



**WARNING**  
 - Installation Performed By Qualified Personnel Only!  
 - Clean Carefully The Water Pipes Before Installing The Tap.  
 and turn the boiler off and non return valves are not required.  
 combination boilers are fitted it is only necessary to shut off the incoming mains  
 hot and cold pipes as dose as possible to the tap. These are not supplied. Where  
 supplied from a tank and cold from the mains, non return valves are fitted on both  
 These taps are double flow. Water bylaws require that where the hot water is

**Preparation and bylaw requirements**  
 5412:1996 where applicable.  
 Water Bylaws Scheme and comply with requirements of British Standard  
 All products are manufactured using materials tested and approved under the

**Approvals**  
 claimable under the warranty.  
 installation process, incorrect maintenance or misuse and as a result not be  
 - On receipt of this product the chrome finish must be checked for blemishes.  
 product may not correctly work or not work at all.  
 - If the above mentioned conditions (see points 1,2,3,4) are not observed, the

1. Recommended working pressure: .....1 Bar
2. Maximum test pressure: .....5 Bar
3. Maximum hot water temperature : .....80°C
4. We recommend installing filters to this product.
5. Warning:

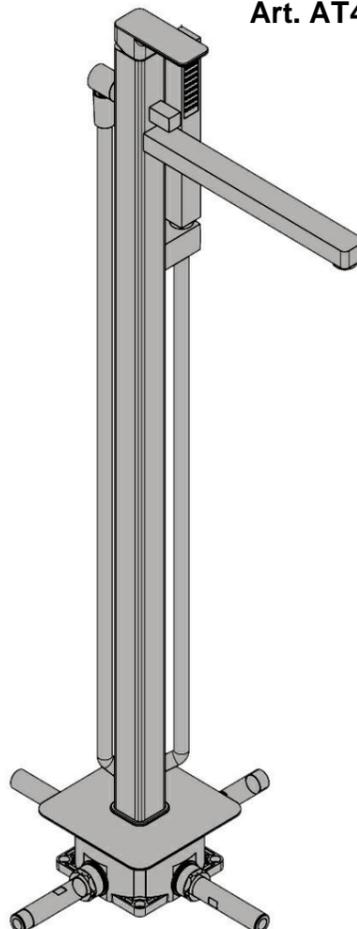
**Standard specifications**  
 thoroughly after installation to avoid damaging the ceramic disc.  
 valves on both hot and cold feeds. It is very important that all pipe work is flushed  
 then the tap will not function correctly. It will also be necessary to fit non-return  
 combination boiler for example). If the taps are not supplied at balanced pressures  
 water at balanced pressures, both from the tank or both from the mains (via a  
 cold water are separated) and should therefore be supplied with hot and cold  
 contained in their bylaws. All of the taps in this range are double flow (the hot and  
 The installation must comply with regulations of the Local Water Authority as

**General Installation Requirements**  
 reference.  
 Please read these instructions carefully and keep in a safe place for future

