

Heating Technical Data

EKHWSU-D3V3



- > EKHWSU150D3V3
- > EKHWSU180D3V3
- > EKHWSU200D3V3
- > EKHWSU250D3V3
- > EKHWSU300D3V3

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1 Features

Stainless steel domestic hot water tank

- Available in 150, 180, 200, 250 and 300 liters
- Stainless steel domestic hot water tank

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2 Specifications

2-1 Technical Specifications					EKHWSU150D3V3	EKHWSU180D3V3	EKHWSU200D3V3	EKHWSU250D3V3	EKHWSU300D3V3	
Casing	Colour				Neutral white					
	Material				Epoxy coated steel / Epoxy-coated mild steel					
Dimensions	Unit	Height	Tank	mm	1,000	1,164	1,264	1,535	1,745	
		Diameter		mm	595					
	Packed unit	Height		mm	1,037	1,203	1,305	1,575	1,785	
		Width		mm	600					
		Depth		mm	600					
Weight	Unit	Empty		kg	45	50	53	58	63	
		Full		kg	190	224	245	300	355	
	Packed unit	Empty		kg	55	61	64	70	75	
Packing	Material				Carton					
	Weight			kg	1		2		3	
Tank	Water volume			l	145	174	192	242	292	
	Material				Stainless steel (EN 1.4521)					
	Maximum water temperature			°C	75 (1)					
	Maximum water pressure			bar	10					
	Insulation	Heat loss		kWh/24h	1.1 (1)	1.2 (1)	1.3 (1)	1.4 (1)	1.6 (1)	
		Material				Polyurethane foam				
		Minimum thickness		mm	44.5					
	Energy efficiency class				B					
	Standing heat loss			W	45	50	55	60	68	
	Storage volume			l	145	174	192	242	292	
Heat exchanger	Domestic hot water	Quantity			1					
		Tube material				Stainless steel (EN 1.4521)				
		Face area		m²	1.050	1.400	1.800			
		Internal coil volume		l	4.9	6.5	8.2			
		Operating pressure		bar	10					
Booster heater	Quantity				1					
	Capacity			kW	3					
3-way valve	Coefficient of flow (kV)	Space heating		m³/h	12					
		Domestic hot water tank		m³/h	12					
		Unit		m³/h	12					
	Inlet			inch	RP 1"					
	Outlet	Type		inch	2 x RP 1"					
Temperature sensor	Cable length			m	12.0					
Piping connections	Water inlet heat exchanger diameter			inch	G 3/4" (female)					
	Water outlet heat exchanger diameter			inch	G 3/4" (female)					
	Cold water in	Diameter		inch	G 3/4" (female)					
	Hot water out	Diameter		inch	G 3/4" (female)					
	Recirculation connection			inch	G 3/4" (female)					
Safety devices	Item	01			Thermal cut out: 85°C					
		02			Temperature and pressure relief valve: 90-95°C					
	Temperature and pressure relief valve	Setting		°C	Temperature and pressure relief valve: 90-95°C					
General	Supplier/Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
2-2 Electrical Specifications					EKHWSU150D3V3	EKHWSU180D3V3	EKHWSU200D3V3	EKHWSU250D3V3	EKHWSU300D3V3	
Power supply	Phase				1~					
	Frequency			Hz	50					
	Voltage			V	230					
Current	Nominal running current (RLA)			A	13.0					
	Fuse	Size		A	20					
		Phase			1~					

2 Specifications

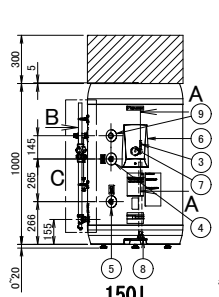
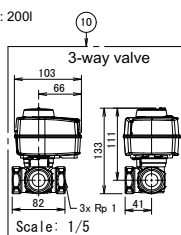
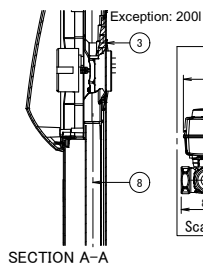
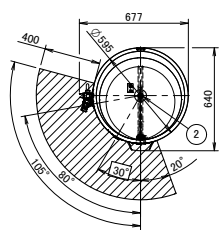
Notes

(1) Heatloss according to EN12897

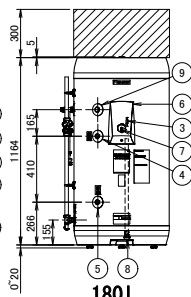
3 Dimensional drawings

3 - 1 Dimensional Drawings

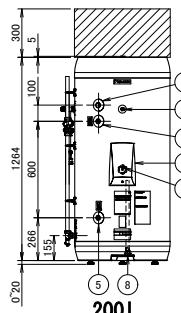
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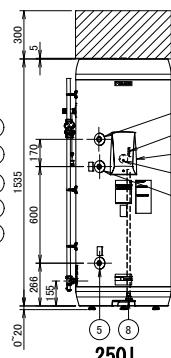
150l



