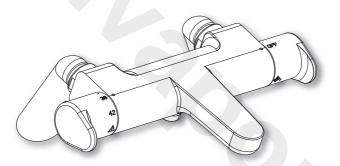
# inta

# Enzo Bath Shower Mixing Valve EN90015CP

# Installation and Maintenance Instructions



inta

Intatec Ltd Airfield Industrial Estate Hixon Staffordshire ST18 OPF

Tel: 01889 272 180

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.

Fax: 01889 272 181 email: sales@intatec.co.uk web: www.intatec.co.uk



#### Introduction

This installation guide has been produced for the Enzo bath shower mixer. 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

### Safety

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

The shower is pre-set using ideal conditions to 38°C at the stop with a manual push button override to 46°C (can be re-set to suit site conditions or user preference – see calibration page 7).

The maximum mixed temperature takes account of the allowable tolerances inherent in thermostatic shower mixers 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 bathing temperature for children. In premises covered by the Care Standard Act 2000, the maximum mixed water outlet temperature is 43°C.

#### **Products**

Enzo Safe Touch Thermostatic Bath Shower Mixer with Deck Mounting Legs, Adjustable Flexible Slide Rail Kit and Push Button Handset. EN90015CP



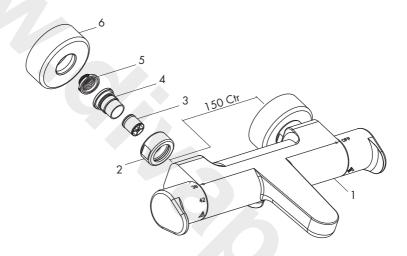
# Components - EN30010CP - valve only

# **Item Qty Component**

- 1 1 Body
- 2 2 Union nut
- 3 2 Check valve

# **Item Qty Component**

- 4 2 Connector/check valve housing
- 5 2 Filter sealing washer
- 6 2 Concealing plate





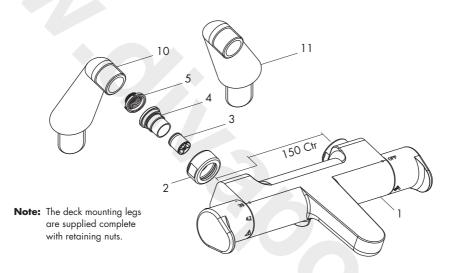
## **Components - EN90015CP**

#### **Item Qty Component**

- 1 1 Body
- 2 2 Union nut
- 3 2 Check valve
- 4 2 Connector/check valve housing

#### **Item Qty Component**

- 5 2 Filter sealing washer
- 10 1 Left deck mounting leg
- 11 1 Right deck mounting leg



#### **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 shower valve until the missing parts have been obtained.



#### **Technical Data**

This Inta Enzo thermostatic bath shower mixer is suitable for installations on all types of plumbing system, 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)	10 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	
Outlet Connection	G½″	and cold supplies	10°C
Inlet Con. Deck Mounting Leas	G3/4"		

#### **Unvented Mains Pressure System**

The drawing shows a typical installation of a bath shower mixing valve 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.

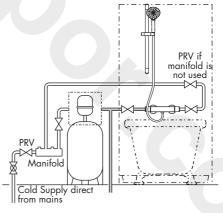
Whilst pressures are theoretically equal (balanced) most unvented hot systems have a pressure reducing valve on the incoming cold water prior to the hot water storage vessel. This means that the hot and cold pressures can be significantly different.

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 shower 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 shower valve and with no draw off points between it and the bath shower mixing valve.

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





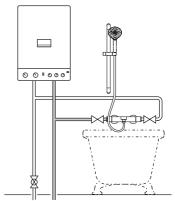
# Modulating Combi Boiler / Instantaneous Gas Water Heater

The drawing shows a typical installation of a bath shower mixing valve 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 dependent 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.



## **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 shower or where a high performance shower is required.

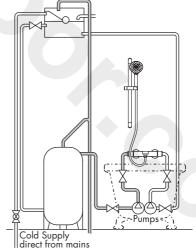
Please ensure that the performance of the pump is matched to suit the shower

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 shower 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





#### **Gravity System**

The drawing shows a typical installation of a bath shower mixing valve 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.

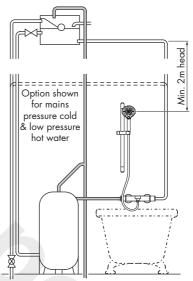
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The cold water supply must be connected directly to the water cistern. The hot water supply should be connected to the hot water cylinder via an Essex flange or Sussex flange or to the vent or a draw off pipe as close as possible to the top of the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

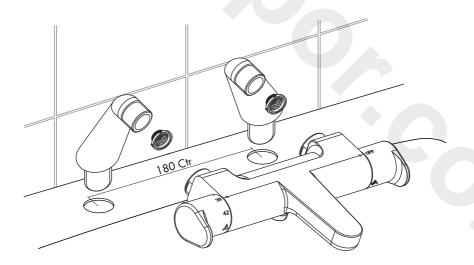
If the cold supply to the shower is direct from the cold water mains and the hot water supply is gravity fed from the cold water cistern via the hot water cistern you MUST fit a pressure reducing valve or a 6 l/min flow regulator.





