

TECHNICAL SPECIFICATION RECOUP DRAIN+ DUO

WASTE WATER HEAT RECOVERY FOR SHOWERS



- Double-walled copper horizontal heat exchanger
- Designed for integration in wet room spaces
- Patented heat exchanger with built-in shower trap
- Up to 42% heat recovery efficiency
- 3 recognised installation methods (System A, B & C)
- Can be incorporated into modular bathrooms
- In-line tile or Quadratto cover plate options
- No planned maintenance
- Easy access for cleaning
- SAP listed, SBEM, BREEAM, DEAP & ETL recognised
- WRAS approved
- Legionella Control risk assessed

GENERAL DATA

| DESCRIPTION | VALUE |
|---|---------------------|
| Minimum depth required for installation | 165mm |
| Overall width required for installation | 866 mm |
| Material - Heat Exchanger | Copper |
| Shower flow rate range | 5 - 12.5 Litres/min |
| Max. Mains water inlet pressure | 10 bar |
| Min. Mains water inlet pressure | 1 bar |
| Max. Mains water working temp | 85 °C |
| Mains & Preheated water connection | ½" male BSP |
| Waste water connection | 40 - 43 mm |
| Full product weight | 15 kg |
| Water volume - mains water | 0.71 Litres |

PERFORMANCE & EFFICIENCY

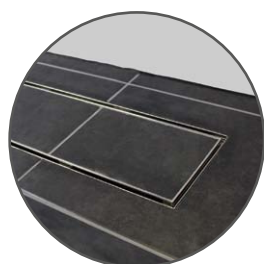
| SHOWER FLOW RATE @ 40°C (LITRES/MIN) | DRAIN+ DUO EFFICIENCY (RECOVERED ENERGY KW) | | |
|---|---|--------------|--------------|
| | SYSTEM A | SYSTEM B | SYSTEM C |
| 5.8 | 41.9% (4.41) | | |
| 9.2 | 41.6% (6.94) | | |
| 11.0 | 40.4% (8.06) | 32.9% (6.56) | 36.6% (7.30) |
| 12.5 | 36.7% (9.00) | | |

PRESSURE DROP ON THE MAIN WATER CIRCUIT

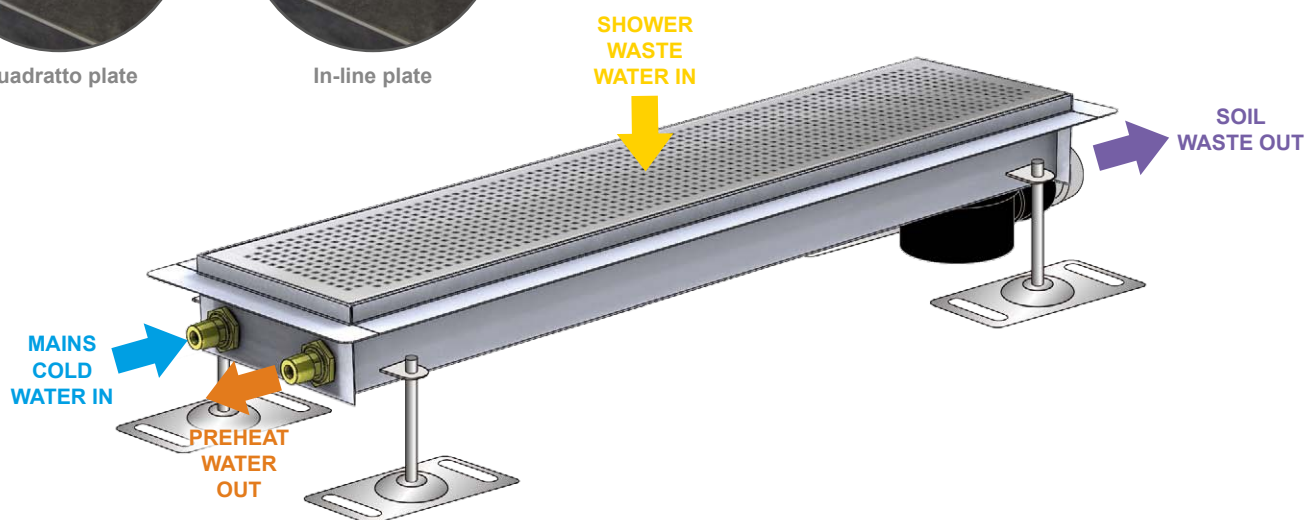
| SHOWER FLOW RATE @ 40°C (LITRES/MIN) | DRAIN+ DUO PRESSURE DROP (BAR) | | |
|---|----------------------------------|----------|----------|
| | SYSTEM A | SYSTEM B | SYSTEM C |
| 5.8 | 0.07 | 0.04 | 0.03 |
| 9.2 | 0.17 | 0.11 | 0.07 |
| 12.5 | 0.27 | 0.17 | 0.11 |



