





Make sure you can see the whole screen

Please click the three dots next to my name in the bottom left of this screen and select.

Please note this session may be recorded for Recoup publication use.



Recoup is now part of Kohler Mira





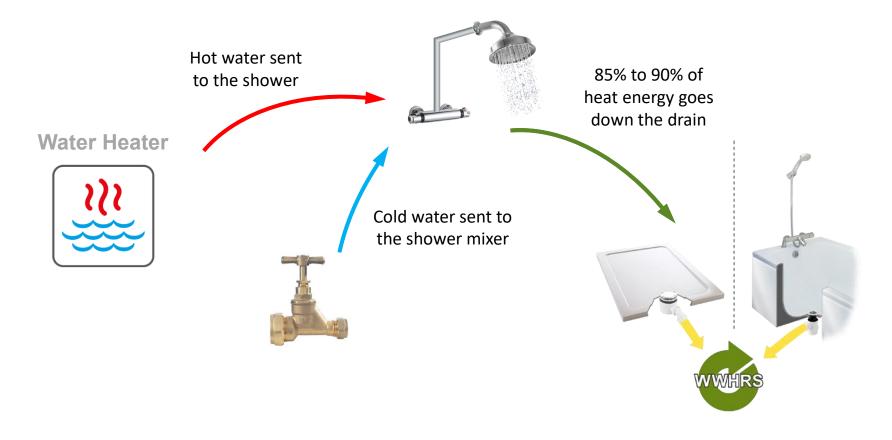




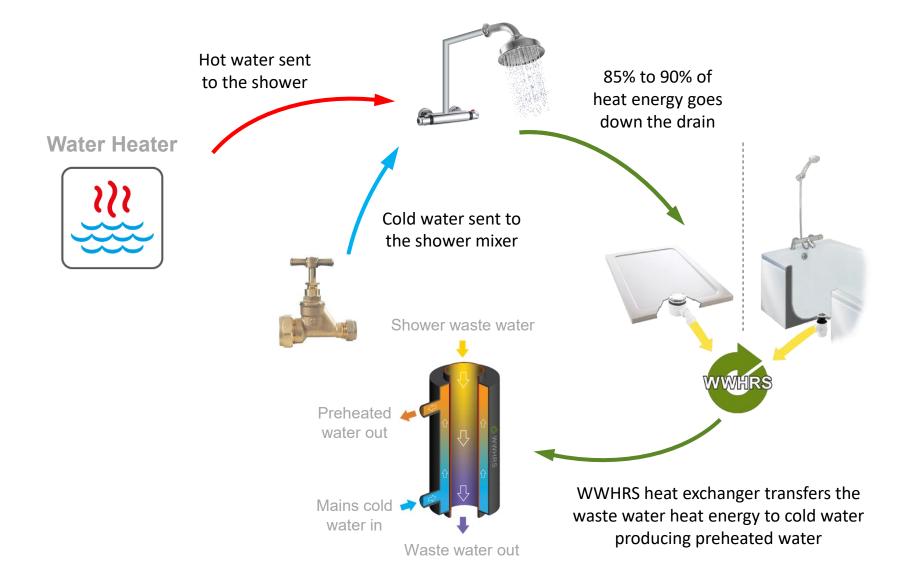
OVERVIEW FOCUS

- How does WWHRS Work
- Who uses WWHRS
- Why is it important for new build
- New build products & their Impact for new build (Part-L compliance)
- Why is it important for existing homes / direction of travel
- Key products for retrofit, refurb & bathroom upgrades
- Merchant engagement & supply chain
- Discussion & Questions

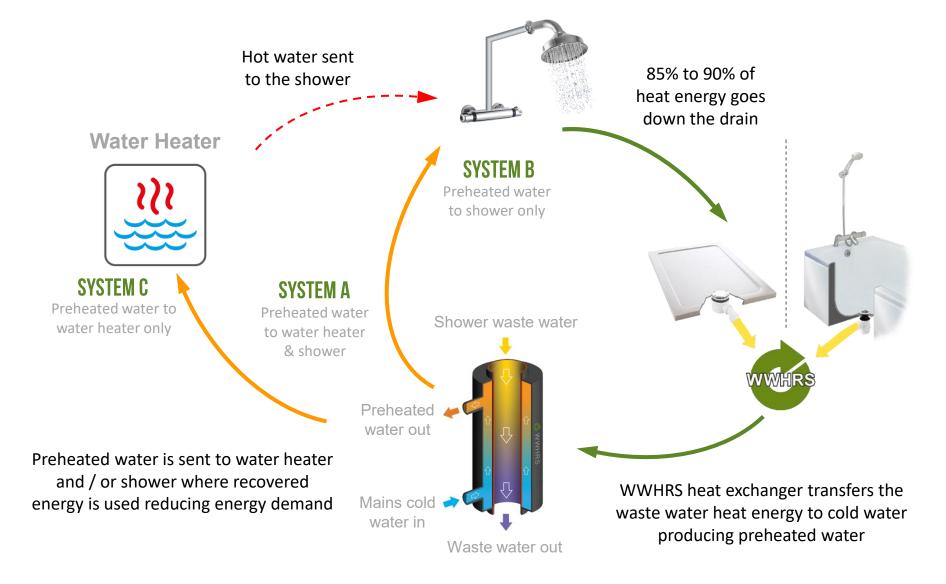






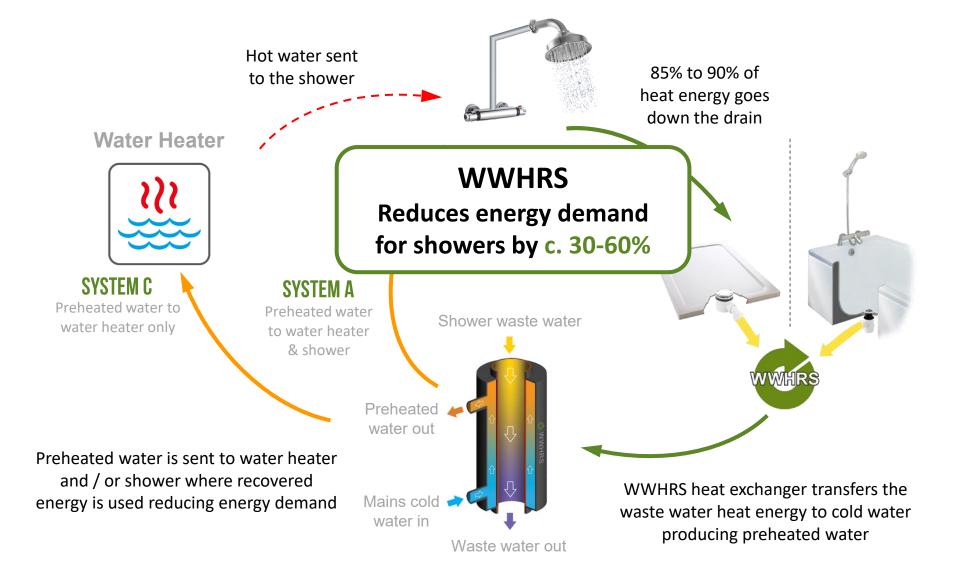






WASTE WATER HEAT RECOVERY FOR SHOWERS





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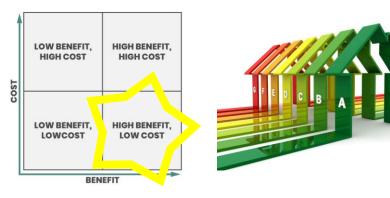


House Builders

WWHRS is a cost-effective route to Part-L compliance. House builders and developers have been using WWHRS in the UK since 2012.

WWHRS is suitable for Houses, Apartments,
 Bungalows, Passivhaus etc...







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Hotel & Student Accommodation

As part of a suite of measures for cost-effective building compliance & future operator DHW cost reduction





• Leisure & Sports Facilities:

High shower use environments, can benefit significantly from DHW cost reduction; DHW plant size reduction; and cost-effective compliance.





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High shower use environments, can benefit significantly from DHW cost reduction; DHW plant size reduction; and cost-effective compliance.

