

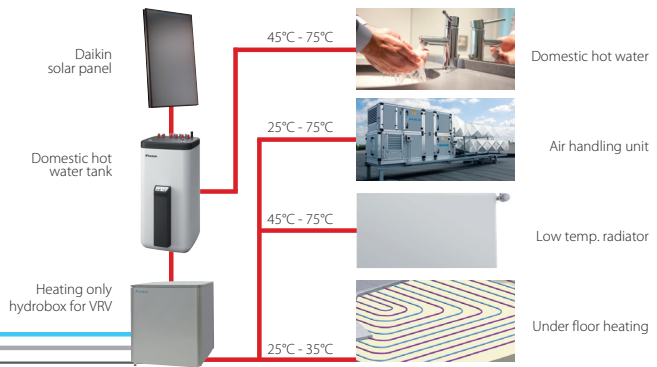
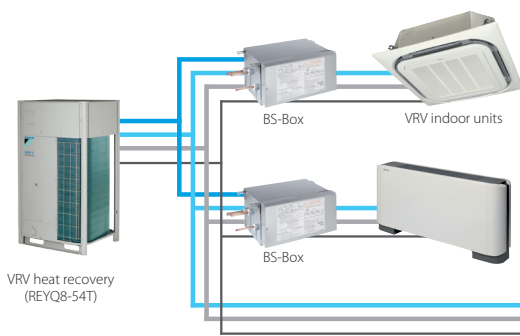
High temperature hydrobox for VRV

For efficient hot water production and space heating

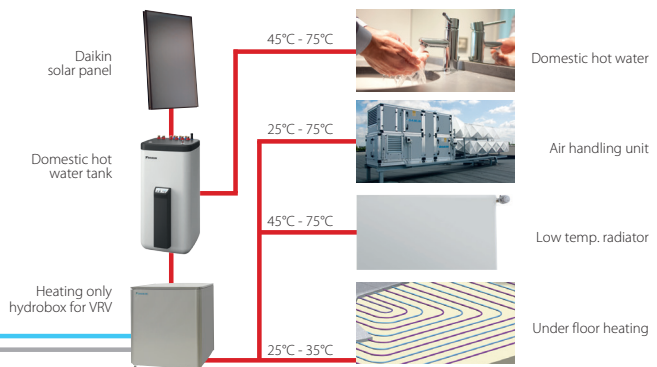
- › Air to water connection to VRV for applications such as bathrooms, sinks, underfloor heating, radiators and air handling units
- › Leaving water temperature range from 25 to 80°C without electric heater
- › „Free“ heating and hot water production provided by transferring heat from areas requiring 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
- › Super wide operating range for hot water production from -20 to +43°C ambient outdoor temperature
- › Saves time on system design as all water-side components are fully integrated with direct control over leaving water temperature
- › 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 or oil tank needed
- › Connectable to VRV IV heat recovery



- Liquid pipe
- Gas pipe
- Discharge gas pipe
- F1, F2 communication
- Hot water



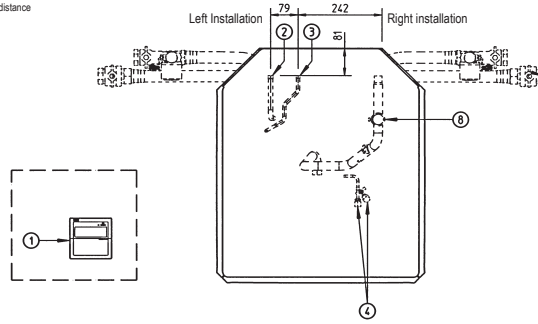
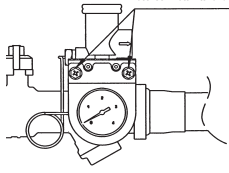
Indoor unit		HXHD		125A8		
Heating capacity	Nom.			kW		
				14.0		
Dimensions	Unit	HeightxWidthxDepth		mm		
				705x600x695		
Weight	Unit			kg		
				92		
Casing	Colour			Metallic grey		
	Material			Precoated sheet metal		
Sound pressure level	Nom.			dBA		
	Night quiet mode	Level 1		dBA		
Operation range	Heating	Ambient	Min.~Max.	°C		
		Water side	Min.~Max.	°C		
	Domestic hot water	Ambient	Min.~Max.	°CDB		
		Water side	Min.~Max.	°C		
Refrigerant	Type / GWP			R-134a / 1.430		
Refrigerant circuit	Gas side diameter			mm		
	Liquid side diameter			mm		
Water circuit	Piping connections diameter				inch	
	Heating water system	Water volume	Max.~Min.	l		
Power supply	Phase/Frequency/Voltage			Hz/V		
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 (4) Contains fluorinated greenhouse gases

