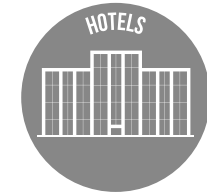
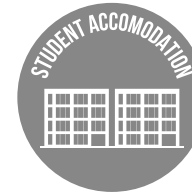


TECHNICAL SPECIFICATION RECOUP PIPE HEX BE

WASTE WATER HEAT RECOVERY FOR SHOWERS



- Double-walled copper vertical heat exchanger
- Designed for first-floor showers or above
- Up to 68.5% heat recovery efficiency
- Pipe body length between 1065mm & 2100mm
- Reduced height for restricted installations
- First-fix friendly design
- 3 recognised installation methods (System A, B & C)
- No-end user interaction required
- No planned maintenance
- PVC outer provides on-site theft deterrent
- WRAS approved
- Legionella Control risk assessed
- Market leading 10 year guarantee
- Manufactured to order
- Standard 2100mm & 1700mm options available

GENERAL DATA

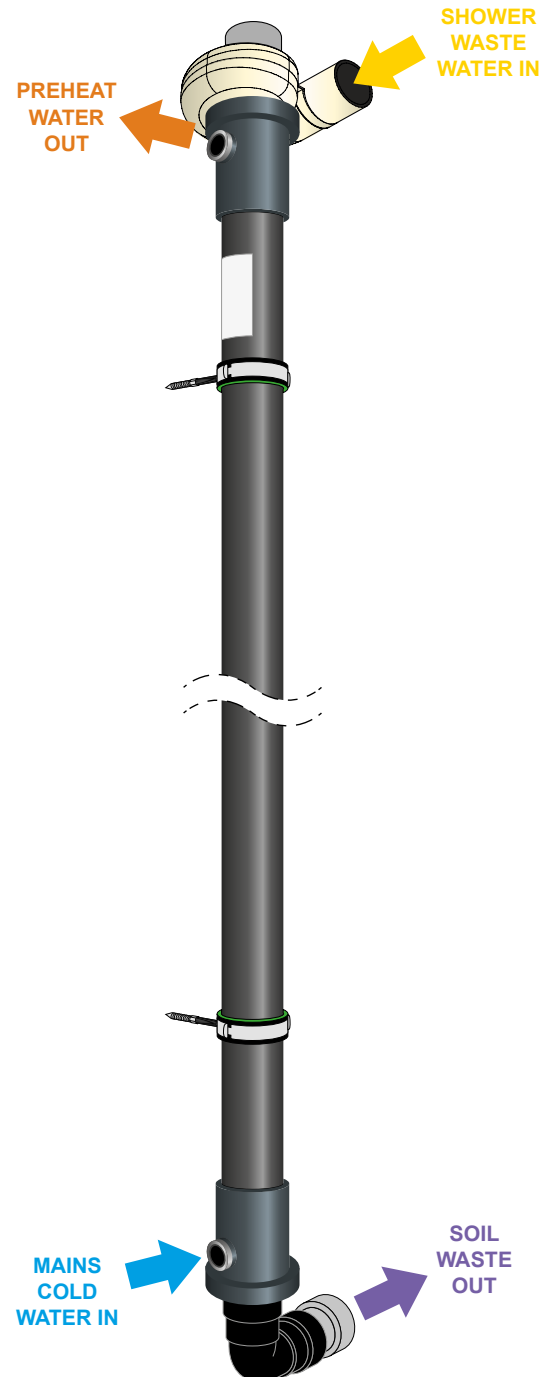
DESCRIPTION	VALUE
Overall height required for installation	1273 to 2308 mm
Outside diameter of external tube	63 mm
Material - Internal tube	Copper
Material - External tube	PVC
Shower flow rate range (when installed as System A)	5 - 15 Litres/min
Max. Mains water inlet pressure	10 bar
Min. Mains water 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	5 to 10 kg
Water volume - mains water	0.15 to 0.3 Litres

