

High temperature
hydrobox for VRV
Technical data book
HXHD-A8



HXHD125A8V1B
HXHD200A8Y1B

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HXHD-A8

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1 Features

1 - 1 HXHD-A8

For efficient hot water production and space heating

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- › 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



2 Specifications

1 - 1 HXHD-A8

Technical specifications					HXHD125A8			HXHD200A8			
Heating capacity	Nom.		kW		14.0 (1)			22.4 (1)			
Casing	Colour				Metallic grey						
	Material				Precoated sheet metal						
Dimensions	Unit	Height	mm		705						
		Width	mm		600						
		Depth	mm		695						
	Packed unit	Height	mm		860						
		Width	mm		680						
		Depth	mm		800						
Weight	Unit	kg		92.0			147				
	Packed unit	kg		103			156				
Packing	Material				EPS / Cardboard / MDF / Wood (pallet) / Metal						
	Weight				8.75						
Refrigerant side heat exchanger	Type				Plate heat exchanger						
	Quantity				1						
	Plates	Quantity		66			60				
	Material				AISI 316			AISI 304			
	Insulation material				Felt type						
Pump	Nr of speeds				Inverter controlled						
	Nominal	Heating	kPa		46.6 (2)			68.8 (3)			
	ESP unit										
Water side Heat exchanger	Water flow rate	Min.	l/min		5.00			15.0			
	Heating	Heating	Nom.	l/min	40.1 (2)			50.0 (3)			
		Type	Plate heat exchanger								
	Quantity				1.00						
	Plates	Quantity		72.0			48.0				
	Material				AISI 316						
	Water volume				2.20			2.50			
	Insulation material				Felt type						
	Expansion vessel	Volume				7			12		
Max. water pressure				3							
Pre pressure				1							
Water filter	Diameter perforations				mm			1.00			
	Material				Brass						
Cascade compressor	Quantity				1						
	Motor	Type				Hermetically sealed swing compressor			Hermetically sealed scroll compressor		
	Starting method				Inverter compressor						
Water circuit	Piping connections diameter				inch		G 1" (female)				
	Piping				inch		1"				
	Safety valve				bar		3				
	Manometer				Yes						
	Drain valve / fill valve				Yes						
	Shut off valve				Yes						
	Air purge valve				Yes						
	Heating water system	Water volume	Max.	l	200			400			
			Min.	l	20						
Refrigerant	Type				R-134a						
	Charge				kg			2.00			
Refrigerant circuit	Gas side diameter				mm			12.7			
	Liquid side diameter				mm			9.52			
	High pressure side	Design pressure			bar			38			
Refrigerant oil	Charged volume				l		0.750			1.50	
	Type				FVC50K			Daphne FVC68D			
Sound power level	Nom.				dBA		55.0 (4)			60.0 (4)	
Sound pressure level	Nom.				dBA		42.0 (4) / 43.0 (5)			46.0 (4) / 46.0 (5)	
	Night quiet mode	Level 1			dBA		38 (4)			45 (4)	
Operation range	Heating	Ambient	Min.	°C	-20.0						
			Max.	°C	20 / 20 (6)						
		Water side	Min.	°C	25						
			Max.	°C	80.0						
	Domestic hot water	Ambient	Min.	°CDB	-20.0						
			Max.	°CDB	43.0						
		Water side	Min.	°C	45						
			Max.	°C	75						
Installation place					Indoor						

2 Specifications

1 - 1 HXHD-A8

2

Electrical specifications					HXHD125A8		HXHD200A8	
Power supply	Phase				1~		3~	
	Frequency				Hz		50	
	Voltage				V		220-240	
	Voltage range		Min.		%		-10	
	Max.		%				6	
Current	Zmax		Text		Ω		0.46 / See note 7 / See note 8 / See note 9	
	Minimum		Ssc value		kVa		1459 / See note 10	
	Maximum running current		Heating		A		16.5	
	Recommended fuses				A		20	
Multi tenant	Power supply		Voltage		V		24.0	
			Voltage range		Min.		%	
			Max.		%		-20.0	
	Current		Maximum running current		A		20.0	
			Recommended fuses		A		1.00	
Wiring connections	For power supply		Quantity		2G		4G	
			Type of wires		Select diameter and type according to national and local regulations			
	Benefit kWh rate		Quantity		2G+2G		4G+2G	
	power supply installations		Type of wires		Select diameter and type according to national and local regulations			
	For power supply multi tenant		Quantity		2G		-	
			Remark		Select diameter and type according to national and local regulations		-	
	For connection with outdoor unit		Quantity		2			
		Remark		F1 + F2				
Power supply intake					Both indoor and outdoor unit			

