Domestic hot water tank Air Conditioning Technical Data

EKHWET-BV3



EKHWET90BAV3
EKHWET120BAV3

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1 Features

1 - 1 EKHWET-BV3

› Up to 3 indoor units and 1 domestic hot water tank can be connected to 1 multi outdoor unit
› Domestic hot water efficiencies up to A
› Wall mounted domestic hot water tank, available in 90l and 120l



2 Specifications

1 - 1 EKHWET-BV3

Technical specifications					EKHWET90BV3	EKHWET120BV3
Mounting					Wall	
Casing	Colour				White / Black	
	Material				Sheet metal / Acrylonitrile Butadiene Styrene	
Dimensions	Unit	Height	Tank	mm	1,032	1,283
		Width		mm	510	
		Depth		mm	570	
	Packed unit	Height		mm	1,265	1,519
		Width		mm	600	
		Depth		mm	700	
Weight	Unit	Empty		kg	43	47
	Packed unit	Empty		kg	52	57
Packing	Material				Carton + Wood + EPS / Plastic foil / PP (Straps)	
	Weight			kg	9	10
Tank	Water volume			l	89	118
	Material				Enamel coated steel acc. DIN4753TL2	
	Maximum water temperature			°C	75.0	
	Maximum water pressure			bar	8	
	Insulation	Heat loss		kWh/24h	1.1	1.3
		Material			HFC-free Polyurethane foam	
		Minimum thickness		mm	42.0	
	Energy efficiency class				B	C
Heat exchanger	Quantity				1	
	Domestic hot water	Quantity			1	
		Tube material			Aluminium	
		Operating pressure		bar	42	
Booster heater	Quantity				1.0	
	Capacity			kW	1	
Temperature sensor	Cable length			m	2.5	
Piping connections	Cold water in	Diameter		inch	1/2	
	Hot water out	Diameter		inch	1/2	
Safety devices	Item	01			Thermal cut out	
General	Supplier/ Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium	
		Name or trademark			Daikin Europe N.V.	
	Product description	Model identifier			EKHWET90BAV3	EKHWET120BAV3
		Model identifier (with wildcards)			EKHWET*	

3 Combination table

3 - 1 Combination Table

EKHWET-BV3

Kit availability

Reference	Description	EKHWET90BAV3	EKHWET120BAV3
EKPCCAB4	PC USB cable	o	o

Remark

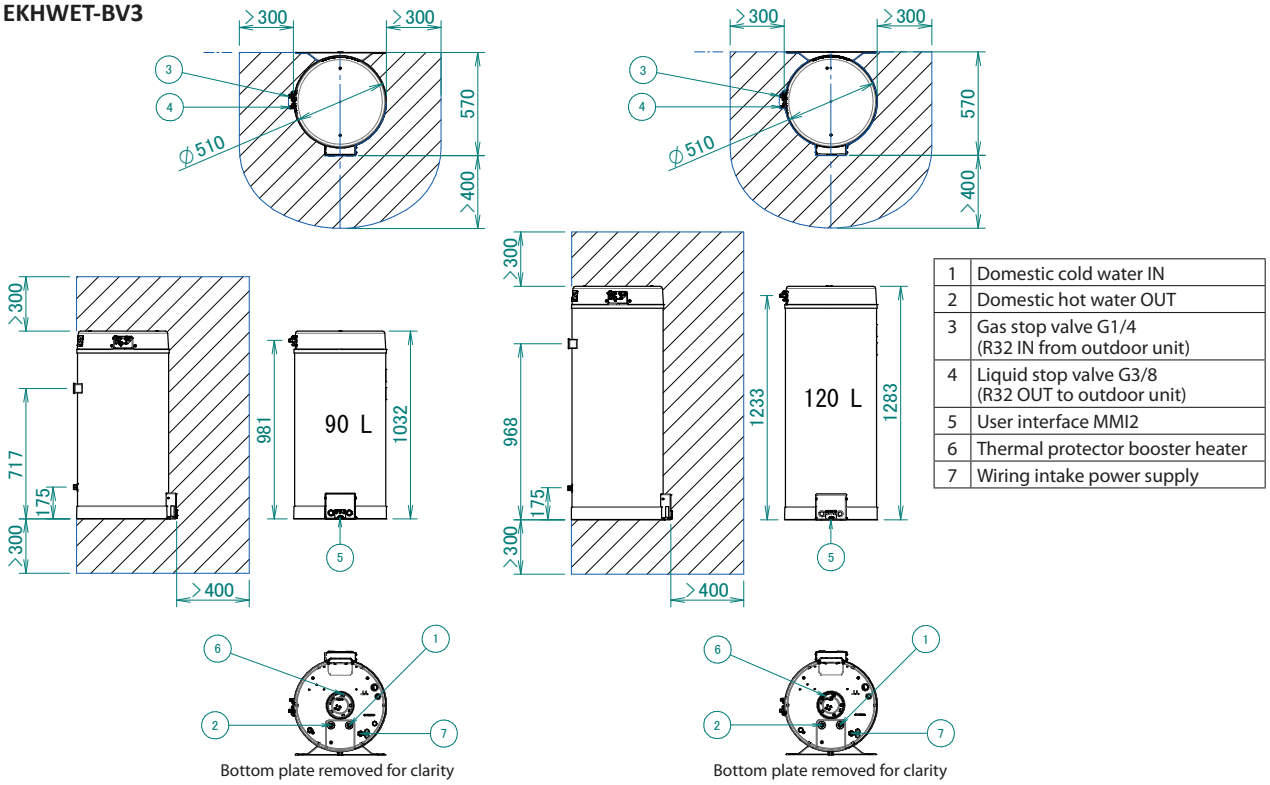
Other combinations than mentioned in this combination table are prohibited.

