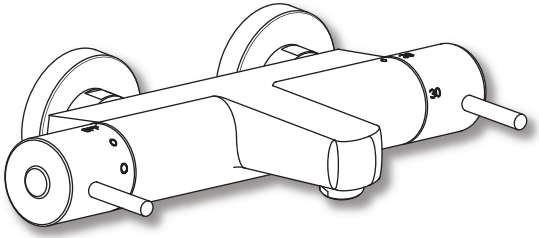
Acura

Bath Filler

AC50010CP and AC50020CP

Installation and Maintenance Instructions



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In this procedure document we have endeavoured to make the information as accurate as possible.
We cannot accept any responsibility should it be found that in any respect the information is inaccurate or incomplete or becomes so as a result of further developments or otherwise.

Introduction

This installation guide has been produced for the Acura bath fillers. These instructions cover the installation, operation and maintenance. Please read the enclosed instructions before commencing the installation of this product, please note;

We recommend that the installation of any Inta product is carried out by an approved installer.

The installation must be carried out strictly in accordance with the Water Supply (Water Fitting) Regulations 1999 and any local authority regulations.

If in doubt we recommend that you contact WRAS - Water Regulations Advisory Scheme on Tel: 0333 207 9030, your local water authority - details available on the WRAS website or the Chartered Institute of Plumbing and Heating Engineers on Tel: 01708 472 791.

All products MUST be re-commissioned to suit site conditions to ensure optimum performance levels of the product are obtained.

It is recommended, especially in hard water areas, that a water softener such as the ActivFlo or ActivFlo lite be fitted to reduce the risk of calcium deposits forming.

Safety

These thermostatic bath fillers must be installed and commissioned correctly to ensure that water is supplied at a safe temperature to suit the users.

43°C is the maximum mixed water temperature from a bath filler. The maximum temperature takes account of the allowable tolerances inherent in thermostatic bath filler and temperature losses.

It is not a safe bathing temperature for adults or children.

The British Burns Association recommends 37 to 37.5°C as a comfortable washing temperature for children. In premises covered by the Care Standard Act 2000, the maximum mixed water outlet temperature is 43°C.

Products

Acura Thermostatic Bath Filler	AC50010CP
Acura Thermostatic Bath Filler with deck mounting legs	AC50020CP

Check Content

Before commencing remove all components from packaging and check each component with the contents list.

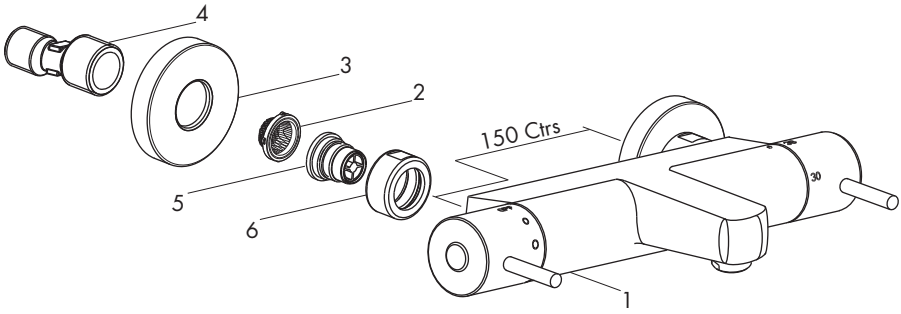
Ensure all parts are present, before discarding any packaging. If any parts are missing, do not attempt to install your Inta bath filler until the missing parts have been obtained.

Components

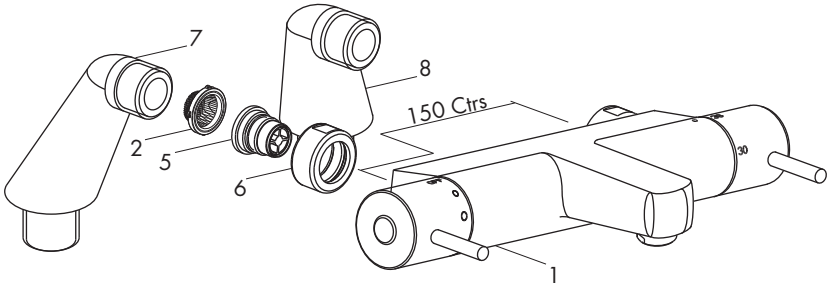
Item	Qty	Component
1	1	Body
2	2	Filter sealing washer
3	2	Concealing plate
4	2	Off set connector
5	2	Check valve
6	2	Union nut

Item	Qty	Component
		AC50020CP only
7	1	Left deck mounting leg
8	1	Right deck mounting leg

AC50010CP



AC50020CP



Note: The deck mounting legs are supplied complete with retaining nuts.

