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TALANO & ALERA INSTALLATION MANUAL

Installation

Access

When deciding on a suitable location to install the bath, there are a number of points that should be taken into consideration:

- Hoist/wheelchair access.
- Service/cleaning access.
- Positions of any existing under floor pipe work or cabling.
- Conflict between doorways.
- Distance from walls/other objects.
- Under-floor obstructions (water/heating pipes, waste pipes, under-floor heating).
- Level flooring.

IMPORTANT – The bath must be sited on a level and sound floor against straight walls.

Flooring

Prepare the floor area for installation. Please ensure that the flooring is flat, level and structurally sound. There should be **no services** or **underfloor heating** buried within the 'Foot Plate' area detailed on Figure 1.0. All floor finishes should be in place prior to installation (i.e. Altro / Tiling).

Items supplied with the Bath:

- Installation manual
- User manual
- Bath unit (bath shell, support frame, control pack)
- Bath surround panels
- User handset
- Foot base unit fixing kit (comprising bolts/screws - see floor fixing kit)

Preparation

a) Carefully remove all packaging and inspect the bath thoroughly.
Note: Do not use sharp knives or instruments to remove packaging around the finished surface areas of the bath.

b) Ensure all component parts are present before beginning installation.
It is important to ensure the complete kit is there. If there are ANY components missing contact the service department and quote the number on the side of the bath.

c) Prepare the floor area and ensure it is flat, level and structurally sound and that there are NO SERVICES BURIED within the floor fixing area.

Bath Moving

IMPORTANT – Do not move the bath by the bath shell. Only use the metal support legs.

Quick Sequence Overview

• Check site position. Ensure all Pre-install requirements have been met.
• Inspect bath and panels for damage. Clear area and make sure floor is level and clean.
• Manoeuvre the bath into its intended position.
• Remove transport wheels from bath if fitted.
• Leave transport tie bars in place if fitted. Set the foot base plate distances to correct dimensions.
• Mark the position of the floor fixing holes. Move the bath to allow the drilling of the holes
• Clean out dust and debris from holes.
• Fix bath to floor. Feet frames MUST be level and vertical. Use a spirit level. Utilise shims if required.
• Connect bath to temporary power supply. Connect handset and power up bath.
• Place bath into position. Connect plumbing to bath connections.
• Connect waste.
• Make a permanent electrical connection and secure cable using conduit if required.
• Fasten Chrome handset holder into place. Fit handset connector socket to front panel.
• Fit front panel. Slide panel under lip of bath. Fix to floor batten.
• Fit end panel(s). Slide panel under lip of bath. Fix to floor batten as required.
• Check for leaks and operation. Check temperature set up on the TMV control(s)
• Attach SWL and labels as required.
• Fully test sequence