PRESSURE DROP ON THE MAIN WATER CIRCUIT

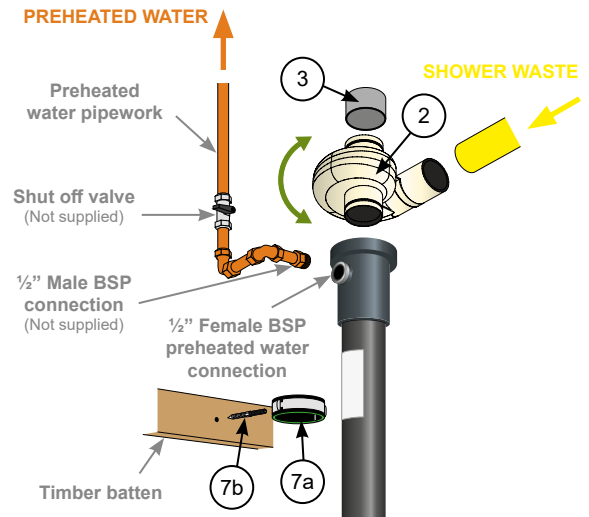
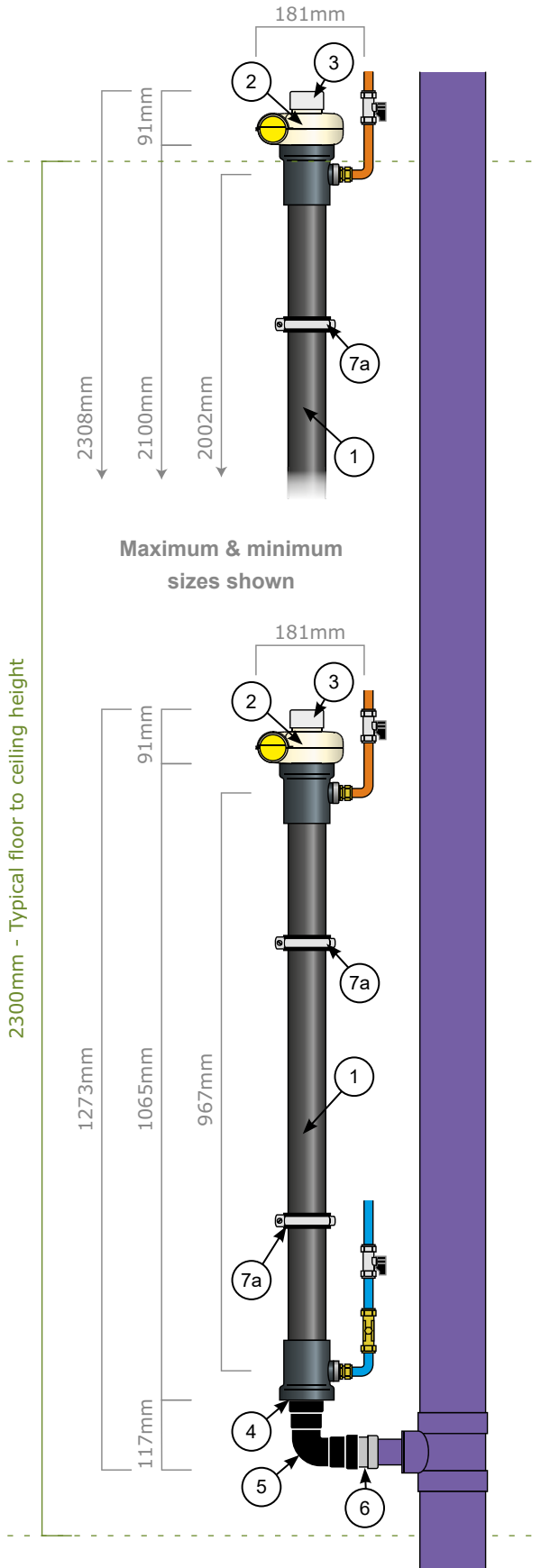
SHOWER FLOW RATE @ 40°C (LITRES/MIN)	PIPE HEX BE PRESSURE DROP (BAR)		
	SYSTEM A	SYSTEM B	SYSTEM C
9.2	0.26 to 0.39	0.15 to 0.24	≤ 0.16
12.5	≤ 0.67	≤ 0.41	≤ 0.27

