DAIKIN
altherma

B&T Tsolakidis
Heating · E-shop

The natural choice

INSTALLER LEAFLET

DAIKIN ALTHERMA
LOW-TEMPERATURE
HEAT PUMP

Preliminary version

Best seasonal efficiencies,
providing the highest savings on running costs

- excellent COP ratings for incentive and certification schemes
- no need for or only very limited use of electrical assistance
- best efficiencies achieved within the most relevant temperature range

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4 benefits

Perfect fit
for new builds,
as well as for low-energy houses

- custom-made product for very low heat loads
- build to withstand most severe winter conditions
- heating, cooling and domestic hot water in one system

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Integrated indoor unit:

best solution for domestic hot water for installer & customer

- all components and connections factory-made
- very small installation footprint required
- minimum electrical input with constant availability of hot water

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New user interface:

high functionalities, easy to use

- self-explanatory controller for easy and quick commissioning
- possibility of preparing and uploading field setting via a PC
- feedback on operation conditions and energy consumption

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Best seasonal efficien

providing the highest savings

1. HIGH HEAT PUMP EFFICIENCIES AT ALL OUTDOOR AND WATER TEMPERATURES

Daikin Altherma low temperature uses a range of efficient compressors, limiting electrical compressor inputs to its maximum. This results in optimal efficiencies at several rated conditions, providing excellent ratings, complying with incentive and certification schemes (e.g. EPBD regulations) throughout Europe.

- each capacity class has an individually sized compressor to avoid over-dimensioning
- optimised efficiency at all outside and water temperatures, thanks to a pressure sensor and an individual dimensioned plate heat exchanger per capacity class

This means the end user only pays for the capacity he really needs to obtain the best energy efficiency.

2. HIGH HEATING CAPACITIES DOWN TO LOW OUTSIDE TEMPERATURE

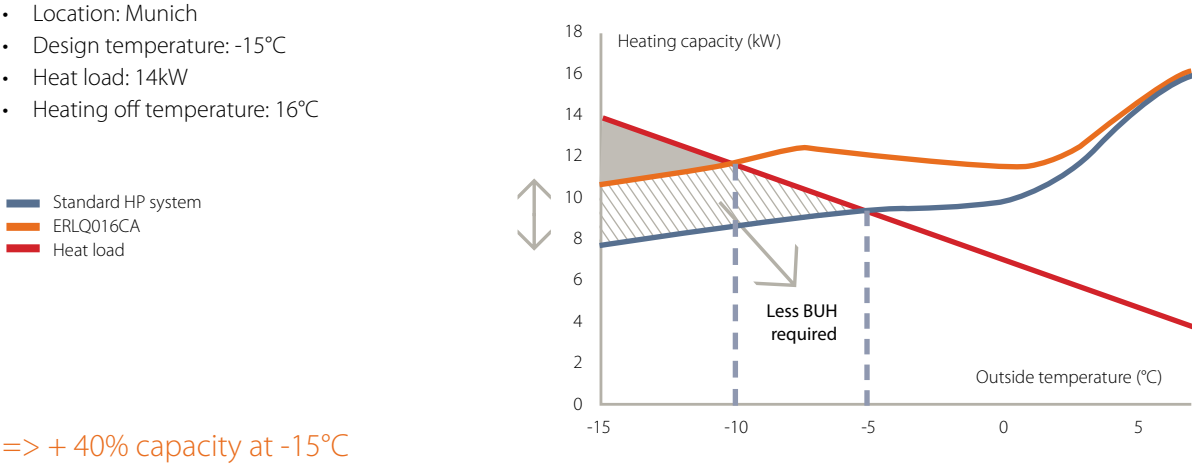
Daikin Altherma low temperature maintains its high heating capacities down to low outdoor temperatures. The electrical back-up heater assistance is no longer required or only very limited.

These high heating capacities, available on the whole Daikin Altherma low temperature 4kW-16kW range, are achieved thanks to the combination of:

- Optimised controls to achieve higher frequency of use at low outdoor temperatures
- Liquid injection to avoid too high discharge temperatures when high water temperatures are required at low outdoor temperatures
- Perfectly dimensioned plate heat exchangers to maximise the heat exchange surface

Comparison between standard air-to-water heat pump and new Daikin Altherma units (ERLQ-C range - 11-16 kW)

- Location: Munich
- Design temperature: -15°C
- Heat load: 14kW
- Heating off temperature: 16°C



=> + 40% capacity at -15°C

=> No need for back up heater from -10°C onwards (compared to -5°C for standard heat pump)

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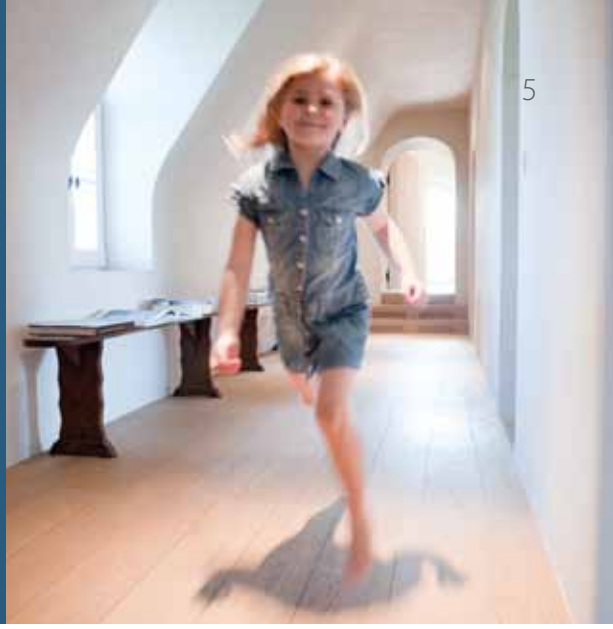
on running costs



3. DAIKIN INVERTER COMPRESSORS WITH HIGH MODULATING RANGE

When the heat load is lower than the maximum capacity of the heat pump system, the compressor can turn in partial load operation. This reduced compressor frequency results in:

- Higher compressor efficiency in partial load operation
- Delivered capacities exactly matching the actual heating demand of the building
- Obtaining the capacities needed with minimum energy consumption
- Less on/off operation, increasing the operation life cycle of the compressor

The new Daikin Altherma low temperature has a high modulating range, meaning the compressor can modulate down to low frequencies to offer the highest efficiencies over the relevant temperature range.

Each inverter compressor has a certain maximum and minimum frequency, and works in between the optimal operation area with the highest operating efficiencies.