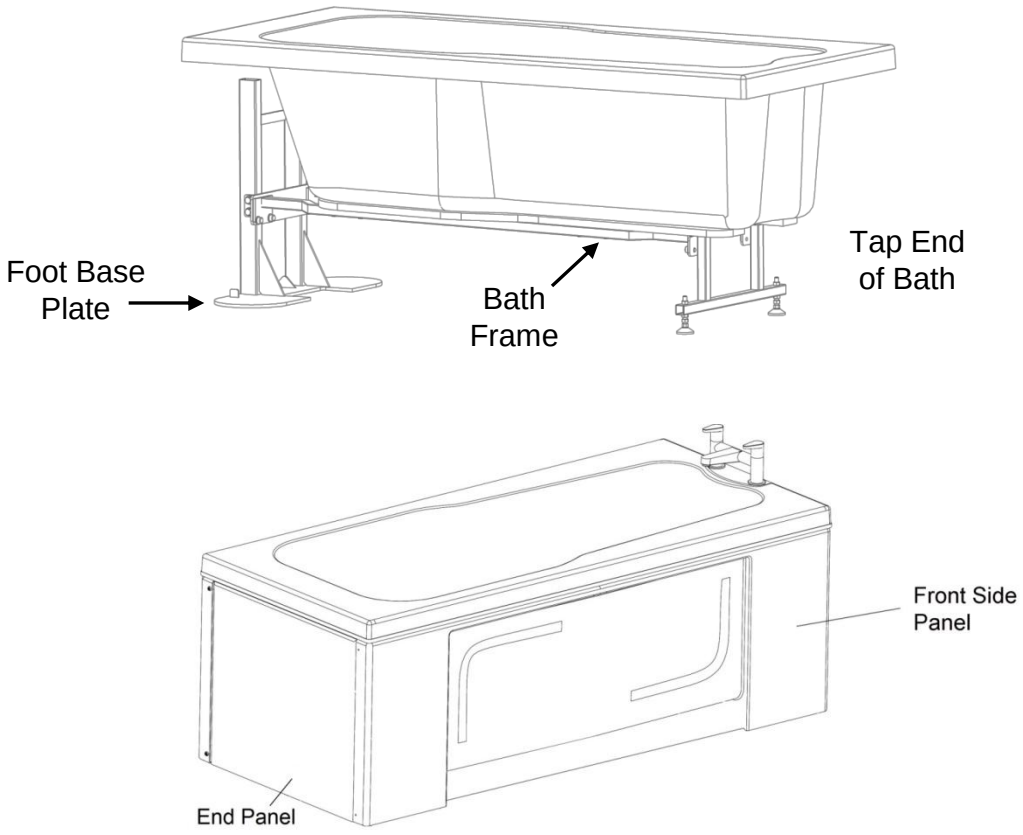


Figure 1.0

Talano 1700/1500 Key Information

Maximum User Weight : 165Kg; Transfer Seat 140kg.
Maximum Water Capacity : 230/200 litres
Approximate Bath Weight (Empty) : 119Kg/115Kg.
Power Supply : Mains 230V to be supplied via 30mA RCD.
Operating Voltage : 24V
Battery Backup : Yes.
Water Supply : Hot & Cold water at 1 bar minimum.

RIGHT HAND SHOWN (*Diagram shows fixed seat with hoist access panels*.)

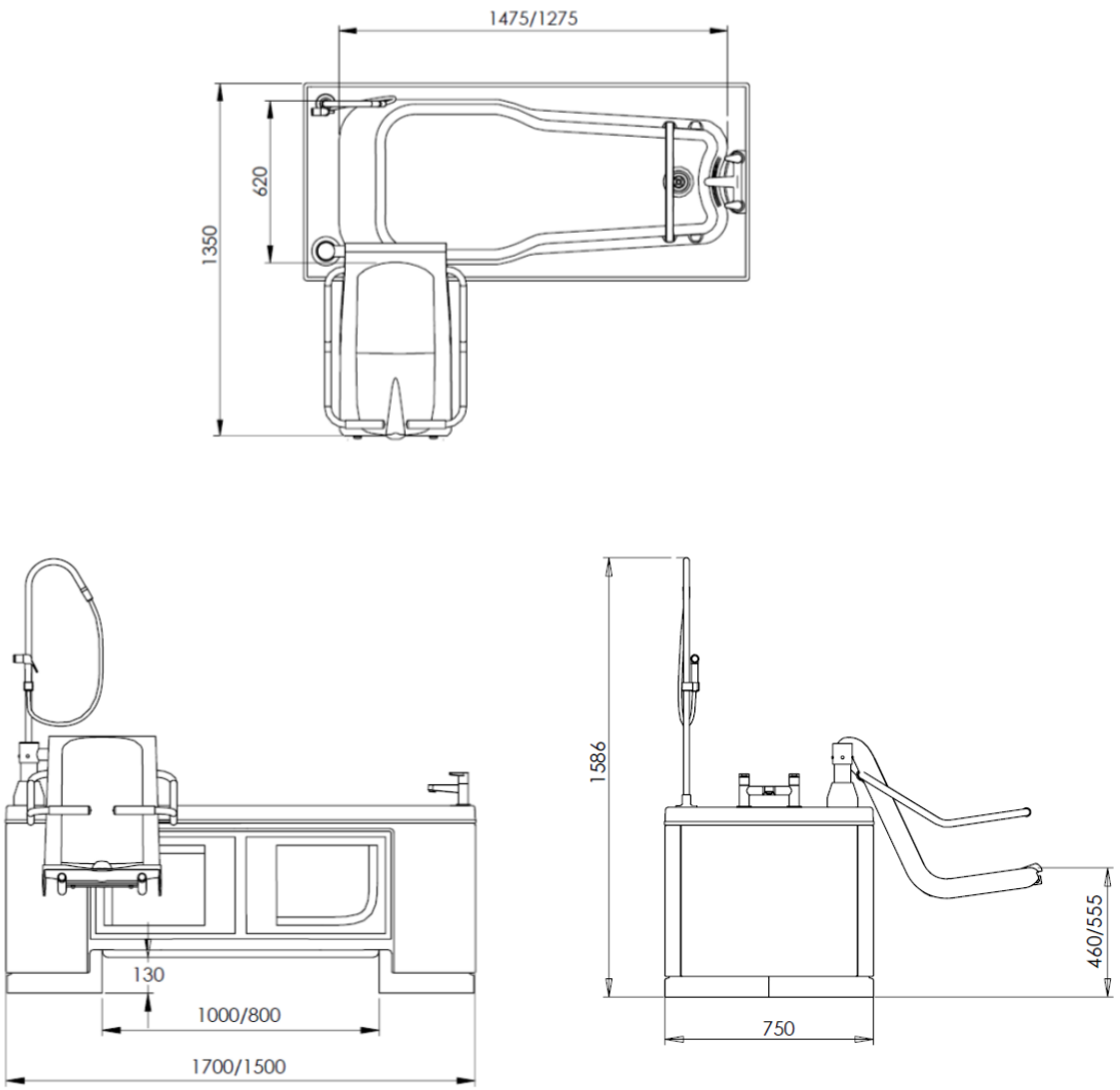


Figure 2.0

Fixed Seat Height 460mm
Transfer Seat Height 500mm

Alera 1700/1500 Key Information

Maximum User Weight : 165Kg; Maximum Water Capacity : 230/200 litres
Approximate Bath Weight (Empty) :130Kg/125Kg.
Power Supply : Mains 230V to be supplied via 30mA RCD.
Operating Voltage : 24V
Battery Backup : Yes.
Water Supply : Hot & Cold water at 1 bar minimum

RIGHT HAND SHOWN (*Diagram shows fixed seat with hoist access panels*.)

