EEDEN08-720

technical data

Altherma

R-410A

EKHBH/X008AA

					EKHBH008AA	EKHBX008AA
TECHNICAL SPECIFICATIONS						
Outdoor units					ERHQ006AD	
Nominal input (Indoor only)				W	230	
Casing	Colour				RAL9010	
	Material				Epoxy polyester painted galvanised steel	
Dimensions	Packing	Height		mm	1225	
		Width		mm	660	
		Depth		mm	610	
	Unit	Height(1)		mm	922	
		Width		mm	502	
		Depth		mm	361	
Weight	Machine weight			kg	50	
	Gross Weight			kg	65	
Packing	Material				EPS	
	Material				Wood	
	Material				Carton	
	Material				PP (straps)	
	Weight			kg	10	
Main components	Pump	Type			Water cooled	
		Nr. of speed			3	
		Nominal ESP	Heating	kPa	49	49
		unit	Cooling	kPa		51
		Power input		W	130	
	Water side Heat exchanger	Type			Brazed plate	
		Qty			1	
		Water volume		l	0.67	
		Water flow rate Min.		l/min	12	
		Water flow	Heating (3)	l/min	16.5	16.5
		rate Nom.	Cooling (2)	l/min		14.7
		Water flow rate Max.		l/min		
		Insulation material			Polyurethane foam	
	Expansion vessel	Volume		l	10	
		Max. water pressure		bar	3	
		Pre pressure		bar	1	
	Water filter	Diameter perforations		mm	1	
		Material			Brass	
Water circuit	Piping connections diameter (7)			inch	G 1 (MALE)	
	Piping			inch	1-1/4"	
	Safety valve			bar	3	
	Manometer				Yes	
	Drain valve / Fill valve				Yes	
	Shut off valve				Yes	
	Air purge valve				Yes	
	Total water volume (6)			l	5.5	
Refrigerant Circuit	Gas side diameter			mm	15.9	
	Liquid side diameter			mm	6.35	
Sound Level	Sound Pressure (4)			dBA	28	
	Sound Power (8)			dBA	42	
Operation range	Ambient	Heating		℃	-20~25	-20~25
		Cooling		℃		10~43
	Waterside	Heating (5)		℃	15~50	15~50
		Cooling		℃		5~22

Outdoor units					ERHQ007AD	
Nominal input (Indoor only)				W	230	
Casing	Colour				RAL9010	
	Material				Epoxy polyester painted galvanised steel	
Dimensions	Packing	Height		mm	1225	
		Width		mm	660	
		Depth		mm	610	
	Unit	Height(1)		mm	922	
		Width		mm	502	
		Depth		mm	361	
Weight	Machine weight			kg	50	
	Gross Weight			kg	65	
Packing	Material				EPS	
	Material				Wood	
	Material				Carton	
	Material				PP (straps)	
	Weight			kg	10	
Main components	Pump	Type			Water cooled	
		Nr. of speed			3	
		Nominal ESP unit	Heating	kPa	45	45
			Cooling	kPa		49
		Power input		W	130	
	Water side Heat exchanger	Type			Brazed plate	
		Qty			1	
		Water volume		l	0.67	
		Water flow rate Min.		l/min	12	
		Water flow rate Nom.	Heating (3)	l/min	19.6	19.6
			Cooling (2)	l/min		16.8
		Water flow rate Max.		l/min		
		Insulation material			Polyurethane foam	
	Expansion vessel	Volume		l	10	
		Max. water pressure		bar	3	
		Pre pressure		bar	1	
	Water filter	Diameter perforations		mm	1	
		Material			Brass	
Water circuit	Piping connections diameter (7)			inch	G 1 (MALE)	
	Piping			inch	1-1/4"	
	Safety valve			bar	3	
	Manometer				Yes	
	Drain valve / Fill valve				Yes	
	Shut off valve				Yes	
	Air purge valve				Yes	
	Total water volume (6)			l	5.5	
Refrigerant Circuit	Gas side diameter			mm	15.9	
	Liquid side diameter			mm	6.35	
Sound Level	Sound Pressure (4)			dBA	28	
	Sound Power (8)			dBA	42	
Operation range	Ambient	Heating		℃	-20~25	-20~25
		Cooling		℃		10~43
	Waterside	Heating (5)		℃	15~50	15~50
		Cooling		℃		5~22
Outdoor units					ERHQ008AD	
Nominal input (Indoor only)				W	230	
Casing	Colour				RAL9010	
	Material				Epoxy polyester painted galvanised steel	
Dimensions	Packing	Height		mm	1225	
		Width		mm	660	
		Depth		mm	610	
	Unit	Height(1)		mm	922	
		Width		mm	502	
		Depth		mm	361	
Weight	Machine weight			kg	50	
	Gross Weight			kg	65	
Packing	Material				EPS	
	Material				Wood	
	Material				Carton	
	Material				PP (straps)	
	Weight			kg	10	
Main components	Pump	Type			Water cooled	
		Nr. of speed			3	
		Nominal ESP unit	Heating	kPa	38	38
			Cooling	kPa		48
		Power input		W	130	

	Water side Heat exchanger	Type			Brazed plate	
		Qty			1	
		Water volume		l	0.67	
		Water flow rate Min.		l/min	12	
		Water flow rate Nom.	Heating (3)	l/min	24.1	24.1
			Cooling (2)	l/min		17.4
		Water flow rate Max.		l/min		
		Insulation material			Polyurethane foam	
	Expansion vessel	Volume		l	10	
		Max. water pressure		bar	3	
		Pre pressure		bar	1	
	Water filter	Diameter perforations		mm	1	
		Material			Brass	
Water circuit	Piping connections diameter (7)			inch	G 1 (MALE)	
	Piping			inch	1-1/4"	
	Safety valve			bar	3	
	Manometer				Yes	
	Drain valve / Fill valve				Yes	
	Shut off valve				Yes	
	Air purge valve				Yes	
	Total water volume (6)			l	5.5	
Refrigerant Circuit	Gas side diameter			mm	15.9	
	Liquid side diameter			mm	6.35	
Sound Level	Sound Pressure (4)			dBA	28	
	Sound Power (8)			dBA	42	
Operation range	Ambient	Heating		℃	-20~25	-20~25
		Cooling		℃		10~43
	Waterside	Heating (5)		℃	15~50	15~50
		Cooling		℃		5~22
Notes					(1) With option kit EKHBDP installed: Height=936mm	
Notes					(2) Tamb 35℃ - LWE 7℃ (DT=5℃)	
Notes					(3) DB/WB 7℃/6℃-LWC 35℃(DT=5℃)	
Notes					(4) The sound pressure level is measured via a microphone at 1m from the unit. It is a relative value, depending on the distance and acoustic environment. The sound pressure level mentioned is valid for pump medium speed.	
Notes					(5) 15℃-25℃: BUH only, no Heatpump operation=during commissioning.	
Notes					(6) Including piping+PHE+backup heater/excluding expansion vessel.	
Notes					(7) Value mentioned is connection after ball valves. Connection at unit is G1 1/2 female	
Notes					(8) DB/WB 7℃/6℃-LWC 35℃(DT=5℃), medium pump speed	
ELECTRICAL SPECIFICATIONS						
Electric heater	Type				3V3	
	Power Supply	Phase			1~	
		Frequency		Hz	50	
		Voltage		V	230	
	Current	Running Current		A	13	
		Zmax	List		No requirements	
			Text			
		Zmax electric heater + booster heater (EKHWS* Models)	List			
			Text		0.25 + j0.15	
	Voltage Range	Minimum			-10%	
		Maximum			+10%	
	Wiring Connections	For power supply backup	Quantity of wires		3G	
			Type of wires		Select diameter and type according to national and local regulations	
Electric heater	Type				6V3	