(1)EW 40°C; LW 45°C; Dt 5°C; ambient conditions: 7°CDB/6°CWB |

(2)For water Dt 5°C |

(3)For water Dt 10°C |

(4)Sound levels are measured at: EW 55°C; LW 65°C |

(5)Sound levels are measured at: EW 70°C; LW 80°C |

(6)Field setting |

(7)In accordance with EN/IEC 61000-3-11, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Zsys (system impedance) ≤ Zmax |

(8)European/International Technical Standard setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated current ≤ 75A. |

(9)Zsys: system impedance |

(10)Short-circuit power

3 Options

3 - 1 Options

HXHD-A8

1. Options Indoor unit

Reference	Description	Indoor unit	
		HXHD125A*	HXHD200A*
EKHTS200[AC]	Stainless domestic hot water tank 200l	0	0
EKHTS260[AC]	Stainless domestic hot water tank 260l	0	0
EKHTSU200[AC]	Stainless domestic hot water tank 200l (UK)	0	0
EKHTSU260[AC]	Stainless domestic hot water tank 260l (UK)	0	0
EKHWP300B	PP 300l tank	0	0
EKHWP500B	PP 500l tank	0	0
EKRPIHBAA	Digital I/O PCB	0	0
EKRPIAHTA	(2) Demand PCB	0	0
EKRUAHTB	(3) Remote user interface	0	0
EKRTHA	(1) Wired room thermostat	0	0
EKRTRI	(1) Wireless room thermostat	0	0
EKRTEIS	(1) Remote sensor for room thermostat	0	0

2. Options Domestic hot water tank

Reference	Description	Domestic hot water tank			
		EKHTS		EKHTSU	
		200A	260A	200A	260A
EKUHHHTB	Option kit for the UK EKHTSU200-260A	-	-	0	0
(4) EKFMHTB	Option kit for standalone tank	0	0	0	0

Notes

- (1) Requires demand PCB EKRPIAHTA
- (2) To be able to connect the room thermostat kit, its installation is required.
- (3) The kit contains the same user interface as is standard delivered with the indoor unit. It can be mounted next to the indoor unit's standard user interface, or on another location.
If you install two user interfaces, designate one as master and the other as slave.
- (4) Only required if the tank is NOT mounted on top of the HXHD unit.

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4 Selection procedure

4 - 1 Selection Procedure

4

HXHD-A8

Selection procedure for ·HXHD*· Hydrobox

Definitions of ·HXHD· Hydrobox parameters

Required Hydrobox capacity
Required capacity from outdoor unit for Hydrobox
Correction factor ·= f (LWT)·

Cascade step power input
Outdoor unit power input (related to Hydrobox)

Total Hydrobox power input

·HC· [kW]
·HCo· [kW]
·CF· [kW]
HCo = HC * CF

·P· [kW]
·Plo· [kW]

Plo = f (HCo)
·Pl· [kW]
Pl = Plo + P

Example

→ Outdoor unit: ·VRV4· heat recovery ·16HP· with connection ratio = ·100·%; design ambient temperature = ·-7·°C.
38 Outdoor unit capacity at design point [kW] → Find this value in the applicable capacity table of ·VRV4· heat recovery.
12 Outdoor unit power input at design point [kW] → Find this value in the applicable capacity table of ·VRV4· heat recovery.
→ 14 Selection
→ 12 Result of calculation
→ 0,9 Value from table (see below)
→ 1,8 Value from table (see below)
→ 4 Capacity table of ·VRV4· heat recovery ·16HP· with connection ratio = ·100·%, design ambient temperature = ·-7·°C; proportional to ·HCo· (·12.2/37.5*12.3·).

HXHD125*:

EWT (°C)	30	40	45	55	65
LWT (°C)	35	45	55	65	75
P (kW) (*)	1,50	1,79	1,83	2,33	3,25
CF	0,89	0,87	0,87	0,83	0,77

(*) When the Hydrobox delivers ·14· kW

HXHD200*:

EWT (°C)	30	40	45	55	65
LWT (°C)	35	45	55	65	75
P (kW) (*)	1,86	2,17	2,47	3,56	4,81
CF	0,92	0,90	0,89	0,84	0,79

(*) When the Hydrobox delivers ·22.4· kW

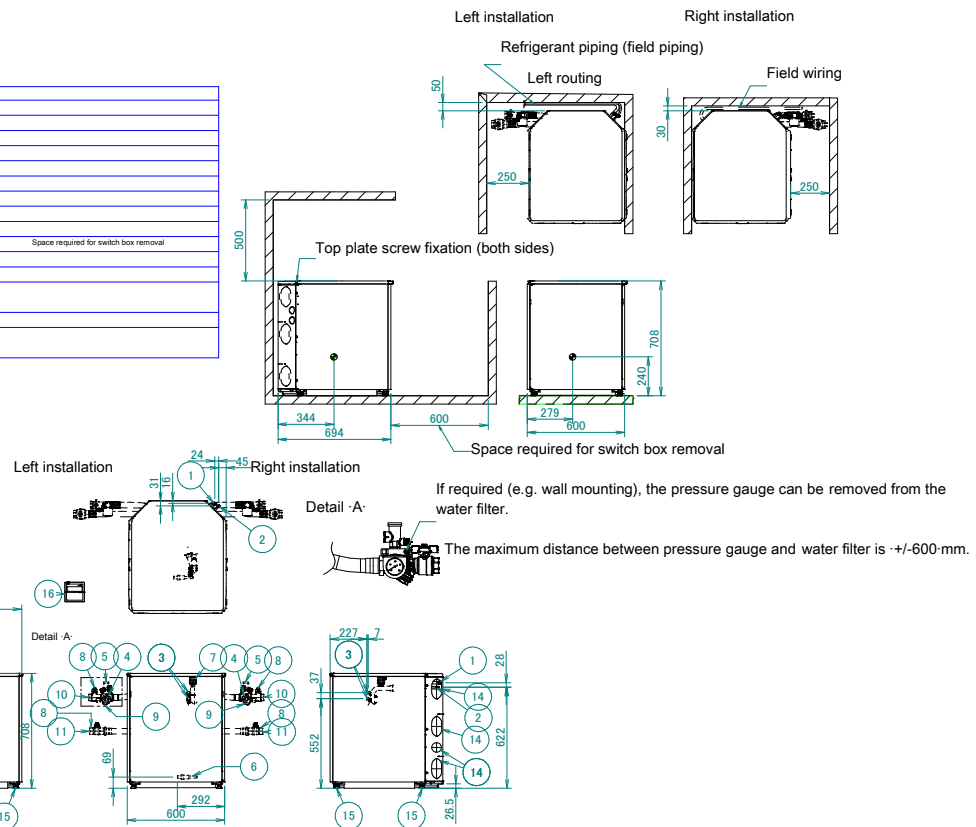
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5 Dimensional drawings

5 - 1 Dimensional Drawings

HXHD200A8

1	Gas pipe connection - Ø15.9 - brazing
2	Liquid pipe connection - Ø9.5 - brazing
3	Service port - Ø12.7 - flare
4	Pressure gauge
5	Safety blow-off valve
6	Drain valve water circuit
7	Air purge
8	Shut-off valve
9	Water filter
10	Water IN connection - G1" - (female)
11	Water OUT connection - G1" - (female)
12	Control wiring intake (knockout hole - Ø37)
13	Power supply wiring intake (knockout hole - Ø37)
14	Refrigerant piping intake (knockout hole)
15	Levelling feet
16	Remote control (accessory)
Installation location: outside the unit	

