

# RECOUP PIPE HEX INSTALLATION INSTRUCTIONS

INCLUDES THE RECOUP PIPE HEX RD

## SHOWER WASTE WATER HEAT RECOVERY SYSTEM

**These instructions must be left with the user.**



### 1. Introduction

These instructions are for the RECOUP Pipe HEX and RECOUP Pipe HEX Rd. The RECOUP Pipe HEX Rd is a 1700mm reduced length and reduced performance version of the 2100mm RECOUP Pipe HEX. **Where these instructions refer to RECOUP Pipe HEX the same will apply for the RECOUP Pipe HEX Rd unless stated otherwise.**

The RECOUP Pipe HEX is a vertical Waste Water Heat Recovery System for showers (WWHRs). It recovers heat from the warm waste water as it passes through the unit, before going to the drainage system. The heat recovery is possible due to the double walled heat exchanger within the RECOUP Pipe HEX being manufactured from copper, a very effective material for transferring heat. The double walled exchanger gives full protection against any contamination between the waste water going out and the fresh potable water coming in. This preheated water then supplies the mains cold feed to the shower and/or a water heater (Combi-boiler, hot water storage cylinder, Thermal store or HIU).

The reason for doing this is to save money and energy. In an average shower, the water will come out of the shower head at 40°C, and the water going down the drain will only be a few degrees cooler than this. This energy has been paid for once, we believe at RECOUP that the home owner should get as much benefit from this energy before paying to heat more water. Whilst at the same time reduce the energy consumption and CO<sub>2</sub> emissions of the home.

The RECOUP Pipe HEX should be installed by a suitably qualified plumber who gives consideration and attention to the system design as well as a correct installation.

The RECOUP Pipe HEX is a vertical heat exchanger, and is designed to work with showers positioned on the first floor or above. It is very important to follow all the instructions for installation of the RECOUP Pipe HEX for the product to perform optimally.

### IMPORTANT - Standard Assessment Procedure (SAP)

For recognition of the RECOUP Pipe HEX energy saving performance within the National Calculation Method (NCM) for the energy rating of a new build dwelling within the UK (also known as the Standard Assessment Procedure (SAP)) it is vital that the pre-installation requirements (Section 3) and installation process (Section 4) contained in this installation manual are followed correctly and complied with fully.

An NCM (SAP) identifier label (already applied) is permanently fixed to the RECOUP Pipe HEX unit. A second label supplied with these instructions for application must be attached to a nearby water heater or service cupboard within the property. The 'model qualifier' section of the first label denotes the system installation method (A, B or C) and will state 'Refer to installation certificate **otherwise System B will be assumed.** The actual system installation method will be recorded on the installation / warranty certificate and the second NCM (SAP) identifier label. The second NCM (SAP) label applied within the property must be edited to record the installation method (A, B or C) when installed along with the product details.



## 2. Product technical data 2.a) General Information

Description	Pipe HEX	Pipe HEX Rd
Overall height required for installation	2308 mm	1908 mm
Outside diameter of external tube	63 mm	
Material - Internal tube	Copper	
Material - External tube	PVC	
Advised shower flow rate range (when installed as System A)	5 - 15 Litres/min	
Max. Mains water inlet pressure	10 bar	
Min. Mains water inlet pressure	1 bar	
Max. Mains water working temp	40 °C	
Mains & Preheated water connection	½" female BSP	
Shower waste in & soil waste water out connection	43 mm	
Full product weight	10 kg	8 kg
Water volume - mains water	0.3 Litres	0.24 Litres

The mains water and preheat connections are a ½" female BSP connector which can be joined to either a 15mm pipe or a 22mm pipe with a reducer. The supplied waste water out reducer converts to 43mm solvent weld pipe.

## 2.b) Performance & Efficiency - Based on KIWA test data and PCDB figures for SAP 2012

Shower Flow Rate @ 40°C (Litres/min)	RECOUP Pipe HEX Efficiency (Recovered energy kW)		
	System A	System B	System C
9.2	65.2% (10.88)		
11.0	63.6% (12.69)	49.9% (9.96)	54.0% (10.77)
12.5	62.5% (14.17)		
Shower Flow Rate @ 40°C (Litres/min)	RECOUP Pipe HEX Rd Efficiency (Recovered energy kW)		
	System A	System B	System C
9.2	60.0% (10.01)		
11.0	57.3% (11.43)	45.3% (9.04)	49.6% (9.90)
12.5	55.5% (12.58)		

## 2.c) Pressure drop on main water circuit - Calculations based on DHW at 60°C

Shower Flow Rate @ 40°C (Litres/min)	RECOUP Pipe HEX Pressure Drop (bar)		
	System A	System B	System C
9.2	0.39	0.26	0.20
12.5	0.67	0.45	0.34
Shower Flow Rate @ 40°C (Litres/min)	RECOUP Pipe HEX Rd Pressure Drop (bar)		
	System A	System B	System C
9.2	0.259	0.174	0.130
11.0	0.361	0.242	0.181
12.5	0.441	0.295	0.221

Pressure drop figures are based on 10°C cold water temperature, 40°C shower water and 60°C hot water.