4. SMART HEATING CONTROLS

The combined effect of the Daikin Altherma weather-dependent set-point control and the Daikin Altherma inverter compressors maximises the efficiency at each outdoor temperature, assuring stable room temperatures.

1 Weather-dependent set-point control. This control logic will always keep the water temperatures as low as possible, to maximise the heat pump efficiency for each specific outdoor temperature. This results in:

- Higher heat pump efficiency with lower water temperatures
- No unnecessary overheating, thereby delivering the temperatures required
- Continuous heating at lower water temperatures, providing stable room temperatures

2 Inverter technology: lowering the compressor frequency with increasing outdoor temperatures, thus increasing the efficiency

5. LIMITING ELECTRICAL INPUTS OF AUXILIARY COMPONENTS

In addition to limiting the electrical input of the compressor and the electrical back-up heater, Daikin limits electrical inputs of auxiliary components. This also contributes to the high seasonal efficiencies achieved by the Daikin Altherma range.

- Factory-mounted high efficiency circulating pump already qualifying for future regulations (ErP2015) with an A-energy label (EEI ≤ 0.23)
- No standby losses of inverter drive PCB, lowering electricity consumption during standby mode
- No bottom plate heater needed on 4-8kW class
- Low-capacity bottom plate heater on 11-16kW class (ERLQ-C series), only operating during defrost cycles, results in 90% less electricity consumption when compared with standard thermostatic controlled bottom plate heaters

=> Thanks to all these improvements, COP of up to 4.80* is reached

*preliminary data - EHVH04S18C3V with ERLQ004CV3 - EW30°C, LW35°C, ambient conditions: 10°CDB

Perfect fit for new

as well as for low energy hou

1. OPTIMISED UNIT FOR LOW HEAT LOADS

The new Daikin Altherma low temperature is designed to meet the requirements of newly built and low-energy houses characterised by low heat loads.

The low capacity 4kW unit with its high modulating range offers optimal efficiency in most relevant outdoor temperature ranges by combining compressors and plate heat exchangers that have been specificaly designed for smaller heat loads.

2. MAXIMUM COMFORT

Daikin Altherma low temperature: one system for optimal year-round comfort

- Optimal comfort conditions the whole year round, with both heating and cooling possible
- Stable room temperatures thanks to Daikin inverter compressors and weather dependent set point control
- Room thermostat function to even better match the set-point room temperature with the actual room temperature

3. ALL TYPES OF HEAT EMITTERS POSSIBLE

The Daikin Altherma low temperature has an operation range up to 55°C leaving water temperature, allowing for connection to all types of low-temperature heat emitters.

Under-floor heating 25°C → 35°C

Heat pump convector 35°C → 45°C

The Daikin heat pump convector is specifically designed to offer optimal efficiencies and comfort for residential applications.

- Small dimensions compared to low-temperature radiators
- Low sound level, optimal for bedroom applications
- High-capacity cooling with water temperatures down to 6° C

Low temperature radiators 40°C → 55°C

builds,
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4. DAIKIN ALTHERMA IS SUITABLE FOR ALL CLIMATES, EVEN WITHSTANDING SEVERE WINTER CONDITIONS

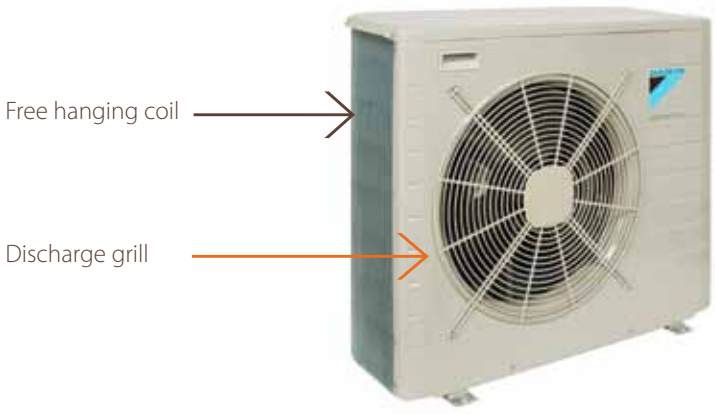
Daikin is renowned for its know-how related to frost protection on its heat pump range. Even in the most severe winter conditions.

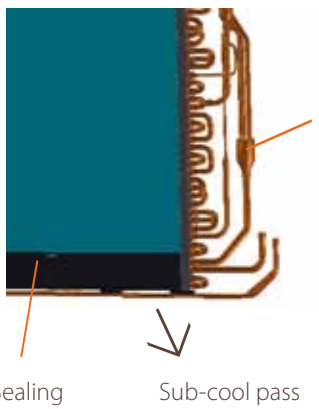
1. The 4-8kW range outdoor unit

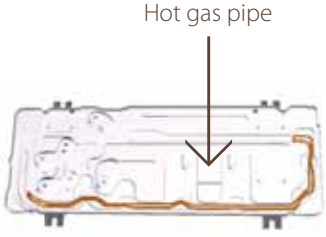
- The outdoor unit has a free hanging coil,ensuring no ice accumulates in the lower part of the outdoor unit. This is key to offering appropriate frost protection and has the additional advantage that no electrical bottom plate heater is required
- The discharge grill is also specifically designed to avoid ice accumulation

2. The 11-16kW range outdoor unit

- Hot gas pass: hot gaseous refrigerant coming fromthe compressor runs through the bottom plate to keep the base free of ice and all the drain holesopen
- Sub-cool pass: before the refrigerant pipe is split by the distributor to the hairpins, the refrigerant passes through the bottom of the coil to keep this lower part free of ice







Integrated indoor best solution for domestic hot water

1. EASIEST AND FASTEST INSTALLATION, DOMESTIC HOT WATER TANK INCLUDED

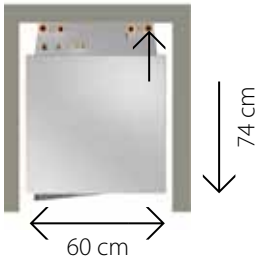
- Fast installation: the stainless steel domestic hot water tank is included in the unit, with all connections between heat pump module and tank factory made.
- All hydraulic components are included
- Easy serviceability and maintenance: the electric PCB board and hydraulic components are accessible from the front.
- Lower installation footprint: all water and refrigerant connections are at the top of the unit, assuring easy connection and accessibility.

Components are accessible from the front

2. COMPACT INDOOR UNIT WITH SLEEK DESIGN

Thanks to the all-in-one design, the installation space is minimised both in terms of footprint and height

1. As the domestic hot water tank is integrated in the indoor unit, the installation space required is greatly reduced.

2. 