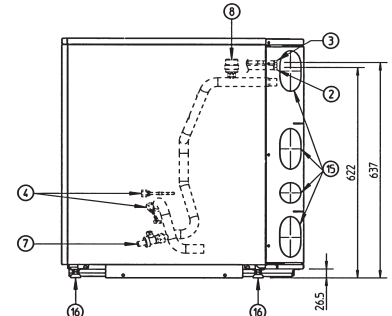
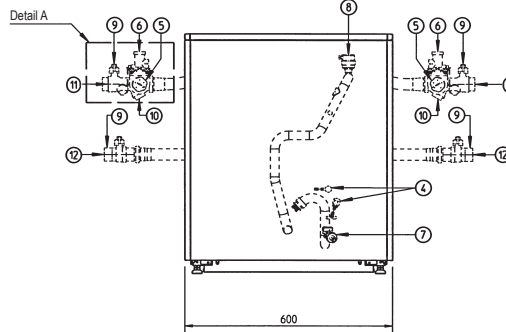
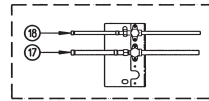
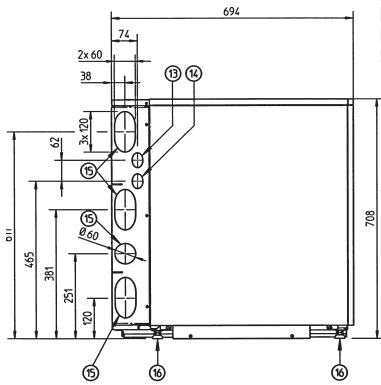
HXHD-A8

Detail A
Scale 1/3

If required (e.g. Wall fixation)
Pressure gauge can be removed from waterfilter, maximum distance
between waterfilter and pressure gauge ± 600 mm

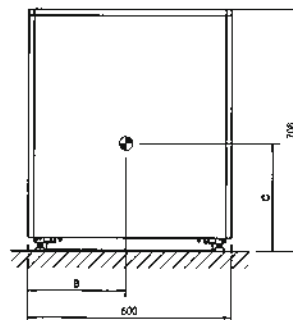
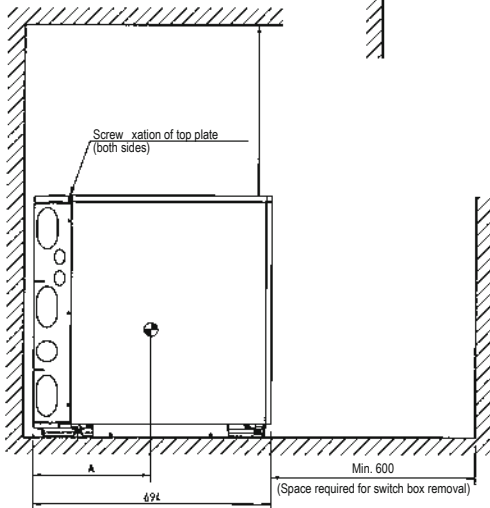
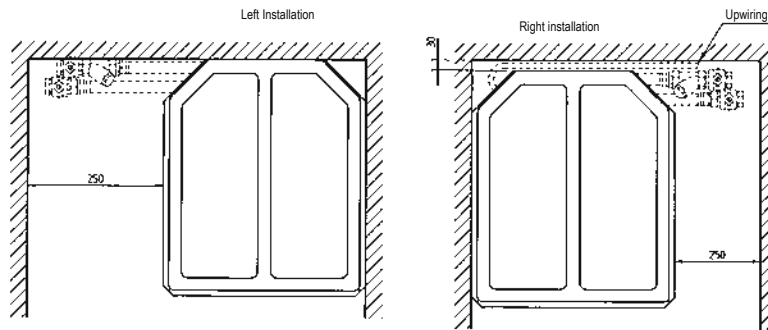


