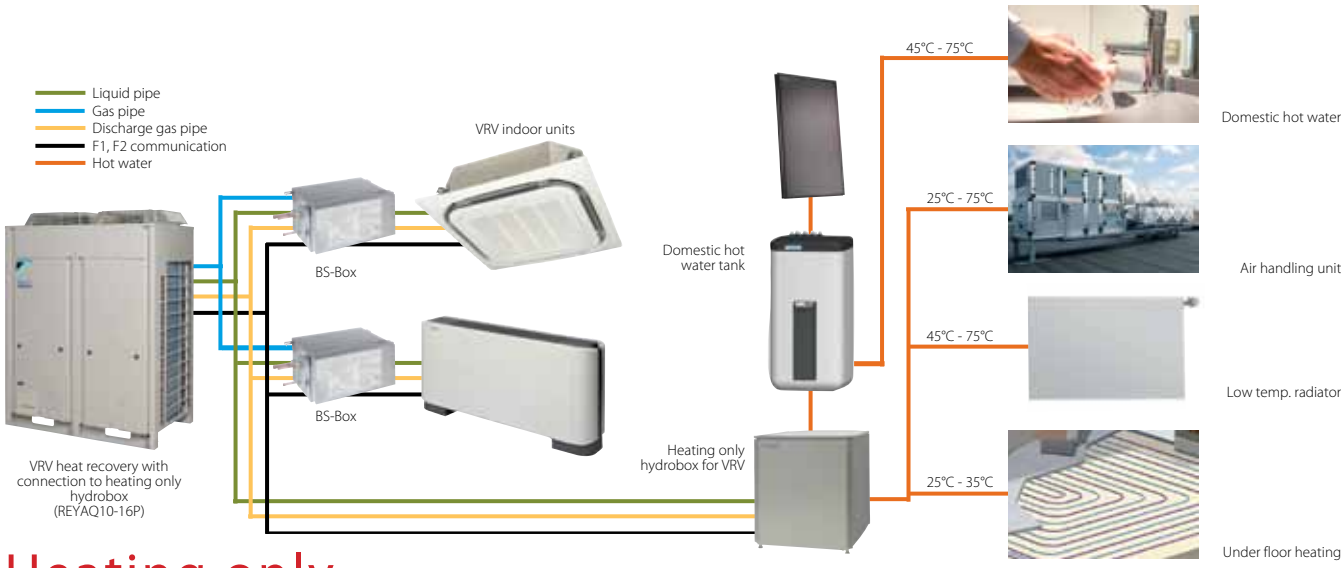
HXHD-A EKHTS-AC EKHWP-B

- Air to water connection to VRV for applications such as bathrooms, sinks, underfloor heating, radiators and air handling units
- Free heating provided by transferring heat from areas requiring cooling to areas requiring heating or hot water
- Uses heat pump technology to produce hot water efficiently, providing up to 17% savings compared to a gas boiler
- Possibility to connect thermal solar collectors to the domestic hot water tank
- Leaving water temperature range from 25 to 80°C without electric heater
- Super wide operating range for hot water production from -20 to +43°C ambient outdoor temperature
- No need to design the water side: all water-side components are integrated, moreover no mixing valve is required thanks to direct leaving water temperature control
- Various control possibilities with weather dependant set point or thermostat control
- The indoor unit and domestic hot water tank can be stacked to save space, or installed next to each other, if only limited height is available
- No gas connection needed
- Connectable to VRVIII heat recovery (REYAQ)



Heating only

INDOOR UNIT					HXHD125A
Heating capacity	Nom.			kW	14.0
Casing	Colour				Metallic grey
	Material				Precoated sheet metal
Dimensions	Unit	HeightxWidthxDepth		mm	705x600x695
Weight	Unit			kg	92
Sound pressure level	Nom.			dBA	42 (1) / 43 (2)
	Night quiet mode	Level 1		dBA	38 (1)
Operation range	Heating	Ambient	Min.~Max.	°C	-20~20 / 24 (3)
		Water side	Min.~Max.	°C	25~80
	Domestic hot water	Ambient	Min.~Max.	°CDB	-20~43
		Water side	Min.~Max.	°C	45~75
Refrigerant	Type				R-134a
Refrigerant circuit	Gas side diameter			mm	12.7
	Liquid side diameter			mm	9.52
Water circuit	Piping connections diameter			inch	G 1" (female)
	Heating water system	Water volume	Min.~Max.	l	20~200
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240
Current	Recommended fuses			A	20

(1) Sound levels are measured at: EW 55°C; LW 65°C (2) Sound levels are measured at: EW 70°C; LW 80°C (3) Field setting