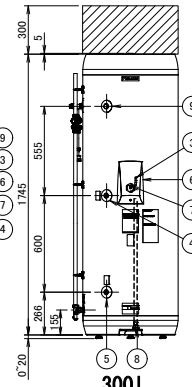
180l



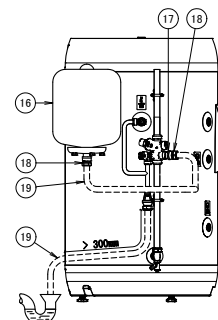
200l



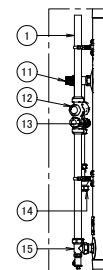
250l



300l



VIEW— B
EKEXPVES + DRAIN



DETAIL C
SCALE 1/10

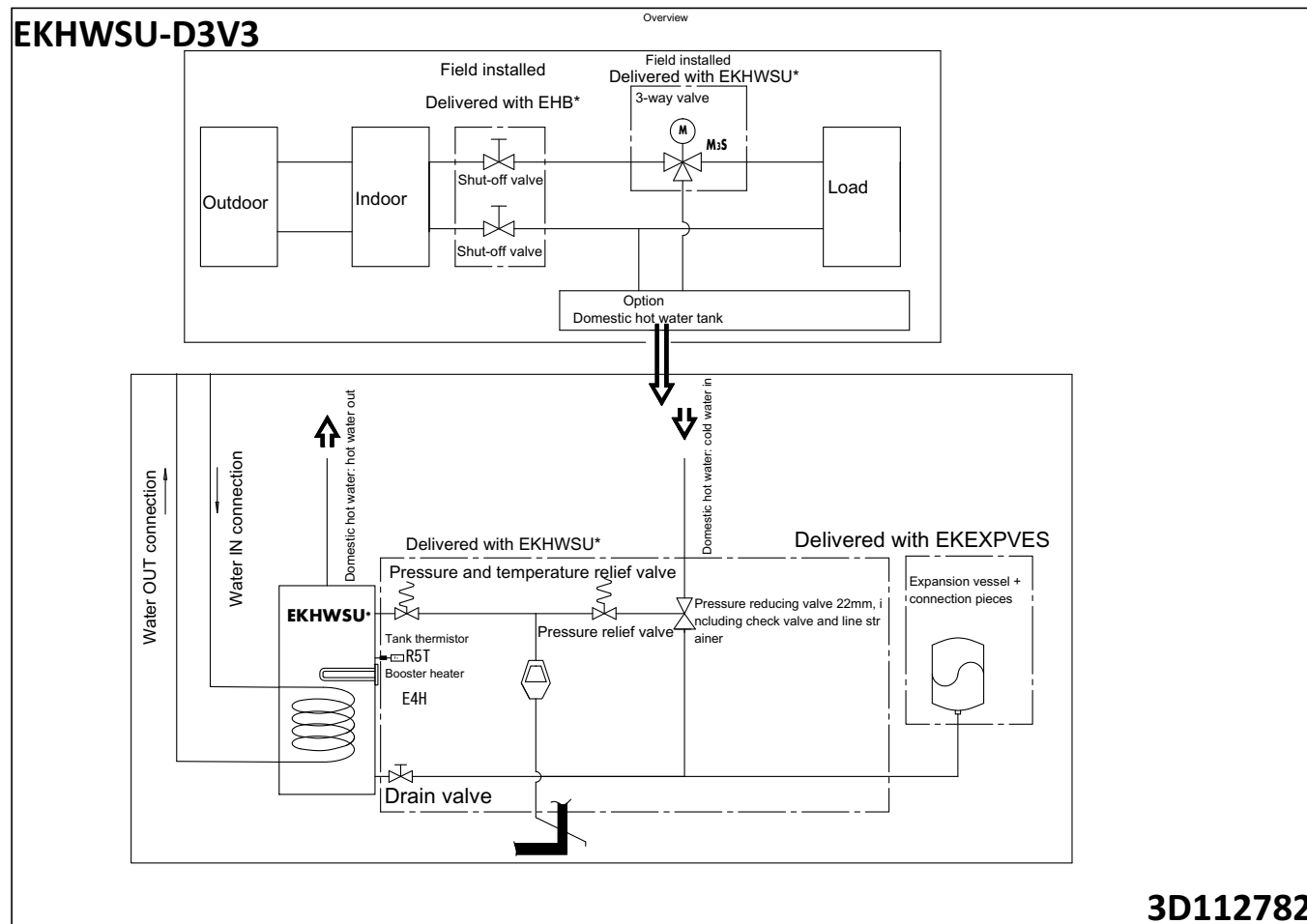
- ① Domestic hot water: cold water in 22mm
- ② Domestic hot water: hot water out G3/4"
- ③ Thermistor
- ④ Water IN connection (from indoor unit) G3/4" (female)
- ⑤ Water OUT connection (to indoor unit) G3/4" (female)
- ⑥ Switch box
- ⑦ Thermal protector booster heater
- ⑧ Wiring intake for booster heater power supply and thermal protection cable
- ⑨ Recirculation connection G3/4" (female)
- ⑩ 3-way valve