Small footprint: with a width of only 60cm and a depth of 74cm, the integrated indoor unit has a similar footprint compared to other household appliances.

Small installation footprint: no side clearances are required, and no space is required behind the unit for the piping, as the piping connections are at the top. This results in an installation footprint of only 0.44m^2.

3. Low installation height: both the 180l and 260l version come with a height of 1.7m. The required installation height is less than 2m, taking into account 30cm for installing the piping.

4. The compactness of the integrated indoor unit is emphasised by its sleek design and modern look, easily fitting with other household appliances.

unit:

– for installer & customer

3. BEST SOLUTION FOR DOMESTIC HOT WATER HEATING: HIGH EFFICIENCY – HIGH COMFORT

- 50% less heat loss compared to a standard insulated tank
- Up to 50-55°C* tank temperatures with heat pump operation only
- Up to 60-80°C** tank temperatures with a back up heater
- High hot water volumes: 300l at 40°C, enough for 6 showers without any electrical assistance
- Schedule function: heat-up the tank at a specified time during the day
- Reheat function: when the tank temperature goes below a specified minimum reheat temperature, the tank is automatically reheated

*50°C for 4-8 kW outdoor unit: 55°C for 11-16 kW

**60°C with standard back-up heater of the heat pump module, 80°C with optional booster heater in the tank

4. WALL-MOUNTED INDOOR UNIT INCLUDING ALL HYDRAULIC COMPONENTS

The wall-mounted indoor unit is the perfect solution, in certain situations

1. When no domestic hot water is required in combination with the Daikin Altherma system:

2. When the wall-mounted indoor unit should be combined with a separate domestic hot water tank
- stainless steel tank: 150l, 200l or 300l
- enamel tank: 150l, 200l or 300l

3. When the connection to Daikin solar system is required

solar kit - connection to Daikin solar system

New user inter

high functionalities easy to use

1. QUICK AND EASY COMMISSIONING

- Quick configuration wizard to guide installer through commissioning process
- Menu-based navigation to fine-tune the basic parameters
- Parameters are downloadable to PC as a back-up or to be duplicated
- Actuator test mode to activate all wired components one by one
- Automatic screed-drying function for a gradual heat-up of an under-floor heating system to avoid cracks
- Schedule timers for heating, cooling, domestic hot water operation

2. ROOM TEMPERATURE CONTROL FUNCTIONALITY

The user interface itself is equipped with a temperature sensor and can be installed remotely from the Daikin Altherma low temperature indoor unit.

- Installed on the unit, it will allow quick and easy access to the unit's operating information and settings.
- Installed remotely (e.g. in a living room) it will also act as a room thermostat with more advanced features than a standard room thermostat, resulting in more stable room temperatures, increased efficiency and operation life cycle. A second optional interface can still be installed on the unit for service purposes.

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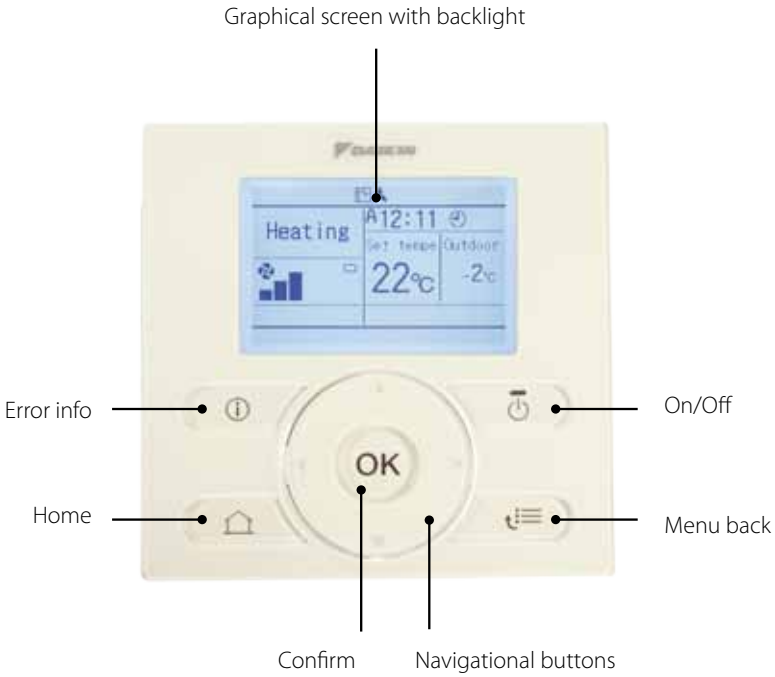

3. USER-FRIENDLY WITH INTUITIVE CONTROLS

In the detailed display mode, the large graphical display of the user interface displays the actual room temperature and the operation mode of the unit. Depending on the end-user's preference, a simplified basic display is available that shows just the actual room temperature and only allows the room temperature set-point to be changed.

User settings can be accessed through an intuitive and self-explanatory menu. This menu will also give access to additional information such as the energy consumption and heat production of the system, split up between heating, cooling and domestic hot water operation, enabling close monitoring of the unit's efficient operation.

4. EASY SERVICEABILITY

- Full text error messages to guide end user to take appropriate action
- The service engineer can review the last 20 error occurences
- Detailed information on the operational conditions of the unit

5. TECHNICAL SPECIFICATIONS

HEATING ONLY

INDOOR UNIT					EHBH04C3V PRELIMINARY DATA	EHBH08C3V PRELIMINARY DATA	EHBH08C9W PRELIMINARY DATA
Casing	Colour				S5730 White / RAL7037	S5730 White / RAL7037	S5730 White / RAL7037
Dimensions	Unit	HeightxWidthxDepth		mm	880x480x350	880x480x350	880x480x350
Operation range	Heating	Ambient	Min.~Max.	°C	-20~25	-20~25	-20~25
		Water side	Min.~Max.	°C	25~55	25~55	25~55
	Domestic hot water	Ambient	Min.~Max.	°CDB	-20~35	-20~35	-20~35
		Water side	Min.~Max.	°C	25~55	25~55	25~55
Sound power level	Nom.			dBA	42	42	42
Sound pressure level	Nom.			dBA	28 [1]	28 [1]	28 [1]
Power supply	Name				V3	V3	9W
	Phase				1~	1~	1~/3~