	Power Supply	Phase			1~
		Frequency		Hz	50
		Voltage		V	230
	Current	Running Current		A	26
		Zmax	List		
			Text		0.25 + j0.15
		Zmax electric heater + booster heater (EKHWS* Models)	List		
			Text		0.15 + j0.09
	Voltage Range	Minimum			-10%
		Maximum			+10%
	Wiring Connections	For power supply backup	Quantity of wires		3G
			Type of wires		Select diameter and type according to national and local regulations
Electric heater	Type				6WN
	Power Supply	Phase			3~
		Frequency		Hz	50
		Voltage		V	400
	Current	Running Current		A	8.7
		Zmax	List		No requirements
			Text		
		Zmax electric heater +	List		No requirements
			Text		
	Voltage Range	Minimum			-10%
		Maximum			+10%
	Wiring Connections	For power supply backup	Quantity of wires		4G
			Type of wires		Select diameter and type according to national and local regulations
Electric heater	Type				6T1
	Power Supply	Phase			3~
		Frequency		Hz	50
		Voltage		V	230
	Current	Running Current		A	15.1
		Zmax	List		Out of scope
			Text		
		Zmax electric heater + booster heater (EKHWS* Models)	List		Out of scope
			Text		
	Voltage Range	Minimum			-10%
		Maximum			+10%
	Wiring Connections	For power supply backup	Quantity of wires		4G
			Type of wires		Select diameter and type according to national and local regulations
Electric heater	Type				9WN
	Power Supply	Phase			3~
		Frequency		Hz	50
		Voltage		V	400
	Current	Running Current		A	13
		Zmax	List		No requirements
			Text		
		Zmax electric heater + booster heater (EKHWS* Models)	List		No requirements
			Text		
	Voltage Range	Minimum			-10%
		Maximum			+10%
	Wiring Connections	For power supply backup	Quantity of wires		4G
			Type of wires		Select diameter and type according to national and local regulations
Electric heater	Type				9T1
	Power Supply	Phase			3~
		Frequency		Hz	50

		Voltage		V	230
	Current	Running Current		A	22.6
		Zmax	List		Out of scope
			Text		
		Zmax electric heater + booster heater (EKHWS* Models)	List		Out of scope
			Text		
	Voltage Range	Minimum			-10%
		Maximum			+10%
	Wiring Connections	For power supply backup	Quantity of wires		4G
			Type of wires		Select diameter and type according to national and local regulations
Wiring Connections	Connection type				For power supply connection to Optional Warm Water Tank + Q2L
	Quantity of wires				3G
	Type of wires				Select diameter and type according to national and local regulations
					For more details of the voltage range and current refer to installation manual EKHBH/X008AA*
	Connection type				For connection with R5T
	Quantity of wires				Wire included in option EKHWS*
	Type of wires				Wire included in option EKHWS*
	Connection type				For connection with A3P
	Quantity of wires				Depends on thermostat type, refer to installation manual EKHBH/X008AA*
	Type of wires				Select diameter and type according to national and local regulations
					Voltage: 230V/Maximum current: 100mA/Minimum 0,75 mm²
	Connection type				For connection with M2S
	Quantity of wires				3G
	Type of wires				Select diameter and type according to national and local regulations
					Voltage: 230V/Maximum current: 100mA/Minimum 0,75 mm²
	Connection type				For connection with M3S
	Quantity of wires				3G or 4G
	Type of wires				Select diameter and type according to national and local regulations
					Voltage: 230V/Maximum current: 100mA/Minimum 0,75 mm²

Factory mounted optional equipment for EKHB(H/X)008AA**

Reference	Description												
	Heating only model EKHBH008A... Reversible model EKHBX008A...	A3V3	A3V3	A6V3	A6V3	A6V3	A6WN	A6T1	A6T1	A9WN	A9WN	A9T1	A9T1
3V3	Back up heater 3kW 1~230 V	○	○	—	—	—	—	—	—	—	—	—	—
6V3	Back up heater 6kW 1~230 V	—	—	○	○	—	—	—	—	—	—	—	—
6W1	Back up heater 6kW 3~400 V	—	—	—	—	○	○	—	—	—	—	—	—
6T1	Back up heater 6kW 3~230 V	—	—	—	—	—	—	○	○	—	—	—	—
9W1	Back up heater 9kW 3~400 V	—	—	—	—	—	—	—	—	○	○	—	—
9T1	Back up heater 9kW 3~230 V	—	—	—	—	—	—	—	—	—	—	○	○

Outdoor combination table for EKHB(H/X)008AA**

		ERHQ006ADV3	ERHQ007ADV3	ERHQ008ADV3
EKHBH008AA*	Heating only indoor unit	○	○	○
EKHBX008AA*	Reversible indoor unit	○	○	○

Kit availability for ERHQ006AD*

		ERHQ006ADV3	ERHQ007ADV3	ERHQ008ADV3
EKBPHT16	Bottom plate heater (1)	○	○	○

Kit availability for EKHB(H/X)008AA*

Reference	Description												
	Heating only model EKHBH008A... Reversible model EKHBX008A...	A3V3	A3V3	A6V3	A6V3	A6WN	A6WN	A6T1	A6T1	A9WN	A9WN	A9T1	A9T1
EKHWS150A3V3	Domestic hot water tank 150l 1-230V	○	○	○	○	○ (*)	○ (*)	○	○	○ (*)	○ (*)	○	○
EKHWS200A3V3	Domestic hot water tank 200l 1-230V	○	○	○	○	○ (*)	○ (*)	○	○	○ (*)	○ (*)	○	○
EKHWS300A3V3	Domestic hot water tank 300l 1-230V	○	○	○	○	○ (*)	○ (*)	○	○	○ (*)	○ (*)	○	○
EKHWS200A3Z2	Domestic hot water tank 200l 2-400V	—	—	—	—	○	○	—	—	○	○	—	—
EKHWS300A3Z2	Domestic hot water tank 300l 2-400V	—	—	—	—	○	○	—	—	○	○	—	—
EKHWSU150A3V3	Domestic hot water tank 150l 1-230V	○	○	○	○	○ (*)	○ (*)	○	○	○ (*)	○ (*)	○	○
EKHWSU200A3V3	Domestic hot water tank 200l 1-230V	○	○	○	○	○ (*)	○ (*)	○	○	○ (*)	○ (*)	○	○
EKHWSU300A3V3	Domestic hot water tank 300l 1-230V	○	○	○	○	○ (*)	○ (*)	○	○	○ (*)	○ (*)	○	○
EKHBDP	Option kit for condensate free cooling operation	—	○	—	○	—	○	—	○	—	○	—	○
EKRP1HB	Digital I/O PCB (2)	○	○	○	○	○	○	○	○	○	○	○	○