PERFORMANCE & EFFICIENCY

SHOWER FLOW RATE @ 40°C (LITRES/MIN)	PIPE HEX BE EFFICIENCY (RECOVERED ENERGY KW)		
	SYSTEM A	SYSTEM B	SYSTEM C
9.2	48.3% (8.06) to 65.2% (10.88)	41.0% (6.84) to 50.4% (8.41)	
11.0	≤ 63.6% (12.69)	≤ 49.9% (9.96)	≤ 54.0% (10.77)
12.5	≤ 62.5% (14.17)		

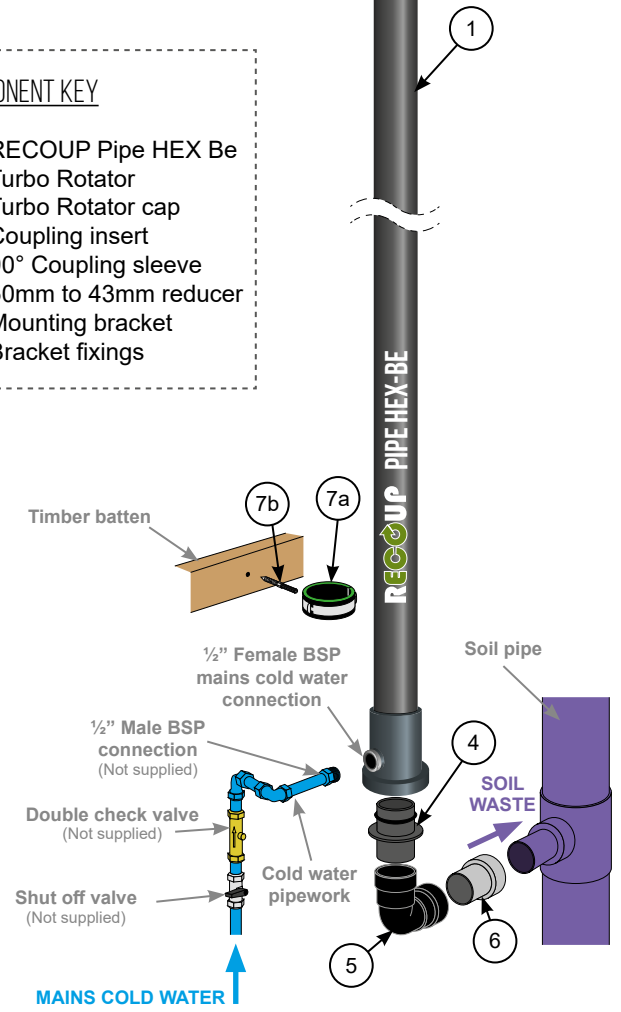


DRAWINGS & DIAGRAMS

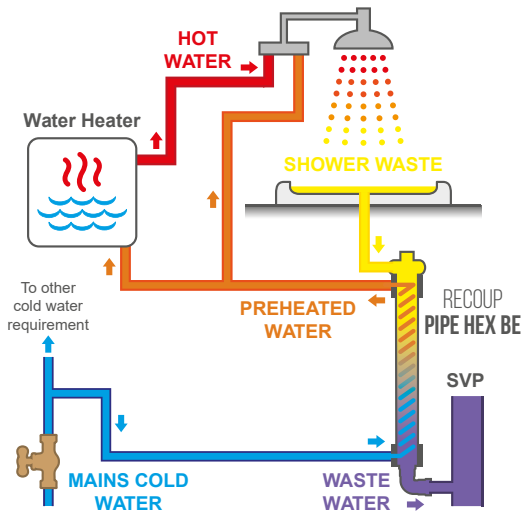


COMPONENT KEY

- 1 - RECOUP Pipe HEX Be
- 2 - Turbo Rotator
- 3 - Turbo Rotator cap
- 4 - Coupling insert
- 5 - 90° Coupling sleeve
- 6 - 50mm to 43mm reducer
- 7a - Mounting bracket
- 7b - Bracket fixings