OUTDOOR UNIT				ERLQ004CV3 PRELIMINARY DATA	ERLQ006CV3 PRELIMINARY DATA	ERLQ008CV3 PRELIMINARY DATA
Heating capacity	Min.		kW	1.80 [2]	2.30 [2]	2.30 [2]
	Nom.		kW	4.31 [2] / 3.50 [3] / 4.38 [4] / 3.92 [5] / 4.70 [6]	6.10 [1] / 5.93 [2] / 4.69 [3] / 5.49 [4] / 5.46 [5] / 5.15 [6]	7.47 [1] / 7.46 [2] / 5.84 [3] / 6.07 [4] / 6.98 [5] / 6.16 [6]
	Max.		kW	3.50 [4]	5.00 [4]	6.10 [4]
COP				4.72 [2] / 3.81 [3] / 2.79 [4] / 3.54 [5] / 2.29 [6]	4.80 [1] / 4.57 [2] / 3.62 [3] / 2.72 [4] / 3.41 [5] / 2.21 [6]	4.64 [1] / 4.35 [2] / 3.44 [3] / 2.57 [4] / 3.37 [5] / 2.11 [6]
Dimensions	Unit	HeightxWidthxDepth	mm	735x825x300	735x825x300	735x825x300
Operation range	Heating	Min.~Max.	°CWB	-20~25	-20~25	-20~25
	Cooling	Min.~Max.	°CDB	10~43	10~43	10~43
	Domestic hot water	Min.~Max.	°CDB	-20~35	-20~35	-20~35
Refrigerant	Charge		kg	2	2	2
Sound power level	Heating	Nom.	dBA	61	61	62
	Cooling	Nom.	dBA	63	63	63
Sound pressure level	Heating	Nom.	dBA	48	48	49
	Cooling	Nom.	dBA	48	48	50
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1~/-/-	V3/1~/-/-	V3/1~/-/-

(1) EW 30°C; LW 35°C; ambient conditions: 10°CDB (2) EW 30°C; LW 35°C; ambient conditions: 7°CDB/6°CWB (3) EW 30°C; LW 35°C; ambient conditions: 2°CDB/1°CWB (4) EW 30°C; LW 35°C; ambient conditions: -7°CDB/-8°CWB (5) EW 40°C; LW 45°C; ambient conditions: 7°CDB/6°CWB (5) EW 40°C; LW 45°C; ambient conditions: 2°CDB/1°CWB (6) EW 40°C; LW 45°C; ambient conditions: -7°CDB/-8°CWB

HEATING & COOLING

INDOOR UNIT					EHBX04C3V PRELIMINARY DATA	EHBX08C3V PRELIMINARY DATA	EHBX08C9W PRELIMINARY DATA
Cooling capacity	Nom.			kW	5.60 [8] / 5.12 [9]	8.16 [8] / 5.86 [9]	8.37 [8] / 6.65 [9]
Casing	Colour				S5730 White / RAL7037	S5730 White / RAL7037	S5730 White / RAL7037
Dimensions	Unit	HeightxWidthxDepth		mm	880x480x350	880x480x350	880x480x350
Operation range	Heating	Ambient	Min.~Max.	°C	-20~25	-20~25	-20~25
		Water side	Min.~Max.	°C	25~55	25~55	25~55
	Cooling	Ambient	Min.~Max.	°CDB	10~43	10~43	10~43
		Water side	Min.~Max.	°C	5~50	5~50	5~50
	Domestic hot water	Ambient	Min.~Max.	°CDB	-20~35	-20~35	-20~35
		Water side	Min.~Max.	°C	25~55	25~55	25~55
Sound power level	Nom.			dBA	42	42	42
Sound pressure level	Nom.			dBA	28 [1]	28 [1]	28 [1]
Power supply	Name				V3	V3	9W
	Phase				1~	1~	-

OUTDOOR UNIT				ERLQ004CV3 PRELIMINARY DATA	ERLQ006CV3 PRELIMINARY DATA	ERLQ008CV3 PRELIMINARY DATA
Heating capacity	Min.		kW	1.80 [2]	2.30 [2]	2.30 [2]
	Nom.		kW	4.31 [2] / 3.50 [3] / 4.38 [4] / 3.92 [5] / 4.70 [6]	6.10 [1] / 5.93 [2] / 4.69 [3] / 5.49 [4] / 5.46 [5] / 5.15 [6]	7.47 [1] / 7.46 [2] / 5.84 [3] / 6.07 [4] / 6.98 [5] / 6.16 [6]
	Max.		kW	3.50 [4]	5.00 [4]	6.10 [4]
Cooling capacity	Nom.		kW	7.04 [8] / 4.98 [9]	8.20 [8] / 6.16 [9]	8.20 [8] / 6.65 [9]
COP				4.72 [2] / 3.81 [3] / 2.79 [4] / 3.54 [5] / 2.29 [6]	4.80 [1] / 4.57 [2] / 3.62 [3] / 2.72 [4] / 3.41 [5] / 2.21 [6]	4.64 [1] / 4.35 [2] / 3.44 [3] / 2.57 [4] / 3.37 [5] / 2.11 [6]
EER				3.21 [8] / 2.58 [9]	3.06 [8] / 2.71 [9]	3.06 [8] / 2.28 [9]
Dimensions	Unit	HeightxWidthxDepth	mm	735x825x300	735x825x300	735x825x300
Operation range	Heating	Min.~Max.	°CWB	-20~25	-20~25	-20~25
	Cooling	Min.~Max.	°CDB	10~43	10~43	10~43
	Domestic hot water	Min.~Max.	°CDB	-20~35	-20~35	-20~35
Refrigerant	Charge		kg	2	2	2
Sound power level	Heating	Nom.	dBA	61	61	62
	Cooling	Nom.	dBA	63	63	63
Sound pressure level	Heating	Nom.	dBA	48	48	49
	Cooling	Nom.	dBA	48	48	50
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1~/-/-	V3/1~/-/-	V3/1~/-/-

(1) EW 30°C; LW 35°C; ambient conditions: 10°CDB (2) EW 30°C; LW 35°C; ambient conditions: 7°CDB/6°CWB (3) EW 30°C; LW 35°C; ambient conditions: 2°CDB/1°CWB (4) EW 30°C; LW 35°C; ambient conditions: -7°CDB/-8°CWB (5) EW 40°C; LW 45°C; ambient conditions: 7°CDB/6°CWB (5) EW 40°C; LW 45°C; ambient conditions: 2°CDB/1°CWB (6) EW 40°C; LW 45°C; ambient conditions: -7°CDB/-8°CWB; (8)EW 23°C; LW18°C; ambient conditions: 35°C (9) EW 12°C; LW 7°C; ambient conditions 35°C