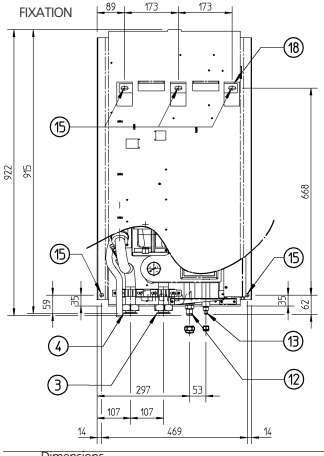
(*) If neutral line is available

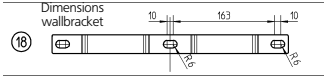
Kit available for EKHWS*

Reference	Description						
	EKHWS... EKHWSU...	15A3V3	200A3V3/Z2	300A3V3/Z2	150A3V3	200A3V3	300A3V3
EKUHWA	Option kit for UK EKHWSU150-300V3	—	—	—	○	○	○
EKSOLHWAV1	Solarkit (3)	○	○	○	○	○	○
EKWBSWW150	Wall bracket for EKSWW150V3	○	—	—	○	—	—

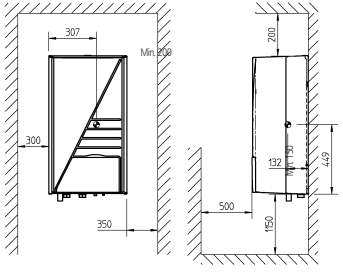
Remarks: Other combinations than mentioned in this option TW are not guaranteed.
(1) Heater tape that can be fixed on the bottom plate to prevent ice formation.
(2) Address card that provides two additional output connections (remote alarm and remote ON/OFF signalisation). In EKSOLHWAV1, the same digital I/O PCB as for EKRP1HB is already included.
(3) Kit to be mounted on domestic hot water tank that provides connection to solar panels for additional water heating.

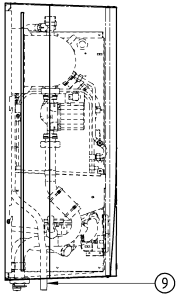
EKHBH008AA

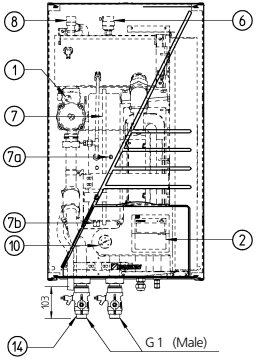


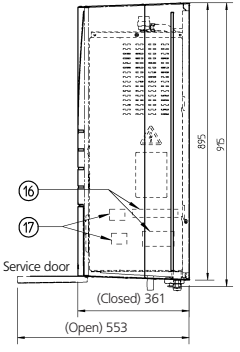


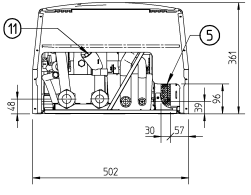
Minimum space for service & ventilation





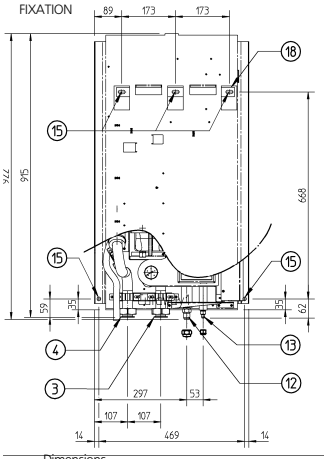


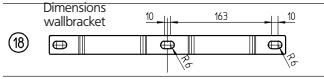




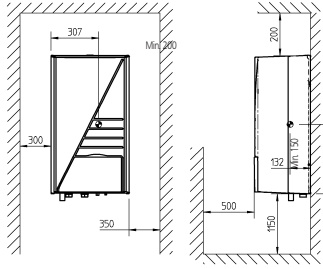
- Center of gravity
- ① Pump + switch for speed setting
- ② Remocon
- ③ Water IN connection G 1 1/2 (female)
- ④ Water OUT connection G 1 1/2 (female)
- ⑤ Power supply intake (+ domestic hot water tank)
- ⑥ Air purge
- ⑦ Expansion vessel+⑦a nipple+⑦b Drain
- ⑧ Blow off valve
- ⑨ Blow off drain (flexible hose ϕ 20)
- ⑩ Pressure gauge
- ⑪ Water filter
- ⑫ Suction pipe connection ϕ 15.9 flare connection
- ⑬ Liquid pipe connection ϕ 6.35 flare connection
- ⑭ Shut off valves with drain/fill valve (accessory delivered with unit)
- ⑮ Holes for fixation
- ⑯ Switchbox terminals
- ⑰ Switchbox terminals option domestic hot water tank
- ⑱ Wallbracket

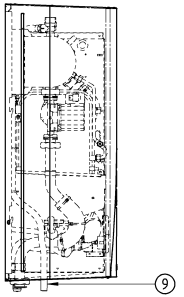
EKHBX008AA

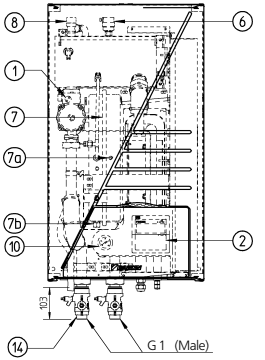


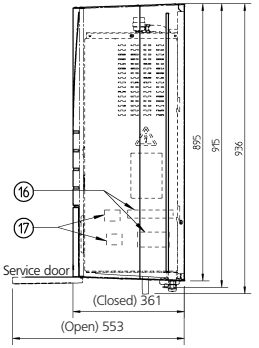


Minimum space for service & ventilation

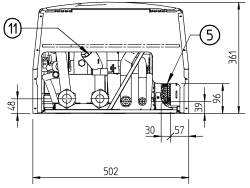


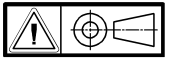






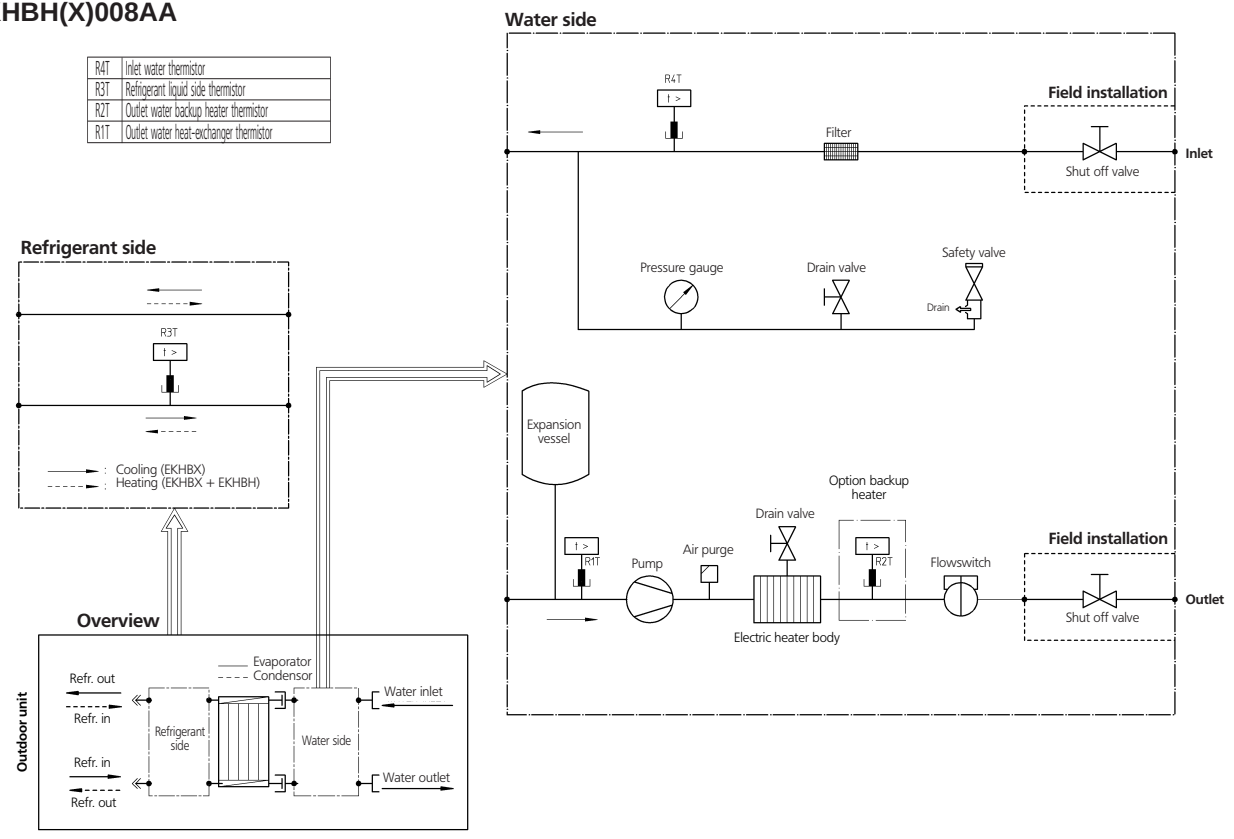
Center of gravity
① Pump + switch for speed setting
② Remocon
③ Water IN connection G 1 1/2 (female)
④ Water OUT connection G 1 1/2 (female)
⑤ Power supply intake (+ domestic hot water tank)
⑥ Air purge
⑦ Expansion vessel+㉑nipple+㉒Drain
⑧ Blow off valve
⑨ Blow off drain (flexible hose ϕ 20)
⑩ Pressure gauge
⑪ Water filter
⑫ Suction pipe connection ϕ 15.9 flare connection
⑬ Liquid pipe connection ϕ 6.35 flare connection
⑭ Shut off valves with drain/fill valve (accessory delivered with unit)
⑮ Holes for fixation
⑯ Switchbox terminals
⑰ Switchbox terminals option domestic hot water tank
⑱ Wallbracket