Technical Data

The Inta Acura thermostatic bath filler is suitable for installations on all types of plumbing systems, including gravity supplies, fully pumped, modulating combination boiler, unvented water heater and unbalanced supplies i.e. Cold Mains & Tank Fed Hot. They are not suitable for non-modulating combination boilers.

Max Inlet Pressure (Static)	12 bar	Max Inlet Temperature	85°C
Max Inlet Pressure (Dynamic)	5 bar	Pre Set Factory Temp Setting	38°C
Min Operating Pressure (Dynamic)	0.2 bar	Temperature Stability	±2°C
Max Unbalanced Pressure Ratio	5:1	Min Temp Differential to	
Inlet Connections (Body only)	G¾"	ensure fail-safe between hot	
Inlet Con. Deck Mounting legs	G¾"	and cold supplies	10°C

Unvented Mains Pressure System

The drawing shows a typical installation of a bath filler in conjunction with an unvented hot water system. This type of installation must be carried out in accordance with Part G of the Building Regulations.

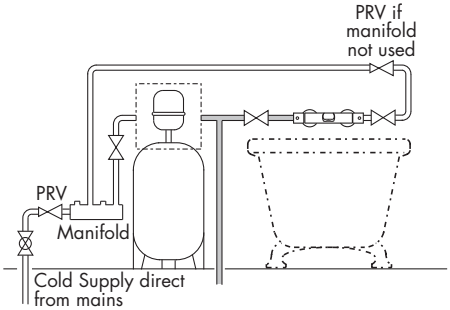
Whilst pressures are theoretically equal (balanced) most unvented hot systems have a pressure reducing valve on the incoming cold water prior to the hot water storage vessel. This means that the hot and cold pressures can be significantly different.

Most unvented systems use an inlet manifold located directly after the pressure reducing valve.

It is recommended that the cold supply be taken from one of the outlets of the manifold directly to the bath filler as an independent supply.

For systems without a manifold unit after the pressure reducing valve and where the cold water supply pressure is significantly higher than the hot supply we recommend that a separate pressure reducing valve is fitted to the cold supply, as close as possible to the bath filler and with no draw off points between it and the bath filler.

Flow regulators are required for installations where a PRV is not fitted to ensure simultaneous demand is accounted for.



Pumped Systems

Pumped systems use a booster pump to increase the pressure of the gravity fed water supplies.

These booster pumps are used where the head of water is insufficient to provide a satisfactory bath fill or where a high performance bath fill is required.

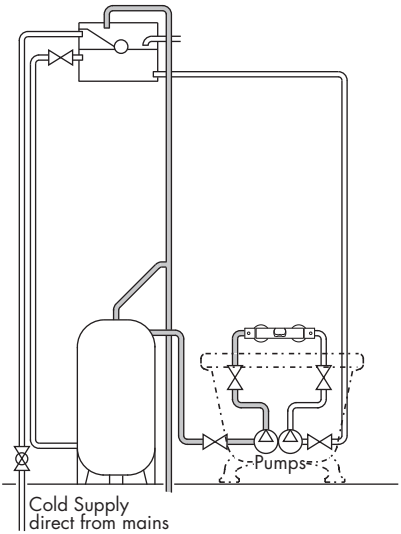
Please ensure that the performance of the pump is matched to suit the bath filler.

Follow the instructions for gravity fed installations taking into account the installation requirements of the pump.

Ensure that the hot and cold water storage capacity is sufficient to supply the bath filler and any other draw off points that may be used simultaneously.

Most pumps require a minimum head of water to allow the flow switches to operate automatically. Where this is not available a negative head kit may be required to operate the pump.

Please consult the pump manufacturer's installation requirements.



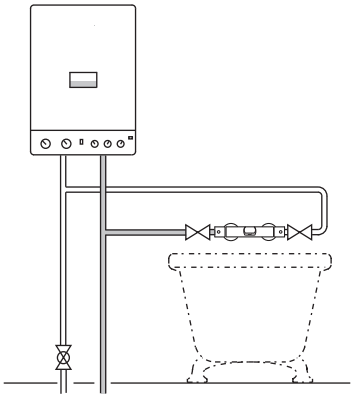
Modulating Combi Boiler / Instantaneous Gas Water Heater

The drawing shows a typical installation of a bath filler in conjunction with a combination boiler.