Housing Stock Upgrades & Domestic Retrofit:

As part of a planned maintenance regime or for deep energy efficiency overhauls.

- WWHRS is a low-cost, low-disruption measure
- Can be rolled out with existing upgrades & budgets (eg SHDF)
- Works for 'Hard to Treat' dwellings & older housing where fabric upgrades are problematic
- Private homeowners / Able-to-pay





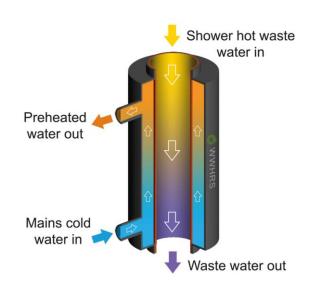


WWHRS is a highly localised
 Primary Demand Reduction
 technology





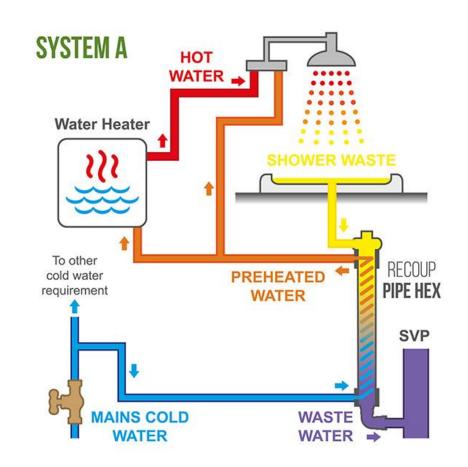
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- A simple heat exchanger technology that utilises outgoing heat energy (warm shower waste) and exchanges this to incoming main cold (Preheated CWM)





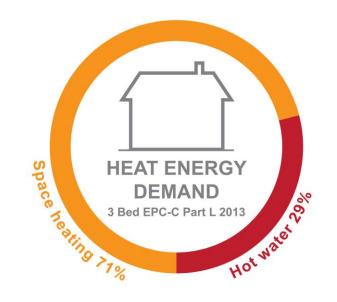


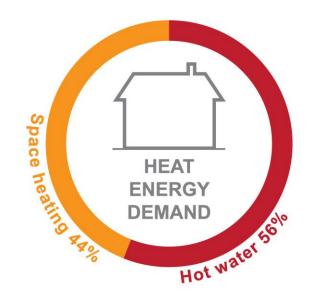
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- WWHRS can reduce the energy required per shower use by 40-60% in new build.... Passively without user interaction





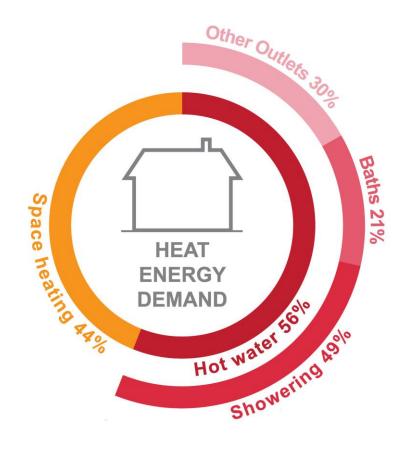
Typically, new build homes built under current
Part-L have a higher Domestic Hot Water demand
than Space Heating





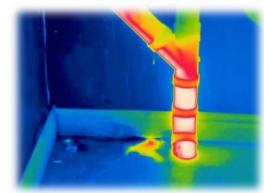


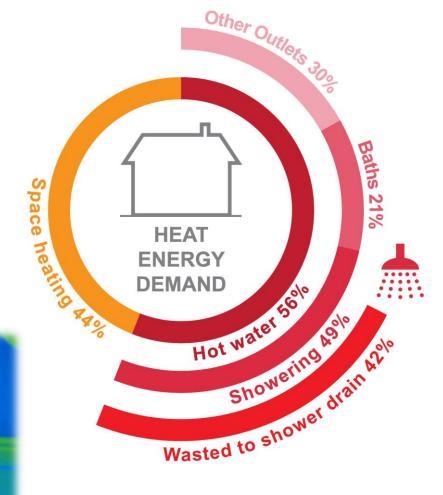
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 Part-L have a higher Domestic Hot Water
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- Showering forms around 50% of a home's DHW demand (up to 80% in apartments)
- But showering is wasteful, with c. 85% of that heat energy from the showerhead leaving the envelope via the shower drain







WWHRS: WHY USE IT IN YOUR PROJECT?

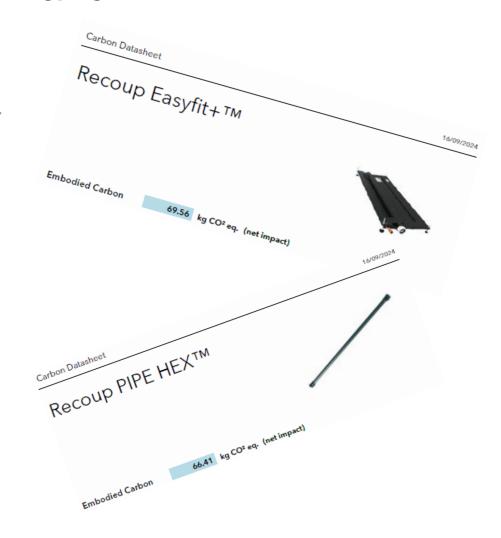
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- Low Embodied Carbon: Cradle to Cradle manufacturing = incredibly low embodied carbon product.





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 Which is in line with plumbing infrastructure.
- Low Embodied Carbon: Cradle to Cradle manufacturing = incredibly low embodied carbon product.
- Certification: SAP, SBEM, BREEAM, PhPP, WRAS





INSTALLATION & OPERATION





WWHRS WHAT DOES IT WORK WITH?

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- WWHRS works with any Thermostatic shower mixer
- WWHRS works with a Mira Heatloop[™] electric shower







RECOUP PIPE HEX Vertical Pipes

Vertical WWHRS, highest efficiency, installed on the floor below the shower they connect to. Fast & easy installation with no planned maintenance

RECOUP EASYFIT+ Under Bath

Horizontal WWHRS.
Installed under bath or shower. Ideal for apartments, ground floor showers & retrofit

RECOUP HEATDECK Integrated Tray

www.example www.ex

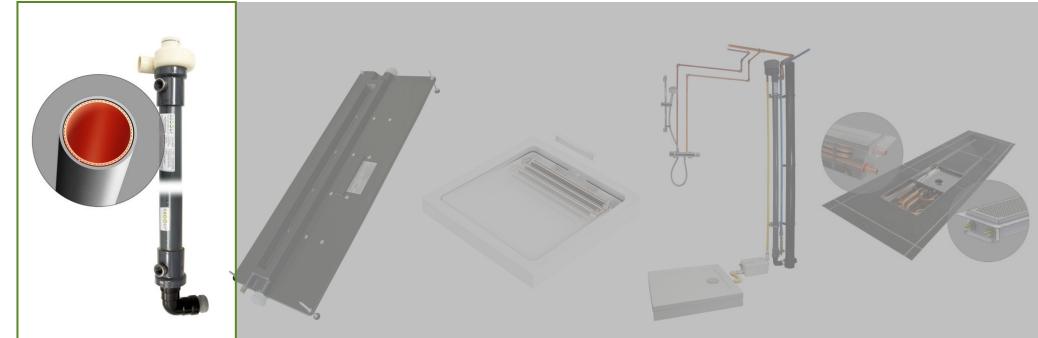
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WWHRS integrated
wet-room drain
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High-end residential,
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WASTE WATER HEAT RECOVERY FOR SHOWERS