EKHBH(X)008AA

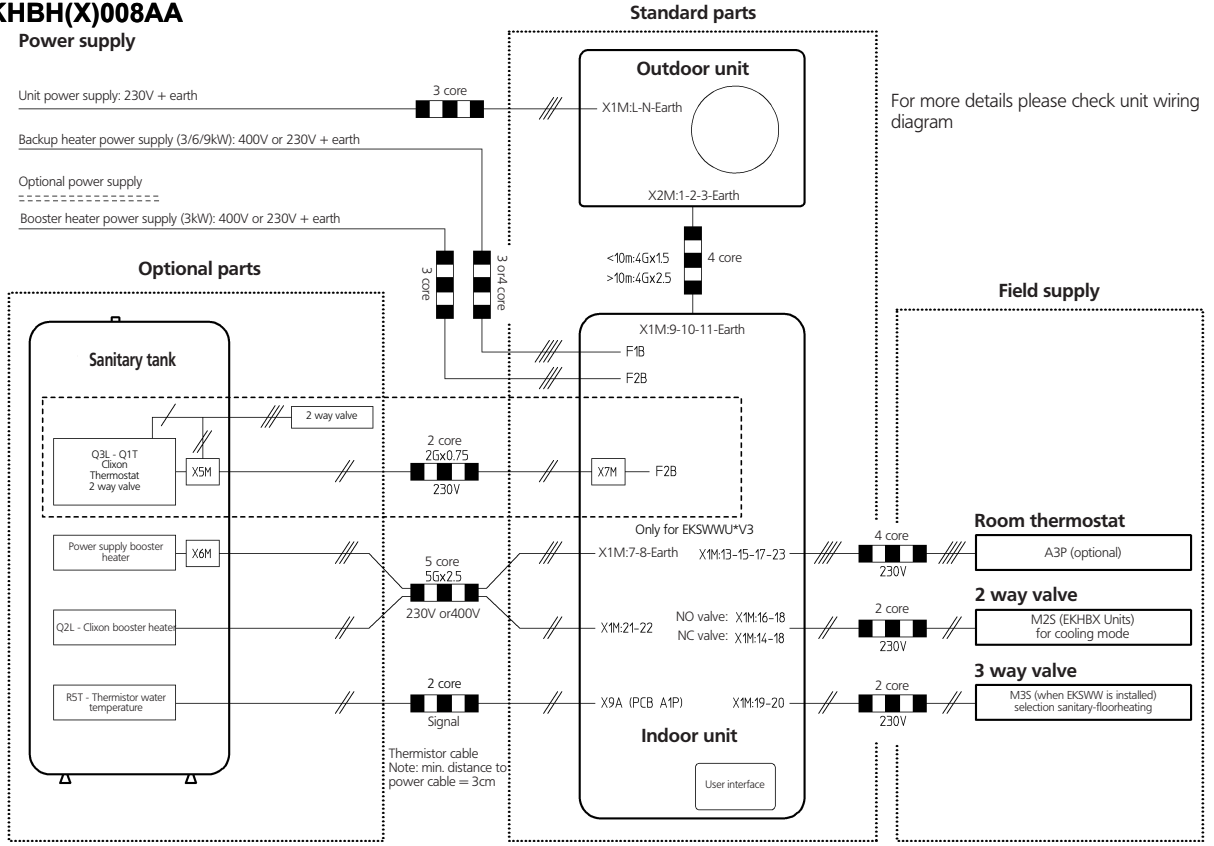
R4T	Inlet water thermistor
R3T	Refrigerant liquid side thermistor
R2T	Outlet water backup heater thermistor
R1T	Outlet water heat-exchanger thermistor



Check valve — Flare connection — Screw connection — Flange connection — Pinched pipe — Spinned pipe

EKHBH(X)008AA

Power supply



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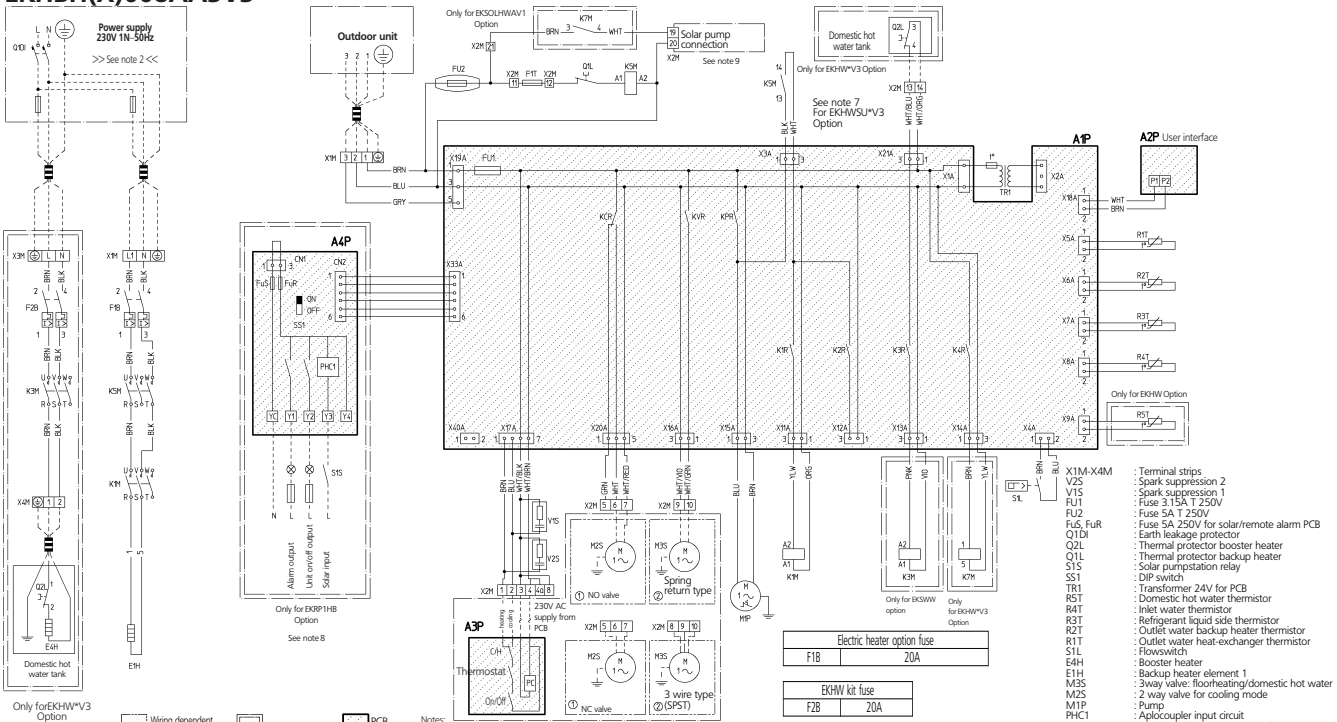
EKHBH(X)008AA3V3