## 3. Pre-installation requirement 3.a) Basic system principle

The RECOUP Pipe HEX is a Waste Water Heat Recovery System (WWHRS) for shower water, meaning it recovers heat from the warm waste water from a shower as it passes through before going to the drainage system for the property. This preheated water then supplies the mains cold feed to the shower and the Domestic Hot Water (DHW) heater or in the case of system configurations System B and System C, the shower or the DHW heater respectively. The DHW heater could be, but is not limited to:

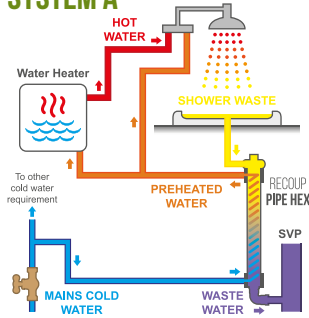
- Unvented hot water cylinder
- A combination boiler
- A thermal store or heat battery (Mains pressure DHW delivery)
- A Heat Interface Unit (HIU) on a district heating scheme (Mains pressure DHW delivery)

**Note: The DHW heater must be a mains pressure system and able to accept preheated cold water.**

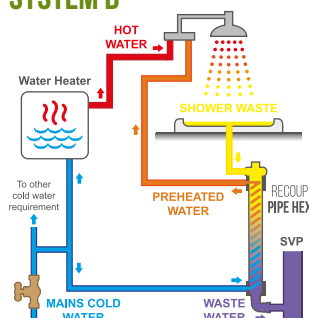
### 3.b) Installation configuration

The inlet for the RECOUP Pipe HEX is connected to the mains water supply, and the outlet (preheated water) can be connected in one of three ways.

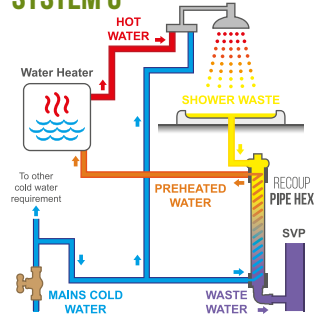
#### SYSTEM A



#### SYSTEM B



#### SYSTEM C



SYSTEM A – Preheated water supplied to shower mixer (Cold inlet) and DHW heater.

SYSTEM B – Preheated water supplied to shower mixer (Cold inlet) on the shower only

SYSTEM C – Preheated water supplied to DHW heater only

The performance of Systems A, B & C are all recognised within the SAP Products Characteristics Database (PCDB) for energy saving calculations, but remember that System A will produce the highest efficiencies (see section 2.b. for different system efficiencies).

### 3.c) Locating the RECOUP Pipe HEX

The RECOUP Pipe HEX needs to be installed vertically, and therefore, will be situated on a floor below the shower. Installation should take place on a flat wall using the fixings provided (Refer to Section 6 for maintenance and access requirements).

**The RECOUP Pipe HEX must be located within the heating envelope of the building.**

**The RECOUP Pipe HEX must be installed with consideration to the most recent 'Approved document – Part H of the Building Regulations' for preventing the ingress of foul sewer gases.**

### 3.d) Design checklist

For recognition within the SAP calculations, the following must be complied with:-

- Consideration given to DHW delivery performance (Pressure & Flow rate).
- DHW system must be a mains pressure system.
- DHW system must accept preheated water.
- The RECOUP Pipe HEX must be located within the heating envelope of the building
- The shower must incorporate a Thermostatic Mixing Valve (TMV).
- Keep the distance from the waste water trap for the shower, or shower over bath, to the RECOUP Pipe HEX to within 3m where practically possible. This maintains a high level of efficiency by minimising heat loss in the drainage system prior to the WWHRs.
- The Preheated water supply from the RECOUP Pipe HEX to the shower cold water inlet and/or water heater must be:-
  - Labelled to prevent any future cross-connection of services (E.g. Taps).
  - As short as possible and no greater than 4.75m from the WWHRs to the shower TMV.
- **DO NOT INSULATE THE ACTUAL RECOUP PIPE HEX**
- Prevent the RECOUP Pipe HEX being heated above 25°C by both external sources and from ambient temperature.
- Shut-off valves should be full-flow (non-restricting) shut-off valves.
- Approved document – Part H of the Building Regulations has been consulted and an appropriate method for preventing the ingress of foul sewer smells chosen.

