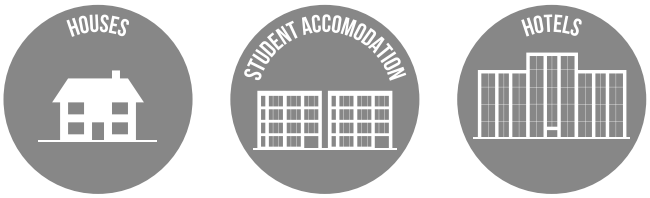
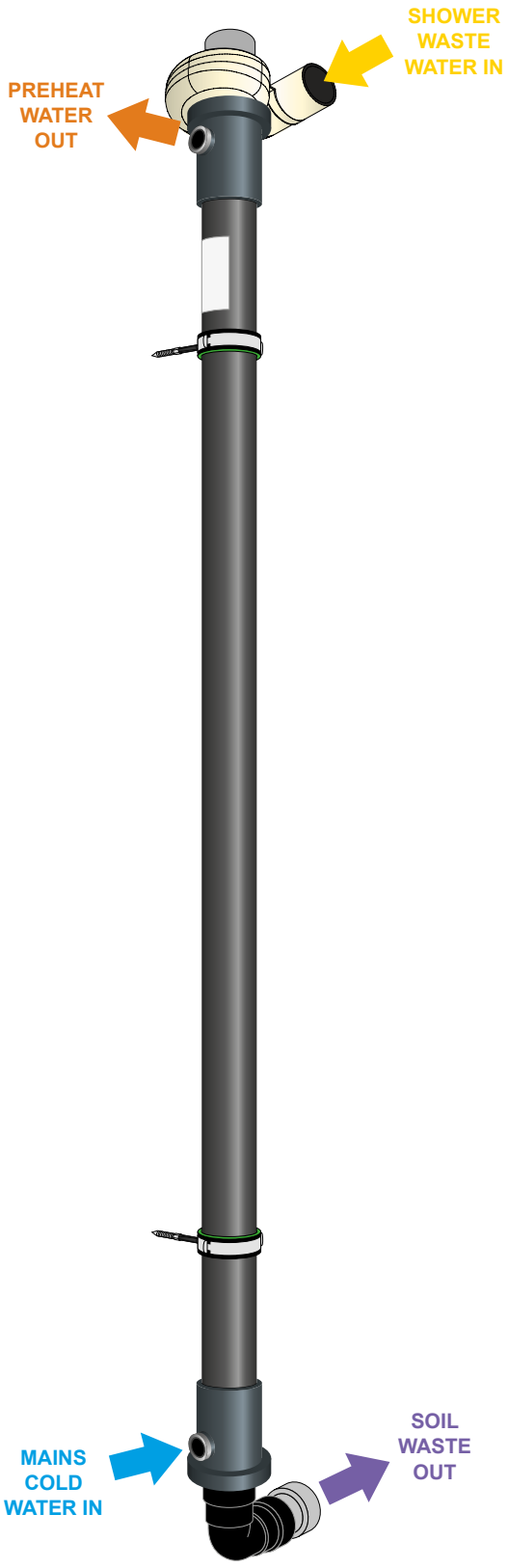
TECHNICAL SPECIFICATION
RECOUP **PIPE HEX RD**



- Double-walled copper vertical heat exchanger
- Designed for first-floor showers or above
- Up to 63.3% heat recovery efficiency *
- Reduced height for restricted installations
- Cost-effective SAP points for Part-L Compliance
- 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
- SAP listed, SBEM, BREEAM, DEAP & ETL recognised
- WRAS approved
- Legionella Control risk assessed
- Market leading 10 year guarantee
- Longer Pipe HEX & bespoke solutions available



GENERAL DATA

DESCRIPTION	VALUE
Overall height required for installation	1908 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	8 kg
Water volume - mains water	0.24 Litres