# Installing the Bath Shower Mixer - Deck Mounted

- The deck mounting legs enable the bath shower valve 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 shower valve, 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 retaining nuts and other fittings are easily accessible.
- Fit the valve 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 shower mixing valve, to remove any debris that may be in the
  supply pipework.
- Using a suitably sized spanner, tighten the union nuts, ensuring that the filter sealing washers
   (5) are fitted, taking care not to damage the finish on the shower valve, 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**

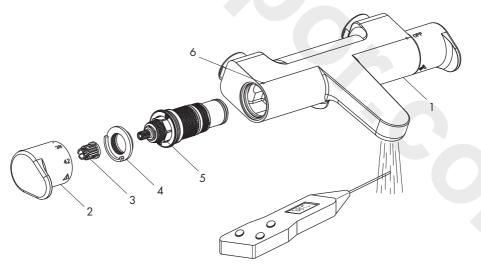
The Inta Enzo bath shower mixing valve has a factory set outlet temperature of 38°C via the security setting. This is based on a balanced supply pressure and a stable hot water inlet temperature of 65°C.

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 temperature control knob (2) by pulling away from the shower valve, the gear drive (3) and the temperature stop ring (4).
- Fully open the flow control (1) and allow the outlet temperature to stabilise.
- Temporarily refit the control knob (2) 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 (2) and refit the temperature stop ring (4) onto the splined section of the cartridge. The red dot on the temperature stop ring must align with the temperature position symbol (6) on the valve body.
- Refit the gear drive (3).
- Refit the temperature control knob in the reverse order ensuring that rib on the control knob is in line with the temperature position symbol (6).

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 temperature control knob (2) by pulling away from the shower valve, the gear
  drive (3) and the temperature stop ring (4).
- Using a suitable spanner unscrew the cartridge (5).
- Replace with a new cartridge.
- Refit the temperature stop ring (4) onto the splined section of the cartridge. The red dot on the temperature stop ring must align with the temperature position symbol (6) on the valve body.
- Refit the gear drive (3).
- Refit the temperature control knob in the reverse order ensuring that the rib on the control knob is in line with the temperature position symbol (6).
- The shower valve must be re-calibrated after fitting the new cartridge following the procedure above.

#### **Aftercare**

Inta bath shower mixing valves 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.

The nozzles in the hand set or overhead soaker should be cleaned periodically to remove any build up of debris or deposits which may affect the performance of the shower.

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.



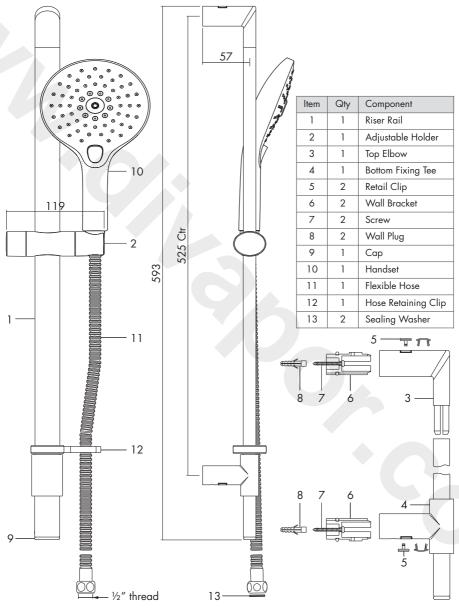
# **Problem Solving**

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	
Showering 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. Thermostatic cartridge movement limited due to lime scale build up	
The water goes cold during showering.	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 showering temperature is too hot.	The hot and cold supply connections have been made in reverse. Thermostatic cartridge movement limited due to lime scale build up	
The maximum showering temperature is too hot or when set to hot water runs to cold.	Check the commissioned maximum temperature of the shower valve. Check the connections to the valve have not been made in reverse. Thermostatic cartridge movement limited due to lime scale build up	
The flow of water from the shower valve is low.	Check the filters are clean and the supply pressure is above 0.2 bar.	
No flow of water	Ensure the valve has not fail-safed and check that there is hot and cold water flow to the valve. Ensure the check valves are not closed.	
Shower is stiff to operate	Build-up of limescale on flow control cartridge - service and de-scale	
Passing/dripping from outlet	Service flow control cartridge.	



# Flexible Riser Rail - Dimensions





#### **Installing the Riser Rail**

The screws and wall plugs supplied are only suitable for use in solid walls. If the wall is plaster board or soft building block use special wall plugs obtainable from most DIY stores.

Ensure there are no supply pipes or cables where you intend to drill.

Where possible, drill holes between ceramic tiles (in the grout). If drilling into ceramic tiles use a ceramic bit.

This product must always be used and fitted in such a way as not to cause water damage, therefore should be located and directed towards a suitable bath or shower tray.

Take care to use power tools safely.

Drill the 6mm diameter hole for the lower wall bracket (6).

To avoid cracking ensure the wall plug is pushed all the way behind the ceramic tile.

Using the 35mm long screw provided (7) secure the wall bracket (6) to the wall ensuring the correct orientation for the bracket with the hole for the clip (5) at the bottom.

Assemble the handset holder (2) and hose retaining clip (12) onto the riser rail as illustrated.

Push the riser rail (1) fully onto the bottom elbow (3).

Locate the bottom fixing tee (4) onto the riser rail near the bottom as shown ensuring the riser rail is vertical.

Mark round the top fixing elbow with a removeable marker onto the wall.

Position the top wall bracket (6) onto the wall within the markings and using the hole as a template drill a 6mm diameter hole.

Fix the upper wall bracket (6) to the wall using the 35mm long screw (7) and ensure the hole for the clip is at the top.

Refit the riser rail elbow and tee onto the two wall brackets and hold in position by inserting the plastic clips (5) into the hole in each elbow.

Ensure the sealing washers (13) are inserted into both ends of the flexible hose and connect the hose to the shower valve and the handset (10).

Turn on the shower valve and check joints for leakage.

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Notes:



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Notes:





# Please leave this Manual for the User

To activate your product warranty please visit

www.intatec.co.uk

and click on Product Registration

Intatec Ltd
Airfield Industrial Estate
Hixon
Staffordshire
ST18 OPF

Tel: **01889 272 180** Fax: **01889 272 181** 

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web: www.intatec.co.uk