EHBH16CV3 PRELIMINARY DATA	EHBH16CV3 PRELIMINARY DATA	EHBH16CV3 PRELIMINARY DATA	EHBH16CW9 PRELIMINARY DATA	EHBH16CW9 PRELIMINARY DATA	EHBH16CW9 PRELIMINARY DATA
S5730 WIT / RAL7037	S5730 WIT / RAL7037	S5730 WIT / RAL7037	S5730 WIT / RAL7037	S5730 WIT / RAL7037	S5730 WIT / RAL7037
880x480x350	880x480x350	880x480x350	880x480x350	880x480x350	880x480x350
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
18~55	18~55	18~55	18~55	18~55	18~55
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
25~50	25~50	25~50	25~50	25~50	25~50
-	-	-	-	-	-
-	-	-	-	-	-
3V	3V	3V	9W	9W	9W
1~	1~	1~	1~/3~	1~/3~	1~/3~

ERLQ11CV3 / ERLQ11CW1 PRELIMINARY DATA	ERLQ14CV3 / ERLQ14CW1 PRELIMINARY DATA	ERLQ16CV3 / ERLQ16CW1 PRELIMINARY DATA	ERLQ11CV3 / ERLQ11CW1 PRELIMINARY DATA	ERLQ14CV3 / ERLQ14CW1 PRELIMINARY DATA	ERLQ16CV3 / ERLQ16CW1 PRELIMINARY DATA
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4,73[1] / 4,55[2] / 3,50[3] / 2,70[4] / 3,51[5] / 2,80[6] / 2,04[7]	4,62[1] / 4,40[2] / 3,45[3] / 2,70[4] / 3,34[5] / 2,75[6] / 2,09[7]	4,33[1] / 4,35[2] / 3,40[3] / 2,75[4] / 3,31[5] / 2,70[6] / 2,10[7]	4,73[1] / 4,55[2] / 3,50[3] / 2,70[4] / 3,51[5] / 2,80[6] / 2,04[7]	4,62[1] / 4,40[2] / 3,45[3] / 2,70[4] / 3,34[5] / 2,75[6] / 2,09[7]	4,33[1] / 4,35[2] / 3,40[3] / 2,75[4] / 3,31[5] / 2,70[6] / 2,10[7]
1345x320x900	1345x320x900	1345x320x900	1345x320x900	1345x320x900	1345x320x900
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
10~46	10~46	10~46	10~46	10~46	10~46
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
3-6	3-6	3-6	3-6	3-6	3-6
64	64	66	64	64	66
64	66	69	64	66	69
51	51	52	51	51	52
50	52	54	50	52	54
V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-

EHBX16CV3 PRELIMINARY DATA	EHBX16CV3 PRELIMINARY DATA	EHBX16CV3 PRELIMINARY DATA	EHBX16CW9 PRELIMINARY DATA	EHBX16CW9 PRELIMINARY DATA	EHBX16CW9 PRELIMINARY DATA
15,05[8] / 11,72[9]	16,06[8] / 12,55[9]	16,76[8] / 13,12[9]	15,05[8] / 11,72[9]	16,06[8] / 12,55[9]	16,76[8] / 13,12[9]
S5730 WIT / RAL7037	S5730 WIT / RAL7037	S5730 WIT / RAL7037	S5730 WIT / RAL7037	S5730 WIT / RAL7037	S5730 WIT / RAL7037
880x480x350	880x480x350	880x480x350	880x480x350	880x480x350	880x480x350
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
18~55	18~55	18~55	18~55	18~55	18~55
10~46	10~46	10~46	10~46	10~46	10~46
5~22	5~22	5~22	5~22	5~22	5~22
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
25~50	25~50	25~50	25~50	25~50	25~50
-	-	-	-	-	-
-	-	-	-		-
3V	3V	3V	W1	W1	W1
1~	1~	1~	3N~	3N~	3N~

ERLQ11CV3 / ERLQ11CW1 PRELIMINARY DATA	ERLQ14CV3 / ERLQ14CW1 PRELIMINARY DATA	ERLQ16CV3 / ERLQ16CW1 PRELIMINARY DATA	ERLQ11CV3 / ERLQ11CW1 PRELIMINARY DATA	ERLQ14CV3 / ERLQ14CW1 PRELIMINARY DATA	ERLQ16CV3 / ERLQ16CW1 PRELIMINARY DATA
-	-	-	-	-	-
11,2[1] / 11,20[2] / 8,56[3] / 8,00[4] / 11,00[5] / 8,51[6] / 6,44[7]	14,4[1] / 14,50[2] / 10,30[3] / 8,50[4] / 13,60[5] / 10,10[6] / 8,40[7]	15,70[1] / 16,00[2] / 11,10[3] 9,25[4] / 15,20[5] /10,90[6] / 9,20[7]	11,2[1] / 11,20[2] / 8,56[3] / 8,00[4] / 11,00[5] / 8,51[6] / 6,44[7]	14,4[1] / 14,50[2] 10,30[3] / 8,50[4] / 13,60[5] / 10,10[6] / 8,40[7]	15,70[1] / 16,00[2] / 11,10[3] 9,25[4] / 15,20[5] /10,90[6] / 9,20[7]
-	-	-	-	-	-
15,05[8] / 11,72[9]	16,06[8] / 12,55[9]	16,76[8] / 13,12[9]	15,05[8] / 11,72[9]	16,06[8] / 12,55[9]	16,76[8] / 13,12[9]
4,73[1] / 4,55[2] / 3,50[3] / 2,70[4] / 3,51[5] / 2,80[6] / 2,04[7]	4,62[1] / 4,40[2] / 3,45[3] / 2,70[4] / 3,34[5] / 2,75[6] / 2,09[7]	4,33[1] / 4,35[2] / 3,40[3] / 2,75[4] / 3,31[5] / 2,70[6] / 2,10[7]	4,73[1] / 4,55[2] / 3,50[3] / 2,70[4] / 3,51[5] / 2,80[6] / 2,04[7]	4,62[1] / 4,40[2] / 3,45[3] / 2,70[4] / 3,34[5] / 2,75[6] / 2,09[7]	4,33[1] / 4,35[2] / 3,40[3] / 2,75[4] / 3,31[5] / 2,70[6] / 2,10[7]
3,39[8] / 2,78[9]	3,01[8]; 2,51[9]	2,76[8] / 2,32[9]	3,39[8]/ 2,78[9]	3,01[8] / 2,51[9]	2,76[8]/ 2,32[9]
1345x320x900	1345x320x900	1345x320x900	1345x320x900	1345x320x900	1345x320x900
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
10~46	10~46	10~46	10~46	10~46	10~46
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
3-6	3-6	3-6	3-6	3-6	3-6
64	64	66	64	64	66
64	66	69	64	66	69
51	51	52	51	51	52
50	52	54	50	52	54
V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-