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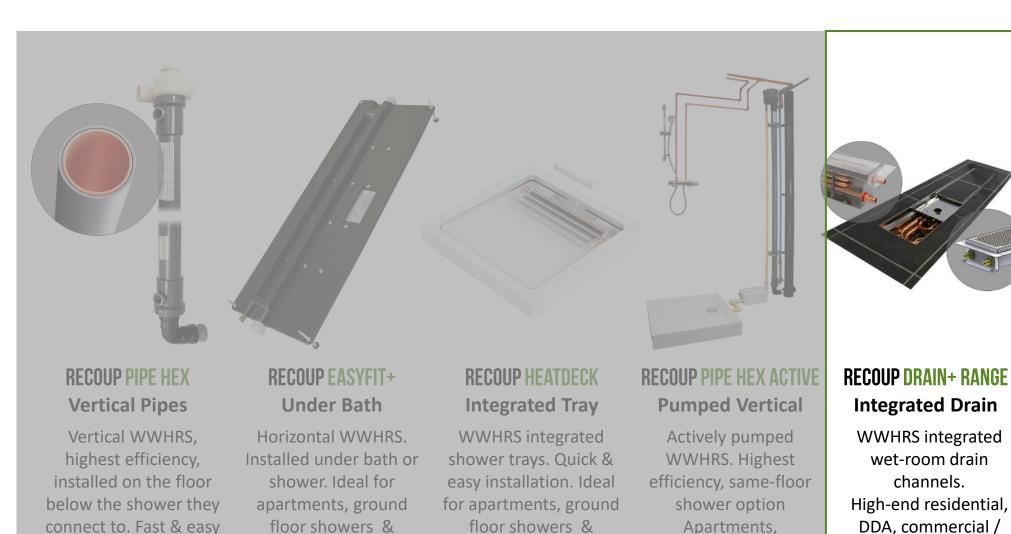












retrofit

refurbishments,

adaptations & retrofit,

communal showers

WASTE WATER HEAT RECOVERY FOR SHOWERS

retrofit

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• 2.1m vertical pipe system





- 2.1m vertical pipe system
- Very high heat recovery efficiency 63.6% @11l/min 68.1% @9l/min



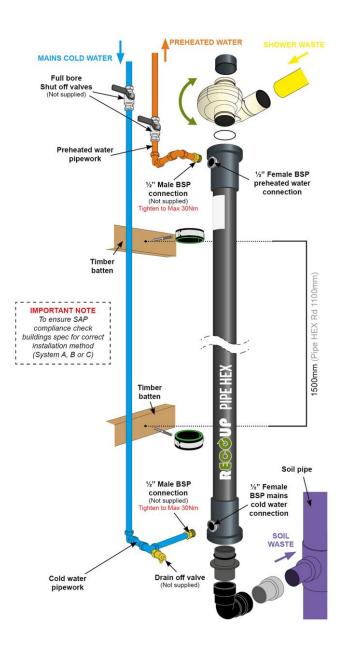


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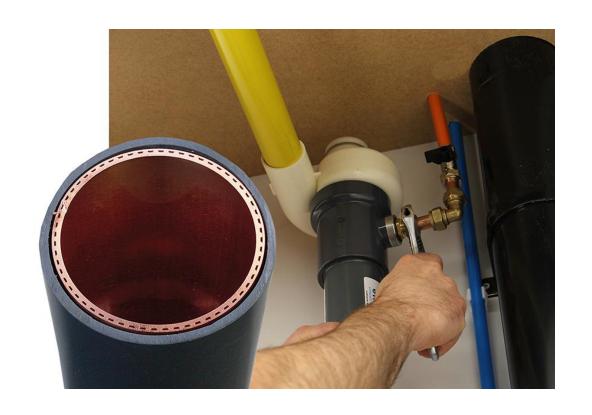


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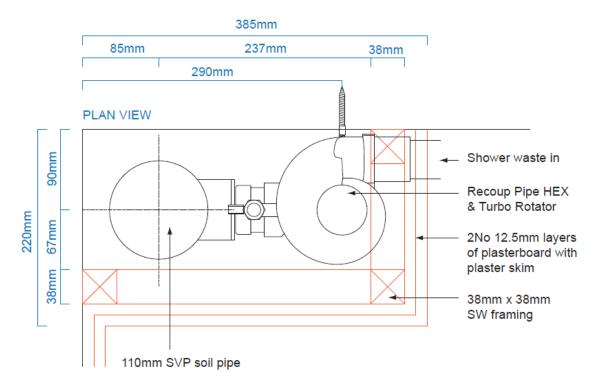
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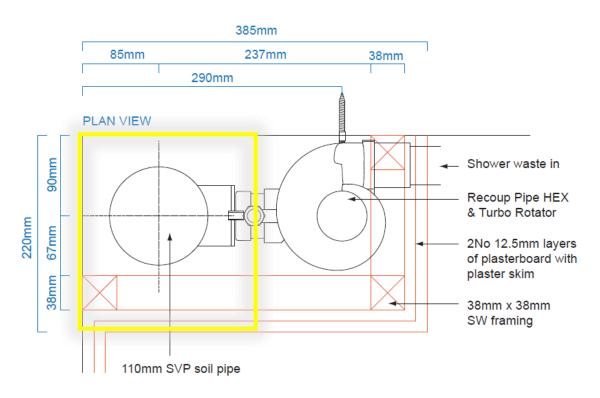
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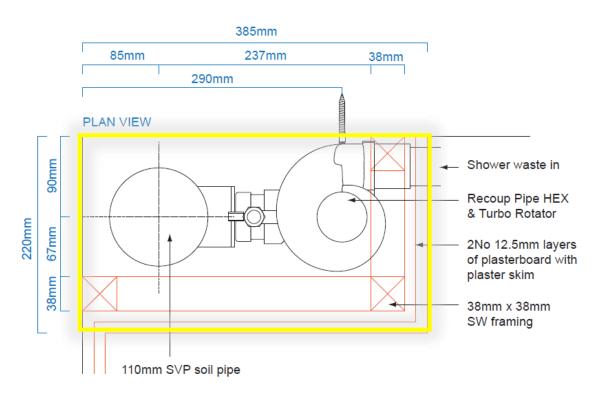
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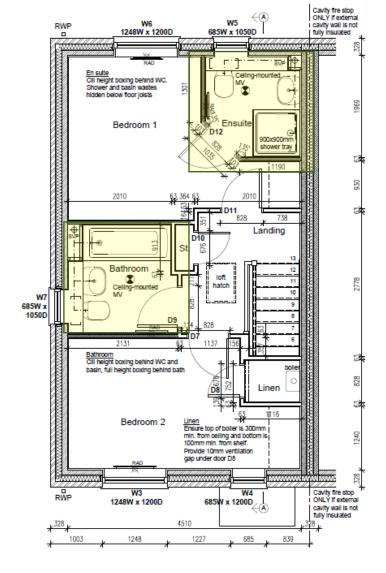
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- Typical 3-bed | 2 Bathroom dwelling | 73 sqm
 - Master ensuite Shower only (8l/min)
 - Family Bathroom Bath only (no shower)
 - Gas Boiler / DHW Cylinder (210l tribune XE)
 - 4.5kW PV (max coverage @400w per panel)



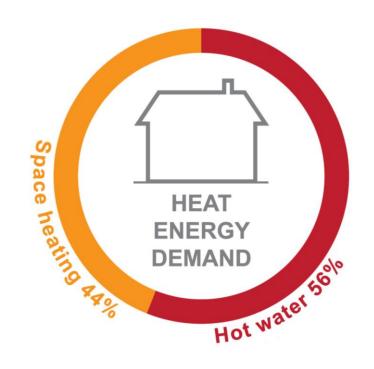
FIRST FLOOR PLAN



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 - Master ensuite Shower only (8l/min)
 - Family Bathroom Bath only (no shower)
 - Gas Boiler / DHW Cylinder (210l tribune XE)
 - 4.5kW PV (max coverage @400w per panel)

SAP calculates:

- Space Heating Demand = 2215 kWh/year (44%)
- Water Heating Demand = 2846 kWh/year (56%)



Calculated on SAP 10.2



Without WWHRS: Part-L fails on %DER<TER

No WWHRS					
	SAP Rating:	96 A	CO2 Emission:	0.96 t/yr	
	DER:	14.94 kgCO2/yr/m2	TER:	13.01 kgCO2/yr/m2	
Ī	% DER <ter:< th=""><th>-14.83%</th><th>Compliance:</th><th>See BREL</th></ter:<>	-14.83%	Compliance:	See BREL	
l	DPER:	65.81 kWh/m2/yr	TPER:	68.18 kWh/m2/yr	
l	DPER <tper:< th=""><th>3.48 %</th><th>DFEE:</th><th>41.01 kWh/m2/yr</th></tper:<>	3.48 %	DFEE:	41.01 kWh/m2/yr	
	TFEE:	41.39 kWh/m2/yr	DFEE <tfee:< th=""><th>0.91 %</th></tfee:<>	0.91 %	