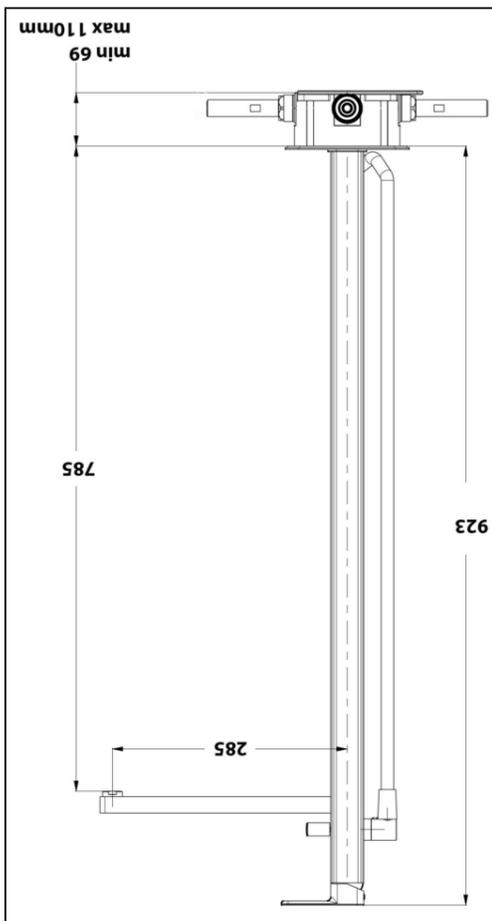
**INTRODUCTION**

**TOLL FLOOR STANDING BATH SHOWER MIXER**

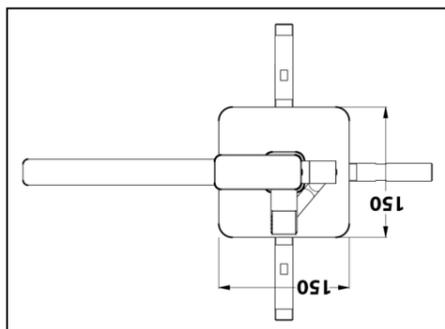
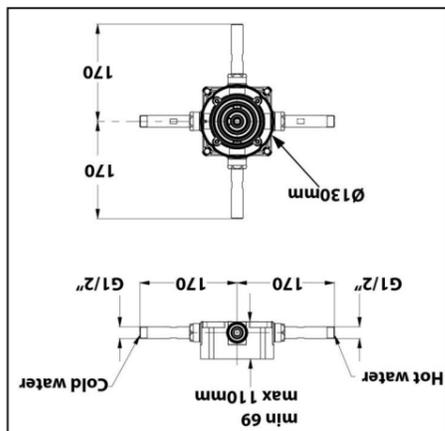
Art. AT416FC



**INSTALLATION INSTRUCTIONS**



**DIMENSIONS**



This product should only be fitted by a qualified plumber to NVQ (National Vocational Qualification) or SNVQ (Scottish National Vocational Qualification) Level 3. Should the installation be completed by a non-qualified person then the guarantee may be considered invalid.

For a claim made under our warranty written certification of your installers credentials can be required. For further information or to find a qualified installer in your area please visit the Institute of Plumbers website - [www.iphe.org.uk](http://www.iphe.org.uk).

**THE QUALIFICATIONS**

At present, to be a plumber you need to follow the National Vocational Qualification (NVQ) route (Scottish National Vocational Qualification - SNVQ - in Scotland). These qualifications are made up of theory and practical work in the classroom/purpose built training facility and work based experience with a working plumber. Colleges should help students find a work placement, although many students organise it themselves.

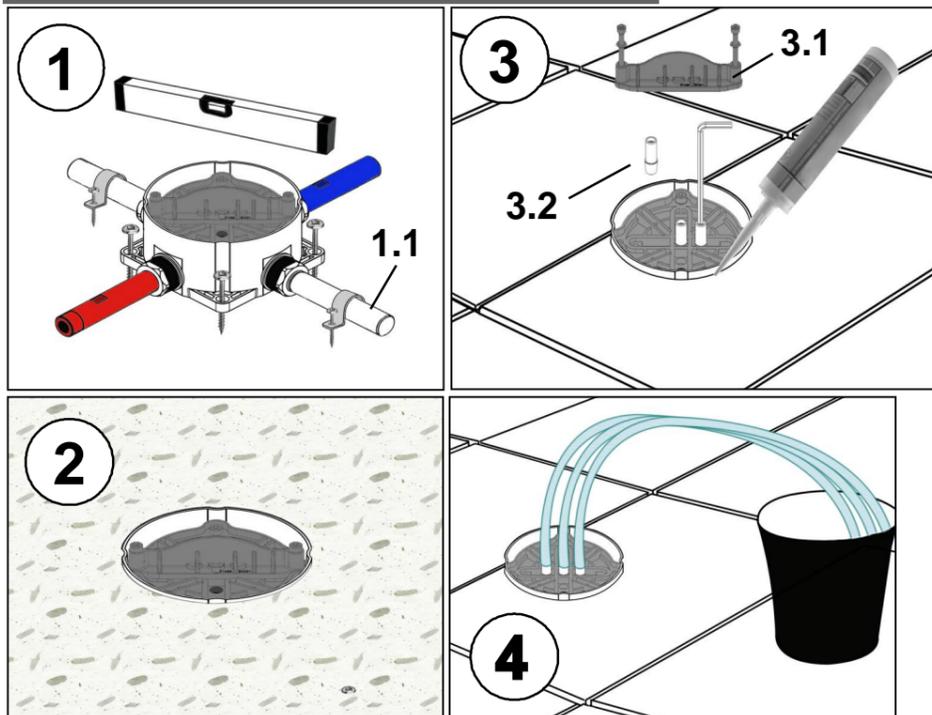
The S/NVQ qualification works in levels. All recently qualified plumbers should hold S/NVQ Level 2 as basic with Level 3 as the preferred level. Level 2 will give you the foundation you need for a career in plumbing and teach you domestic plumbing to a satisfactory level. Level 3 is more comprehensive and deals with domestic, commercial and industrial plumbing along with aspects such as gas - if you want to one day set up