### 3.e) Electric showers

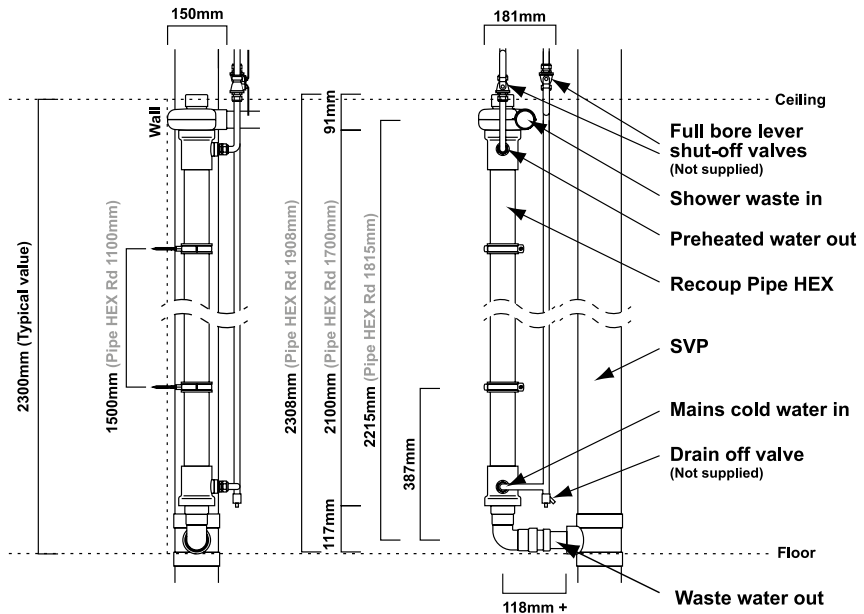
The RECOUP Pipe HEX WWHRs is compatible with the Mira Heatloop™ electric shower range. Visit [heatloop.recoup.co.uk](http://heatloop.recoup.co.uk) or scan this QR code for more information, also review the Mira Heatloop™ Installation and User Guide. **For user safety do not connect a Recoup WWHRs unit to any other electric shower.**



## 4. Installation of the RECOUP Pipe HEX

Check section 3.c) for guidance on locating a suitable area for installation.

### 4.a) Dimensions & connections



### 4.b) Installation contents



#### PART NUMBER KEY

- 1 - RECOUP Pipe HEX WWHRS unit - Ø63mm\*
- 2 - Turbo Rotator - Ø50mm\* top & bottom  
Ø43mm\* solvent weld side
- 3 - Turbo Rotator cap (solvent) - Ø50mm\*
- 4 - Coupling insert - Ø50mm\*
- 5 - 90° Coupling sleeve - Ø50mm\*
- 6 - Ø50mm reducer\*
- 7a - 2No. Mounting bracket - Ø63mm

- 7b - 2No. Bracket fixings - M8 x 100mm
- 8 - Installation instructions
- 9 - NCM (SAP) identifier label for nearby boiler or service cupboard.

\*All Ø50mm parts are push-fit (50mm O/D European). Item 2 requires a 43mm solvent weld pipe connection for the shower waste water. Item 6 reduces to 43mm UK solvent weld pipe for the soil waste.

#### YOU WILL NEED The following non-supplied parts...

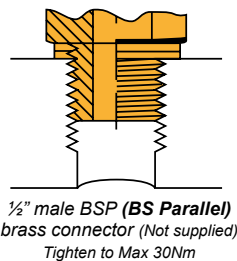
2No ½" Male BSP brass connectors, 2No full bore lever shut-off valves, 1No drain off valve, (all valves must be corrosion resistant if concealed), Thread sealant - Complying to The Water Supply (Water Fittings) Regulations, liquid recommended

#### 4.d) Installation process overview

While every effort is made to ensure this product arrives in optimum condition, please ensure you inspect the packaging and contents for any obvious signs of damage before installing the RECOUP Pipe HEX.

The unit must be installed vertically on a suitable flat wall which is capable of holding the weight of the unit. If the mounting is not vertical the efficiency of the unit could be reduced.