HEATING ONLY

INDOOR UNIT					EHVH04S18C3V PRELIMINARY DATA	EHVH08S18C3V PRELIMINARY DATA	EHVH08S26C9W PRELIMINARY DATA
Casing	Colour				S5730 White / RAL7037	S5730 White / RAL7037	S5730 White / RAL7037
Dimensions	Unit	HeightxWidthxDepth		mm	1,700x600x740	1,700x600x740	1,700x600x740
Operation range	Heating	Ambient	Min.~Max.	°C	-20~25	-20~25	-20~25
		Water side	Min.~Max.	°C	25~55	25~55	25~55
	Domestic hot water	Ambient	Min.~Max.	°CDB	-20~35	-20~35	-20~35
		Water side	Min.~Max.	°C	25~55	25~55	25~55
Sound power level	Nom.			dBA	42	42	42
Sound pressure level	Nom.			dBA	28 [1]	28 [1]	28 [1]
Power supply	Name				V3	V3	9W
	Phase				1~	1~	1~/3~

OUTDOOR UNIT				EHVH04S18C3V PRELIMINARY DATA	EHVH08S18C3V PRELIMINARY DATA	EHVH08S26C9W PRELIMINARY DATA
Heating capacity	Min.		kW	1.80 [2]	2.30 [2]	2.30 [2]
	Nom.		kW	4.31[2] / 3.50[3] / 4.38[4] / 3.92[5] / 4.70[6]	6.10[1] / 5.93[2] / 4.69[3] / 5.49[4] / 5.46[5] / 5.15[6]	7.47[1] / 7.46[2] / 5.84[3] / 6.07[4] / 6.98[5] / 6.16[6]
	Max.		kW	3.50 [4]	5.00 [4]	6.10 [4]
COP				4.72[2] / 3.81[3] / 2.79[4] / 3.54[5] / 2.29[6]	4.80[1] / 4.57[2] / 3.62[3] / 2.72[4] / 3.41[5] / 2.21[6]	4.64[1] / 4.35[2] / 3.44[3] / 2.57[4] / 3.37[5] / 2.11[6]
Dimensions	Unit	HeightxWidthxDepth	mm	735x825x300	735x825x300	735x825x300
Operation range	Heating	Min.~Max.	°CWB	-20~25	-20~25	-20~25
	Cooling	Min.~Max.	°CDB	10~43	10~43	10~43
	Domestic hot water	Min.~Max.	°CDB	-20~35	-20~35	-20~35
Refrigerant	Charge		kg	2	2	2
Sound power level	Heating	Nom.	dBA	61	61	62
	Cooling	Nom.	dBA	63	63	63
Sound pressure level	Heating	Nom.	dBA	48	48	49
	Cooling	Nom.	dBA	48	48	50
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1~/-/-	V3/1~/-/-	V3/1~/-/-

(1) EW 30°C; LW 35°C; ambient conditions: 10°CDB (2) EW 30°C; LW 35°C; ambient conditions: 7°CDB/6°CWB (3) EW 30°C; LW 35°C; ambient conditions: 2°CDB/1°CWB (4) EW 30°C; LW 35°C; ambient conditions: -7°CDB/-8°CWB (5) EW 40°C; LW 45°C; ambient conditions: 7°CDB/6°CWB (5) EW 40°C; LW 45°C; ambient conditions: 2°CDB/1°CWB (6) EW 40°C; LW 45°C; ambient conditions: -7°CDB/-8°CWB

HEATING & COOLING

INDOOR UNIT					EHVX04S18C3V PRELIMINARY DATA	EHVX08S18C3V PRELIMINARY DATA	EHVX08S26C9W PRELIMINARY DATA
Cooling capacity	Nom.			kW	5.60 [8] / 5.12 [9]	8.16 [8] / 5.86 [9]	8.37 [8] / 6.65 [9]
Casing	Colour				S5730 White / RAL7037	S5730 White / RAL7037	S5730 White / RAL7037
Dimensions	Unit	HeightxWidthxDepth		mm	1,700x600x740	1,700x600x740	1,700x600x740
Operation range	Heating	Ambient	Min.~Max.	°C	-20~25	-20~25	-20~25
		Water side	Min.~Max.	°C	25~55	25~55	25~55
	Cooling	Ambient	Min.~Max.	°CDB	10~43	10~43	10~43
		Water side	Min.~Max.	°C	5~50	5~50	5~50
	Domestic hot water	Ambient	Min.~Max.	°CDB	-20~35	-20~35	-20~35
		Water side	Min.~Max.	°C	25~55	25~55	25~55
Sound power level	Nom.			dBA	42	42	42
Sound pressure level	Nom.			dBA	28 [1]	28 [1]	28 [1]
Power supply	Name				V3	V3	9W
	Phase				1~	1~	1~/3~

OUTDOOR UNIT				EHVX04S18C3V PRELIMINARY DATA	EHVX08S18C3V PRELIMINARY DATA	EHVX08S26C9W PRELIMINARY DATA
Heating capacity	Min.		kW	1.80 [2]	2.30 [2]	2.30 [2]
	Nom.		kW	4.31[2] / 3.50[3] / 4.38[4] / 3.92[5] / 4.70[6]	6.10[1] / 5.93[2]/4.69[3] / 5.49[4] / 5.46[5] / 5.15[6]	7.47[1] / 7.46[2] / 5.84[3] / 6.07[4] / 6.98[5] / 6.16[6]
	Max.		kW	3.50 [4]	5.00 [4]	6.10 [4]
Cooling capacity	Nom.		kW	7.04[8] / 4.98[9]	8.20[8] / 6.16[9]	8.20[8]/6.65[9]
COP				4.72[2] / 3.81[3] / 2.79[4] / 3.54[5] / 2.29[6]	4.80[1]/4.57[2]/3.62[3]/2.72[4]/3.41[5]/2.21[6]	4.64[1] / 4.35[2] / 3.44[3] / 2.57[4]/3.37[5]/2.11[6]
EER				3.21[8] / 2.58[9]	3.06[8] / 2.71[9]	3.06[8]/2.28[9]
Dimensions	Unit	HeightxWidthxDepth	mm	735x825x300	735x825x300	735x825x300
Operation range	Heating	Min.~Max.	°CWB	-20~25	-20~25	-20~25
	Cooling	Min.~Max.	°CDB	10~43	10~43	10~43
	Domestic hot water	Min.~Max.	°CDB	-20~35	-20~35	-20~35
Refrigerant	Charge		kg	2	2	2
Sound power level	Heating	Nom.	dBA	61	61	62
	Cooling	Nom.	dBA	63	63	63
Sound pressure level	Heating	Nom.	dBA	48	48	49
	Cooling	Nom.	dBA	48	48	50
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1~/-/-	V3/1~/-/-	V3/1~/-/-