DOMESTIC HOT WATER TANK: OVERVIEW

Functions	1/ EKHTS-A	2/ EKHWP-B
Preferred application	Domestic hot water only	Domestic hot water – possibility for solar connection
Operation	The water stored in the tank is used for domestic hot water	Domestic hot water is not stored in the tank but flows through the tank's coil

1/ EKHTS – DOMESTIC HOT WATER ONLY

- Available in 200 and 260 litres
- Efficient temperature heat-up: from 10°C to 50°C in only 60 minutes
- Stainless steel domestic hot water tank

INDOOR UNIT				EKHTS200AC	EKHTS260AC
Casing	Colour			Metallic grey	
	Material			Galvanised steel (precoated sheet metal)	
Dimensions	Unit	Height(Integrated on indoor unit)xWidthxDepth	mm	2,010x600x695	2,285x600x695
Weight	Unit	Empty	kg	70	78
Tank	Water volume		l	200	260
	Material			Stainless steel (EN 1.4521)	
	Maximum water temperature		°C	75	
Heat exchanger	Quantity			1	
	Tube material			Duplex steel (EN 1.4162)	
	Face area		m^2	1.56	
	Internal coil volume		l	7.5	

2/ EKHWP-B – DOMESTIC HOT WATER WITH POSSIBILITY FOR SOLAR CONNECTION

Solar connection

› Environmentally friendly and energy efficient
› Solar panels can produce up to 70% of the energy needed for hot water production – a major cost saving
› Specialised coatings make our solar panels highly energy efficient – all shortwave solar energy is transferred into heat
› The solar panels are charged with water only when needed for heating – avoiding the need for 'anti-freeze' protection

SOLAR COLLECTOR				EKSH26P	EKSV26P
Dimensions	Unit	HeightxWidthxDepth	mm	1,300x2,000x85	2,000x1,300x85
Weight	Unit		kg	43	
Volume			l	2.1	1.7
Surface	Outer		m^2	2.601	
	Aperture		m^2	2.364	
	Absorber		m^2	2.354	
Coating				Micro-therm (absorption max.96%, Emission ca. 5% +/-2%)	
Absorber				Harp-shaped copper pipe register with laser-welded highly selective coated aluminium plate	
Glazing				Single pane safety glass, transmission +/- 92%	
Allowed roof angle	Min.~Max.		°	15~80	
Operating pressure	Max.		bar	6	
Stand still temperature	Max.		°C	200	
Thermal performance	Zero loss collector efficiency η0		%	78.7	
	Heat loss coefficient a1		$W/m^2.K$	4.270	
	Temperature dependence of the heat loss coefficient a2		$W/m^2.K^2$	0.0070	
	Thermal capacity		kJ/K	6.5	
	Incident angle modifier	AM at 50°		0.94	
Installed position				Vertical	Horizontal

Domestic hot water tank

› Available in 300 and 500 litres
› (Pre-)heat the water for your heating system with solar energy

DOMESTIC HOT WATER TANK				EKHWP300B	EKHWP500A
Casing	Colour			White (RAL9016) & Grey (RAL7011)	
	Material			Polypropylene	
Dimensions	Unit	HeightxWidthxDepth	mm	59,5 x 61,5 x 164	79 x 79 x 164
Weight	Unit	Empty	kg	59	93
Tank	Water volume		l	300	500
	Maximum water temperature		°C	85	85
Heat exchanger	Domestic hot water	Tube material		stainless steel	
		Face area	m^2	5,8	6
		Internal coil volume	l	27,9	29
		Operating pressure	bar	6	
		Average specifc thermal output	W/K	2790	2900
	Charging	Tube material		stainless steel	
		Face area	m^2	2,7	3,8
		Internal coil volume	l	13,2	18,5
		Average specifc thermal output	W/K	1300	1800
	Auxiliary solar heating	Tube material		stainless steel	
		Face area	m^2	-	0,46
		Internal coil volume	l	-	2,3
		Average specifc thermal output	W/K	-	280

Pump station

› The pump station ensures that the correct water pressure and flow rates are maintained for optimum efficiency

PUMP STATION				EKSRPS3
Mounting				On side of tank
Dimensions	Unit	HeightxWidthxDepth	mm	815x230x142
Thermal performance	Zero loss collector efficiency η0		%	-
Control	Type			Digital temperature difference controller with plain text display
	Power consumption		W	2
Sensor	Solar panel temperature sensor			Pt1000
	Storage tank sensor			PTC
	Return flow sensor			PTC
	Feed temperature and flow sensor			Voltage signal (3.5V DC)
Power supply	Voltage		V	230