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4 Dimensional drawings

4 - 1 Dimensional Drawings

EKHWET-BV3



1	Domestic cold water IN
2	Domestic hot water OUT
3	Gas stop valve G1/4 (R32 IN from outdoor unit)
4	Liquid stop valve G3/8 (R32 OUT to outdoor unit)
5	User interface MMI2
6	Thermal protector booster heater
7	Wiring intake power supply

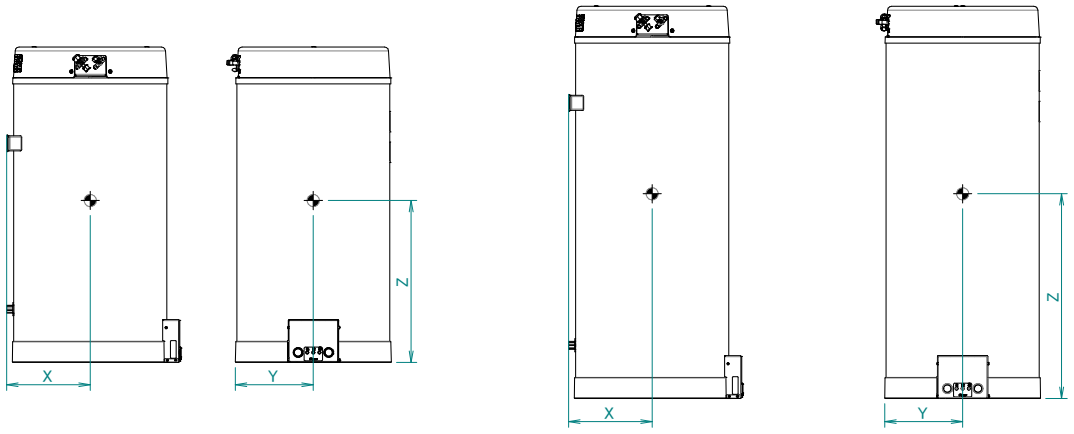
Required space for service and installation.