1	Remote control (delivered as accessory) Installation location is outside the unit
2	Discharge pipe connection $\phi 12.7$ solder (R410a)
3	Liquid pipe connection $\phi 9.5$ solder (R410a)
4	R134a Service ports 5/16" flare (2x)
5	Pressure gauge
6	Blow off valve
7	Drain valve water circuit
8	Air purge
9	Shut-off valves (2x)
10	Water filter
11	Water in connection G 1" (female)
12	Water out connection G 1" (female)
13	Control wiring intake (knock-out hole $\phi 37$)
14	Power supply wiring intake (knock-out hole $\phi 37$)
15	Knock-out holes for refrigerant piping and water piping
16	Levelling feet
17	Discharge stop valve $\phi 12.7$ solder (R410a)
18	Liquid stop valve $\phi 9.5$ solder (R410a)



3TW59914-1B(1)

HXHD-A8

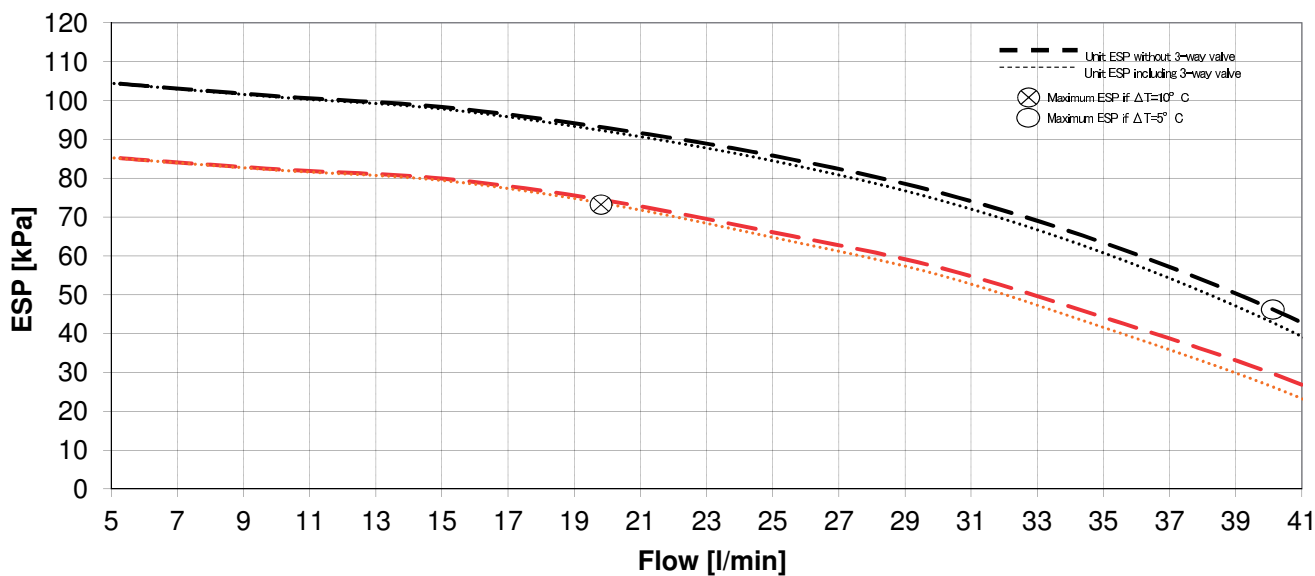


Model	A	B	C
HXHD-A8	355	270	300

Min. 600
(Space required for switch box removal)

3TW59914-1B(2)

HXHD-A



Notes

- The ESP curves are the maximum ESP curves for different ΔT types (pump rpm=4200 for $\Delta T=5^\circ\text{C}$; pump rpm=3800 for $\Delta T=10^\circ\text{C}$). The pump of the indoor unit is inverter-controlled and functions to have a fixed ΔT between the return water temperature and the leaving water temperature.
- In case of installing a domestic hot water tank, there is an additional pressure drop over the 3-way valve (delivered as an accessory with the tank).

ESP: External Static Pressure

Flow: water flow through the unit

Warning

- Selecting a flow outside the operating area can damage the unit or cause the unit to malfunction. See also the minimum and maximum allowed water flow range in the technical specifications.
- Water quality must be according to EU directive 98/83 EC.

