Warmfloor
THE TOTAL RADIANT HEATING SOLUTION
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WARMFLOOR ENERGY RECOVERY UNIT (HEAT PUMP)

With the energy demands of today, energy costs continue to increase. Wasted and excess use of energy has become a concern for businesses and households and the need to save world energy resources is conveyed to us every day. There is an awareness to be responsible and to plan for the best economical energy source.

How It Works

The Energy Recovery Unit (HP) water heaters save energy by transferring heat from the surrounding air to the water heater tank. They can be installed to draw heat from indoor air or from outdoor air. Even when the outside air temperature is as low as -15° C, a heat pump water heater can usually extract enough energy to meet most of your water heating needs. It uses the same principle as refrigerators and air conditioners. The difference is that they are used to remove unwanted heat, while the energy recovery heat pump water heater captures heat and puts it to work.

Advantages

- High efficiency, quick recovery speed, hence energy savings
- Compact and easy installation
- Low noise, efficient compressor, excellent heating capacity
- Auto defrosting, providing mass hot water production even in cold season
- Environment friendly, no waste heat, gas or residue (R410 refrigerant)

Technical Specifications

Model	JKR-45W	JKR-65W	JKR-85
Heating Capacity (W)	5000	7000	10000
Rated Input (W)	1250	1750	2500
Rated Current (A)	5.68	7.95	
Power supply	220V/～/50Hz	220V/～/50Hz	220V/
C.O.P	4.0	4.0	4.0
Hot water supply（L/h）	120	160	240
Max water temp（℃）	55～65		
Refrigerant	R410A		
Working condition（℃）	-10～43		
Noise（dB）	≤55	≤58	≤61
Size (L×W×H)（mm）	740×340×1020	740×340×1020	740x340x1020

WARMFLOOR ENERGY RECOVERY UNIT

The Warmfloor energy recovery unit is located outside your house. A silent-running fan draws in the outside air, and this heat is transferred to the recovery unit refrigeration circuit. The energy recovery unit converts this into hot water, which heats your house and domestic hot water.

There is no need for excavations. Just install the Warmfloor energy recovery unit and you start saving money that day. The Warmfloor energy recovery unit can be connected to your existing heating system and provides both heat and hot water. It can also replace your existing boiler and, with an immersion heat and hot water cylinder, provide you with economical, reliable heat for the future.

Inside energy recovery unit - The Warmfloor energy recovery units can be installed in an attic space to recover lost energy and at the same time pick up the solar gain from the outside sun.

Warmfloor energy recovery unit applications - The Warmfloor energy recovery unit can be used for domestic hot water production, underfloor heating, radiator heating, spa and pool heating.
These units are approx 350% on average more efficient to run than conventional energy sources.

Domestic hot water can cost from 34 cents per day (2007)

Underfloor heating can cost from $2.00 per day (2007)

RUNNING COSTS – Energy Recovery Unit

JKR45

The JKR 45 will heat 120 litres of water to 65° in one hour. This is 2880 litres per day and is suitable for most applications. Commercial or domestic.
A 180 litre takes 1.5 hours and costs 30 cents in the South Island or 33.75 cents in the North Island. A 300 litre takes 2.5 hours and costs 40 cents in the South Island or 56.25 cents in the North Island.
The above heat can also heat an area of 50 to 60 square metres of floor space using our special cylinders with an in built coil. If underfloor heating is used for 10 hours per day this equates to $2.00 per day or $60.00 per month South Island and $2.25 per day or $67.50 per month for the North Island, based on a 180 litre cylinder. If you consider that the average family spends 70% of there conscious time in the dining room/ kitchen and family areas this is a good option for them. An electrical system would cost 3 times the figures stated above.

JKR65

The JKR 45 will heat 160 litres to 65° in one hour. This is 3840 litres per day.
A 180 litre takes 1.125 hours and costs 31.5 cents in the South Island or 35.4 cents in the North Island. A 300 litre takes 1.975 hours and costs 55.3 cents in the South Island or 62.2 cents in the North Island.
The above can also heat 80 to 90 square metres of floor space using our special cylinders with an in-built coil. If underfloor heating is used for 10 hours per day this equates to $2.80 per day or $84.00 per month for the South Island or $3.15 per day or $94.50 per month for the North Island. (180 litre)

JKR85

The JKR 85 will heat 240 litres to 65° in one hour. This is 5760 litres per day and is suitable for any application wanting a lot of domestic hot water. A 300 litre tank takes 1.25 hours and costs 50 cents in the South Island or 56.25 cents in the north island. It can also heat 110 to 120 square metres of floor spacing using our special 300 litre cylinder with an in built coil. If underfoor heating is used for 10 hours per day this equates to $4.00 per day or $120.00 per month.
Note: The above figures are based on 16 cents per kilowatt in the South Island and 18 cents per kilowatt in the North Island. Please note the above figures related to prices in May 2007

Disclaimer: The information contained above is intended to provide general information in summary form current at the time of printing. We do not accept liability of any kind whatsoever as a result of placing reliance on the information.