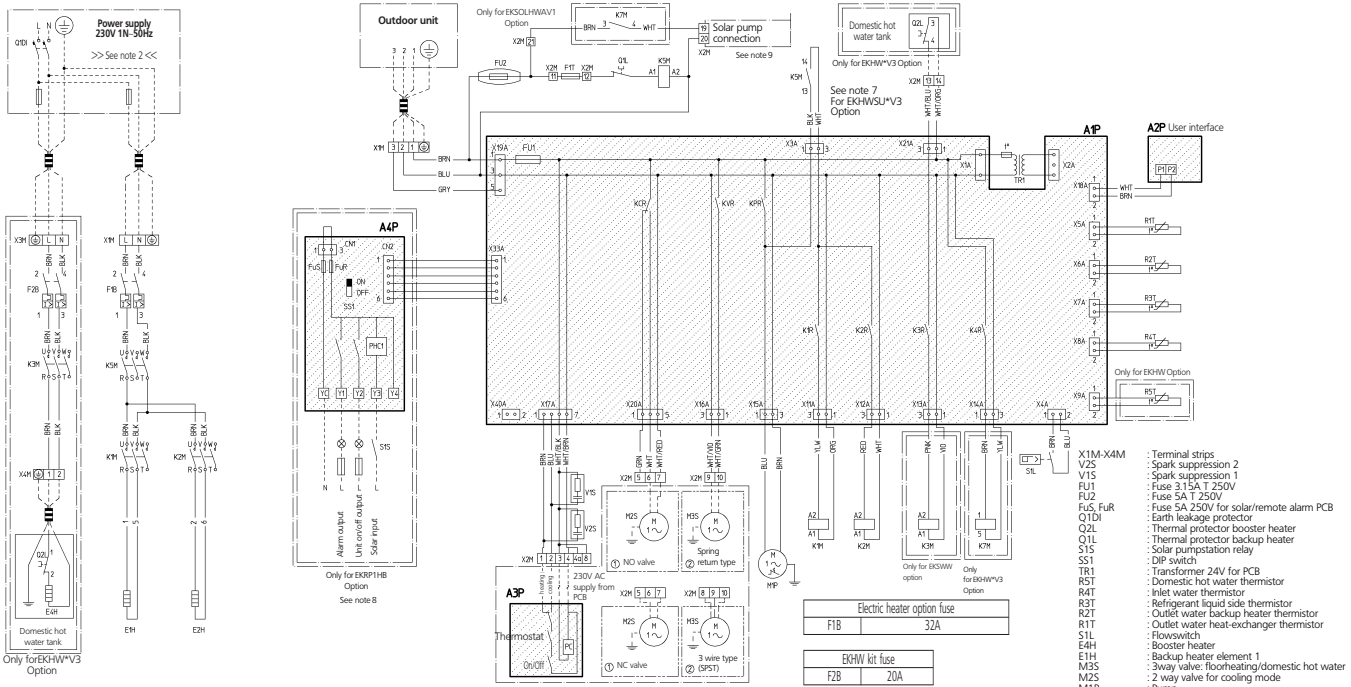
Electric heater option fuse	
F1B	20A

EKHW kit fuse	
F2B	20A

X1M-X4M	: Terminal strips
V2S	: Spark suppression 2
V1S	: Spark suppression 1
FU1	: Fuse 3.15A T 250V
FU2	: Fuse 5A T 250V
FuS, FuR	: Fuse 5A 250V for solar/remote alarm PCB
Q1DI	: Earth leakage protector
Q2L	: Thermal protector booster heater
Q1L	: Thermal protector backup heater
S1S	: Solar pumpstation relay
SS1	: DIP switch
TR1	: Transformer 24V for PCB
R5T	: Domestic hot water thermistor
R4T	: Inlet water thermistor
R3T	: Refrigerant liquid side thermistor
R2T	: Outlet water backup heater thermistor
R1T	: Outlet water heat-exchanger thermistor
S1L	: Flowswitch
E4H	: Booster heater
E1H	: Backup heater element 1
M3S	: 3way valve: floorheating/domestic hot water
M2S	: 2 way valve for cooling mode
M1P	: Pump
PHC1	: Aplocoupler input circuit
K5M	: Contactor for backup heater all-pole disconnection
K7M	: Relay for solar pump
K3M	: Contactor booster heater
K1M	: Contactor backup heater Step 1
F2B	: Fuse booster heater
F1B	: Fuse backup heater
F1T	: Thermal fuse Back up heater
A4P	: Solar/remote alarm PCB
A3P	: Thermostat (PC-power circuit)
A2P	: User interface PCB
A1P	: Main PCB

Notes:
1 This wiring diagram only applies to the indoor unit.
2 Use one and same dedicated power supply for indoor ubit, outdoor unit and EKHW option.
3 Field wiring No/No normal open/normal closed SPST single pole single throw.
4 Terminal strip Connector Terminal Protective earth
5 Do not operate the unit by short-sircuiting any protection device.
6 BLK: Black / WHT: White / RED: Red / BLU: Blue / PINK: Pink / YLW: Yellow
BRN: Brown / GRY: Grey / GRN: Green / ORG: Orange / VIO: Violet
7 For EKHWSU*V3, refer to option manual
8 Option PCB works with an external 230V AC power supply unit.
9 For EKSOLHWAV1, refer to option manual

EKHBH(X)008AA6V3



Electric heater option fuse	
F1B	32A

EKHW kit fuse	
F2B	20A

Wiring dependent on model
Option
PCB
Field wiring
Field wiring
BRN Wire colour

Notes:
1 This wiring diagram only applies to the indoor unit.
2 Use one and same dedicated power supply for indoor ubit, outdoor unit and EKHW option.
3 ≡◫◫≡Field wiring No/No normal open/normal closed SPST single pole single throw.
4 ◫◫◫◫Terminal strip oo:Connector —○—Terminal ⏚Protective earth
5 Do not operate the unit by short-sircuiting any protection device.
6 BLK: Black / WHT: White / RED: Red / BLU: Blue / PINK: Pink / YLW: Yellow
BRN: Brown / GRY: Grey / GRN: Green / ORG: Orange / VIO: Violet
7 For EKHWSU*V3, refer to option manual
8 Option PCB works with an external 230V AC power supply unit.
9 For EKSOLHWAV1, refer to option manual