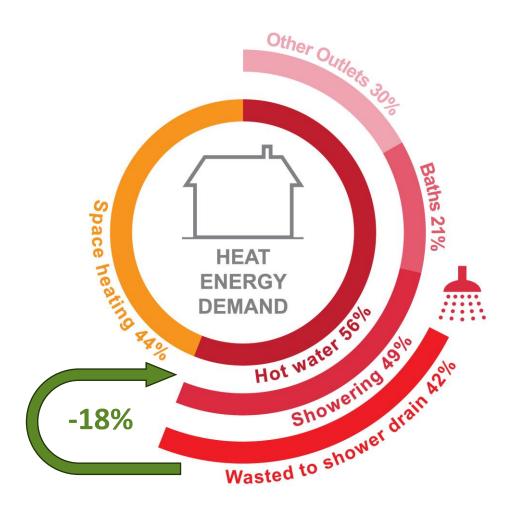


- Without WWHRS: Part-L fails on %DER<TER
- With WWHRS: Vertical Pipe | Ensuite | System A:
 - PASS
 - EPC increases to 97 A





- Without WWHRS: Part-L fails on %DER<TER
- With WWHRS: Vertical Pipe | Ensuite | System A:
 - PASS
 - EPC increases to 97 A
- Actual SAP calculated Energy
 Demand Reduction is
 -522 kWh/yr (-18%)





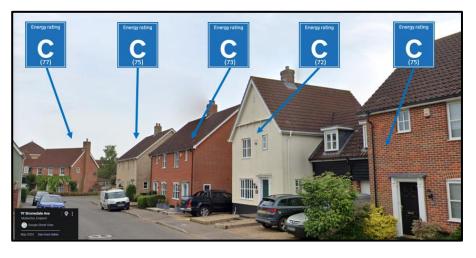
- SAP Impact is.....
 - -17.79% Reduction in Primary Energy
 - -14.35% reduction on CO2 Emissions

Primary Energy	CO ₂ Emissions			
Without WWHRS				
DPER kWh/sqm/yr	DER CO ₂ /sqm/yr			
55.06	12.94			
With WWHRS				
DPER kWh/sqm/yr	DER CO ₂ /sqm/yr			
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WWHRS Impact				
Primary Energy	CO ₂ Emissions			
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WWHRS: IMPORTANCE FOR EXISTING HOMES



