

# Aquatherm Best System Potable Water Q&A

**B** racketing

**E** xpansion

**S** ystem

**T** emperature / pressure

Aquatherm manufactures the world's best PPR piping system and in order for the system to work optimally it needs to be correctly installed. BEST is derived from the four key elements (Bracketing, Expansion, System, Temperature/Pressure) which play a crucial role in a successful installation.

BEST covers the whole construction process. (Pre-Construction/ Construction/Post-Construction).

All pipe work should be installed as per the aquatherm technical catalogue.

Please fill in each box & return it back to aquatherm NZ Po Box 99393 Newmarket Auckland or E-mail [reception@aquatherm.co.nz](mailto:reception@aquatherm.co.nz).

Project name	<input type="text"/>
Project address	<input type="text"/>
Constructors name	<input type="text"/>
Installation company name	<input type="text"/>
Engineer (Company and designer)	<input type="text"/>
Lead installer name	<input type="text"/>
Type of installation	<input type="text"/>
Height of building	<input type="text"/>

## Best Q&A

Installers Aquatherm licence number	<input type="text"/>
Aquatherm licence expiry date	<input type="text"/>

## Pipe Sizing

All pipes sized to allow for ID- OD requirements	<input type="checkbox"/> Yes	<input type="checkbox"/> No
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## Cold water main

Pipe type used

Incoming mains pressure

 kPa

Water treatment

 Yes No Type

Filter

 Yes No

Reducing valve

 Yes No kPa

Pump booster pressure

 N/A kPa

Installer notes:

## Plantroom

Location (Roof, Basement or other. Specify)

Pipe type used

Cold water pressure at inlet of plantroom

 kPa

Installer notes:

## Heat Source

Preheat

 Yes No Degrees C

Boiler

 Yes No Degrees C

Heat pump

 Yes No Degrees C

Solar

 Yes No Degrees C

Other (Specify)

 Yes No Degrees C

Heat exchange outlet temp

 Yes No Degrees C

Cylinder

 Yes Yes Degrees C

Storage tank

 Yes Yes Degrees C

Electric

 Yes No Degrees C

Gas

 Yes No Degrees C

UV Sterilization

 Yes No Degrees C

Ring main

 Yes No

Installer notes:

## Temperature Control

**Note: Temperature and Pressure must be within aquatherm permissible working chart. aquatherm recommends temperatures below 70 degrees C for any DHW systems and velocities should be within international guidelines.**

3 port tempering valve type and temp	<input type="text"/>	<input type="text"/>	Degrees C
4 port blending valve type and temp	<input type="text"/>	<input type="text"/>	Degrees C
BMS	<input type="text" value="Yes"/>	<input type="text" value="No"/>	<input type="text"/>
BMS Alarmed for over temp	<input type="text" value="Yes"/>	<input type="text" value="No"/>	<input type="text"/>
Other method of over temp monitoring	<input type="text"/>		

**Note: aquatherm recommends the use of a tempering or blend valve to control temperature in system.**

## Expansion control

TPR Valve	<input type="text" value="Yes"/>	<input type="text" value="No"/>	<input type="text"/>	kPa
Expansion tank	<input type="text" value="Yes"/>	<input type="text" value="No"/>	<input type="text"/>	kPa
Cold water expansion valve	<input type="text" value="Yes"/>	<input type="text" value="No"/>	<input type="text"/>	kPa

**Note: Cold water expansion valves shall be set at no greater than 20% higher than operating pressure.**

**Installer notes:**

## DHW Pipe selection

Pipe type used

**Note: Aquatherm recommends the use of MF pipes in all DHW installations**

## Linear expansion

**Note: Cold water pipes have practically no expansion, however linear expansion of pipes are the difference between operating temperature and the ambient air temperature surrounding the installation. DHW installation MUST allow for thermal installation.**

**Failure to do so will reduce the life expectancy of the installation.**

**Please check aquatherm technical catalogue or website under Technical Resource to work out the expansion required.**

Linear expansion per meter allowed for	<input type="text"/>	mm	
Outdoor	<input type="text" value="Yes"/>	<input type="text" value="No"/>	
Underground	<input type="text" value="Yes"/>	<input type="text" value="No"/>	
Indoor open space	<input type="text" value="Yes"/>	<input type="text" value="No"/>	
Outdoor closed space	<input type="text" value="Yes"/>	<input type="text" value="No"/>	
Insulated	<input type="text" value="Yes"/>	<input type="text" value="No"/>	<input type="text"/>
Installed as per manufacturers instructions	<input type="text" value="Yes"/>	<input type="text" value="No"/>	If no, comment below

Attach copy of asbuilt drawing. Mark relevant information re. bending legs or expansion loops.

**Note: Every 20m of straight pipe should have a change of direction of a bending leg.**

**Installer notes:**

## Bracketing

All pipes must be bracketed with a aquatherm approved green rubber clamp, with expansion spacers and/or brackets, clips, clamps that are approved by aquatherm NZ Ltd in writing.

Installed using Aquatherm supplied fastenings	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Answer NO may void warranty
Installed as per manufacturers instructions	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If no, comment below

**Note: When bracketing risers, ensure the positioning of brackets directly below each branch off point.  
All brackets must be installed as fixed points in the riser.**

Installer notes:

## Pressure testing

**Note: PP-R pipe systems result in an expansion of the pipe during the pressure test, tight clips or jammed pipe in frame work will result in an incomplete pressure test.**

Aquatherm pressure test completed	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Please attach
Aquatherm BEST plantroom sticker installed	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Aquatherm GmbH warranty completed	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Please attach

Name \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_