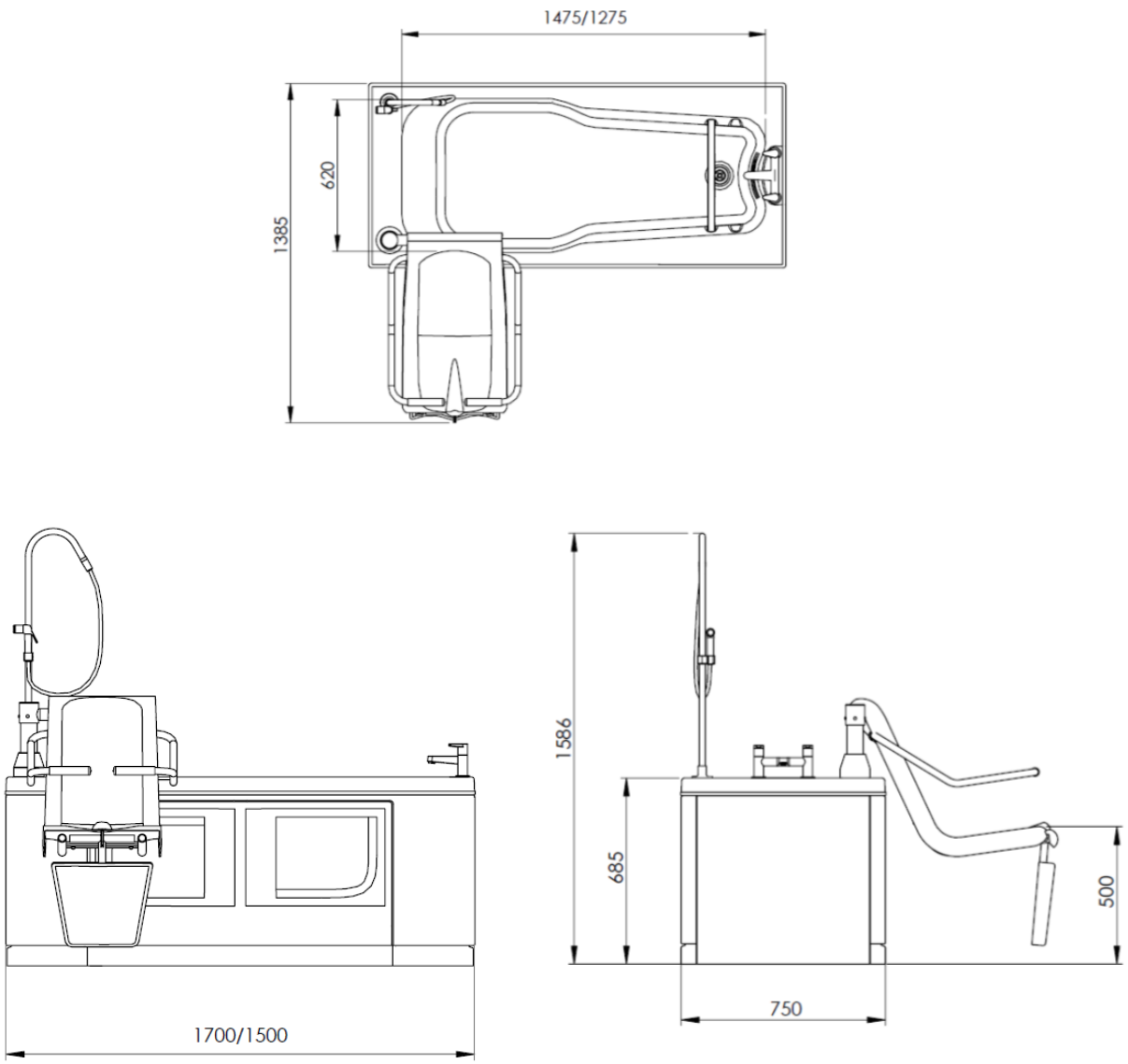


Figure 3.0

Fitting Instructions

Prior to installation, ensure that the site is prepared in accordance with the requirements detailed in the Pre-Installation manual. Inspect the installation area, paying particular attention to floor fixing locations. Ensure that the flooring is of a sound, solid surface with no movement or flex, and is clear from dirt and debris.