(1) EW 30°C; LW 35°C; ambient conditions: 10°CDB (2) EW 30°C; LW 35°C; ambient conditions: 7°CDB/6°CWB (3) EW 30°C; LW 35°C; ambient conditions: 2°CDB/1°CWB (4) EW 30°C; LW 35°C; ambient conditions: -7°CDB/-8°CWB (5) EW 40°C; LW 45°C; ambient conditions: 7°CDB/6°CWB (5) EW 40°C; LW 45°C; ambient conditions: 2°CDB/1°CWB (6) EW 40°C; LW 45°C; ambient conditions: -7°CDB/-8°CWB (8)EW 23°C; LW18°C; ambient conditions: 35°C (9) EW 12°C; LW 7°C; ambient conditions 35°C

EHVH16S18CV3 PRELIMINARY DATA	EHVH16S18CV3 PRELIMINARY DATA	EHVH16S18CV3 PRELIMINARY DATA	EHVH16S26CW9 PRELIMINARY DATA	EHVH16S26CW9 PRELIMINARY DATA	EHVH16S26CW9 PRELIMINARY DATA
S5730 WIT / RAL7037	S5730 WIT / RAL7037	S5730 WIT / RAL7037	S5730 WIT / RAL7037	S5730 WIT / RAL7037	S5730 WIT / RAL7037
1700x600x740	1700x600x740	1700x600x740	1700x600x740	1700x600x740	1700x600x740
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
18~55	18~55	18~55	18~55	18~55	18~55
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
25~55	25~55	25~55	25~55	25~55	25~55
-	-	-	-	-	-
-	-	-	-	-	-
W1	W1	W1	9W	9W	9W
3N~	3N~	3N~	1~/3~	1~/3~	1~/3~

ERLQ11CV3 / ERLQ11CW1 PRELIMINARY DATA	ERLQ14CV3 / ERLQ14CW1 PRELIMINARY DATA	ERLQ16CV3 / ERLQ16CW1 PRELIMINARY DATA	ERLQ11CV3 / ERLQ11CW1 PRELIMINARY DATA	ERLQ14CV3 / ERLQ14CW1 PRELIMINARY DATA	ERLQ16CV3 / ERLQ16CW1 PRELIMINARY DATA
-	-	-	-	-	-
11,2[1] / 11,20[2] / 8,56[3] / 8,00[4] / 11,00[5] / 8,51[6] / 6,44[7]	14,4[1] / 14,50[2] / 10,30[3] / 8,50[4] / 13,60[5] / 10,10[6] / 8,40[7]	15,70[1] / 16,00[2] / 11,10[3] / 9,25[4] / 15,20[5] / 10,90[6] / 9,20[7]	11,2[1] / 11,20[2] / 8,56[3] / 8,00[4] / 11,00[5] / 8,51[6] / 6,44[7]	14,4[1] / 14,50[2] / 10,30[3] / 8,50[4] / 13,60[5] /10,10[6] / 8,40[7]	15,70[1] / 16,00[2] / 11,10[3] / 9,25[4] / 15,20[5] / 10,90[6] / 9,20[7]
-	-	-	-	-	-
4,731[1] / 4,55[2] / 3,50[3] / 2,70[4] / 3,51[5] / 2,80[6] / 2,04[7]	4,62[1] / 4,40[2] / 3,45[3] / 2,70[4] / 3,34[5] / 2,75[6] / 2,09[7]	4,33[1] / 4,35[2] / 3,40[3] / 2,75[4] / 3,31[5] / 2,70[6] / 2,10[7]	4,731 / 4,55[2] / 3,50[3] / 2,70[4] / 3,51[5] / 2,80[6] / 2,04[7]	4,62[1] / 4,40[2] / 3,45[3] / 2,70[4] / 3,34[5] / 2,75[6] / 2,09[7]	4,33[1] / 4,35[2] / 3,40[3] / 2,75[4] / 3,31[5] / 2,70[6] / 2,10[7]
1345x320x900	1345x320x900	1345x320x900	1345x320x900	1345x320x900	1345x320x900
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
10~46	10~46	10~46	10~46	10~46	10~46
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
3-6	3-6	3-6	3-6	3-6	3-6
64	64	66	64	64	66
64	66	69	64	66	69
51	51	52	51	51	52
50	52	54	50	52	54
V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-

EHVX16S18CV3 PRELIMINARY DATA	EHVX16S18CV3 PRELIMINARY DATA	EHVX16S18CV3 PRELIMINARY DATA	EHVX16S18CV3 PRELIMINARY DATA	EHVX16S18CV3 PRELIMINARY DATA	EHVX16S18CV3 PRELIMINARY DATA
15,05[8] / 11,72[9]	16,06[8] / 12,55[9]	16,76[8] / 13,12[9]	15,05[8] /11,72[9]	16,06[8] /12,55[9]	16,76[8] / 13,12[9]
S5730 WIT / RAL7037	S5730 WIT / RAL7037	S5730 WIT / RAL7037	S5730 WIT / RAL7037	S5730 WIT / RAL7037	S5730 WIT / RAL7037
1700x600x740	1700x600x740	1700x600x740	1700x600x740	1700x600x740	1700x600x740
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
18~55	18~55	18~55	18~55	18~55	18~55
10~46	10~46	10~46	10~46	10~46	10~46
5~22	5~22	5~22	5~22	5~22	5~22
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
25~50	25~50	25~50	25~50	25~50	25~50
-	-	-	-	-	-
-	-	-	-	-	-
3V	3V	3V	W1	W1	W1
1~	1~	1~	3N~	3N~	3N~