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5 Centre of gravity

5 - 1 Centre of Gravity

EKHWET-BV3



90 Liter

120 Liter

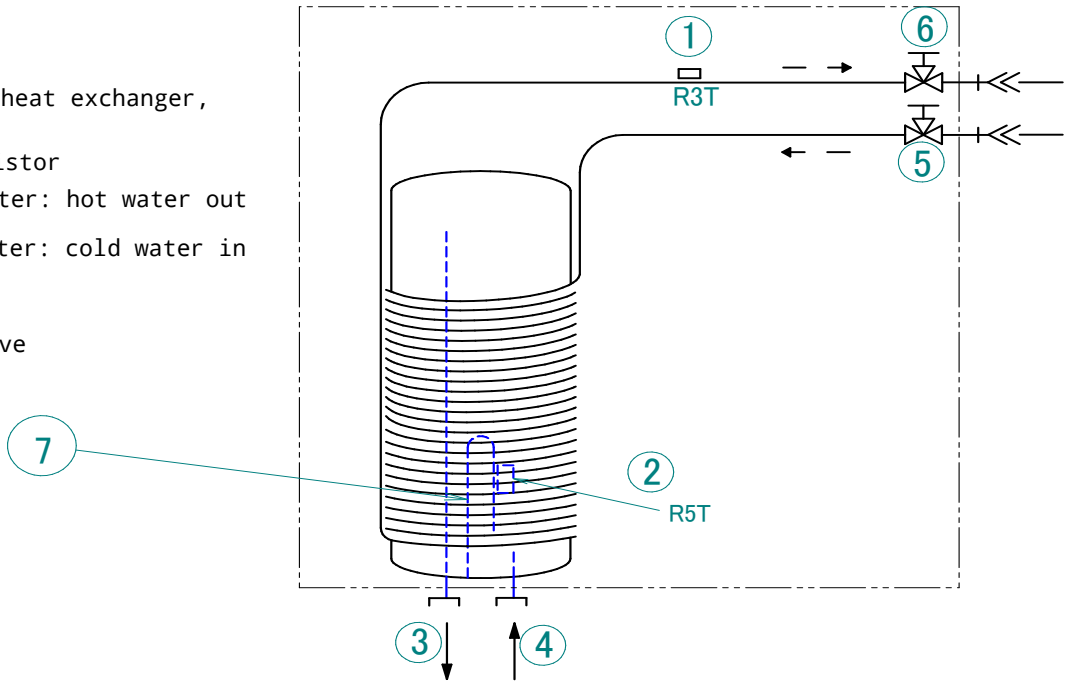
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6 Piping diagrams

6 - 1 Piping Diagrams

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1. R3T-Thermistor (heat exchanger, liquid pipe)
2. R5T -Tank thermistor
3. Domestic hot water: hot water out
4. Domestic hot water: cold water in
5. Gas stop valve
6. Liquid stop valve
7. Booster Heater



Screw connection | Flare connection

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7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

EKHWET-BV3

NOTES

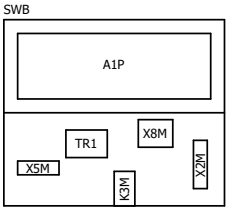
X2M	: Field wiring terminal for AC
X4M	: BSH Power supply terminal client
X5M	: Wiring terminal for DC (Indoor)
X5M	: Field wiring terminal for AC (Outdoor)
X8M	: BSH Power supply terminal
—— —— ——	: Earth wiring
– – – – – –	: Field supply

: Option — : Not mounted in switch box

: Wiring depending on model — : PCB

Note 1 : Connection point of the power supply for the BSH should be foreseen outside the unit.

POSITION IN SWITCH BOX



LEGEND

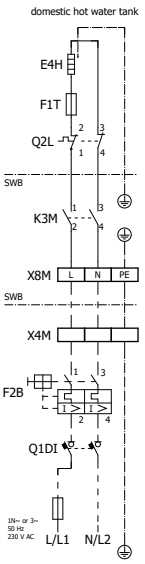
* : optional
\# : field supply

Part n°		Description
A1P		main PCB
A11P		MMI main PCB
E4H		booster heater (1.2 kW)
F1T		thermal fuse booster heater
F2B	#	overcurrent fuse booster heater
FU1 (A1P)		fuse (5 A 250 V for PCB)
FU2		fuse (0.5 A)
K3M		contactor booster heater
K4R (A1P)		relay on PCB
P1M		MMI display
Q2L		thermal protector booster heater
Q1DI	#	earth leakage circuit breaker
R3T		thermistor (liquid)
R5T		thermistor (water in)
SW1~2 (A11P)		turn buttons
SW3~5 (A11P)		push button
TR1		power supply transformer
X4M	#	BSH power supply terminal strip client
X8M		BSH power supply terminal strip
X*, X*A, X*B		connector
X*M		terminal strip