Combi boilers will produce a constant flow of water at a temperature within its operating range. However we recommend that the system should supply hot water in excess of 60°C.

The hot water flow rates are dependant upon the type of boiler / heater used and the temperature rise required to heat the cold water to the required temperature.

The cold water flow rates may be much greater as they are generally unrestricted from the mains cold water supply. To ensure relatively balanced flow rates, we recommend that a pressure reducing valve or 6 l/min flow regulator is fitted in the cold water supply pipe.



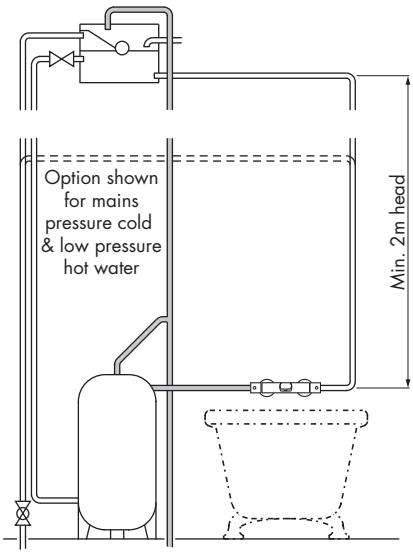
Gravity System

The drawing shows a typical installation of a bath filler on a gravity supplied system.

Please note the minimum head pressure required to ensure operation of the valve. In accordance with good plumbing practice, we recommend that a totally independent hot and cold water supply be taken to the valve.

The cold water supply must be connected directly to the water cistern. The hot water supply should be connected to the hot water cylinder via an Essex flange or Sussex flange or to the vent or a draw off pipe as close as possible to the top of the cylinder.

For equal tank fed pressures there is no need to fit the flow regulators. This installation is the recommended minimum for gravity supplies. For systems with less than 2 metre head pressure, we recommend that a suitable booster pump is fitted to increase the supply pressure.



Cold Mains & Gravity Hot Supplies

If the cold supply to the bath filler is direct from the cold water mains and the hot water supply is gravity fed from the cold water cistern via the hot water cistern you MUST fit a pressure reducing valve or a 6 l/min flow regulator.

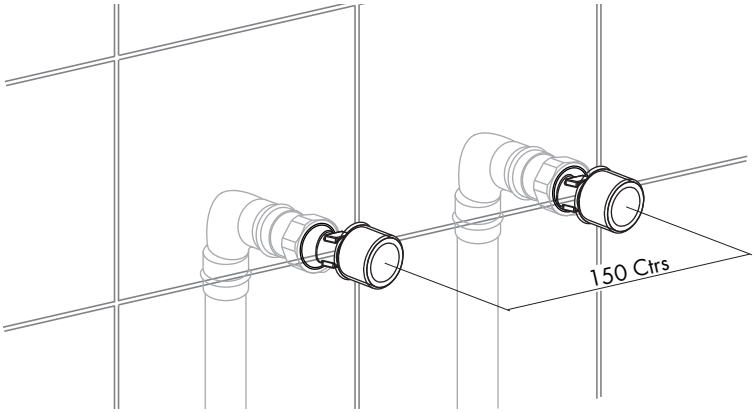
Site Preparation

It is important to plan the installation thoroughly to suit site conditions before commencing.

- Before commencing the installation ensure site conditions are suitable.
- The bath filler is designed for concealed pipework, whether in a solid or studded wall.
- The thickness of wall tiles, plaster or plaster board should all be considered when routing the hot and cold supply pipes.
- The valve requires the offset connectors to have 150mm centres and sufficient thread must protrude from the finished tiled surface to allow the concealing plates to be fitted and the union nuts to be fully tightened.
- Ensure the bath filler will be horizontal when installed.
- The supply pipes can come from below, above, the side or through the wall.