your own business, this is the level to reach. The Institute of Plumbing and Heating Engineering, and the industry as a whole recommends that all plumbers reach a minimum of Level 3.

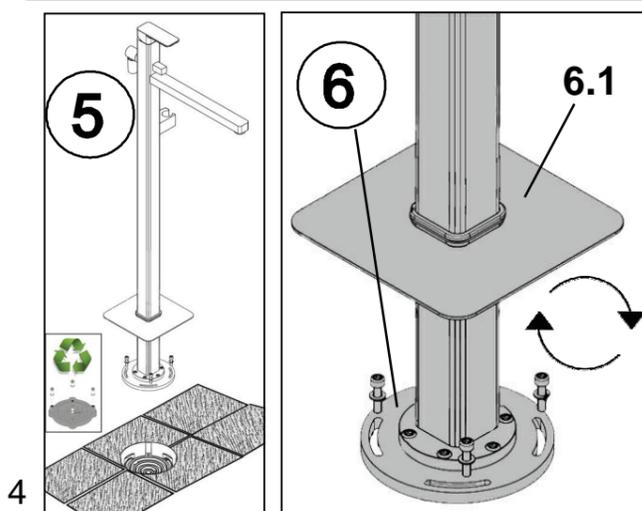
Reaching Level 3 has other advantages. The Institute runs a Master Plumber Certificate, which only those attaining Level 3 or equivalent can reach as long as they have the relevant experience as well. Those with S/NVQ Level 3 can (once in membership with the Institute for five years as a Member MIPHE) gain Engineering Technician EngTech status with the Engineering Council (UK).

For any further information please contact Crosswater on: **0845 873 8840**  
 Or visit our web-site at [www.crosswater.co.uk](http://www.crosswater.co.uk)  
 The manufacturer reserves the right to make technical modifications without prior notice.

## INSTALLATION - BOX



## INSTALLATION - TAP



## INSTALLATION



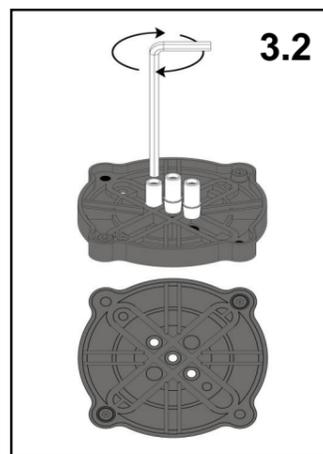
First shut off your water heating system  
Fitting isolating valves to the inlet feeds is recommended for ease of maintenance.  
Remember to turn off the mains water supply before connecting to any existing pipe work. Flush the piping with plenty of water prior to installation.