1. The total height required for the product and supplied connectors is 2308mm (Pipe HEX Rd 1908mm), the spacing between the centre points of the waste water in and waste water out is 2215mm (Pipe HEX Rd 1815mm). Using this and the diagram above locate your soil waste connection. Starting 387mm above the centre of the soil waste connection, mark and drill two holes that are in a straight vertical line 1500mm apart (Pipe HEX Rd 1100mm) to screw the wall mounting brackets into. Make sure there is adequate clearance for the additional connections, and this line is at least 118mm horizontally from the soil waste connection. Timber battens should be installed for the mounting bracket fixings if required.
2. Fix the mounting brackets (Part No.7a & 7b) to the wall, and locate the RECOUP Pipe HEX (Part No.1) into the wall brackets, with the highest wall bracket approx 30cm lower than the top of the RECOUP Pipe HEX and the bottom bracket approx. 30cm above the bottom of the RECOUP Pipe HEX.
3. Check that the unit is in a vertical position (efficiency will be affected if the unit is not completely vertical).
4. Insert the Turbo Rotator (Part No.2) onto the top of the RECOUP Pipe HEX. The Turbo Rotator can be inserted with either end upright allowing the 43mm solvent-weld side connection to be suitably positioned for the shower drain waste pipe. The rubber O-Ring (Part No.2a) needs to be positioned on the bottom connection. Remove the O-Ring and reposition it to the opposite connection if necessary.
5. Glue the Turbo Rotator cap (Part No.3) on to the top of the Turbo Rotator with solvent adhesive.
6. Connect the shower drain waste pipe to the Turbo Rotator with 43mm solvent-weld pipe. **Note: The shower trap should remain in its usual position.**
7. Connect the coupling insert (Part No.4), 90° coupling sleeve (Part No.5) and reducer (Part No.6) into the bottom of the RECOUP Pipe HEX. Then connect the reducer (Part No.6) to the soil pipe. Part No.6 is supplied to reduce 50mm European to UK 43mm solvent weld pipe. Lubricate the reducer connection and chamfer the edges of 43mm solvent pipe.
8. Connect the ½" female BSP cold mains water inlet (bottom) and preheat water outlet (top) in the RECOUP Pipe HEX to the mains cold and preheated water pipework using ½" male BSP brass connectors (Not supplied). **Tighten the connectors into the RECOUP Pipe HEX to a maximum of 30Nm.**  
**IMPORTANT: Connections should be sealed using a suitable thread sealant complying to The Water Supply (Water Fittings) Regulations, liquid sealant recommended.**
9. A full bore lever shut-off valve and drain off valve (Not supplied) should be installed on the mains cold water supply prior to the WWHRS unit and another full bore lever shut-off valve (Not supplied) installed close to the connection for the preheated water leaving the WWHRS to facilitate any replacement of parts. It is recommended that both shut-off valves are installed in the same location, **any concealed valves MUST be manufactured from corrosion resistant materials** (such as CR brass).
10. Check and complete the following:
  - a) Ensure the preheated water supply is only feeding the DHW water heater and the cold water inlet of the thermostatic mixer shower (System A), the cold inlet of the thermostatic mixer shower only (System B) or the water heater only (System C).
  - b) The preheated water supply from the RECOUP Pipe HEX is clearly labelled to prevent any future cross-connection of services (E.g. Taps). Preheat supply tape is available for this [preheattape.recoup.co.uk](http://preheattape.recoup.co.uk).
  - c) The RECOUP Pipe HEX should be pressure tested after installation to a maximum of 10 bar. If the system pipework requires testing above 10 bar the RECOUP Pipe HEX must be isolated for this additional testing.
  - d) Ensure the SAP identifier label supplied (Part No.9) correctly identifies the System installed and serial number from the product label on the RECOUP Pipe HEX. Apply the label near to the water heater in the property.
  - e) **Take photos** of the whole product installation and SAP identifier label on the product body for Part L building regulation compliance.
  - f) Register the installation (Section 8) to generate the installation / warranty certificate.



Preheat supply tape  
(Not supplied)



SAP identifier label (Part No.9)

Visit the RECOUP Pipe HEX product page on our website for more installation support, [pipehex.recoup.co.uk](http://pipehex.recoup.co.uk) or scan this QR code.

For all technical or installation queries, please contact RECOUP directly.  
For product related issues, please contact your place of purchase.