3D097621

Domestic hot water tank

Stackable stainless steel domestic hot water tank

- › 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
- › Available in 200 and 260 liters
- › Heat loss is reduced to a minimum thanks to the high quality insulation
- › At necessary intervals, the indoor unit can heat up the water to 60°C to prevent the risk of bacteria growth
- › Efficient temperature heat-up: from 10°C to 50°C in only 60 minutes



Accessory		EKHTS			200AC		260AC	
Casing	Colour	Metallic grey						
	Material	Galvanised steel (precoated sheet metal)						
Dimensions	Unit	Height	Integrated on indoor unit	mm	2,010		2,285	
		Width						
	Depth	695						
Weight	Unit	Empty	kg		70		78	
	Tank	Water volume	l		200		260	
Heat exchanger	Material	Stainless steel (EN 1.4521)						
	Maximum water temperature	°C						
	Insulation	Heat loss	kWh/24h		1.2		1.5	
	Quantity	1						
Heat exchanger	Tube material	Duplex steel (EN 1.4162)						
	Face area	m²						
	Internal coil volume	l						
		7.5						

EKHWP-B/PB

Domestic hot water tank

Plastic domestic hot water tank with solar support

- › Available in 300 and 500 liters
- › Large hot water storage tank to provide domestic hot water at any time
- › Heat loss is reduced to a minimum thanks to the high quality insulation
- › Space heating support possible (500l tank only)
- › Tank designed for connection with pressured thermal solar system



Accessory		EKHWP		Pressured		Unpressured		
				300PB	500PB	300B	500B	
Dimensions	Unit	Width	mm	595	790	595	790	
		Depth	mm	615	790	615	790	
Weight	Unit	Empty	kg	58	89	59	93	
	Tank	Water volume	l	294	477	300	500	
Heat exchanger	Maximum water temperature	°C						
	Insulation	Heat loss	kWh/24h	1.5	1.7	1.3	1.4	
	Domestic hot water	Tube material	Stainless steel (DIN 1.4404)				Stainless steel	
		Face area	m²	5.600	5.800	5.8	6	
Charging		Internal coil volume	l	27.1	29.0	27.9	29	
		Operating pressure	bar	6		6		
		Average specific thermal output	W/K	2,790	2,825	2,790	2,900	
		Tube material	Stainless steel (DIN 1.4404)				Stainless steel	
Auxiliary solar heating		Face area	m²	3	4	2.7	3.8	
		Internal coil volume	l	13	19	13.2	18.5	
		Operating pressure	bar	3				
		Average specific thermal output	W/K	1,300	1,800	1,300	1,800	
Auxiliary solar heating		Tube material	Stainless steel (DIN 1.4404)				Stainless steel	
		Face area	m²	-	1	-	0.5	
		Internal coil volume	l	-	2	-	2.3	
		Operating pressure	bar	-	-	3	-	
	Average specific thermal output	W/K	-	280	-	280		

Pump station

- › Save energy and reduce CO₂ emissions with a solar system for domestic hot water production
- › Pump station connectable to unpressurised solar system
- › Pump station and control provide the transfer of solar heat to the domestic hot water tank



Pump station for pressureless tank				EKSRPS4A
Dimensions	Unit	HeightxWidthxDepth	mm	815x142x230
Weight	Unit		kg	6
Power supply	Phase			1~
	Frequency		Hz	50
	Voltage		V	230

EKS(V/H)-P

Solar collector

Thermal solar collector for hot water production

- › Solar collectors can produce up to 70% of the energy needed for hot water production - a major cost saving
- › Vertical and horizontal solar collectors for domestic hot water production
- › High efficiency collectors transfer all the short-wave solar radiation into heat as a result of their highly selective coating
- › Easy to install on roof tiles



Solar collector				EKS21P	EKS26P	EKSH26P
Mounting				Vertical		Horizontal
Dimensions	Unit	HeightxWidthxDepth	mm	1,006x85x2,000		2,000x85x1,300
Weight	Unit		kg	33		42
Volume			l	1.3	1.7	2.1
Surface	Outer		m ²	2.01		2.60
	Aperture		m ²	1.800		2.360
	Absorber		m ²	1.79		2.35
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	192		
Thermal performance	collector efficiency (η _{col})		%	61		
	Zero loss collector efficiency η ₀		%	0.781		0.784
	Heat loss coefficient a ₁		W/m ² .K	4.240		4.250
	Temperature dependence of the heat loss coefficient a ₂		W/m ² .K ²	0.006		0.007
	Thermal capacity			kJ/K	4.9	