### INSTALLATION BOX

- Decide on a suitable position for mixer where all users can operate; determine the route for the incoming cold-hot supply pipe.
- Positioning the box in the floor (1), install the Hot and Cold supply pipe (left Hot and right Cold), set strongly the box (use collar pipes) by using the pipes (1.1) included; allow precise horiz/vertical alignment with a spirit level (depth of fitting 69 to 110mm). It's now possible to check water pressure testing; when test was performed proceed to cast cement around the box (2) and apply the tiles.
- When tiles have set, trim any excess plastic from the edge of the box. Seal the gap with silicone (free from acetic acid) between tile and box edge (3). To complete the installation flush out both hot and cold water: unscrew the plastic support (3.1) and with an allen key, screw the metallic fitting into the three holes (3.2); connect plastic tube (4) and flush out. Remove these tubes before installing tap.

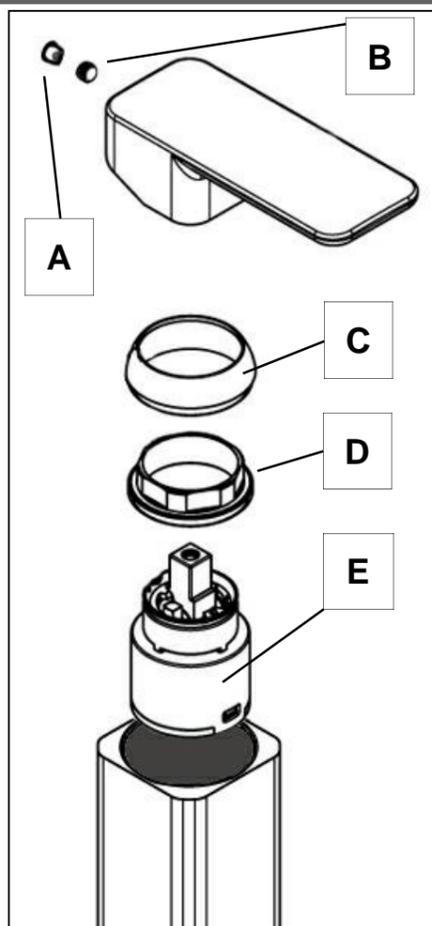
### INSTALLATION TAP

- Remove and dispose of the plastic test/cover, place the column (5) into the box base, being careful not to damage the o-ring gasket. Set the tap, turning the flange if you need to (6), when done tighten the screws.
- Then remove adhesive film under the chromed plate (6.1) and press down it onto the floor, install flexible hose and hand shower.



5

## MAINTENANCE



### CLEANING - REPLACE THE CARTRIDGE

In the event of any problems, servicing is straight forward.  
First shut off the water supply to the tap. Pull out the cap (A) from the handle and with an allen key 2,5mm loosen the grub screw (B) in handle, but do not remove it. Take off the handle, unscrew the cartridge cover (C) and carefully using a correct size spanner unscrew the retaining nut (D) and remove the cartridge (E). Wash the cartridge with clean running water and make sure that any trapped debris have been removed. Dry and lightly grease the seals (only use silicone grease) and replace the cartridge, retaining nut, cartridge cover followed by the handle.  
CAUTION: Retaining nut (D), must be screw with a torque of 10/11Nm, in case of incorrect tighten, the mixer can be damaged.

## CLEANING

The chrome plate we use on our taps is very durable, nevertheless care should be taken when cleaning them. They should be cleaned only with warm soapy water followed by rinsing with clean water and drying with a soft cloth. All finishes are vulnerable to acid attack and some strong substances such as household cleaners, disinfectants, denture cleaners, hair dyes, wine making and photographic chemicals can cause the surface to go black or peel.

## MIXER NOZZLES

All the taps are fitted with a flow straighter. In case the water supply is not fluid, remove the aerator and clean. Unscrew the nozzle from the spout mixer, taking care not to loose the washer. Wash the nozzle with clean running water and make sure that any trapped debris have been removed. To loose limestone we suggest to plunge in vinegar the nozzle. Insert the washer, and screw the nozzle, tighten well.