#### 4.c) Pipework Installation Diagram

### IMPORTANT NOTE

To ensure SAP compliance check buildings spec for correct installation method (System A, B or C)

**Full bore  
Shut off valve**  
(Not supplied)

## MAINS COLD WATER

**Full bore  
Shut off valves**  
(Not supplied)

**▲ PREHEATED WATER**

Preheated water  
pipework

**1/2" Male BSP  
connection  
(Not supplied)**  
Tighten to Max 30Nm

**½" Female BSP  
preheated water  
connection**

**Preheated  
water pipework**

batter

Assembled  
top section  
of the RECOUP  
Pipe HEX

Timber  
batten

### Soil pipe

**Cold wa**  
**ninewe**

pipew

**Drain off valve**  
(Not supplied)

Assembled  
bottom section  
of the RECOUP  
Pipe HEX

**1/2" Male BSP connection**  
(Not supplied)  
Tighten to Max 30Nm

**1/2" Female  
BSP mains  
cold water  
connection**

### Soil pipe

## SOIL WASTE

**Cold water  
pipework**

**Drain off valve**  
(Not supplied)

**IMPORTANT NOTE**

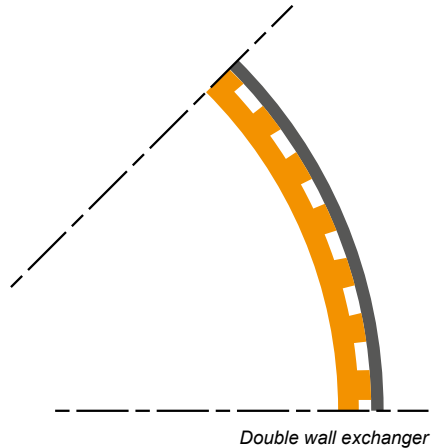
**This document should be left with the home owners pack.**

## **5. Water Safety, Legionella Risk & Protection**

### **5.a) Double Walled Heat Exchanger**

European regulations (EN 1717) require that double walls must be used to separate drain water and drinking water. In the RECOUP Pipe HEX, this is accomplished by squeezing two copper pipes against each other. This creates a very sturdy and reliable construction, in which the contact between the pipes does not depend on the water pressure. The design meets all the relevant safety requirements, and therefore does not require the trap to be moved from its usual position below the shower or bath.

The RECOUP Pipe HEX should be protected against return flow through a verifiable double check valve plus shut-off valve. It is permissible to connect the system directly to the SVP as shown in Section 4.



### **5.b) Legionella**

Consideration must be given to the potential risks of legionella bacteria growth when installing any hot or cold water system and this includes ALL devices that are used in the production and transportation of hot or cold water in the domestic home or commercial environment. Please refer to the following information provided covering Legionella.

### **5.c) Legionella Risk & Protection when installing a RECOUP WWHRS product**

Care and attention must be paid to the system design to protect against the potential risk of Legionella growth within the hot and cold water system with or without a WWHRS unit being installed. The guidance below is to highlight the potential risks that installation of a WWHRS can have on the hot and cold water supply within a property, but due to the variations in design in properties a final risk assessment needs to be carried out by the system designer and installer.

The following guidance is provided to keep the risk to a smaller level as possible, with general and specific guidance depending on the System of installation (A, B or C). Within the UK, there is no specific guidance on Legionella control within the domestic home, but the document known as HSG 274 and written for Health and Safety guidance in the work place, does in Part 2 offer guidance on the control of Legionella in water systems, some of which is aimed at recirculating hot water systems, but never the less offers good advice. The World Health Organisation (WHO) have also published a document (Last version 2007) titled 'Legionella and the prevention of Legionellosis', however, this is for information purposes only.

### **General guidance**

For best practice the pipework between the WWHRS and the cold mixer on the shower and the boiler/hot water cylinder should be copper, as this is a material that is less susceptible to the formation of biofilm, which is a known factor in the growth of Legionella bacteria. However, if plastic / PVC plumbing has been considered suitable for the property by the installer/designer then an onsite risk assessment should be carried out to ensure the risk is minimal. If products do require flexible hoses instead of copper pipe then these must be PEX and never EPDM

It is always recommended to clean any TMV at least once every 6 months to remove the build-up of any contamination.

Showers in general can be a problem area for Legionella growth in the domestic home, and L8 recommends that shower heads are dismantled quarterly or as necessary to clean and descale them and the hoses.

The frequency that domestic showers are used in the home means that the system is flushed on a high number of occasions per week, which in itself helps in prevention of Legionella bacteria growth. It should be remembered that after any dormant periods (HSG 274 Part 2 recommends weekly flushing is acceptable as long as a risk assessment does not identify a susceptible population), it is good practice for a shower (With or without a WWHRS fitted) to be slowly flushed taking care not to create an aerosol, either by unscrewing the shower head or covering the shower head with a plastic bag and allowed to run for 3 minutes to introduce fresh water into the system. The hose on a shower from the TMV to a shower head will contain a mixture of cold and hot water, and the warming of the cold water brings it into the optimum temperature range for Legionella growth (TMV is set by the user between 36°C and 41°C). This water will cool down in time and in the domestic home be flushed through on a near daily basis, but it still introduces a risk.