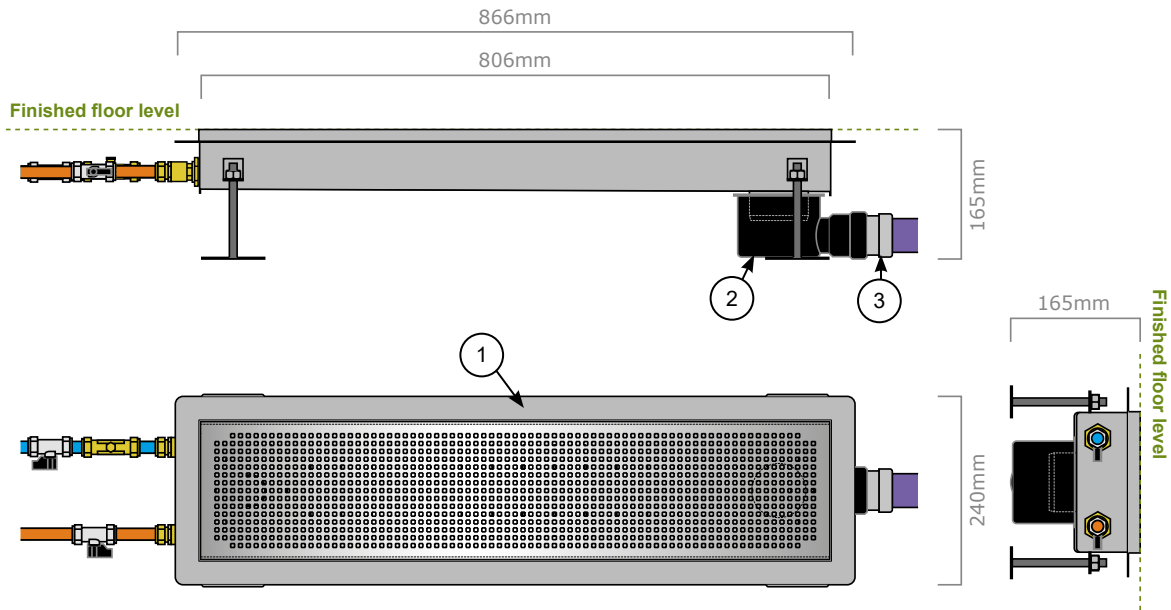
Quadratto plate



In-line plate

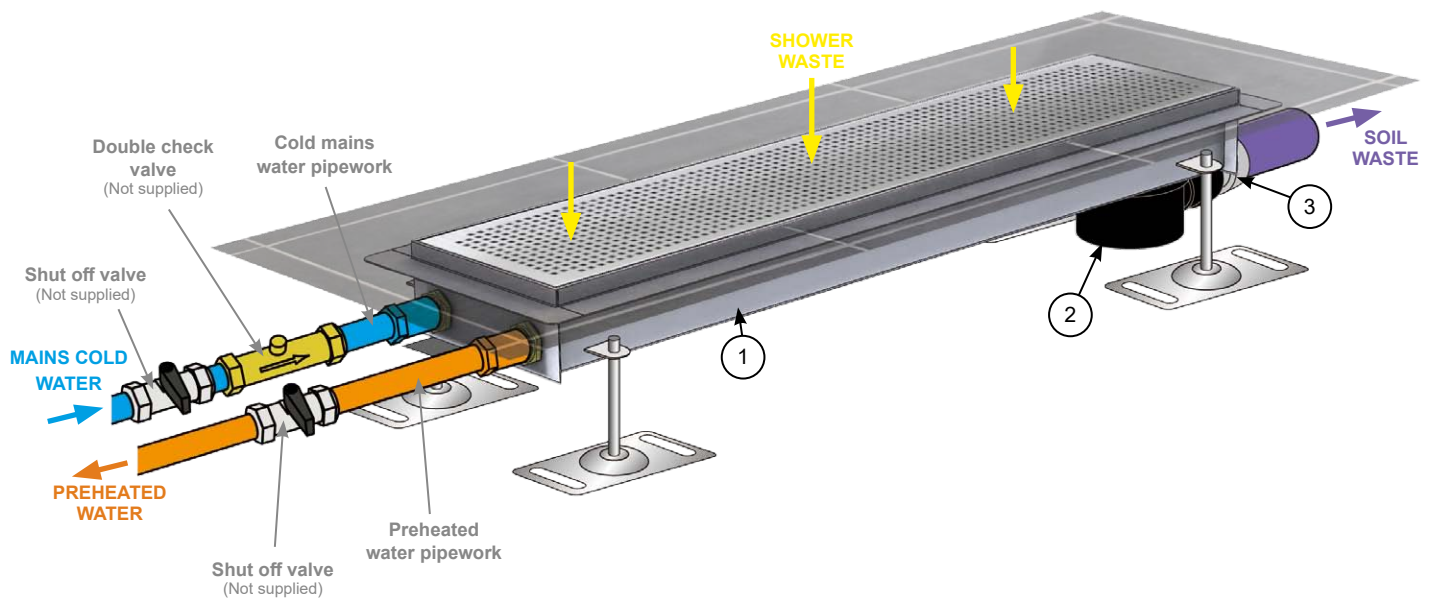


DRAWINGS & DIAGRAMS

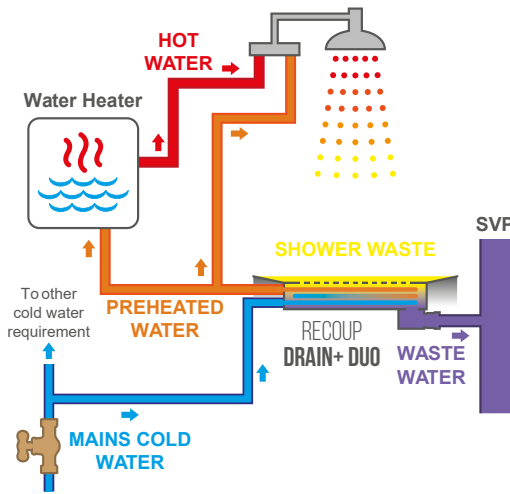


COMPONENT KEY

- 1 - RECOUP Drain+ Duo
- 2 - Waste Syphon Ø50mm
- 3 - 50mm to 40 - 43mm reducer



INSTALLATION METHODS



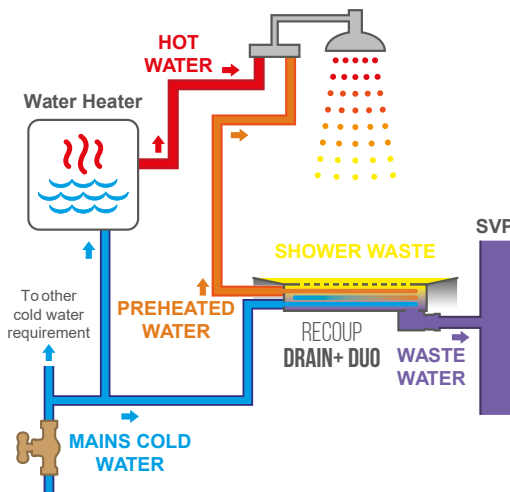
SYSTEM A

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.

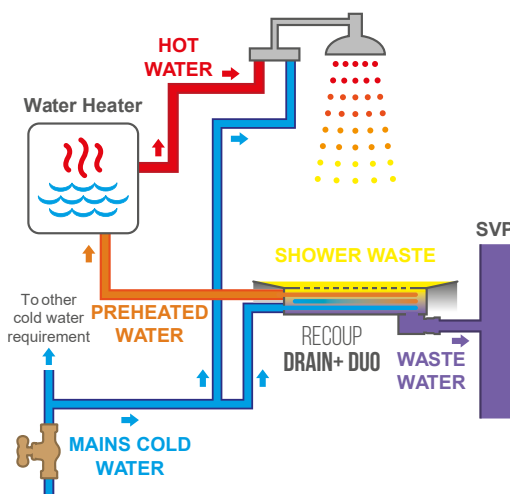


SYSTEM B

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.



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.

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 DRAIN+ DUO

Recoup WWHRS | Drain+ Duo | 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 Recoup Drain+ Duo product specification.