INSTALLATION METHODS



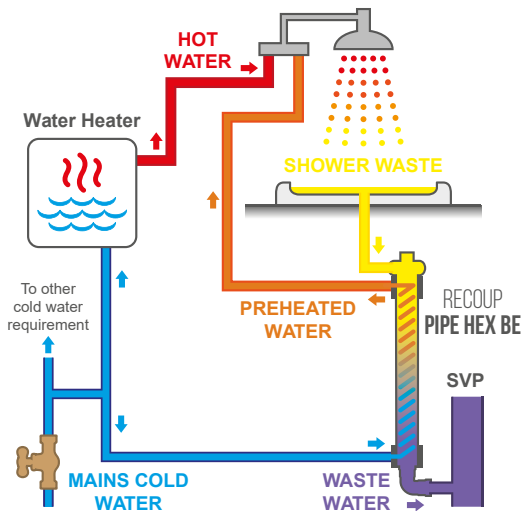
SYSTEM A

Preheated water supplied to shower mixer (cold inlet) and the water heater

This installation method provides the highest WWHRS efficiency.

Only one WWHRS unit can supply preheated water to the water heater as System A. All secondary WWHRS units should be connected as System B.

To maximise SAP impact, install WWHRS as System A on the primary shower, or in a room with a shower only. If design and layout allow, it may be possible to connect two showers to one WWHRS unit. Connected as System A, the total flow rate of both showers should be <math><16\text{ l/min}</math>.



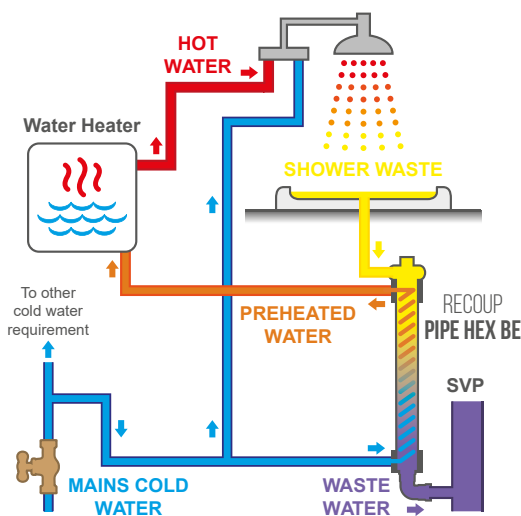
SYSTEM B

Preheated water supplied to shower mixer (cold inlet) on the shower only

The WWHRS efficiency of this installation method is not as high as System A or C but is the simplest and often the most cost-effective method to install or retrofit.

As preheated water is supplied to the cold side of the shower TMV only, there is no additional connection to the water heater . System B should be used for any secondary showers in a dwelling or where multiple showers are fed from centralised plant.

If design and layout allow, it may be possible to connect two showers to one WWHRS unit. Connected as System B, the total flow rate of both showers should be <math><24\text{ l/min}</math> (@60°C DHW temp).



SYSTEM C

Preheated water supplied to water heater only

Greater WWHRS efficiencies are produced than System B but lower than System A. Only one WWHRS unit can feed preheated water to the water heater as System C.

This installation method can offer a more cost-effective installation option where two stacked showers are attached to a single WWHRS (eg. In a town house with 1st & 2nd floor showers). Connected as System C, the total flow rate of both showers should be <math><24\text{ l/min}</math> (@60°C DHW temp).

Combi-Boiler, Cylinder (Any heat source inc. Boiler, Heat Pump, Direct Electric, Solar Thermal), Heat Interface Unit (HIU) or Thermal Store.

- For more detail watch our [installation method animation](#) here.

SPECIFYING - RECUP PIPE HEX BE

Recup WWHRS | Pipe HEX Be | Installed as System A; System B; System C (delete as appropriate) | to (Add shower(s) install location)

Include the line of text above or go to specify.recoupwwhrs.co.uk for the full Recup Pipe HEX Be product specification.