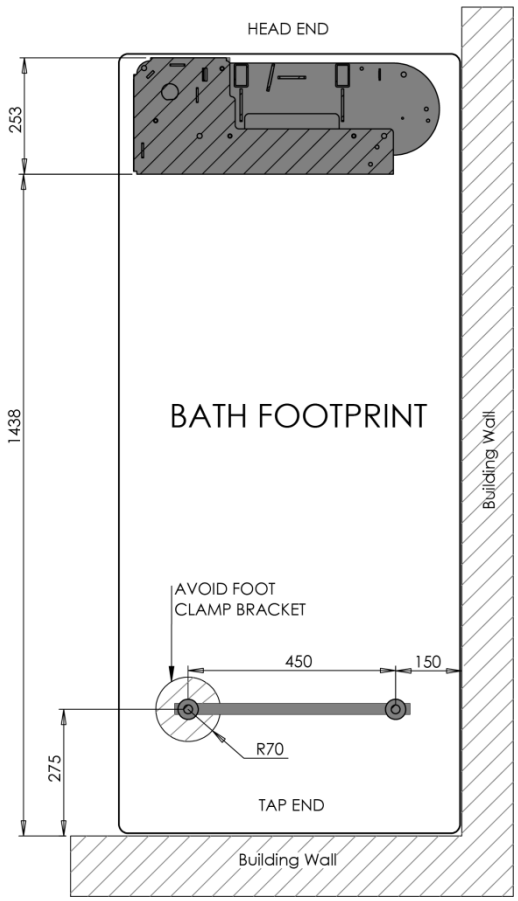
1) Move the bath into the local area. There are 4 transport wheels – one in each corner. Remove the wheels and attach the adjustable bath feet (supplied) to the tap end of the bath. It is essential to keep the foot frames at the correct spacing (see figure 4.0 for further details).

2) Offer the bath into position making sure that the floor is of a sound, solid surface. If the floor slopes, (i.e. wet room installation with a centre drain) shims should be fitted under the bath feet or foot plate making sure that the fixings hold the feet firmly in place. The most common issue with bath failure is the bath not being fitted level and firmly to the floor.

3) Set the foot frames. Ensure that the space between the feet and base plate is set correctly (see figure 4.1 for dimensional information). The foot base plate must be vertical and upright. Adjust the height of the feet at the 'tap end' of the bath to ensure bath is level in all aspects. Floor finish, (i.e. Altro / Tiling etc.) must be in place prior to installation.

1700 bath Right Hand

RH BATH SHOWN



1500 bath Right Hand

RH BATH SHOWN

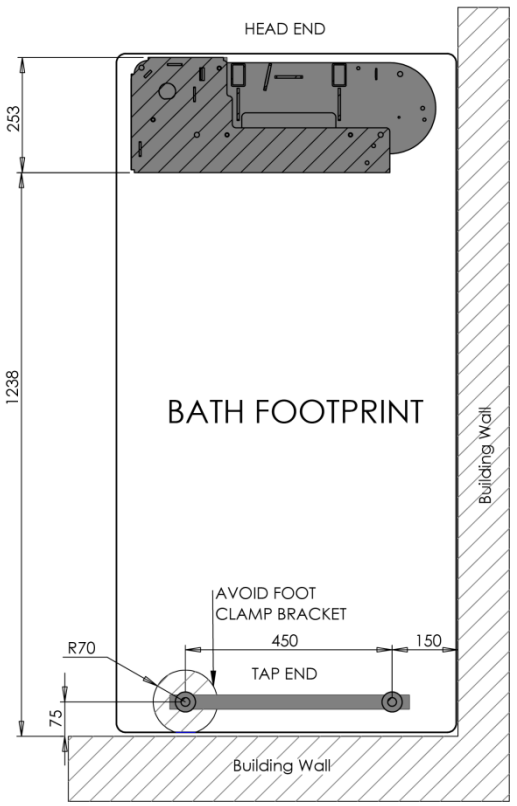


Figure 4.1

Fitting Instructions

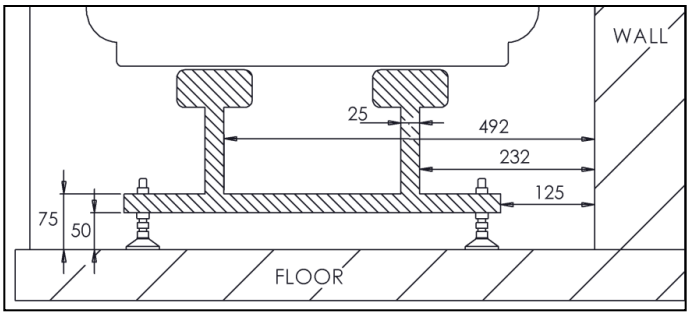


Figure 4.2

4) With the bath in position, mark the floor where it is to be drilled. See Figures 4.1 & 4.2 for dimensional information. A 'Top Hat' foot clamp bracket will secure the bath at the 'tap end' of the bath. Position the bracket (Figure 5.1) in the location identified in figure 4.1. Mark the floor fixing locations. For the alternate hand, fit the bracket around the opposite foot. Remove the bath from the working area.

5) Drill the marked fixing holes, taking into account the type of screws that will be used (see Figure 5.2). Ensure that holes are drilled into solid flooring, and clean out all dust and debris.

Holes marked in Red with '**IMPERATIVE - A**' must have a firm fixing made to the floor. These fixings are the opposite side of the seat and carry the load. The hole marked **IMPERATIVE – B** should also be fixed to the floor to ensure the bath is firmly held down.