X1M-X4M : Terminal strips
V2S : Spark suppression 2
V1S : Spark suppression 1
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FU2 : Fuse 5A T 250V
FuS, FuR : Fuse 5A 250V for solar/remote alarm PCB
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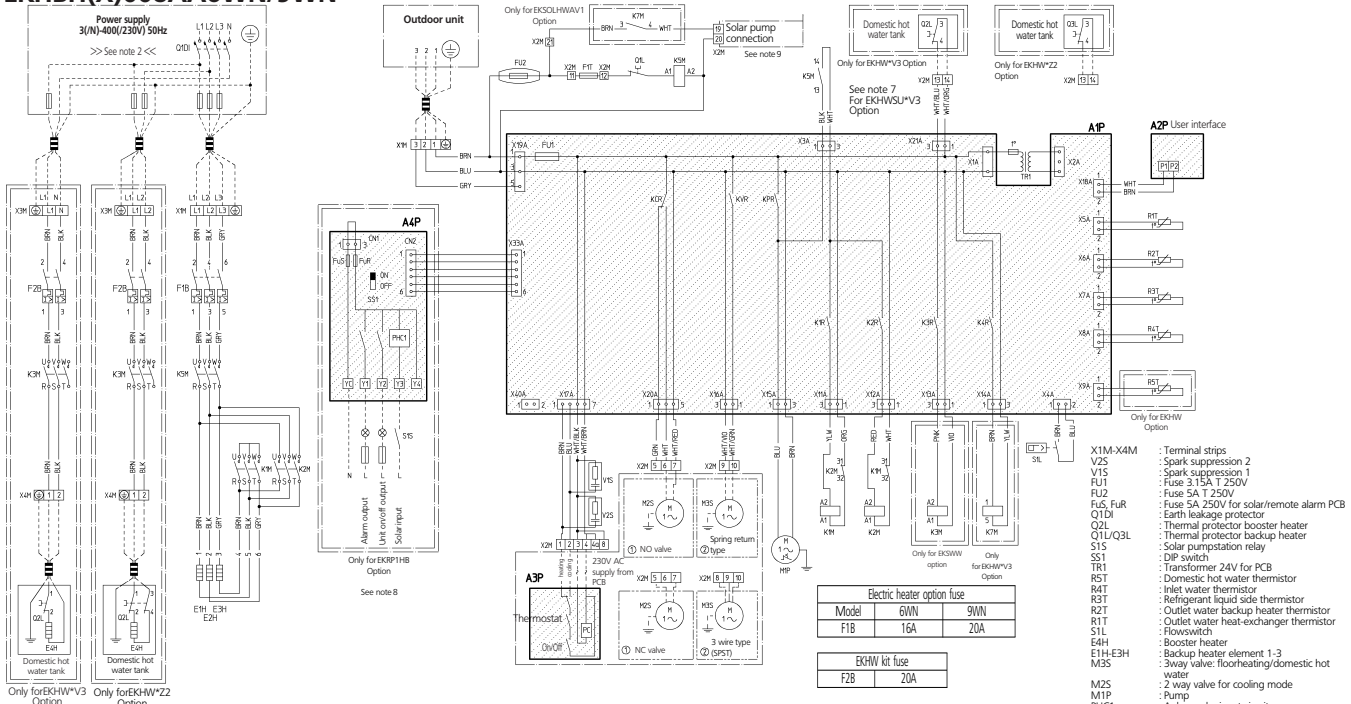
Q2L : Thermal protector booster heater
Q1L : Thermal protector backup heater
S1S : Solar pumpstation relay
SS1 : DIP switch
TR1 : Transformer 24V for PCB
R5T : Domestic hot water thermistor
R4T : Inlet water thermistor
R3T : Refrigerant liquid side thermistor
R2T : Outlet water backup heater thermistor
R1T : Outlet water heat-exchanger thermistor
S1L : Flowswitch
E4H : Booster heater
E1H : Backup heater element 1
M3S : 3way valve: floorheating/domestic hot water
M2S : 2 way valve for cooling mode
M1P : Pump
PHC1 : Aplocoupler input circuit
K5M : Contactor for backup heater all-pole disconnection
K7M : Relay for solar pump
K4M : Pump Relay
K3M : Contactor booster heater
K1M : Contactor backup heater Step 1
F2B : Fuse booster heater
F1B : Fuse backup heater
F1T : Thermal fuse Back up heater
A4P : Solar/remote alarm PCB
A3P : Thermostat (PC-power circuit)
A2P : User interface PCB
A1P : Main PCB

EKHBH(X)008AA6WN/9WN



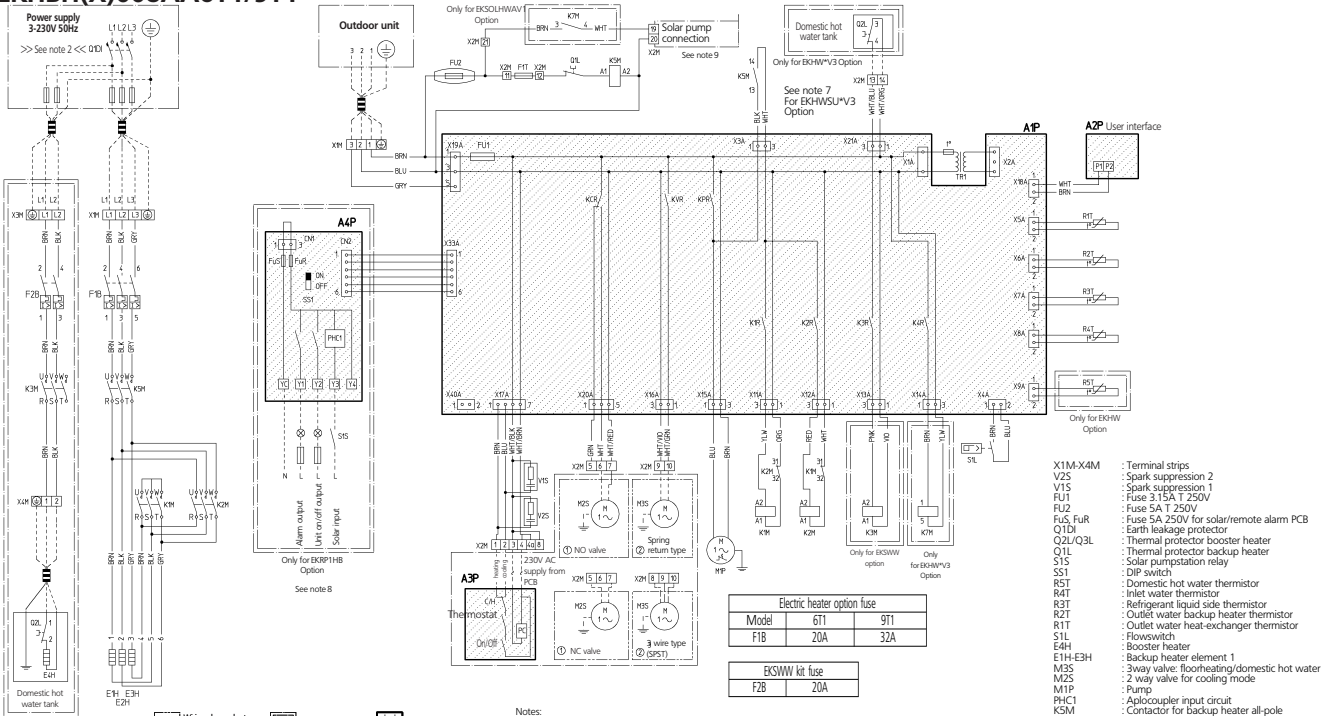
Electric heater option fuse		
Model	6WN	9WN
F1B	16A	20A