Site Preparation

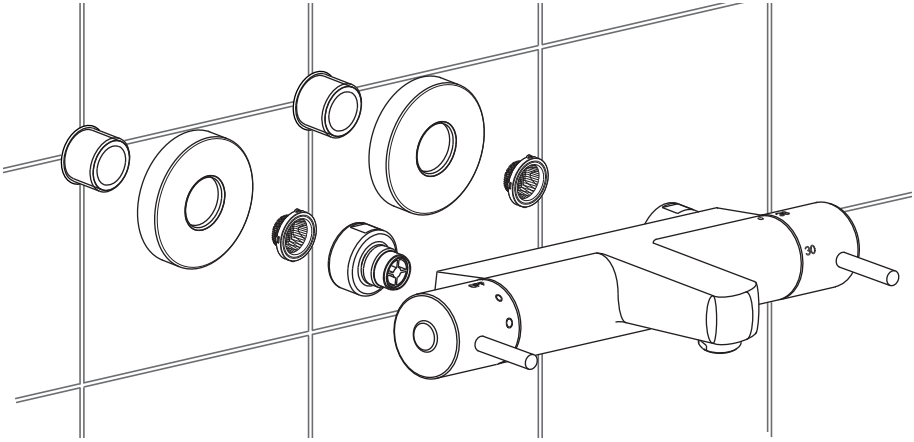
- The supply pipes and offset connectors must be firm and secure to support the bath filler. If not embedded into the wall with plaster the pipes should be fixed securely to the studding or by using a mounting plate (not supplied).
- Angle tap swivel connectors or compression/solder fittings can be used to connect the pipes (not supplied).
- The whole system should be thoroughly flushed, prior to the connection of the hot and cold water supplies to the bath filler, to remove any debris that may be in the supply pipework.
- Ensure there are no joint leaks before finishing the wall.
- Isolation valves must be fitted in an accessible position to both the hot and cold supplies should the valve need to be isolated in the future for servicing.



Installing the Bath Filler - Wall Mounted

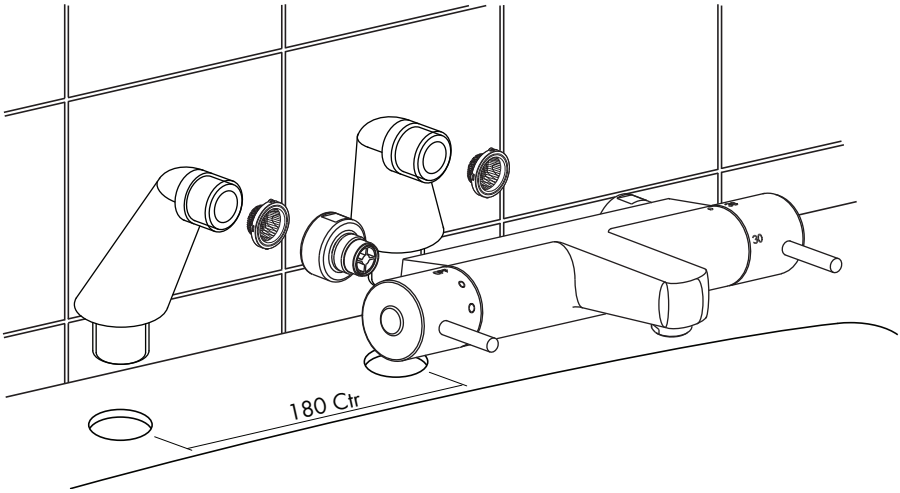
- Seal the gaps between offset connectors and tiles with mastic.
- Place the concealing plates, with a bead of mastic on the back, over the hot and cold offset connectors and press firmly to the wall.
- Fit the bath filler to the offset connectors ensuring that the filter sealing washers are fitted and hand tighten the union nuts.
- Using a suitably sized spanner, tighten the union nuts taking care not to damage the finish on the bath filler, do not over tighten.

Installing the Bath Filler - Wall Mounted



Installing the Bath Filler - Deck Mounted

- The deck mounting legs enable the bath filler to be mounted directly onto the bath and increase the 150mm inlet centres of the valve to 180mm.
- Connect the deck mounting legs to the bath filler, ensuring that the filter sealing washers are fitted and hand tighten the union nuts.
- The easiest way is to fit the valve and mounting legs to the bath is to do so before the bath is installed, when access to the retainings and other fittings are easily accessible.



Installing the Bath Filler - Deck Mounted

- Fit the bath filler and mounting legs to the bath using the retaining nuts (supplied) and tighten to secure to the bath.
- Straight tap swivel connectors or compression/solder fittings can be used to connect the pipes (not supplied).
- The whole system should be thoroughly flushed, prior to the connection of the hot and cold water supplies to the bath filler, to remove any debris that may be in the supply pipework.
- Using a suitably sized spanner, tighten the union nuts taking care not to damage the finish on the bath filler, do not over tighten.
- Ensure there are no joint leaks.
- Isolation valves must be fitted in an accessible position to both the hot and cold supplies should the valve need to be isolated in the future for servicing.
- The edge of the bath should be sealed to the wall to prevent water damage to the floor beneath the bath and ceiling below.

