

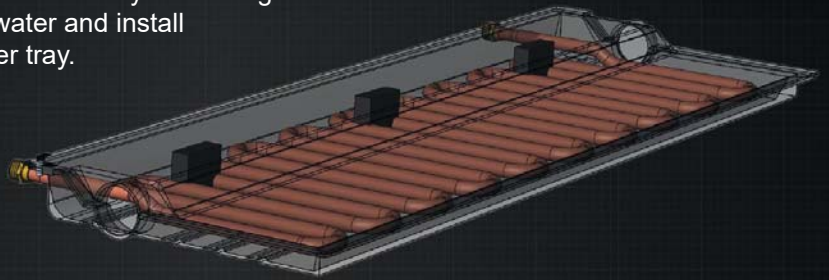
EASYFIT+

SOCIAL HOUSING UPGRADE OVERVIEW

PRODUCT SUMMARY

The Recoup Easyfit+ is a stand-alone horizontal WWHRS system designed to passively recover energy from waste shower water and install directly under a standard bath or a walk-in shower tray.

Aimed specifically at the residential retrofit, new-build apartment & social housing sectors. The Easyfit+ offers an unrivalled combination of price point, efficiency and ease of installation that has not previously been possible.



- UP TO 47% HEAT RECOVERY FROM WASTE SHOWER WATER
- WRAS & SAP-LISTED FOR PART-L / SBEM / BREEAM COMPLIANCE
- AN IDEAL RETROFIT MEASURE FOR HARD-TO-TREAT HOMES, GENERATING A POSITIVE EPC UPLIFT

EXAMPLE BENEFIT ANALYSIS (THREE-BEDROOM, ONE BATHROOM SEMI):

Product	Installed Cost	Installation Time	Energy Reduction	Carbon Savings (Gas/Electric)	Annual Savings (Gas/Electric)	ROI (Gas/Electric)	£ Lifetime Savings (Gas/Electric)	tCO2 Savings (Gas / Electric)
Recoup Easyfit+	£400	2 hours	1046 kWh	192.59 kg	£ 43.75	9.1 years	£ 1,312.56	5.78
				467.87 kg	£ 79.43	5.0 years	£ 2,383.01	14.04

Demonstrates calculated annual DHW energy savings for a 3 bedroom semi-detached house with one bathroom. Annual calculations are based on 3.5 showers per day, and SAP standard default assumptions for shower time, flow rate and temperatures. Carbon Savings are calculated using Defra's 2017 carbon conversion factor of 0.184kg CO2 per kWh for mains gas and 0.447kg CO2 per kWh of electricity. Potential savings are calculated using unit price of £0.0418 per kWh for mains gas and a energy rate of £0.0759 per kWh for electricity (including reduced night-time rate).

ADDITIONAL BENEFITS

Client Benefits	Installer Added Value
<ul style="list-style-type: none"> • Low cost system, with incredible lifetime savings • No planned maintenance or commissioning required • Quick install with little/no downtime requirement • Reduced hot water costs & carbon emission savings • No moving or mechanical parts, no electrical power, no end-user interaction means long lifetime product (>30yrs) • Contributes towards all properties at EPC 'C' by 2030 • Helps reduce fuel consumption for 'fuel poor homes' 	<ul style="list-style-type: none"> • Additional revenue stream from existing client base • Applicable to residential, multi-residential, commercial & housing associations (new build or retrofit) • FREE design and site support as required • The highest efficiency retrofit system available • Independently verified by KIWA / SAP-Listed • Readily available with 2-4 day lead time • Easily scalable

CASE STUDY: EXAMPLE SOCIAL HOUSING PROVIDER SAVINGS

The Recoup Easyfit+ is an ideal retrofit upgrade for existing housing stock. Whether via void maintenance; energy efficiency upgrades; boiler upgrades; kitchen & bathroom upgrades; or full refurbishment, WWHRs is a simple and cost-effective solution for any social housing provider.

- It is calculated that over 17million homes in the UK have a bath, with around 30% of these being equipped with a thermostatic mixer shower.
- Therefore around 5.1 million UK homes could benefit from retrofitting WWHRs.
- Up to 47% heat recovery, equates to around 30-35% energy savings for every shower.
- Considerably quicker, easier & cheaper to install than most common efficiency measures (eg Solar, loft insulation, CWI, EWI etc).