EKHW kit fuse	
F2B	20A

Notes:
1 This wiring diagram only applies to the indoor unit.
2 Use one and same dedicated power supply for indoor ubit, outdoor unit and EKHW option.
3 Field wiring No/No normal open/normal closed SPST, single pole single throw.
4 Terminal strip Connector Terminal Protective earth
5 Do not operate the unit by short-sircuiting any protection device.
6 BLK: Black / WHT: White / RED: Red / BLU: Blue / PINK: Pink / YLW: Yellow
BRN: Brown / GRY: Grey / GRN: Green / ORG: Orange / VIO: Violet
7 For EKHWSU*V3, refer to option manual
8 Option PCB works with an external 230V AC power supply unit.
9 For EKSOLHWAV1, refer to option manual

X1M-X4M	: Terminal strips
V2S	: Spark suppression 2
V1S	: Spark suppression 1
FU1	: Fuse 3.15A T 250V
FU2	: Fuse 5A T 250V
FuS, FuR	: Fuse 5A 250V for solar/remote alarm PCB
Q1DI	: Earth leakage protector
Q2L	: Thermal protector booster heater
Q1L/Q3L	: Thermal protector backup heater
S1S	: Solar pumpstation relay
SS1	: DIP switch
TR1	: Transformer 24V for PCB
R5T	: Domestic hot water thermistor
R4T	: Inlet water thermistor
R3T	: Refrigerant liquid side thermistor
R2T	: Outlet water backup heater thermistor
R1T	: Outlet water heat-exchanger thermistor
S1L	: Flowswitch
E4H	: Booster heater
E1H-E3H	: Backup heater element 1-3
M3S	: 3way valve: floorheating/domestic hot water
M2S	: 2 way valve for cooling mode
M1P	: Pump
PHC1	: Aplocoupler input circuit
K5M	: Contactor for backup heater all-pole disconnection
K7M	: Relay for solar pump
K3M	: Contactor booster heater
K1M/K2M	: Contactor backup heater Step 1/2
F2B	: Fuse booster heater
F1B	: Fuse backup heater
F1T	: Thermal fuse Back up heater
A4P	: Solar/remote alarm PCB
A3P	: Thermostat (PC-power circuit)
A2P	: User interface PCB
A1P	: Main PCB

EKHBH(X)008AA6T1/9T1



Electric heater option fuse		
Model	6T1	9T1
F1B	20A	32A

EKSWW kit fuse	
F2B	20A

Notes:
1 This wiring diagram only applies to the indoor unit.
2 Use one and same dedicated power supply for indoor ubit, outdoor unit and EKHW option.
3 Field wiring No/No normal open/normal closed SPST single pole single throw.
4 Terminal strip Connector Terminal Protective earth
5 Do not operate the unit by short-sircuiting any protection device.
6 BLK: Black / WHT: White / RED: Red / BLU: Blue / PINK: Pink / YLW: Yellow
BRN: Brown / GRY: Grey / GRN: Green / ORG: Orange / VIO: Violet
7 For EKHWSU*V3, refer to option manual
8 Option PCB works with an external 230V AC power supply unit.
9 For EKSOLHWAV1, refer to option manual

X1M-X4M : Terminal strips
V2S : Spark suppression 2
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FU1 : Fuse 3.15A T 250V
FU2 : Fuse 5A T 250V
FuS, FuR : Fuse 5A 250V for solar/remote alarm PCB
Q1DI : Earth leakage protector
Q2L/Q3L : Thermal protector booster heater
Q1L : Thermal protector backup heater
S1S : Solar pumpstation relay
SS1 : DIP switch
R5T : Domestic hot water thermistor
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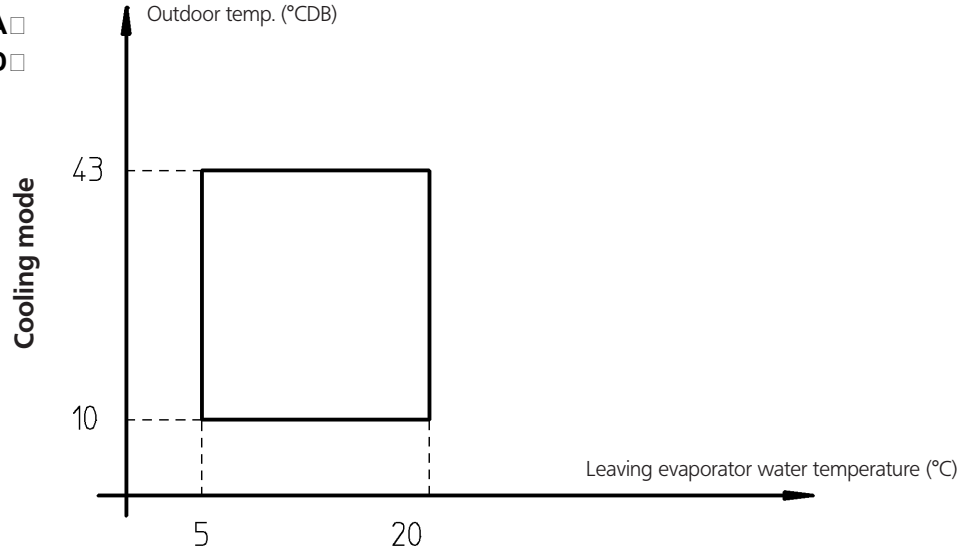
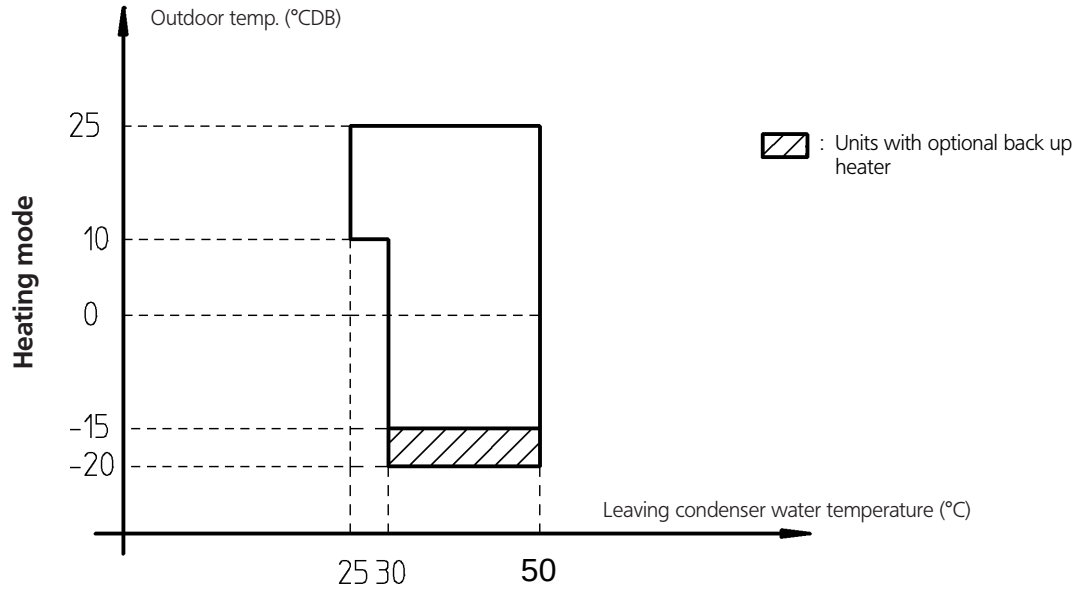
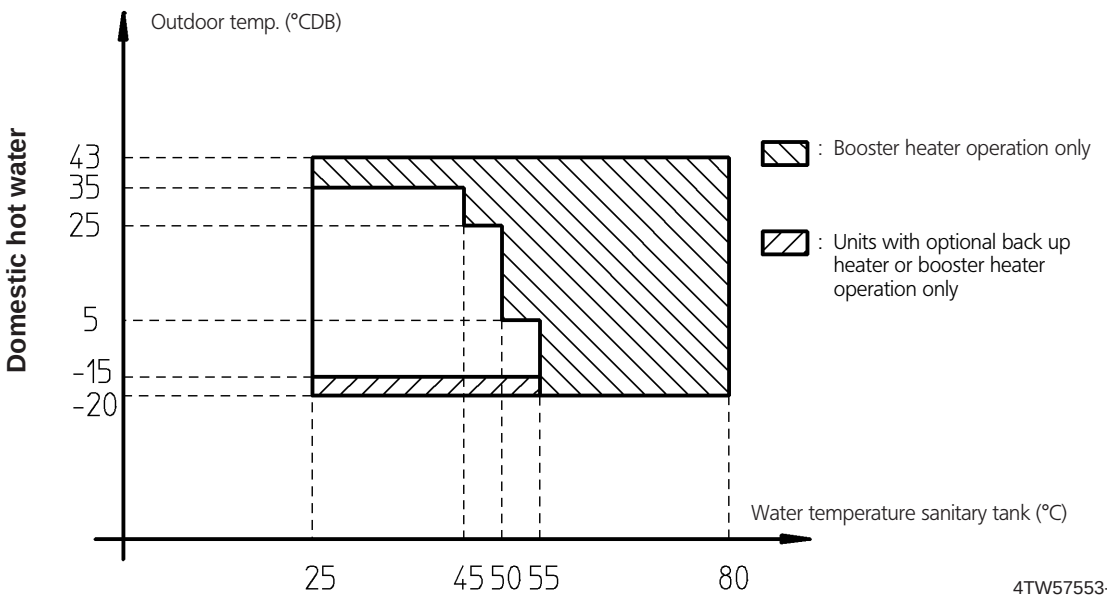
R2T : Outlet water backup heater thermistor
R1T : Outlet water heat-exchanger thermistor
S1L : Flowswitch
E4H : Booster heater
E1H-E3H : Backup heater element 1
M3S : 3way valve: floorheating/domestic hot water
M2S : 2 way valve for cooling mode
M1P : Pump
PHC1 : Aplocoupler input circuit
K5M : Contactor for backup heater all-pole disconnection
K7M : Relay for solar pump
K3M : Contactor booster heater
K1M/K2M : Contactor backup heater Step 1
F2B : Fuse booster heater
F1B : Fuse backup heater
F1T : Thermal fuse Back up heater
A4P : Solar/remote alarm PCB
A3P : Thermostat (PC-power circuit)
A2P : User interface PCB
A1P : Main PCB