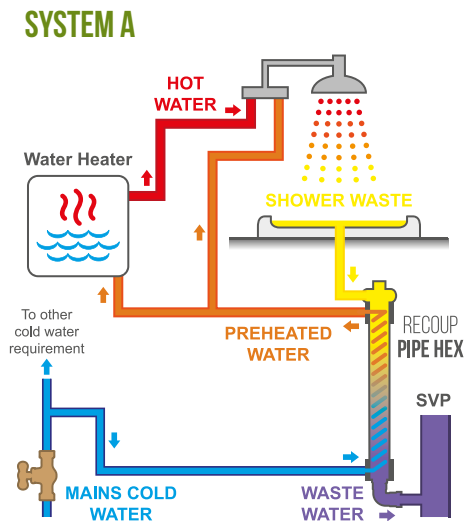
### System A – Delivery of preheated water to a water heater (Cylinder, combi-boiler, HIU) and the cold mixer on the TMV

If the water heater being installed is a hot water cylinder that will raise the temperature to 60°C for a period longer than 10 minutes, then the distance of pipe from the WWHRS to the cylinder doesn't matter with regard to Legionella, as the preheated water in the pipe will on entering the cylinder be raised to sufficient temperature to kill any bacteria (Note: that for energy efficiency this distance should still be kept to a minimum).

If a combination boiler or HIU (Heat Interface Unit) is being used then it should be capable of heating the preheated water to 60°C and holding it at that temperature for greater than 10 minutes, so any potential growth within stagnant pre-heated water from the previous shower is raised to a level where the Legionella bacteria can be killed. Any water heater used in the domestic home that does not raise hot water above 60°C for this period of time is introducing the same level of risk to the system (With or without a WWHRS), and these risks need to be assessed in terms of the level and frequency of usage, and whether the device is used for stored or instantaneous hot water.

For System A there is also a feed of the pre-heated water straight to the cold inlet of the TMV. Regardless of the water heater that is installed in the installation, the pre-heated water (25°C) that remains between the WWHRS and the TMV will not be re-heated, so can never pass a temperature of 60°C, and therefore introduces the same level of risk to the system as any instantaneous water heater that does not achieve 60°C would do. HSG 274 Part 2 recommends that all cold water supplies should be kept to 20°C or below, however, it does note that the Water Supply (Water Quality) Regulations do permit water utilities to supply water to premises at temperatures up to 25°C, but due to the climate in the UK this is not likely, except in summer. Table 3: Monitoring the temperature control regime, of HSG 274 Part 2 states that the standard to meet for cold water on a monthly basis is that a temperature of below 20°C should be reached after running the water for up to 2 minutes. Therefore, it is suggested that the pipe run from the WWHRS to the cold inlet of the TMV is kept as short as possible, and no greater than 4.75 meters.

Users of the shower could additionally run the shower for 15 seconds after showering on the cold setting of the TMV to flush through the remaining pre-heated water. As mentioned in the general section, the regular use of showers in the domestic home means flushing happens on a regular occasion, however, prior to periods of non-use (E.g. Holiday), this practice would be advisable.

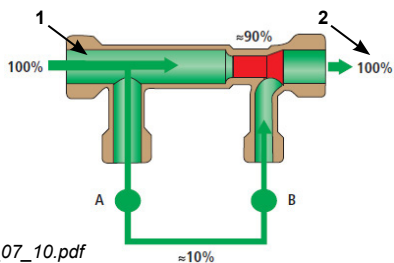


To further protect the system from potential risk of legionella growth, the installation of a device from Kemper (KHS-Multi-Circ Distributor Unit) will reduce the amount of stagnation that occurs in the pre-heated pipe from the WWHRS to the cold inlet of the TMV, as each time a hot water outlet in the property is opened a small circulation will be created within the water (basic details below, and more information on [www.kemper-valves.com](http://www.kemper-valves.com))

*The flow distributor's operation is based on the principle of the Venturi nozzle. The minimum pressure difference between Supply line A and Return line B causes an induced flow in the branch. The drive comes from water removal after the KHS-Multi-Circ Distributor Unit. The entire water content in the branch is thus changed, stagnation is prevented and the water temperature is kept low.*

Taken from...