- ⑪ Pressure and temperature relief valve 15mm
 - ⑫ Pressure reducing valve 22mm - 22mm
 - ⑬ Expansion relief valve 15mm
 - ⑭ Tundish 22mm - 15mm
 - ⑮ Drain valve 22mm - 3/4G" (female)
- EKEXPVES**
- ⑯ Expansion vessel 3/4G" (male)
 - ⑰ Adaptor 3/4G" - 3/4G"
 - ⑱ Adaptor 22mm - 3/4G"
 - ⑲ Field piping
- ▨ Required space for service and installation

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4 Piping diagrams

4 - 1 Piping Diagrams



5 Wiring diagrams

5 - 1 Wiring Diagrams - Single Phase

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EKHWS-D3V3

NOTES to go through before starting the unit

- Earth wiring
- 15 : Wire number 15
- Field supply
- **/12.2 : Connection ** continues on page 12 column 2
- ① : Several wiring possibilities
- Option
- Wiring depending on model
- Not mounted in switch box
- PCB

LEGEND

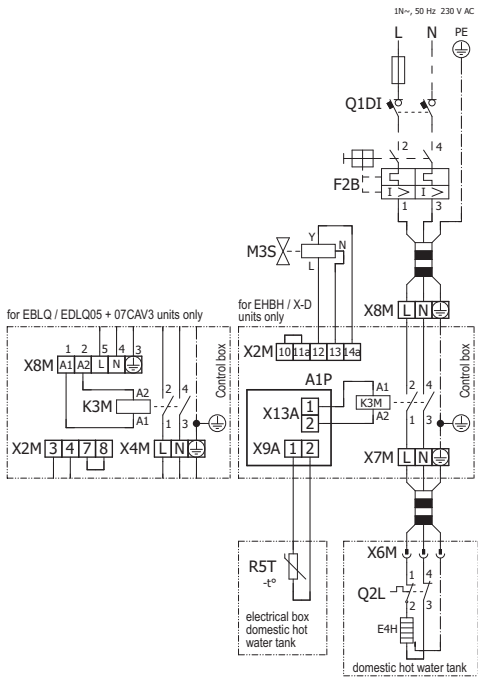
Part n°	Description
A1P	main PCB
E4H	booster heater
F2B	# overcurrent fuse booster heater
K3M	contactor booster heater
M3S	3 way valve for floorheating / domestic hot water
Q1DI	# earth leakage circuit breaker
Q2L	thermal protector booster heater
R5T	domestic hot water thermistor
X*M	terminal strip

* : optional
: field supply

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0	1	2	3	4	5	6	7	8	9
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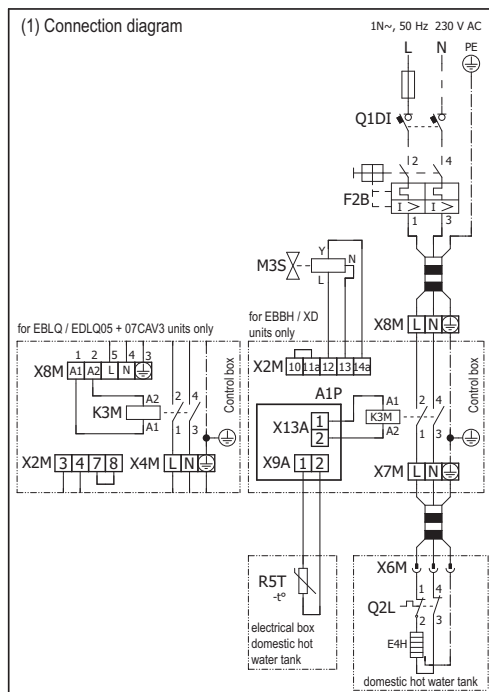
5 Wiring diagrams

5 - 1 Wiring Diagrams - Single Phase

EKHWSU-D3V3
EKHWS-D3V3

0	1	2	3	4	5	6	7	8	9
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