Calibration

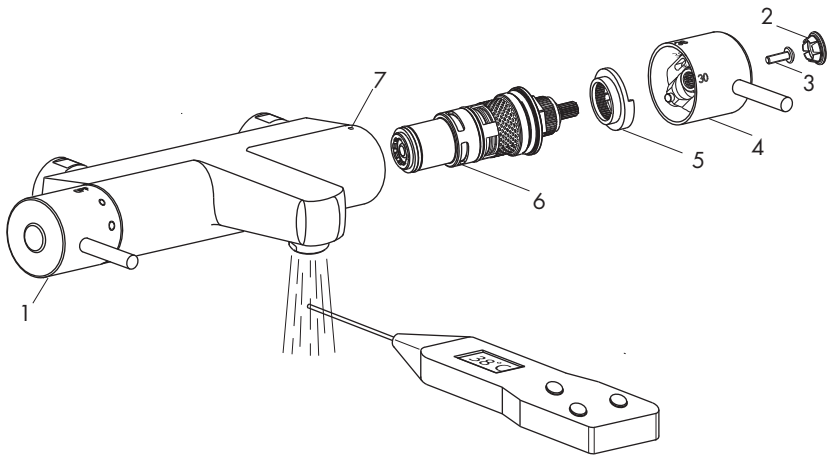
The Acura bath filler has a factory set outlet temperature of 38˚C via the security setting. This is based on a balanced supply pressure and a stable hot water inlet temperature of 55˚C to 65˚C.

However, the calibration point **MUST** be checked and re-set as necessary to suit site conditions.

Care must be taken when re-calibrating the valve as **INCORRECT CALIBRATION CAN CAUSE INJURY.**

- Remove the cover (2), retaining screw (3) and temperature control knob (4) by pulling away from the bath filler and the temperature stop ring (5).
- Fully open the flow control (1) and allow the outlet temperature to stabilise.
- Temporarily refit the control knob (4) and using a digital thermometer it is possible to increase or reduce the mixed water outlet temperature until 38˚C is re-established, by slowly rotating the control knob.
- Remove the control knob (4) and refit the temperature stop ring (5) onto the splined section of the cartridge. The red dot on the temperature stop ring must align with the temperature position symbol (7) on the valve body.
- Refit the temperature control knob in the reverse order ensuring that 38˚C on the control knob is in line with the temperature position symbol (7).

PLEASE NOTE THAT ONCE CALIBRATED, THE SECURITY SETTING WILL ONLY BE 38˚C UNDER THE SUPPLY CONDITIONS USED FOR CALIBRATION.



Cartridge Replacement

- Isolate both the hot and cold water supplies
- Remove the cover (2), retaining screw (3) and temperature control knob (4) by pulling away from the bath filler and the temperature stop ring (5).
- Using a suitable spanner unscrew the cartridge (6).
- Replace with a new cartridge.
- Refit the temperature stop ring (5) onto the splined section of the cartridge. The red dot on the temperature stop ring must align with the temperature position symbol (7) on the valve body.
- Refit the temperature control knob in the reverse order ensuring that 38°C on the control knob is in line with the temperature position symbol (7).
- The bath filler must be re-calibrated after fitting the new cartridge following the procedure above.

Aftercare

Inta bath fillers have a high quality finish and should be treated with care.

An occasional wipe with a mild washing-up liquid on a soft damp cloth followed by a thorough rinsing is all that is required.

Do not use an **abrasive** or **chemical household cleaner** as this may **cause damage**.

Spares

A full range of spares are available for this product.

PLEASE NOTE: Only genuine spares should be used.

Problem Solving

The following details are supplied for on site queries, should you require any further assistance our Technical Department can be contacted directly on 01889 272199.

Fault	Solution
Bathing temperature is not hot enough.	Ensure the hot water supply is at a constant temperature above 60°C. Check for air locks in the pipework.
The water goes cold during filling.	Insufficient stored hot water. When used with a combi boiler confirm that the boiler is still firing. Adjust the boiler to a minimum setting of 65°C which may not necessarily be the best flow rate.
When the water is set at cold, the filling temperature is too hot.	The hot and cold supply connections have been made in reverse.
The maximum bathing temperature is too hot or when set to hot water runs to cold.	Check the commissioned maximum temperature of the bath filler. Check the connections to the bath filler have not been made in reverse.
The flow of water from the bath filler is low.	Check the filters are clean and the supply pressure is above 0.2 bar.
No flow of water	Ensure the bath filler has not fail-safed and check that there is hot and cold water flow to the filler. Ensure the check valves are not closed.

Notes

Notes

Notes

Please leave this Manual for the User

To activate your product warranty please visit

www.intatec.co.uk

and click on Product Registration

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