[http://www.kempervalves.com/pdf/pdf%20englisch/khs\\_20s\\_engl\\_07\\_10.pdf](http://www.kempervalves.com/pdf/pdf%20englisch/khs_20s_engl_07_10.pdf)



1. The pre-heated water from the WWHRS before it splits to the water heater and the cold inlet of the shower TMV.  
**A.** The split of the pre-heated water, with 'A' going to the cold inlet of the TMV for the shower.  
**B.** A return loop taken from as close to the TMV as possible and back into the valve
2. Continues to the water heater

## System B Installation – Cold inlet on the TMV only

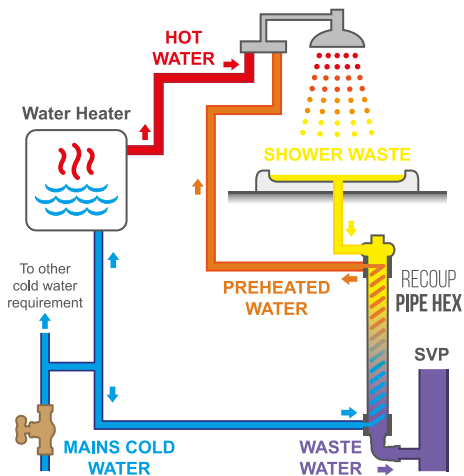
This installation provides the highest risk of the three installation methods.

Regardless of the water heater that is installed in the installation, the pre-heated water (25°C) that remains between the WWHRS and TMV will not be re-heated, so can never pass a temperature of 60°C, and therefore introduces the same level of risk to the system as any instantaneous water heater that does not achieve 60°C would do. HSG 274 Part 2 recommends that all cold water supplies should be kept to 20°C or below, however, it does note that the Water Supply (Water Quality) Regulations do permit water utilities to supply water to premises at temperatures up to 25°C, but due to the climate in the UK this is not likely, except in summer. Table 3: Monitoring the temperature control regime, of HSG 274 Part 2 states that the standard to meet for cold water on a monthly basis is that a temperature of below 20°C should be reached after running the water for up to 2 minutes. Therefore, it is suggested that the pipe run from the WWHRS to the cold inlet of the TMV is kept as short as possible, and no greater than 4.75 meters.

It should be noted that the pre-heated water is never stored and maintained at the 25°C temperature, therefore, even though still a risk to consider if the system is to be used/flushed frequently this will be in line with guidance in HSG 274 Part 2 for treatment of the mixed water after the TMV which is also water containing cold water that has been heated above 20°C but not past 60°C (Along with the guidance in the general section for general maintenance of a shower with or without a WWHRS installed).

Users of the shower could additionally run the shower for 15 seconds after showering on the cold setting of the TMV to flush through the remaining pre-heated water. As mentioned in the general section, the regular use of showers in the domestic home means flushing happens on a regular occasion, however, prior to periods of non-use (E.g. Holiday), this practice would be advisable.

## SYSTEM B



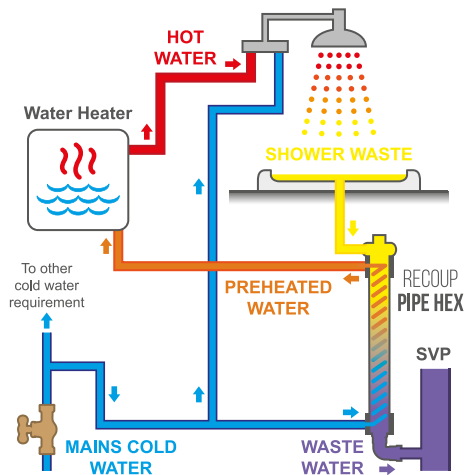
## System C Installation – Feed to water heater only

This is the lowest risk of all the installation methods.

If the water heater being installed is a hot water cylinder that will raise the temperature to 60°C for greater than 10 minutes, then the distance of pipe from the WWHRS to the cylinder doesn't matter with regard to Legionella, as the preheated water in the pipe will on entering the cylinder be raised to sufficient temperature to kill any bacteria (Note: that for energy efficiency this distance should still be kept to a minimum).

If a combination boiler or HIU (Heat Interface Unit) is being used then it should be capable of heating the preheated water to 60°C and holding it at that temperature for greater than 10 minutes, so any potential growth within stagnant pre-heated water from the previous shower is raised to a level where the Legionella bacteria can be killed. Any water heater used in the domestic home that does not raise hot water above 60°C for this period of time is introducing the same level of risk to the system (With or without a WWHRS), and these risks need to be assessed in terms of the level and frequency of usage, and whether the device is used for stored or instantaneous hot water.

### SYSTEM C



## 6. Maintenance

The maintenance required for the RECOUP Pipe HEX and RECOUP Pipe HEX Rd is very minimal, as in normal circumstances the flow rate of the shower water should not allow any residue to build up. In the unlikely event that residue build up does occur, a soap based cleaning product can be used to flush through the pipe.