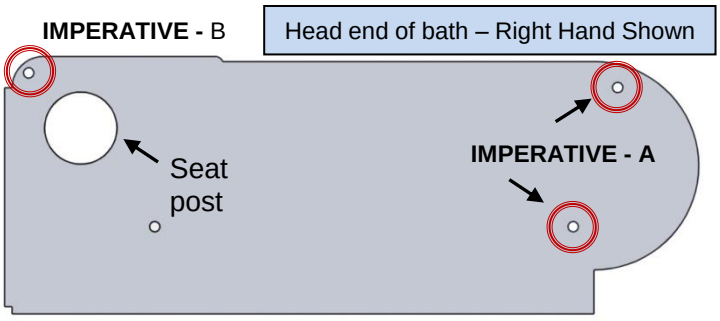


Figure 5.0

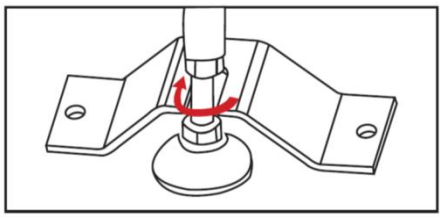


Figure 5.1

Description	Qty	Floor Type
M8 x 60 Hex Head Coach Screw	4	Concrete/Composite
M8 x 40 Hex Head Coach Screw	4	Wood/Floorboard
M10 x 50 Nylon Plug Type E	4	
M8 Form C Washer - BZP	4	

Figure 5.2

Imperative base plate fixing locations. Note - Sleeves will not grip unless the hole is cleaned out first. Table details fixings for foot plate end of bath. Ensure washer is placed between Fischer screw head and foot plate to protect the painted surface.

6) Place the bath into its final location and fix it to the floor. Use a spirit level to ensure the foot plate is vertical in both planes. This is the most common cause of issues with incorrect installation. Use shims if required.

Fitting Instructions

7) **Plumbing.** Connect feeds to the pre-fitted bathroom plumbing as per the pre-installation document. Ensure that the plumbing feeds are in the correct orientation. The TMV heads should point towards the head end of the bath. Quality check for leaks, water temperature and correct bath operation. If the water temperature needs alteration, access the TMV and adjust as per the manufacturer's instructions. **See Addendum at back of this pack for TMV setting.**

Note: If connected to a facility that has pre-set 'blended' water supply then the TMV's will not be required. Check with the owner of the property to ensure that the temperature of the blended water supply is no more than 43 degrees.

8) **Make a permanent electrical** connection following current IET regulations. Secure the cable with conduit if required for cable protection. Ensure that the bath is fully earthed. Where a Spa is fitted a 13 Amp IP65 rated switched fused spur is also required. Where applicable, junction boxes should be fitted underneath the bath and affixed using a mechanical tool (screw or similar). Ensure that a suitable location is chosen i.e. positioned off the floor, and behind bath panels.

A 30mA RCCD or RCBO is required in compliance in accordance with current Edition IET regulations. This should be located outside the bathroom or on the consumer unit covering that area of the building. Earth Bonding and Cross Bonding are to be fitted and tested for continuity in accordance with IET regulations. The trailing flex should be protected by use of protective conduit.

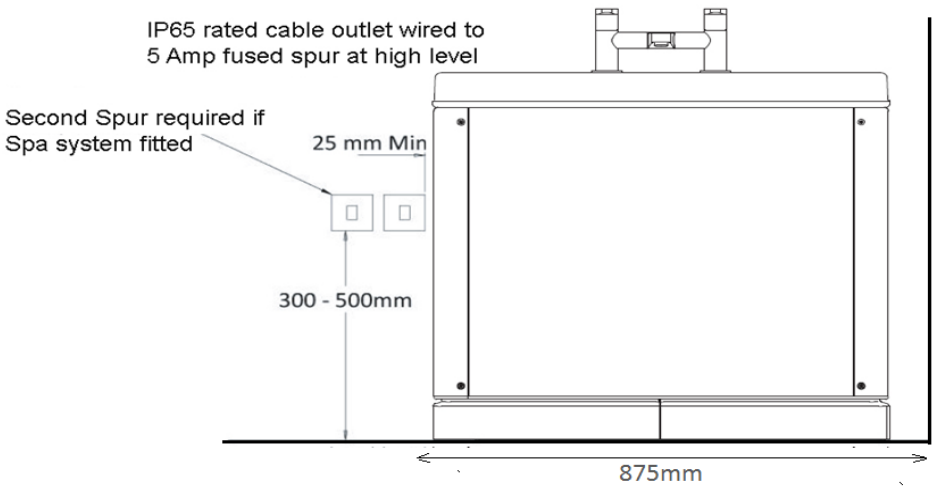


Figure 6.0

The Spur box should be mounted between 300-500mm off the floor .

9) **Fasten the chrome handset holder** in place onto the side of the bath. Pre-drilled holes and fixings are provided.

10) **Plug in the handset**. Offer up the handset connector to the front panel and fasten into place on the front panel. Remove the plastic circlip from socket blanking plug next to the power supply on the control box. Fit the handset Jack into the socket connector. Fit the circlip into place around Jack ensuring that the two lugs locate correctly. There is a cable tie on the inside of the panel where spare wire can be looped.

Fitting Instructions

11) Offer up the side panel to the front of the bath. Guide it under the lip of the bath shell and then mark the floor along the front of the panel to allow a wood batten (800mm x 25mm x 25mm) to be fixed to the floor midway along the panel. This will prevent the panel moving at the base. Repeat as required for other panels.