PERFORMANCE & EFFICIENCY

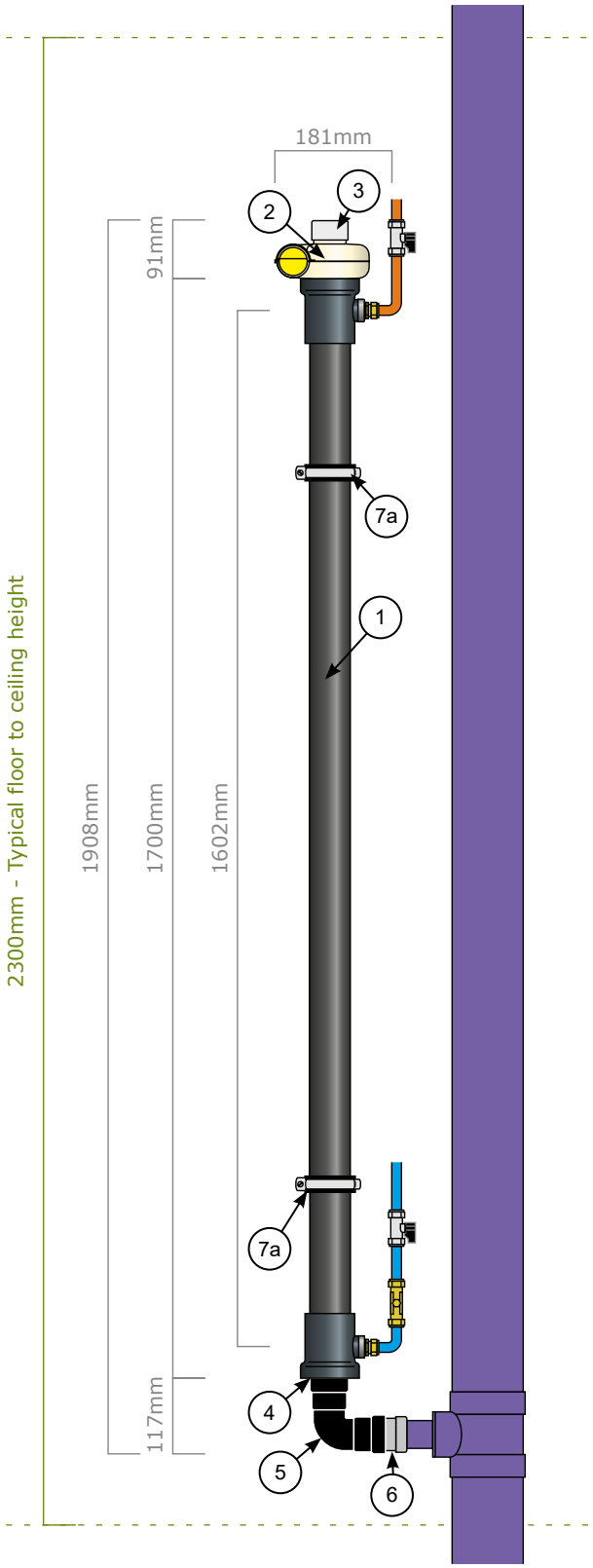
SHOWER FLOW RATE @ 40°C (LITRES/MIN)	PIPE HEX RD EFFICIENCY (RECOVERED ENERGY KW) *		
	SYSTEM A	SYSTEM B	SYSTEM C
9.2	60.0% (10.01)		
11.0	57.3% (11.43)	45.3% (9.04)	49.6% (9.90)
12.5	55.5% (12.58)		

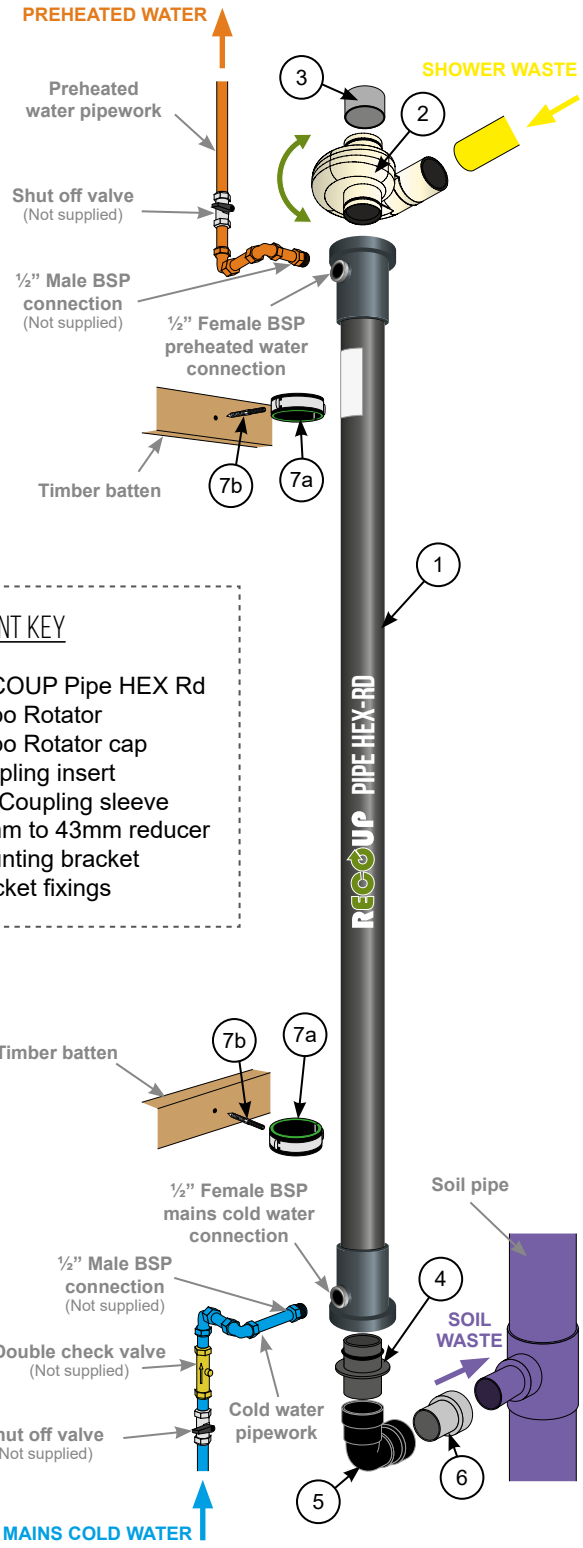
* Based on KIWA test data and PCDB figures for SAP 2012