ERLQ11CV3 / ERLQ11CW1 PRELIMINARY DATA	ERLQ14CV3 / ERLQ14CW1 PRELIMINARY DATA	ERLQ16CV3 / ERLQ16CW1 PRELIMINARY DATA	ERLQ11CV3 / ERLQ11CW1 PRELIMINARY DATA	ERLQ14CV3 / ERLQ14CW1 PRELIMINARY DATA	ERLQ16CV3 / ERLQ16CW1 PRELIMINARY DATA
-	-	-	-	-	-
11,2[1] / 11,20[2] / 8,56[3] / 8,00[4] / 11,00[5] / 8,51[6] / 6,44[7]	14,4[1] / 14,50[2] / 10,30[3] / 8,50[4] / 13,60[5] / 10,10[6] / 8,40[7]	15,70[1] / 16,00[2] / 11,10[3] / 9,25[4] / 15,20[5] / 10,90[6] / 9,20[7]	11,2[1] / 11,20[2] / 8,56[3] / 8,00[4] / 11,00[5] / 8,51[6] / 6,44[7]	14,4[1] / 14,50[2] / 10,30[3] / 8,50[4] / 13,60[5] / 10,10[6] / 8,40[7]	15,70[1] / 16,00[2] / 11,10[3] / 9,25[4] / 15,20[5] / 10,90[6] / 9,20[7]
-	-	-	-	-	-
15,05[8] / 11,72[9]	16,06[8] / 12,55[9]	16,76[8] / 13,12[9]	15,05[8] / 11,72[9]	16,06[8] / 12,55[9]	16,76[8] / 13,12[9]
4,73[1] / 4,55[2] / 3,50[3] / 2,70[4] / 3,51[5] / 2,80[6] / 2,04[7]	4,62[1] / 4,40[2] / 3,45[3] / 2,70[4] / 3,34[5] / 2,75[6] / 2,09[7]	4,33[1] / 4,35[2] / 3,40[3] / 2,75[4] / 3,31[5] / 2,70[6] / 2,10[7]	4,73[1] / 4,55[2] / 3,50[3] / 2,70[4] / 3,51[5] / 2,80[6] / 2,04[7]	4,62[1] / 4,40[2] / 3,45[3] / 2,70[4] / 3,34[5] / 2,75[6] / 2,09[7]	4,33[1] / 4,35[2] / 3,40[3] / 2,75[4] / 3,31[5] / 2,70[6] / 2,10[7]
3,39[8] / 2,78[9]	3,01[8] / 2,51[9]	2,76[8] / 2,32[9]	3,39[8] / 2,78[9]	3,01[8] / 2,51[9]	2,76[8] / 2,32[9]
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
10~46	10~46	10~46	10~46	10~46	10~46
-20~35	-20~35	-20~35	-20~35	-20~35	-20~35
3-6	3-6	3-6	3-6	3-6	3-6
64	64	66	64	64	66
64	66	69	64	66	69
51	51	52	51	51	52
50	52	54	50	52	54
-	-	-	-	-	-
V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-	V3/ 1~/ -/- / W1/3N~/-/-

ROOM THERMOSTAT

WIRED ROOM THERMOSTAT				EKRTWA
Dimensions	Unit	HxWxD	mm	87/125/34
Weight	Unit		g	215
Outdoor temperature	Storage	Min./Max.	°C	-20/60
	Operation	Min./Max.	°C	0/50
Temperature setting range	Heating	Min./Max.	°C	4/37
	Cooling	Min./Max.	°C	4/37
Clock				Yes
Regulation function				Proportional band
Power supply	Voltage		V	Battery powered 3* AA-LR6 (alkaline)
Connection	Type			Wired

WIRELESS ROOM THERMOSTAT				EKRTR1
Dimensions	Thermostat	HxWxD	mm	87/125/34
	Receiver	HxWxD	mm	170/50/28
Weight	Thermostat		g	210
	Receiver		g	125
Outside temperature	Storage	Min./Max.	°C	-20/60
	Operation	Min./Max.	°C	0/50
Temperature setting range	Heating	Min./Max.	°C	4/37
	Cooling	Min./Max.	°C	4/37
Clock				Yes
Regulation function				Proportional band
Power supply	Thermostat	Voltage	V	Battery powered 3x AA-LRG (alkaline)
	Receiver	Voltage	V	230
	Frequency		Hz	50
	Phase			1~
Connection	Thermostat			Wireless
	Receiver			Wired
Maximum distance to receiver	Indoor		m	approx.30m
	Outdoor		m	approx.100m

SOLAR CONNECTION

SOLAR CONNECTION				EKSOLHWAV1
Dimensions	Unit	HxWxD	mm	770x305x270
Weight	Unit		kg	8
Operation range	Outdoor temperature	Min.~Max.	°C	1~35
Sound pressure level	Nom.		dBA	27
Thermal performance	Zero loss collector efficiency η0		%	-
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240
Power supply intake				Indoor unit

ACCESSORY				EKSR3PA
Mounting				On wall
Dimensions	Unit	HxWxD	mm	332x230x145
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	Frequency / Voltage		Hz / V	50/230

SOLAR COLLECTOR

SOLAR COLLECTOR				EKSV26P	EKSH26P
Dimensions	Unit	HxWxD	mm	2,000x1,300x85	1,300x2,000x85
Weight	Unit		kg	43	
Volume			l	1.7	2.1
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

HEAT PUMP CONVECTOR

INDOOR UNITS				FWXV20AVEB	FWXV15AVEB
Heating capacity	Total capacity	Nom.	kW	2.0	1.5
Cooling capacity	Total capacity	Nom.	kW	1.7	1.2
	Sensible capacity	Nom.	kW	1.4	0.98
Power input	Heating	Nom.	kW	0.015	0.013
	Cooling	Nom.	kW	0.015	0.013
Dimensions	Unit	Height/Width/Depth	mm	600/700/210	
Weight	Unit		kg	15	
Piping connections	Drain/OD/Inlet/Outlet		mm/inch	18/G 1/2/G 1/2	
Sound pressure level	Heating	Nom.	dBA	29	19
	Cooling	Nom.	dBA	29	19
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220	

(1)Cooling: indoor temp. 27°CDB, 19°CWB; entering water temp. 7°C, water temperature rise 5K.(2)Heating: room temperature 20°CDB and entering water temperature 45°C, water temperature drop 5K.

Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.

Daikin Europe N.V. participates in the Eurovent Certification programme for Air conditioners (AC), Liquid Chilling Packages (LCP) and Fan coil Units (FCU), Check ongoing validity of certificate online: www.eurovent-certification.com or using: www.certiflash.com

FSC

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