(End panel batten dimensions - 600mm x 25mm x 25mm)

Remove the panels and fix the wooded battens to floor – Take care to allow for the thickness of the panel. Fix the batten 4mm in from the marked line to allow for panel thickness. Once fitted the side panel can be clipped into position. Further work may be required before the end panels can be fitted (see step 12).

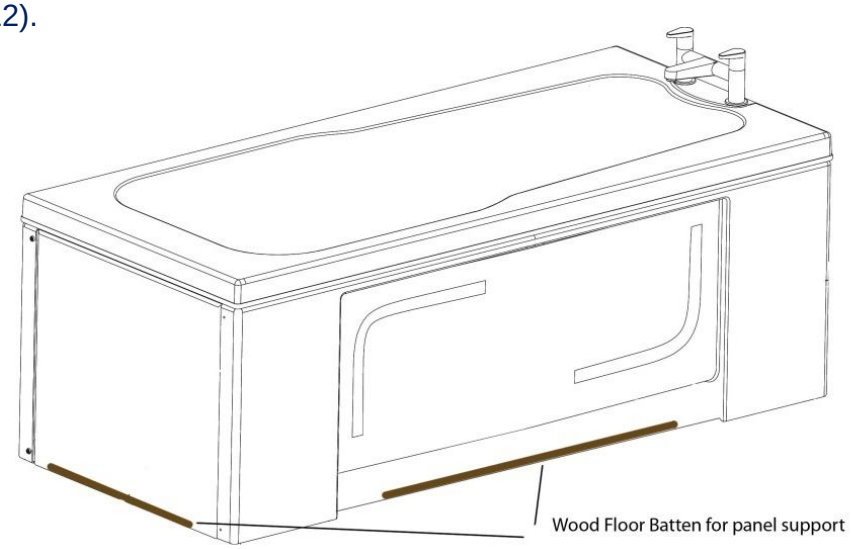


Figure 7.0

Affix wooden battens to the floor to prevent the panel moving at the base.

12) **End Panels** may require trimming depending on the panel configuration:

One Side panel and one End – Trim end panel on the 'wall side'
Two Side panels and one End panel - No trimming required
Two Side panels and two End panels - No trimming required

Where is trimming is required the trim should take place at the start of the 'radius' of the panel. We recommend a wall batten is fitted in a similar manner to the floor battens.

13) **Offer up panels into place** and screw to battens and wall as needed.

14) **Attach labels as required** and fully test sequence prior to handover.

Installation Addendum

Head End Base Plate

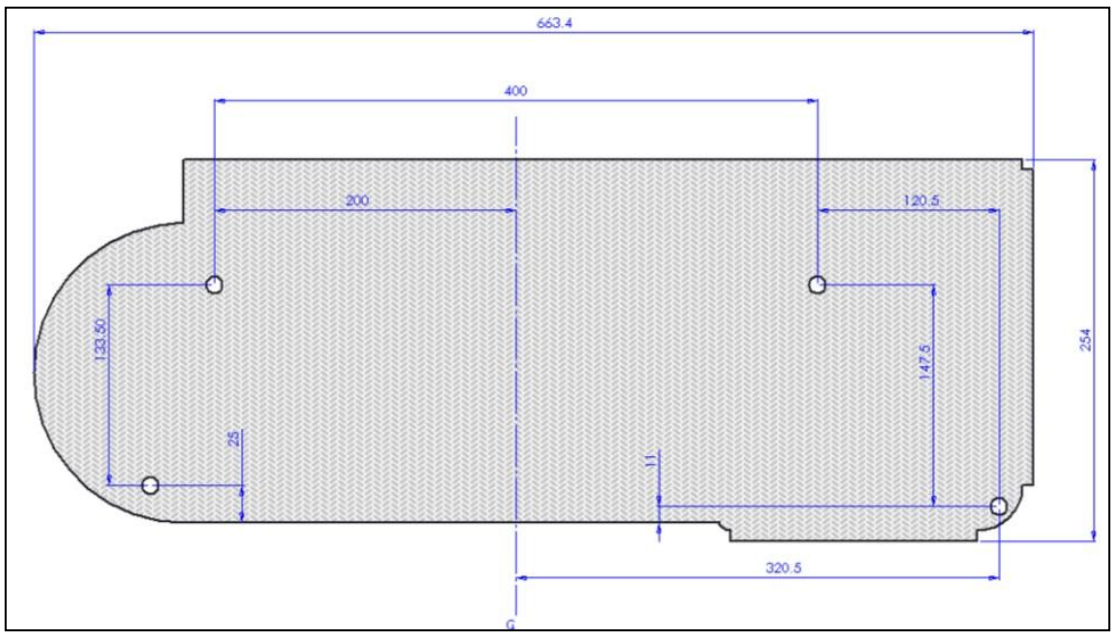


Figure 7.0

Please take note of the floor fixing locations illustrated on the base plate diagram. Precautions should be taken to investigate floor integrity, paying particular attention to the locations marked above.