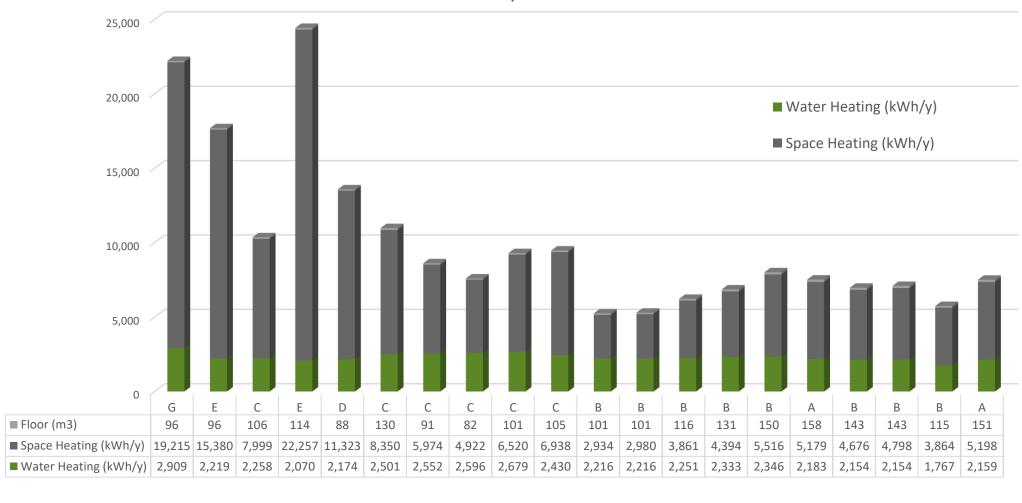




WASTE WATER HEAT RECOVERY FOR SHOWERS

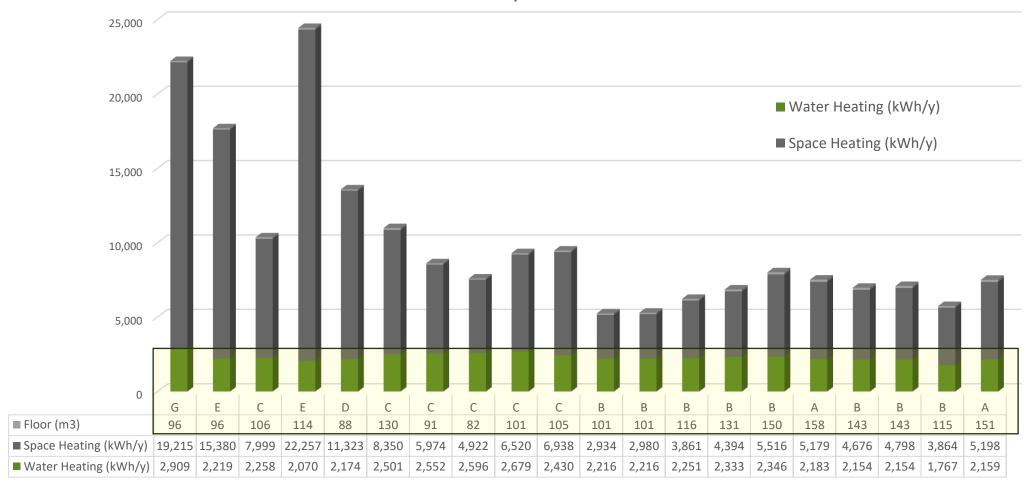




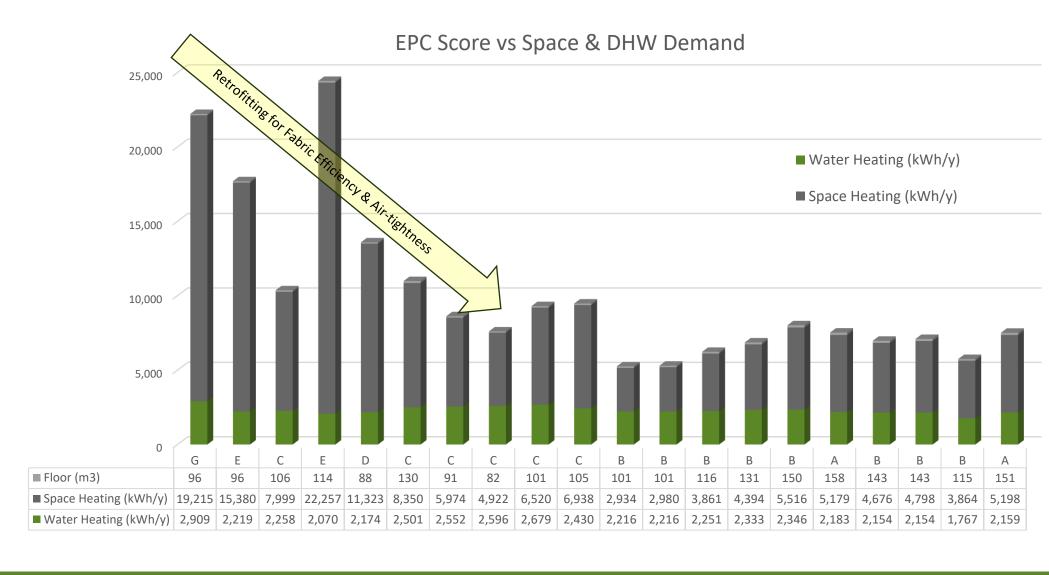




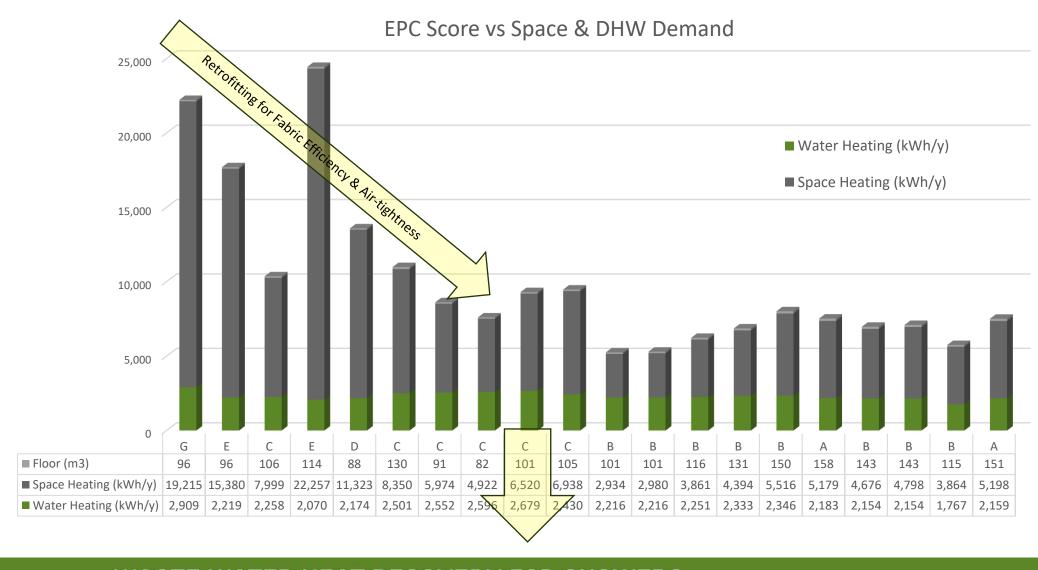






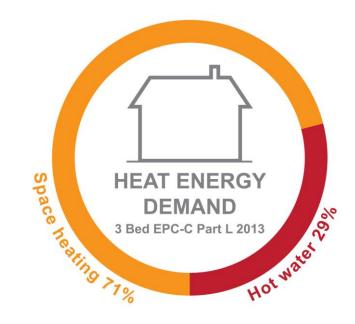






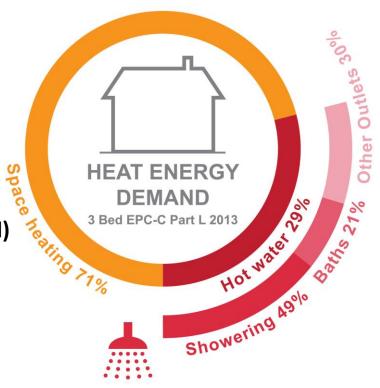


- 3 Bed 101 Sqm Part-L 2013 EPC C
- Space Heating Demand = 6520 kWh
- Water Heating Demand = 2675 kWh
- Total Space & DHW demand = 9195 kWh



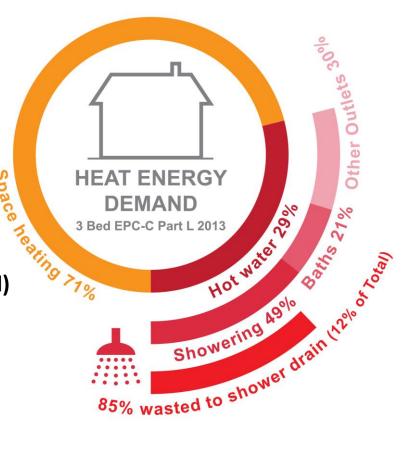


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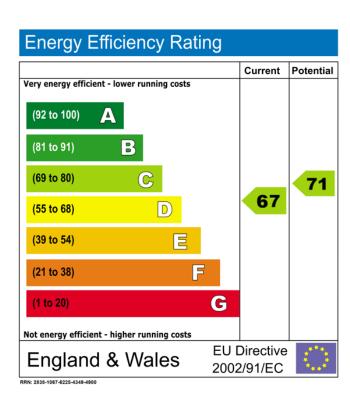


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- 85% of shower heat goes down the drain (12% of total)
- WWHRS can reduce energy use per shower by 30-60%



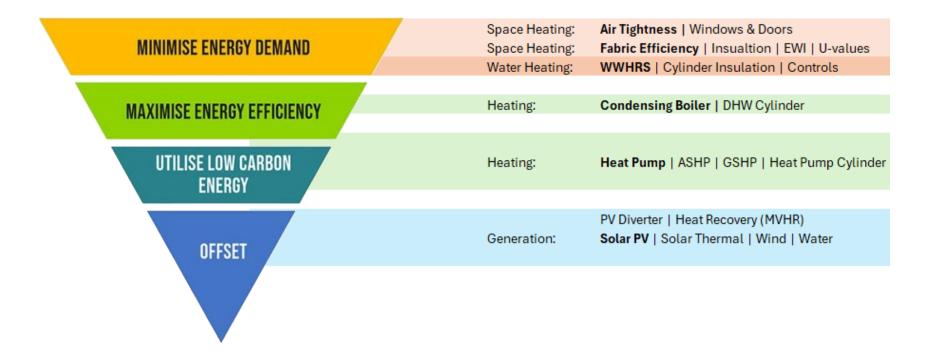


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- WWHRS can reduce energy use per shower by 30-60%
- That's between 327 kWh 786 kWh saved per year
 (equivalent to 155 374 loads of washing)
- Or 5% 10% of this home's total heat demand
 (Typically, 1 4 EPC points)



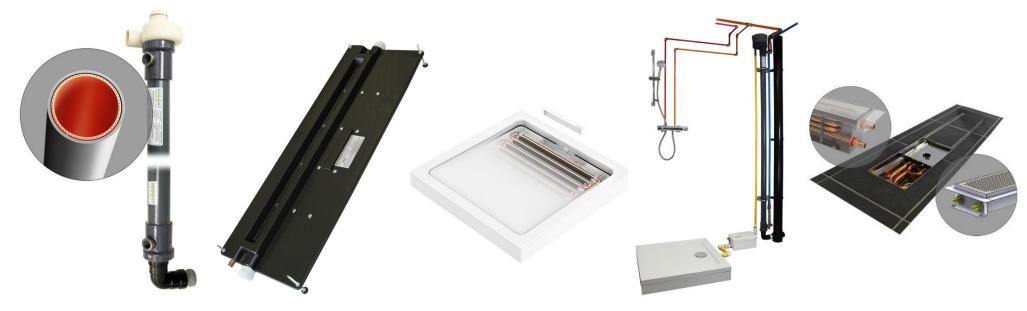


WWHRS is a **high impact, low installed cost** measure that **reduces primary energy demand** in a similar way to air tightness or fabric measures





WWHRS: A PRODUCT FOR EVERY RETROFIT SENARIO



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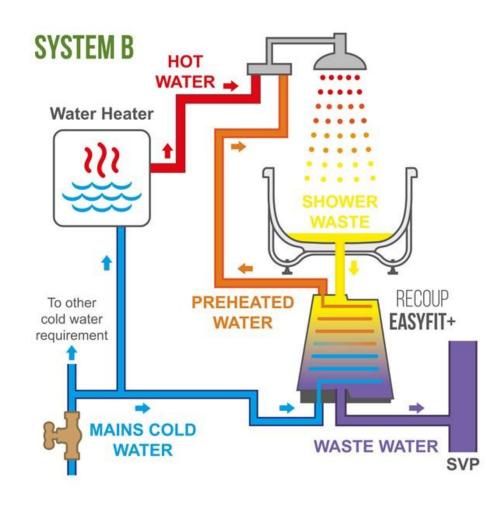


