

KERS INDOOR HEAT PUMP MEV

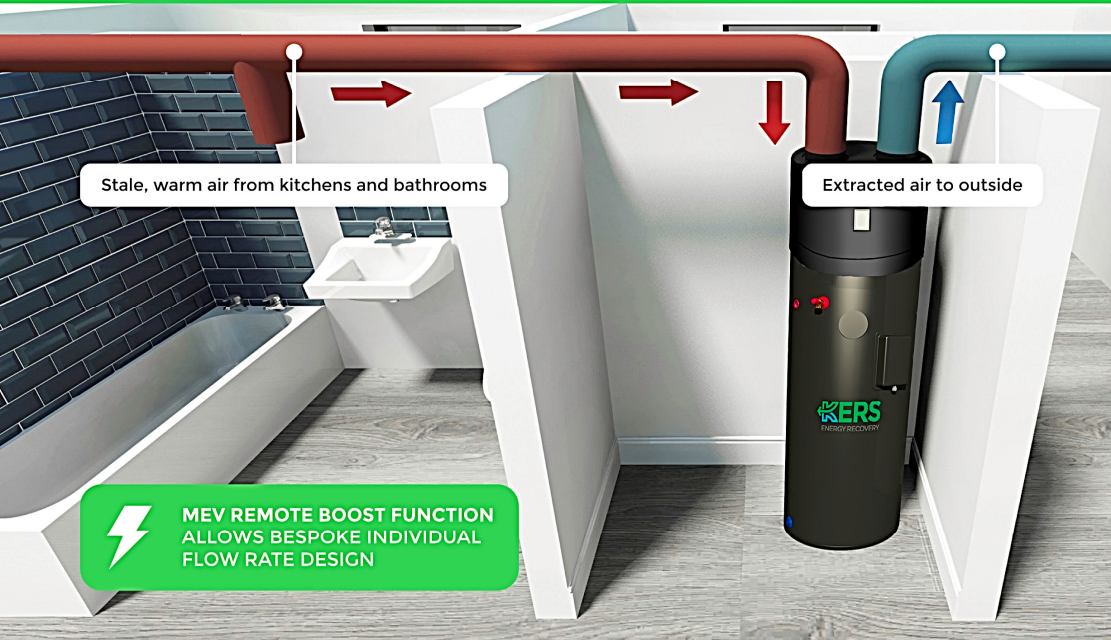
**Hot Water - Heat Recovery
Mechanical Extract Ventilation**

The eco-friendly KERS MEV indoor heat pump is a combined hot water, heat recovery and MEV system with storage cylinder. It converts waste heat energy from bathrooms and kitchens to low cost, renewable hot water.



The all-in-one design replaces mechanical ventilation and heat recovery system with only one penetration through the building.

Unlike conventional Mechanical Ventilation Heat Recovery (MVHR) systems that claim to be up to 80% efficient, the KERS MVHR-W recovers all of the waste energy and using heat pump technology achieving 331% efficiency as recorded in SAP.



BENEFITS

- Provides both hot water and ventilation
- High efficiency – for every 1kw input up to 4.5kw output
- Heaterless design – achieves 65°C without the need for immersion
- Removes condensation and humidity
- No external condenser
- Compact design to reduce space loss
- Easily serviceable with bespoke design, no requirements for removal of ductwork
- Weekly legionella program



FEATURES

- › Low energy only 462W
- › High output 2010W
- › Available in 160, 230 and 300L
- › High efficiency ECQ fan motor
- › High efficiency rotary compressor
- › Super quiet running
- › Helps achieve compliance of building regs part L & F
- › User friendly controls, anti legionella, holiday and weekly timer functions
- › Optional PV & solar coil

APPLICATIONS

- › Residential
- › Commercial
- › Apartments

USES

- › Hot water
- › Ventilation

HEATERLESS DESIGN: WHY IS IT A BIG DEAL?

Most heat pumps rely on an electric immersion heater to achieve the higher water temperatures. Our heaterless design produces hot water temperatures of up to 65°C solely using heat pump technology, resulting in greater energy savings.

CONSTANT AVAILABILITY

We use a large-surface internal condenser that heats water up faster due to its larger heat transfer surface. This can optionally be augmented with an electric heater upgrade in extreme cases such as commercial gym showers with non-stop peak flow.

GUARANTEED YEAR-ROUND EFFICIENCY 24/7

External heat pumps are less efficient as the outside temperature drops. Our KERS indoor heat pump recycles a constant 20c of waste energy from within your building and converts this to low-cost renewable hot water.

INCREDIBLE EFFICIENCY AND SAVINGS

For every 1KW of energy consumed, our KERS system can produce up to 4.5KW of thermal energy.

GUARANTEED TO LAST – 5 YEAR WARRANTY

Our 5 year parts and labour warranty ensures that with a quick yearly checkup, you are guaranteed peace of mind.

TRADITIONAL HEAT PUMPS

1. Reliant on the weather; the colder the temperature the less efficient they are.
2. Only operates to 55°C with immersion top up.
3. Uses immersions.
4. Complicated and expensive installation.
5. No MEV functionality.
6. External condensing unit can create planning issues.

KERS INDOOR HEAT PUMP

1. Recycles waste heat, constant 20°C improves COP.
2. High temperature water output 65°C.
3. Heaterless design requires no immersions.
4. Simple installation. Just plug in and connect to the cylinder.
5. MEV function options
6. No external condenser means no planning issues.

* Approved by the Building Research Establishment, TUV and SAP registered. Compliant with part L & F of building regulations.

KERS MEV - W300



SPECIFICATIONS

*** 5 YEAR WARRANTY SUBJECT TO ANNUAL SERVICE AGREEMENT ***

Model	KERS MEV - W160	KERS MEV - W230	KERS MEV - W300
Below calculations based on 55°C according to EN16147			
Tank Volume (Litres)	160	230	300
Heating Capacity (W)	2010	2010	2010
Max Power Input	460	460	460
COP (EN255/3)	4,5	4,5	4,5
COP (EN16147)	3.5	3.5	3.5
Electrical Connection	230v/50Hz/1Ph	230v/50Hz/1Ph	230v/50Hz/1Ph
Amp	10	10	10
Working Pressure	8 Bar	8 Bar	8 Bar
Max Water Temp (Without Immersion)	70°C	70°C	70°C
Refrigerant	R134A	R134A	R134A
Electrical Heater Optional (W)	3000	3000	3000
Duct Diameter (mm)	180 Reduced to 125/204/60mm	180 Reduced to 125/204/60mm	180 Reduced to 125/204/60mm
Pressure (Pa)	See Fan Spec	See Fan Spec	See Fan Spec
MEV sfp (w/l/s)	0.5	0.5	0.5
MEV Flow Rate	to Part F	to Part F	to Part F
Corrosion Protection	Vacuum Enameled	Vacuum Enameled	Vacuum Enameled
Weight (kg)	105	120	130
Dimensions (mm) H x W x D	1494 x 668 x 668	1638 x 668 x 668	1888 x 668 x 668
Noise Level (2m) dB(A)	41	41	41