SINGLE DWELLING SAVINGS: 1 – 5 BEDROOM DWELLINGS

Number of Bedrooms per Dwelling	kWh Energy Savings (per household)	£ Savings (Gas) pa	£ Savings (Elec) pa	kg CO2 Savings (Gas) pa	kg CO2 Savings (Elec) pa
1	448.58	£ 18.75	£ 34.04	82.54	200.52
2	747.64	£ 31.25	£ 56.74	137.57	334.19
3	1,046.70	£ 43.75	£ 79.43	192.59	467.87
4	1,345.75	£ 56.25	£ 102.13	247.62	601.55
5 (+)*	897.17	£ 37.50	£ 68.09	165.08	401.03

EXAMPLE SAVINGS FOR SOCIAL HOUSING PROVIDERS / CUSTOMERS (PER 1000 DWELLINGS)

Percentage Mix (number beds)	Number of properties	Mains Gas %	Electric %	£ savings pa	tCO2 Savings pa	Installed Cost	ROI (yrs)	£ Lifetime Savings (30yrs)	tCO2 Lifetime Savings (30yrs)
1 bed: 20.0%	20	85%	15%	£ 4,208.93	20.05	£ 400	19	£ 126,267.80	601.42
2 bed: 45.0%	450	85%	15%	£ 15,783.47	75.18	£ 400	11	£ 473,504.24	2,255.31
3 bed: 30.0%	300	85%	15%	£ 14,731.24	70.17	£ 400	8	£ 441,937.29	2,104.96
4 bed: 4.5%	45	85%	15%	£ 2,841.03	13.53	£ 400	6	£ 85,230.76	405.96
>4 bed: 0.5%	5	85%	15%	£ 210.45	1.00	£ 400	10	£ 6,313.39	30.07
TOTAL	1,000			£ 37,775.12	179.92	£ 400,000.00	10.58	£ 1,133,253.48	5,397.71

*Assumed 2x showers, with 1x retrofitted with Recoup Easyfit+ (as System B).

Annual calculations are based on 1.5 showers per day for 1st bedroom (Master bedroom) +1 shower per day for each additional bedroom. SAP standard default assumptions for shower time, flow rate and temperatures. Carbon Savings are calculated using Defra's 2017 carbon conversion factor of 0.184kg CO2 per kWh for mains gas and 0.447kg CO2 per kWh of electricity. Potential Savings are calculated using unit price of £0.0418 per kWh for mains gas and a energy rate of £0.0759 per kWh for electricity (including reduced night-time rate).

RECOUP EASYFIT+ RETROFIT | HOUSING UPGRADES | APARTMENTS | MEES

NEW PRODUCT FOR 2018

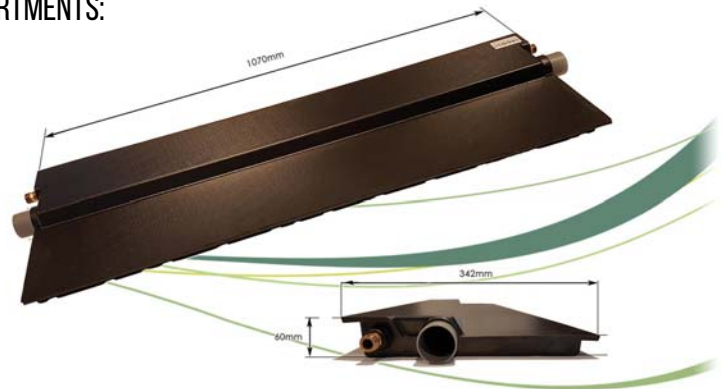
"We have found WWHRs to be a very affordable and efficient means of achieving compliance with this regulation due to its low cost, ease of installation and high efficiency. In SAP 2012, WWHRs such as Recoup's Pipe+ HE, can achieve a carbon reduction of up to 11% for a typical 3 Bed dwelling, which is significant; especially as WWHRs has the added benefit of being a passive system, requiring no day-to-day interaction from the home owner and requires no planned maintenance."

Andrew Money, Director, Carbon Futures



WHY THE EASYFIT+ IS IDEAL FOR RETROFIT & NEW- BUILD APARTMENTS:

- The highest efficiency under-bath WWHRs available: Up to 47% heat recovery
- Low cost per unit - around £400 installed price
- Quick installation (only 1-2 hours) and no specialised training or tools required
- Low profile - only requires 85mm clearance
- An average SAP score of 4-7%: Increased EPC
- No planned maintenance - 'Fit & Forget'



RECOUP PIPE+ HE NEW BUILD HOUSES | HOTELS | STUDENT ACCOMODATION

CASE STUDY: BARRATT DEVELOPMENTS- WWHRs: 2013 STANDARD SPECIFICATION

"The Recoup Pipe+HE system is an innovative product that represents a cost-effective way to achieve both SAP and real-time improvements. The system benefits from being a 'fit and forget' technology that results in tangible savings in both carbon and energy for our customers, without the need for significant levels of occupant education."

Danielle Michalska-Morris, Group Sustainability & Innovation Manager, Barratt Developments plc



WHY BARRATT DEVELOPMENTS INCLUDE WWHRs ON THEIR 2013 STANDARD SPECIFICATION:

- An average SAP score of 6-9%
- High efficiency of up to 67%
- Very low unit costs
- Quick & simple installation as part of first fix
- Easy to design into all house types
- No planned maintenance - 'Fit & Forget'
- Supply-chain aligned with national merchants



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