 'Under-bath' system – unused void space



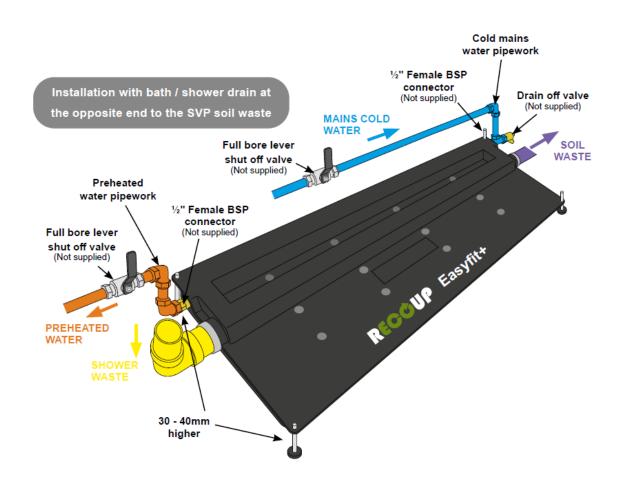


- 'Under-bath' system unused void space
- 43-47% efficient (5.5–11l/min)
- Offer's up to a 43% reduction in energy used per shower



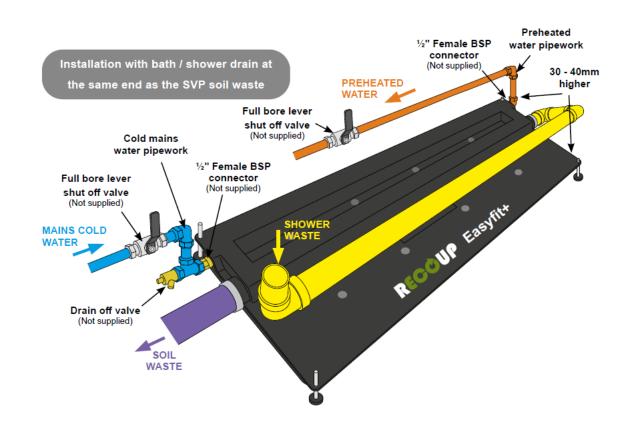


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- Apartments, retrofit, ground floor showers
- Very simple to install
- Impressive SAP score for Apartments with shower over bath or ensuite shower









 New-to-Market WWHRS integrated shower tray range



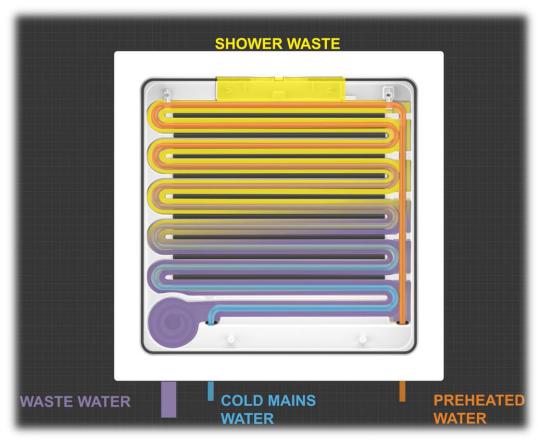


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- Constructed with Mira Flight Design & Aesthetic





- New-to-Market WWHRS integrated shower tray range
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- 35-43% efficient (5.5–11l/min)
- Offer's up to a 35-40% reduction in energy used per shower



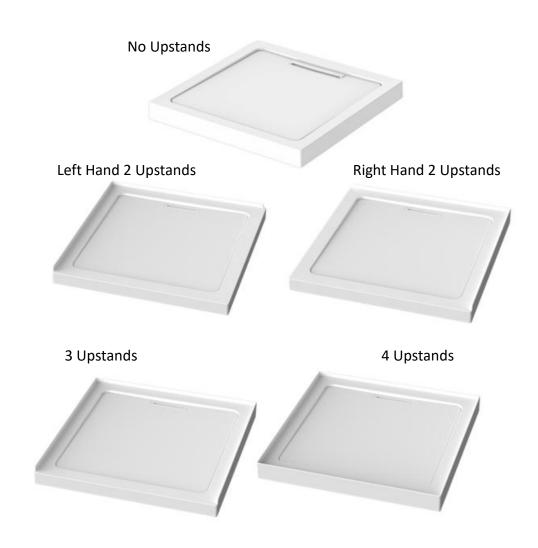


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- Works in the same way as a 'normal' shower tray





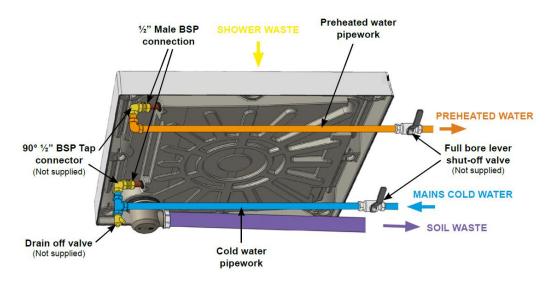
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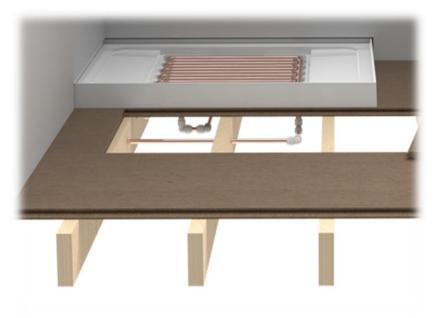






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- Works in the same way as a 'normal' shower tray
- Size and upstand options available
- Simple to install
- Adaptable installation options





WASTE WATER HEAT RECOVERY FOR SHOWERS



RECOUP PIPE HEX ACTIVE







RECOUP PIPE HEX ACTIVE

 Active pumped WWHRS pipe, located on the same floor as the shower



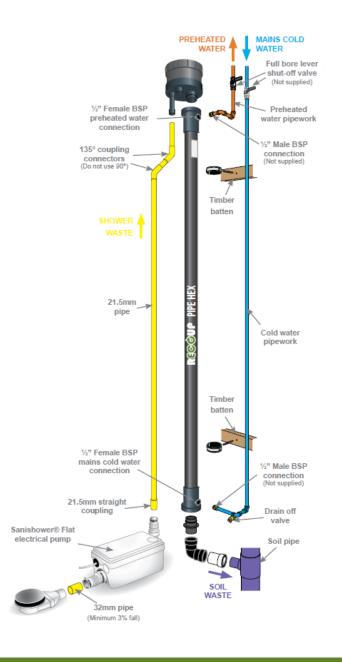


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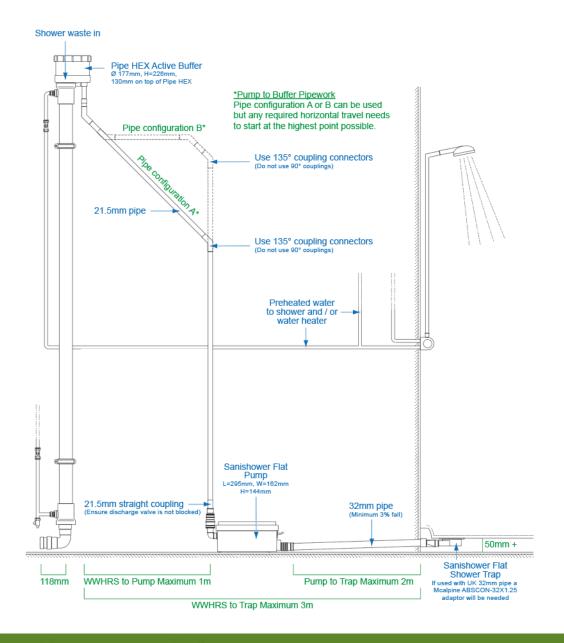


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- Ideal retrofit solution with no impact on shower space design
- Flexible application, ideal for showers in apartments, modular builds, or flatted developments with contained services











 First-to-market Thermostatic Electric Shower optimised to work with WWHRS



Mira Advance Heatloop™



- First-to-market Thermostatic Electric Shower optimised to work with WWHRS
- Simple retrofit installation for both electric shower and WWHRS