PRESSURE DROP ON THE MAIN WATER CIRCUIT

SHOWER FLOW RATE @ 40°C (LITRES/MIN)	PIPE HEX RD PRESSURE DROP (BAR)		
	SYSTEM A	SYSTEM B	SYSTEM C
9.2	0.259		
11.0	0.361	0.219	0.185
12.5	0.441		

DRAWINGS & DIAGRAMS





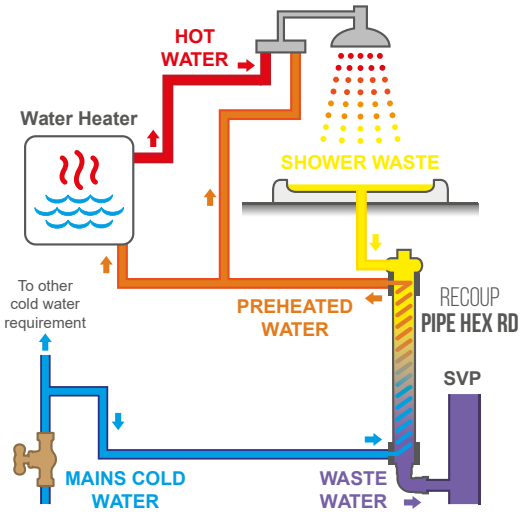
COMPONENT KEY

1 - RECOUP Pipe HEX Rd
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

DOCUMENT RESOURCE

Click or scan to download our document resource

INSTALLATION METHODS



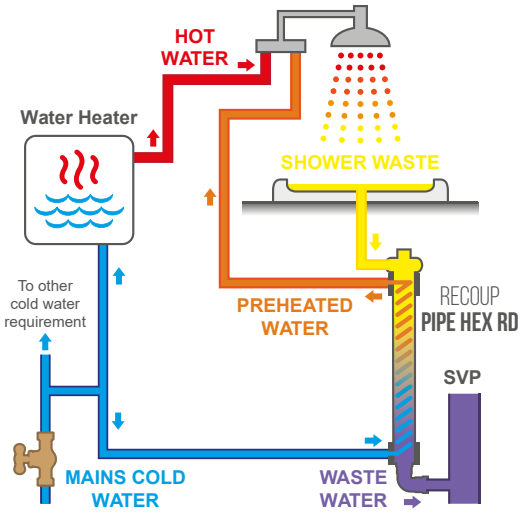
SYSTEM A

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 <16 l/min.



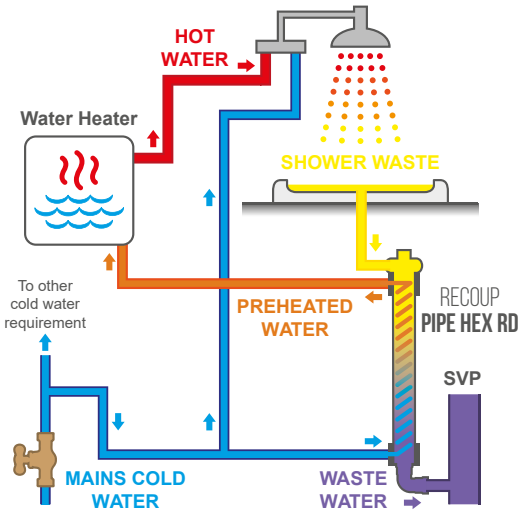
SYSTEM B

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 <24 l/min (@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 <24 l/min (@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 - RECOUP **PIPE HEX RD**

Recoup WWHRS | Pipe HEX Rd | 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.recoup.co.uk** for the full Recoup Pipe HEX Rd product specification.