



EKBH



EKHW

HOT WATER MODULE

For VRV® Heat Recovery

Ideally positioned for the Commercial office sector Daikin UK now offers an energy efficient domestic hot water and heating solution for w.c. facilities, kitchens and staff break out areas.

Hot Water Module

The VRV hot water module operates with the VRV heat recovery system to provide an energy efficient means of producing hot water from recovered or recycled heat.

To date, the primary operation of the VRV heat recovery system has been to extract heat from areas being cooled and re-distribute to parts of the building with a heating requirement, often as a result of building orientation and diversity. However, if more heat is extracted than can be effectively re-used this surplus heat is generally dissipated to the atmosphere at the VRV outdoor unit and subsequently the recovered energy is wasted and the system is not operating at its peak efficiency.

Using the surplus heat

By using the hot water module with VRV heat recovery the surplus heat can be effectively used as renewable heat for the generation and storage of domestic hot water as well as for heating, via under floor circuits, fan coil units, and low temperature radiators. In combination the hot water module and the VRV heat recovery system means that less energy is wasted and the overall system efficiency is greatly improved, reducing running costs and reducing carbon emissions.

Controls

Hot water controls and user interface are located within the module and enable control of hot water and/or heating according to user requirements and to maximize re-use of recovered heat from other parts of the building during and outside or normal operational hours.

INDOOR UNIT (HYDRO BOX)			UK.EKHBH80AA/VRV		UK.EKHBH140AB/VRV	
Function			Heating only & Optional Hot water			
Heating Capacity	kW		8		16	
Capacity Index Limit			80		140	
Dimensions	HxWxD	mm	922x502x361			
Leaving Water	heating	°C	35-50			
Drain valve			Yes			
Material			Epoxy polyester painted galvanized steel			
Colour			RAL 9010 (neutral white)			
Factory Mounted Electric Heater (*note 1)			3kW 1 step			
Hydrobox Control Power Supply (*note 1)			230V Single Phase (5A)			
Back Up Heater Power Supply (*note 1)			230V Single Phase (20A) - Only Required for Heating operation			
Tank Booster Heater Power Supply			230V Single Phase (20A) - Only Required with Hot Water Option			
Mandatory Accessory			EKEXV80		EKEXV140	

DOMESTIC HOT WATER TANK			EKHWS150B3V3	EKHWS200B3V3	EKHWS300B3V3	EKHWSU150B3V3	EKHWSU200B3V3	EKHWSU300B3V3
Suitable for			Open Vent Systems			Unvented Systems (EKUHWB Kit also required - see below)		
Water Volume	l		150	200	300	150	200	300
Max Water Temperature	°C		85					
Booster Heater Capacity	kW		3					
Power Supply	ph/V/Hz		1/230/50					
Height	mm		900	1150	1600	1015	1265	1715
Diameter	mm		580					
Empty Weight	kg		37	45	59	38	46	60
Colour			Neutral White					
Material Inside Tank			Stainless Steel (DIN 1.452 1)					
Material Outside Casing			Epoxy-Coated Mild Steel					
Piping Connections (Diameter)	Water inlet H/E	inch	3/4"					
	Water outlet H/E	inch	3/4"					
	Cold Water in	inch	3/4"					
	Hot water out	inch	3/4"					

ACCESSORY KIT FOR UNVENTED SYSTEMS		Domestic Hot Water Tank EKHWSU-B3V3
EKUHWB	Includes: Combined Pressure Reducing Valve, Non Return Valve, Strainer, Expansion Relief Valve, Expansion Vessel, Tundish	•

*note 1 - Use Power Supply from same phase for Hydrobox Control Power, Back Up Heater and Tank Booster Heater