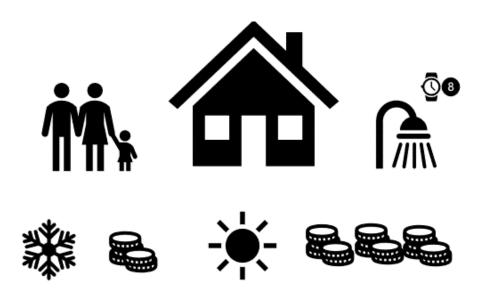


- First-to-market Thermostatic Electric
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Estimated Annual Savings

Advance Heatloop	% Energy saving	Estimated energy saving
+ Recoup Easyfit	29%	£94.27
+ Recoup Pipe HEX	40%	£135.24



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- Future EPC/SAP points*





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- Future EPC/SAP points*
- Aspirational electric shower design



* Details TCB Q3 2025



General Purpose Housing

Mira Vista Heatloop™

8.7kW - 35791W-WH 8.7kW - 35791W-BL

Mira Vista Heatloop™ Dual Outlet

8.7kW -35792W-WH 8.7kW - 35792W-BL



Mira Advance





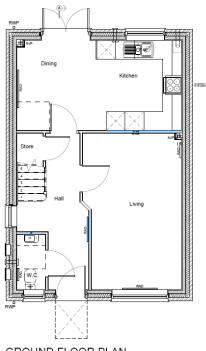


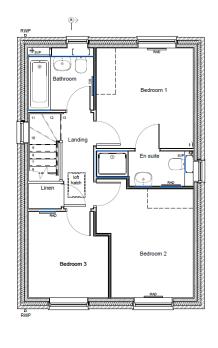
New Build Market

A WAY TO OFFER SHOWER UPGRADES WITHOUT COMPROMISING COMPLIANCE



MIRA HEATLOOP & RECOUP WWHRS SAP IMPACT







GROUND FLOOR PLAN

FIRST FLOOR PLAN

Test case Dwelling Type	Scenario	Scenario description	SAP Rating	SAP Band	Total energy used by building (kWh)	Primary energy (kWh/m²)	Heater Ouptut (Boiler)	IES	WWHRS SAVING	Cost (£/yr)	CO₂ (kg/yr)
3 Detached	d Baseline	3-bedroom Ensuite (8I/m TMV shower) + 1 Bath - no WWHRS	85	В	6750	7840	2995	0	0	427	1382
3 Detached	d Improvement 1	3-bedroom Ensuite (8I/m TMV shower) + 1 Bath - with WWHRS (Pipe HEX)	86	В	6150	7162	2395	0	600	405	1256
3 Detached		3-bedroom Ensuite (8 I/m TMV shower) (En-suite having Pipe HEX) + Bathroom (IES shower + bath) with Heatloop & Easyfit+	86	В	6148	7103	2140	319	395	421	1227



RECOUPE WWHRS: RETROFITTABLE FOR HOMEOWNERS AT SCALE



WWHRS is now available for both TMV mixer & 'Heatloop' Electric showers New WWHRS products are ideal for retrofit and EPC/SHDF upgrades



MIRA HEATLOOP & RECOUP WWHRS SAP IMPACT



Tes case		g Scenario	Scenario description	SAP Rating	SAP Band	Total energy used by building (kWh)	1/2/M/h/m	Ountut	IFS	WWHRS SAVING		CO₂ (kg/yr)
	7 Flat	Baseline	2-bedroom Single bathroom with IES	81	В	3436	4210	1672	526	0	351	663
	7 Flat	Improvement 1	2-bedroom Single bathroom with IES + Healoop (easyfit+)	85	В	3279	3738	1672	526	157	291	620



RECOUP WWHRS: RETROFITTABLE FOR HOMEOWNERS AT SCALE

Mira Advance Heatloop™ & Recoup Easyfit+

- Simple, non-disruptive retrofit
- 30-40% annualised energy savings
- Consistent shower flow rate (5-6l/min)
- EPC / SAP points*



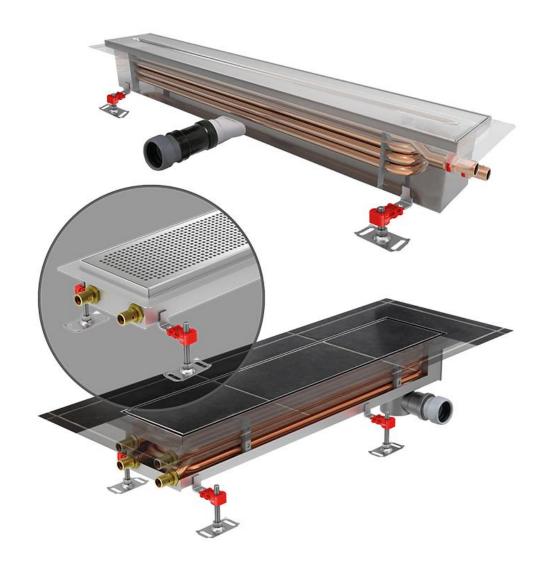
* Details TCB Q3 2025







- Wetroom drains with integrated WWHRS
- Efficiency range up to 57%





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- Efficiency range up to 57%
- New build residential & commercial/leisure





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- Efficiency range up to 57%
- New build residential & commercial/leisure
- Excellent savings with high traffic areas, Common 2-6 years ROI – gym/sports facility

GYM BOX EXAMPLE

Assumptions (from Customer):

23.82 shower uses per day

5.5l/min

5.25mins per shower

Savings predictions (2016):

£11,010.75 per annum saved

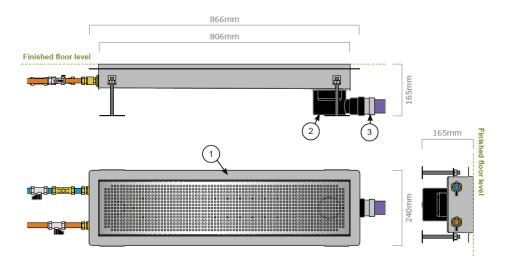
ROI of 1.1 years

43,000 KG CO₂ per annum saved

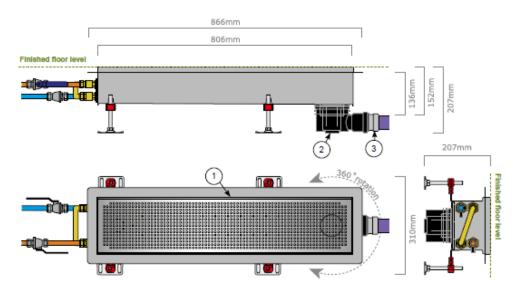
Load reduction



RECOUP DRAIN+ DUO



RECOUP DRAIN+ DUO HE





RECOUP DRAIN+ DUO HE

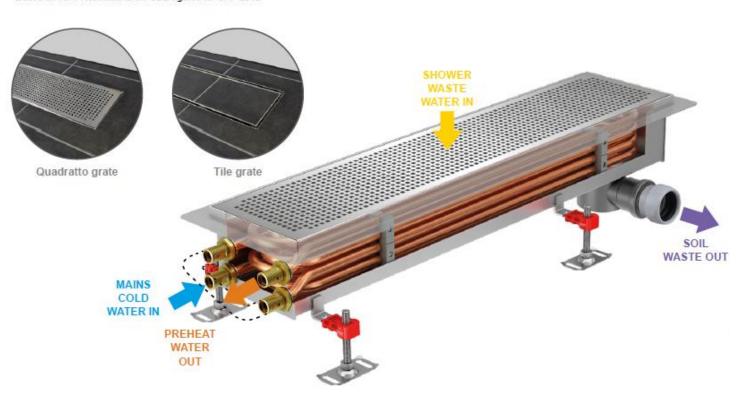
PERFORMANCE & EFFICIENCY

SHOWER FLOW RATE @	DRAIN+ DUO HE EFFICIENCY (RECOVERED ENERGY KW) *					
40°C (LITRES/MIN)	SYSTEM A	SYSTEM B	SYSTEM C			
5.8	57.4% (6.04)					
9.2	57.3% (9.56)					
11.0	56.7% (11.31)	44.9% (8.96)	49.2% (9.82)			
12.5	56.4% (12.79)					