Reliance WATER CONTROLS™

installation & maintenance guides

Heatguard® TMV3 Thermostatic Mixing Valve

Heatguard® TMV3 Installation Instructions

Installation

Before installing the Heatguard® TMV3 valve ensure that the designation of the valve matches the application, flow rates, dynamic pressures, and temperatures must be within the limits stated.

The Heatguard® TMV3 valve can be installed in any orientation provided that the hot and cold supplies are connected to the appropriate indicated inlets. The Heatguard® TMV3 valve should be fitted with the supplied union type adaptors.

The valve should not be installed until the system has been flushed until free of all debris. Once this is done the strainers and check valves can be fitted into the adaptors and the valve body installed.

The Heatguard® TMV3 thermostatic mixing valve contains temperature sensitive components. Soldering near the union adaptors or main valve body must be avoided.

Commissioning

Please ensure that the commissioning of the valve is done under normal operating conditions. The Heatguard® TMV3 thermostatic mixing valve is supplied factory set at 38˚C. To alter this setting proceed as follows:

1. Remove the cover cap (Fig 1).

2. With both the hot and cold supplies turned fully on and the terminal fitting open, adjust the temperature to the required setting. Using the adjuster tool supplied turn the adjuster clockwise to decrease or anti-clockwise to increase the temperature (Fig 2). A digital hand-held thermometer should be used to measure the outlet temperature correctly.

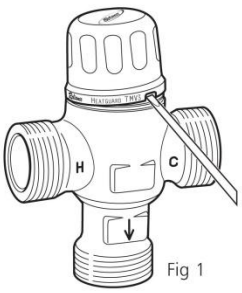


Fig 1

3. Once the correct outlet temperature has been achieved the valve's internal mechanism should be exercised at least 3 times by alternately isolating the hot and cold supplies. This will cause the piston to travel its full stroke and will ensure that the valve is operating correctly. If the set temperature has drifted after this operation then the commissioning operation should be repeated.

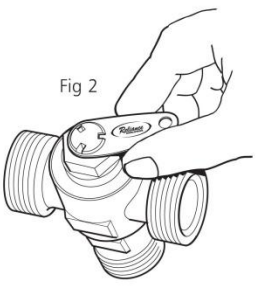
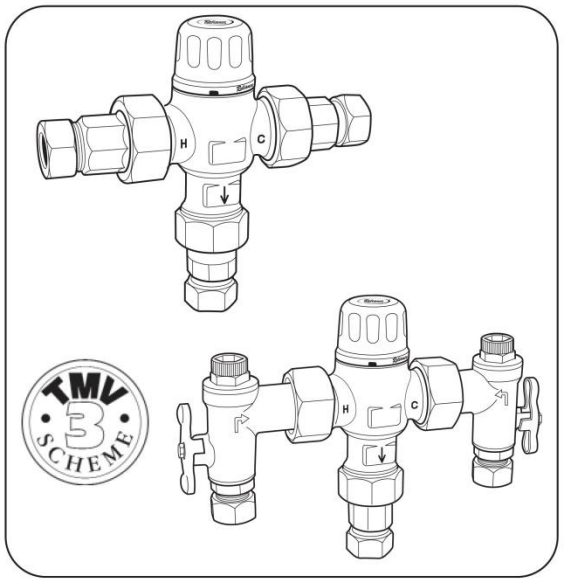


Fig 2

Once the valve has been commissioned a fail-safe shut off test should be performed.

1. Isolate the cold supply. The flow should reduce to a trickle within a second or two depending on site conditions.



The Heatguard® TMV3 is a type 3 thermostatic mixing valve which has been manufactured to NHS model engineering specification DO8 and is approved under the TMV3 scheme.

2. Restore the cold supply and check that the set temperature has not altered.

3. Repeat the test for the hot supply.

If either fail-safe function does not operate, ensure that supply pressures and temperatures are within the valve's normal operating parameters. In addition, check that the hot supply temperature is at least 10˚C above the valve's set mixed outlet temperature i.e. hot to mix differential temperature.
If this is not the case then the valve will be slow to shut down on cold water failure.

For optimum performance it is recommended that the dynamic pressures be as close to equal as possible. If the dynamic pressures are outside a 10:1 ratio then a pressure reducing valve should be fitted to the higher supply pressure or if preferred, the lower supply pressure boosted.

When the Heatguard® TMV3 valve has been set and tested, refit the cap.

A record of the commissioning settings should be made for comparison with future performance checks.

Maintenance

To comply with current NHS guidelines the Heatguard® TMV3 valve should be tested against the original performance results 6-8 weeks after installation. If the temperatures have remained set to within 2˚C and the fail-safe function is operating correctly, then a six monthly cycle of performance testing can be implemented.

Installation Addendum

Reliance WATER CONTROLS installation & maintenance guides

PAGE 2 **Heatguard® TMV3 Thermostatic Mixing Valve**

Performance checks

Performance checks that should be carried out at routine maintenance times are:

1. Check the set temperature using a hand-held digital thermometer.

2. Carry out the cold and hot fail-safe shut off tests.

3. If there is no significant change to the set outlet temperature (2˚C or less change from the original settings) and the fail-safe shut off is functioning, then the valve is working correctly and no further service work is required.