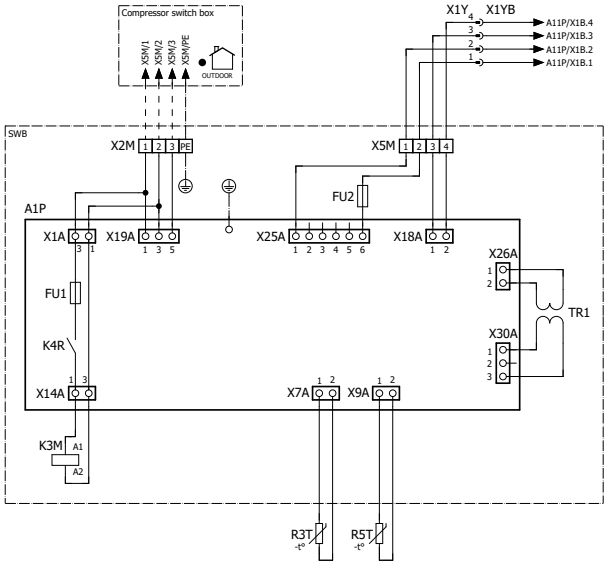
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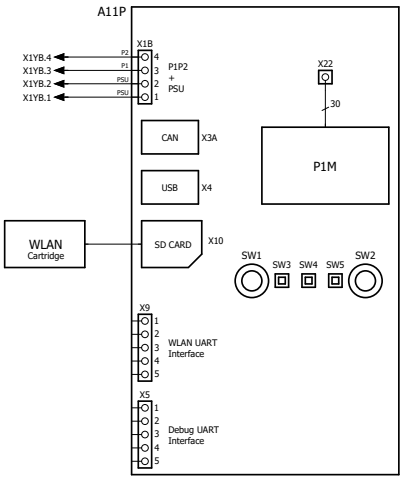
SWB - BSH power supply



SWB - Control circuit



Remote MMI - Control Circuit



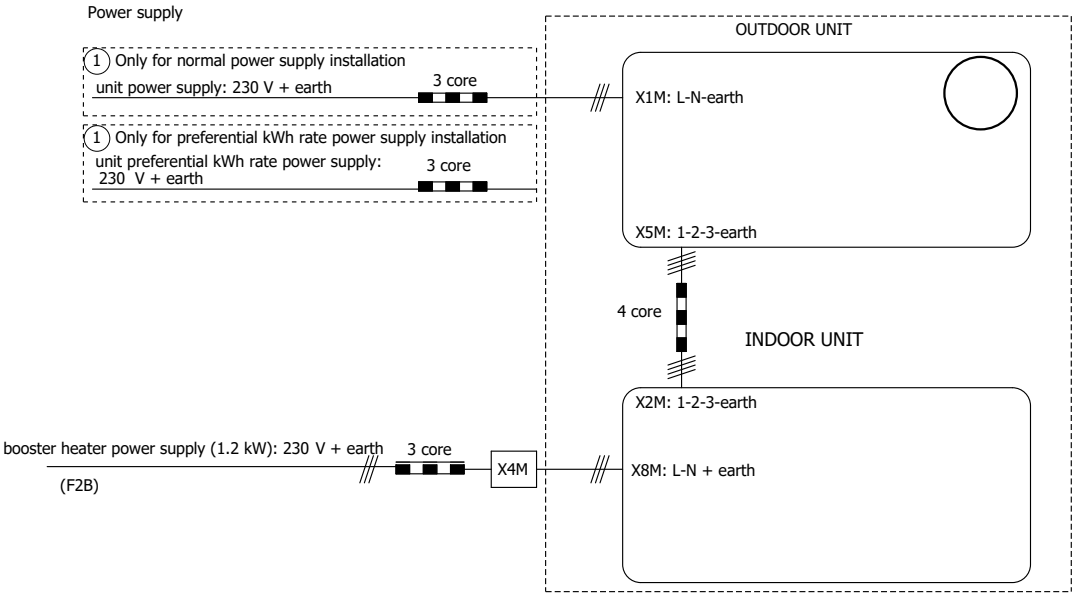
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8 External connection diagrams

8 - 1 External Connection Diagrams

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Electrical connection diagram Multi Domestic Hot Water Tank STANDARD PART



For more details please check unit wiring

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