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

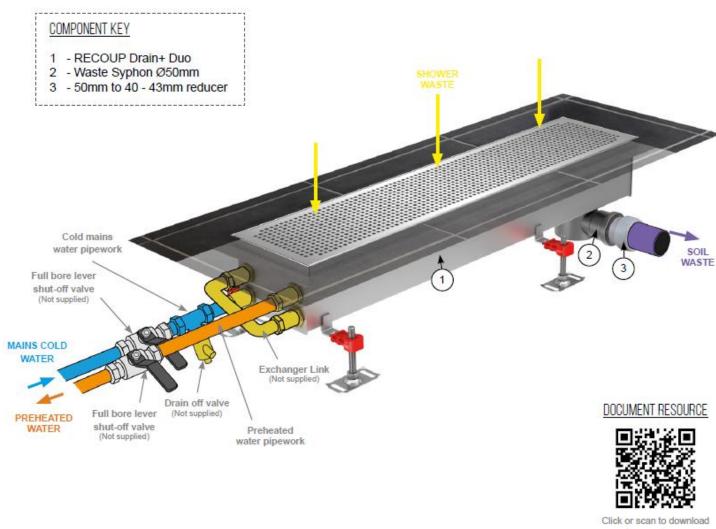
PRESSURE DROP ON THE MAIN WATER CIRCUIT

SHOWER FLOW RATE @	DRAIN+ DUO HE PRESSURE DROP (BAR)					
40°C (LITRES/MIN)	SYSTEM A	SYSTEM B	SYSTEM C			
5.8	0.14	0.08	0.06			
9.2	0.32	0.20	0.13			
12.5	0.54	0.34	0.22			





RECOUP DRAIN+ DUO HE



our document resource

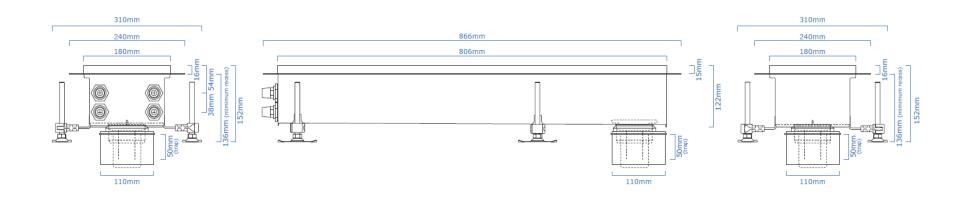


RECOUP DRAIN+ DUO HE





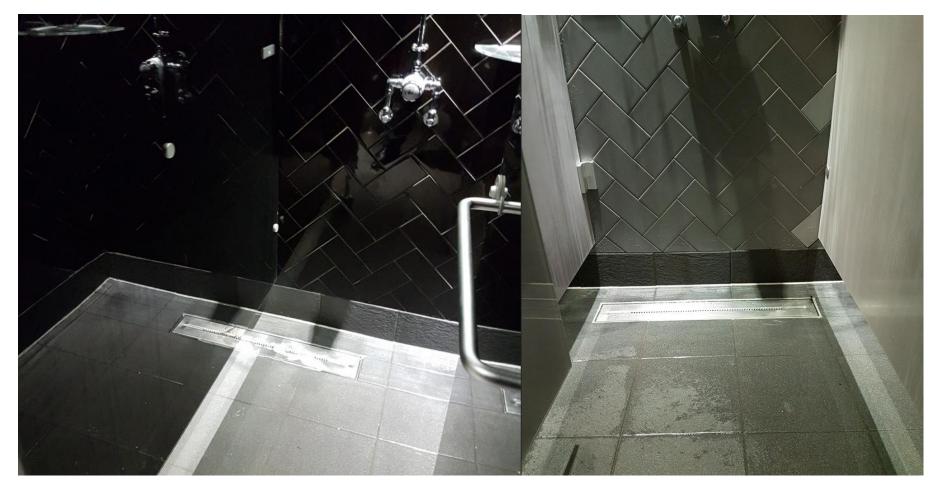






RECOUP DRAIN+ INSTALLATION AT GYMBOX FARRINGDON

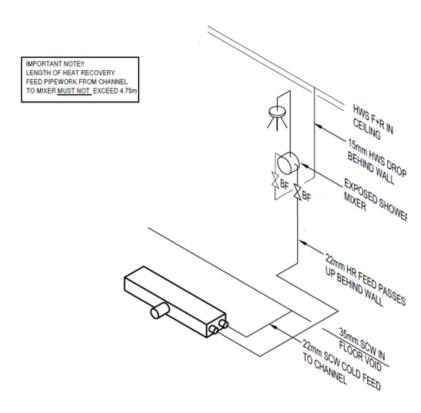




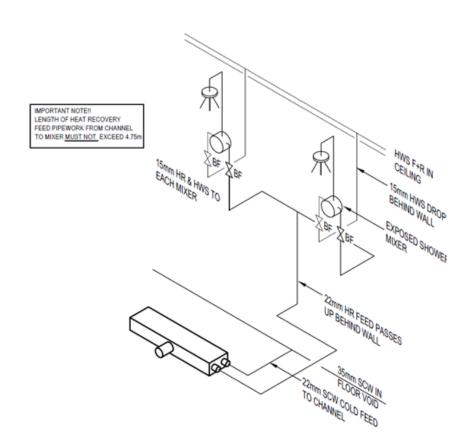


RECOUP DRAIN+ INSTALLATION AT GYMBOX FARRINGDON





OUTLINE DETAIL FOR SWHRS CONNECTIONS TO SHOWERS

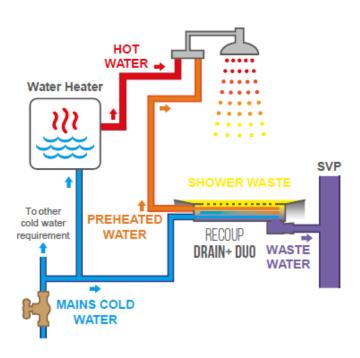


OUTLINE DETAIL FOR SWHRS CONNECTIONS TO SHOWERS



RECOUP DRAIN+ INSTALLATION AT GYMBOX FARRINGDON





SYSTEM B

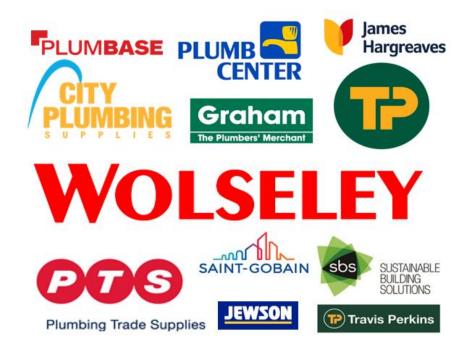
Preheated water supplied to shower mixer (cold inlet) on the shower only

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.



WWHRS: WHERE TO BUY



MERCHANT PRODUCT CODES





PTS / CITY PLUMBING





WOLSELEY

Product	Code	Description
Recoup Pipe HEX	D04048	Pack code for 2.1m vertical WWHRS pipe (D03870) & installation pack (D03871)
Recoup Easyfit+	D00997	Horizontal under bath WWHRS





Find a Travis Perkins branch here

	Product	Code	Description
	Recoup Pipe HEX	207122 & 207123	2.1m vertical VWVHRS pipe (207122) & installation pack (207123)
ĺ	Recoup Easyfit+	207119	Horizontal under bath WWHRS





rind a UKPS branch here						
Product	Code	Description				
Recoup Pipe HEX	RHEX1PA2 or RP11.0010	Pack code for 2.1m vertical WWHRS pipe & installation pack				
Recoup Easyfit+	R-EZ-01 or RP11.0020	Horizontal under bath WWHRS				





Product	Code	Description
Recoup Pipe HEX	R-HEX-01	Pack code for 2.1m vertical WWHRS pipe & installation pack
Recoup Easyfit+	R-EZ-01	Horizontal under bath WWHRS



IFWSONS

Product	Code	Description
Recoup Pipe HEX	RHEX1PA2	Pack code for 2.1m vertical WWHRS pipe & installation pack
Recoup Easyfit+	RECREZ01	Horizontal under bath WWHRS



THANK YOU!

QUESTIONS?