Cleaning the valve

1. Isolate the hot and cold supplies and remove the valve body from the installation by undoing the adaptor union nuts. Make note of the orientation of the parts as they are removed so that they can be reassembled in the correct manner (Fig 3).

2. Remove the check valves and strainers fitted in the adaptors and check for damage, rinse in clean potable water.

3. To clean the internals of the main valve body, first remove the cap, and then carefully remove the valve headwork by unscrewing the large hex nut.

4. Slide the piston and thermostat assembly out of the valve body and clean all internal surfaces and 'O' rings with a weak solution of scale remover approved for use with potable water.

5. Using a WRAS approved silicone based waterproof grease, lightly lubricate the 'O' ring in the body and the external surface of the piston.

6. After cleaning, re-assemble the Heatguard® TMV3 valve. Exercise, reset and test the valve as laid out in the commissioning section.

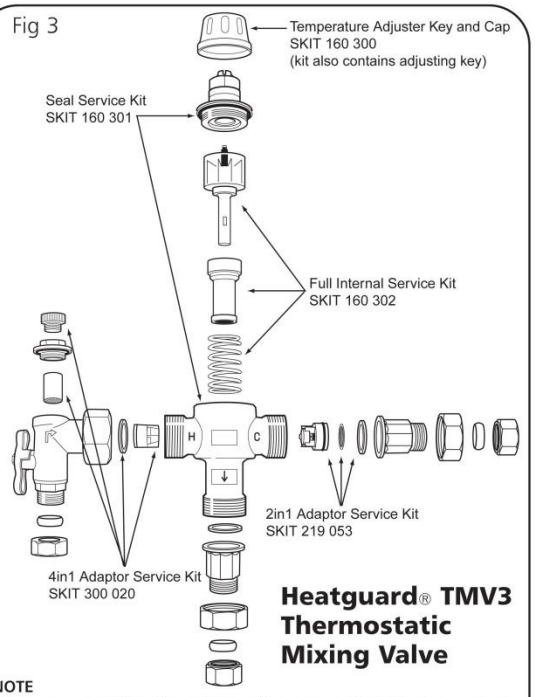
Working parameters and specifications

Factory temperature setting :	38˚C
Temperature setting range :	38-46˚C
Temperature, hot supply :	52-65˚C
Temperature, cold supply :	5-20˚C
Minimum hot to mix differential temperature :	10˚C
Temperature stability :	± 2˚C
Working pressure, static :	16 bar max.
Working pressure, dynamic :	Low pressure 0.2 - 1 bar High pressure 1 - 5 bar
Maximum pressure loss ratio :	10:1
Flow rate, minimum :	4 lpm
Flow rate @ 1bar pressure loss :	21 lpm

Approved specifications

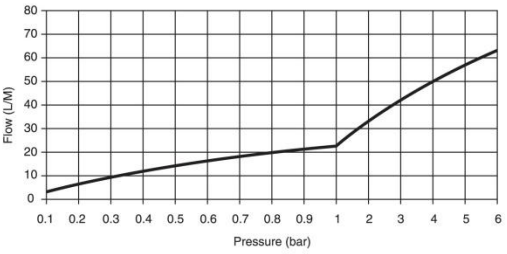
Code	Operating Pressure	Application
HP-S	High Pressure	Shower - maximum temperature 41˚C
HP-W	High Pressure	Washbasin - maximum temperature 41˚C
HP-B	High Pressure	Bidet - maximum temperature 38˚C
HP-T44	High Pressure	Bath fill- maximum temperature 44˚C
LP-S	Low Pressure	Shower - maximum temperature 41˚C
LP-W	Low Pressure	Washbasin - maximum temperature 41˚C
LP-B	Low Pressure	Bidet - maximum temperature 38˚C

Fig 3



NOTE
When re-assembling the mixing valve, ensure that the components are replaced in the correct order (as illustrated).
Use only WRAS Approved silicon based waterproof grease.

Flow Rate



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Troubleshooting

Some basic checks are detailed below. If in doubt contact service support on +44 (0)1527 400022

Seat does not move
Check Spur Fused to ensure there is power to the unit.

Ensure the RCCB is working and has power to it. To test the RCCB push the test button; the RCCB should interrupt power and the switch should trip. Push the RESET button; power should be restored. If the RCCB fails to operate in this manner there is a problem with the electric supply and the service department should be contacted.

If mains power is interrupted the bath will only work on battery backup to allow a user to exit the bath and will then stop. Press ‘Seat out’ which will bring the seat down and out - do not use until the fault is rectified. Once power is restored allow the batteries to recharge before operation (usually 3 hours).

If the bath fails to operate it is worthwhile checking that the handset cord and jack are still firmly located into the panel connector.

Bath Judders/Noisy:
Usually occurs if the bath has not been fixed to the floor correctly or the bath is not level. Please also ensure the chrome shaft is clean and free from dirt.

Bath Beeping
Mains power has failed to the unit- see section titled ‘Seat does not move’. The handset ‘battery’ symbol should be illuminated when the ‘Seat in’ button is pressed.

Bath Leaking:
Look for source of leak-typically caught flexi-hose on feed or waste. This can usually be remedied by your own maintenance contractor.