Additional access (Through normal use this should not be required) should be obtainable with a pipe cleaning brush either via the shower/bath trap (or by removing the cap, Part 3 in installation Section 4, if there is access). Once cleaned rinse through with warm water from the shower.

## 7. Warranty

The RECOUP Pipe HEX and RECOUP Pipe HEX Rd comes with a 10 year warranty. This starts from either the date of invoice from Recoup Energy Solutions Ltd or purchase from partnered trade distributors. Installation registration should be completed as part of the guarantee requirements.

This warranty is conditional on the product being installed in accordance with these instructions (Installation and ALL requirements for SAP, if product is to be recognised for Energy Efficiency Calculations), correct plumbing practices and Building Regulations.

## 8. Registration

Please register this installation for SAP and guarantee. See the accompanying SAP identifier and installation registration document for further details.

## 9. Accidental Damage Assurance

The RECOUP Pipe HEX and RECOUP Pipe HEX Rd has a no quibble assurance for accidental damage. If accidentally damaged we will provide a £75.00 credit, through our merchants, for exchangers that are returned in good condition. Please refer to our Terms and Conditions for full details of the accidental damage assurance provided. Terms and Conditions are available on [recoup.co.uk](http://recoup.co.uk) or by contacting us.

## WASTE WATER HEAT RECOVERY FOR SHOWERS

# PLEASE REGISTER THIS INSTALLATION

**The installation of this WWHRS should be registered  
for SAP and guarantee requirements.**

Visit our website registration page

**REGISTRATION.RECOUP.CO.UK**

or scan the QR code.



RECOUP PIPE HEX IS **100% RECYCLABLE** AT END OF LIFE

Visit our website recycling page for more information

**RECYCLE.RECOUP.CO.UK**

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**T:** 01379 844010

**E:** TECHNICAL@RECOUP.CO.UK

**W:** RECOUP.CO.UK

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## PIPE HEX SAP IDENTIFIER LABEL & INSTALLATION REGISTRATION

### SAP IDENTIFIER LABEL

As detailed in the accompanying RECOUP Pipe HEX instructions, this peel-out label should be completed with the product version, serial number, and amended under model qualifier to correctly identify the system installation method installed. Tick which RECOUP Pipe HEX model is installed, write on the serial number, and delete the two incorrect system types.

**Cut line**



**WRAS**  
APPROVED PRODUCT  
Certificate No: 2012362

**PIPE HEX**  
Vertical Shower Waste  
Water Heat Recovery Unit

<b>NCM (SAP) IDENTIFIER</b>	RECOUP Pipe HEX (2.1m) <input type="checkbox"/> RECOUP Pipe HEX Rd (1.7m) <input type="checkbox"/>	<input type="checkbox"/> Tick one Recoup Energy Solutions Ltd, Trumpeter House, Trumpeter Rise, Long Stratton, NR15 2DY
Serial Number: _____ Technology type: _____ Technology category: _____ Brand name: _____ Model qualifier: _____		SN: ..... Waste Water Heat Recovery System Instantaneous Shower Heat Recovery <b>RECOUP</b> System A / System B / System C <small>Delete as appropriate</small>
This dwelling has been fitted with a Waste Water Heat Recovery System for Showers which is recognised by the Government's Standard Assessment Procedure (SAP) for Energy rating of dwellings. <b>Note:</b> One label must be permanently fixed to the WWHRS unit and another to a nearby Boiler or Service Cupboard.		
<p><b>PLEASE REGISTER</b> for SAP and guarantee requirements.          Visit our website registration page <a href="http://registration.recoup.co.uk">registration.recoup.co.uk</a>  <b>END OF LIFE</b> 100% product recycling available. Visit <a href="http://recycle.recoup.co.uk">recycle.recoup.co.uk</a></p>		

The serial number is on the label attached to the RECOUP Pipe HEX. Once complete peel out the label, and apply it on or next to the water heater in the property. This process forms an important part of the SAP requirements for waste water heat recovery.

## PLEASE REGISTER THIS INSTALLATION

### INSTALLATION REGISTRATION

The installation of the RECOUP Pipe HEX WWHRS should be registered for SAP and guarantee requirements. Registration can be completed by submitting an online installation registration form. Visit [registration.recoup.co.uk](http://registration.recoup.co.uk) or scan the QR code to access the form.

Once submitted you will receive your installation registration certificate by email.



**Visit our website registration page or scan the QR code**

**REGISTRATION.RECOUP.CO.UK**