EKHBH(X)008AA□
ERHQ006-008AD□

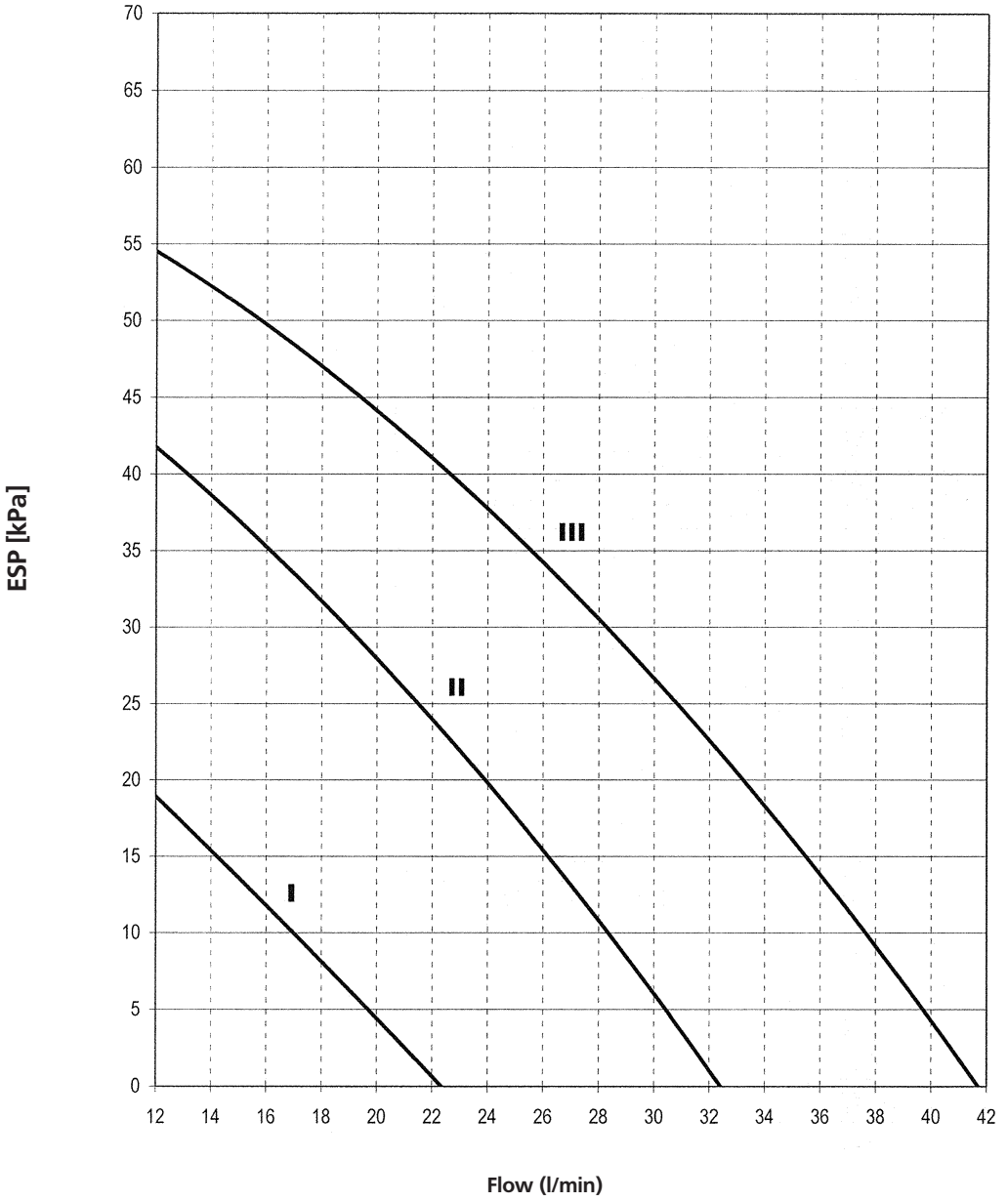






4TW57553-1A

EKHBH(X)008AA



III: High speed
II: medium speed
I: Low speed

ESP: External static pressure
Flow: waterflow through the unit

Warning:
1. Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.
2. Water quality must be according to EN directive EC 98/83 EC.