
 6. When cutting pipe work make sure you have a smooth neat cut
 7. If the outlet pipe is to be run below floor level i.e. 1 mtr or more below the pump unit, it will benefit greatly from installing an air admittance valve this must have a minimum pressure rating of 10-PSI, this should be installed at the highest level on the pipe work.
 - 7a. Increasing the pipe work diameter on the fall will help preventing siphoning.
 8. Ensure all pipe work connections have a water tight seal.
 9. Installation of a Bath, it is important you have purchased the correct Macerator or Grey water pump suitable for that purpose. A minimum of 32mm pipe work must be used for the discharge outlet.
 10. Installation of a Washing Machine to a Grey water pump the discharge outlet must be installed in a minimum of 32 mm pipe work, it must also be fitted as a stand alone unit with no other utilities connected.
- Ensure the maximum temperature of the waste water does not exceed the maximum allowed temperature of the pump

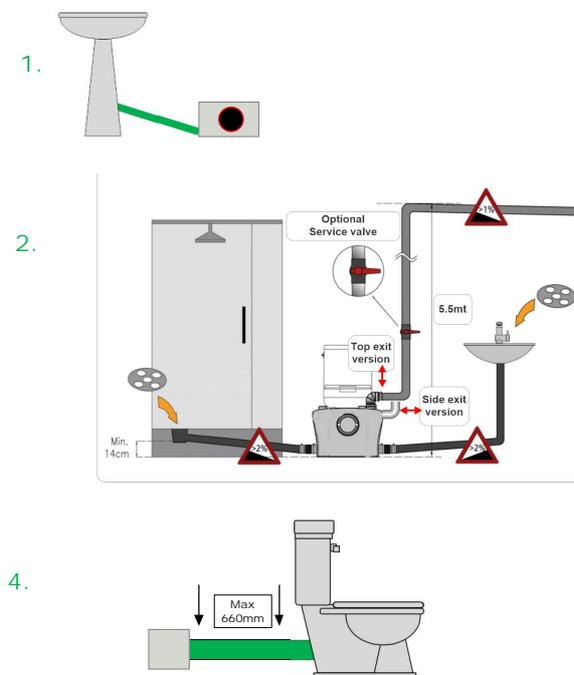


IMPORTANT: Fitting guidelines and fitting instructions must be followed.

INCORRECT FITTING CAN INVALIDATE YOUR WARRANTY.

INLET WASTE PIPE

1. Inlet waste pipes should have a minimum fall rate of 2.0%
2. Shower tray installation. Macerators that operate on air pressure switch mechanisms may need a greater fall depending on the distance from the shower tray to the pump. It is advisable to setup and test the flow of water to ensure you do not have waste water left in the shower tray before tiling is carried out. It can be difficult to adjust a shower tray once tiling has been completed.
3. Most Uniflo Macerators have built in non-return valves as standard. Units that have external valves supplied, must be fitted as close to the Macerator as possible.
4. Macerator pumps are designed to connect directly to the back of the toilet pan but can be set back horizontally i.e. behind a false wall upto a maximum of 660mm. Macerators should not be set below the toilet pan.
5. Waste pipes must not be connected to the Macerator discharge pipe.
6. Ensure all pipe work connections have a water tight seal.



ELECTRICAL CONNECTION

1. Electrical installation must be connected to a fully earthed supply through a residual current device (RCD).



IT IS RECOMMENDED YOU CLEAN AND DE-SCALE YOUR MACERATOR ONCE EVERY 3 MONTHS

USE ONLY THE RECOMMENDED CLEANER / DE-SCALER FROM THE UNICLEANSE RANGE OF PRODUCTS

USING INFERIOR PRODUCTS CAN DAMAGE YOUR MACERATOR AND INVALIDATE YOUR WARRANTY IF IN DOUBT SEEK ADVICE