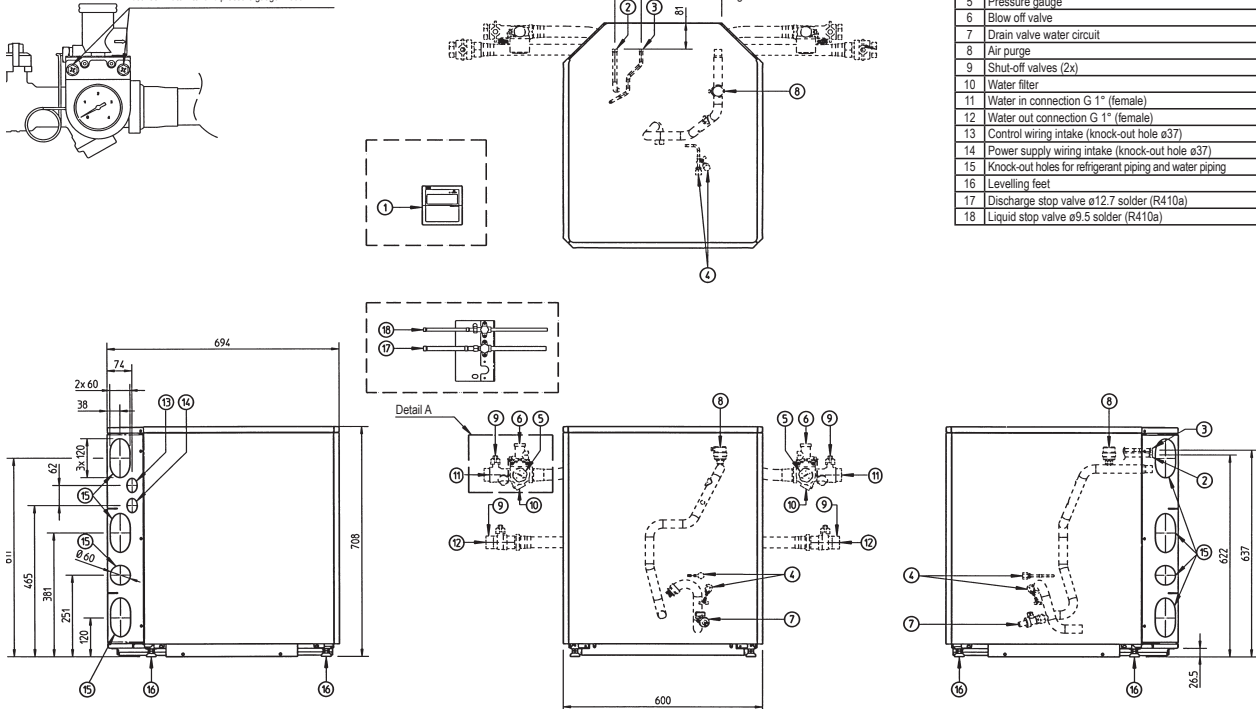


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HXHD125A8

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



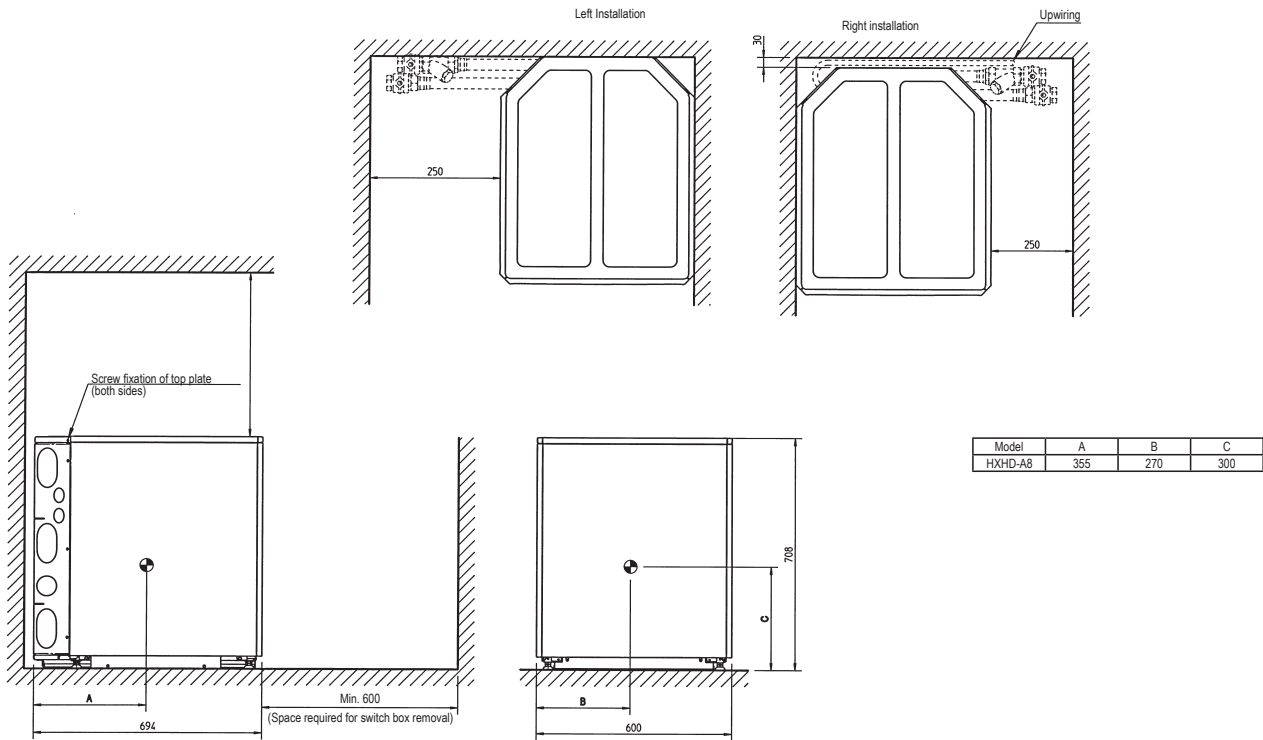
1	Remote control (delivered as accessory)
Installation location is outside the unit	
2	Discharge pipe connection ø12.7 solder (R410a)
3	Liquid pipe connection ø9.5 solder (R410a)
4	R134a Service ports 5/16" flare (2x)
5	Pressure gauge
6	Blow off valve
7	Drain valve water circuit
8	Air purge
9	Shut-off 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 ø37)
14	Power supply wiring intake (knock-out hole ø37)
15	Knock-out holes for refrigerant piping and water piping
16	Levelling feet
17	Discharge stop valve ø12.7 solder (R410a)
18	Liquid stop valve ø9.5 solder (R410a)

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5 Dimensional drawings

5 - 1 Dimensional Drawings

HXHD125A8

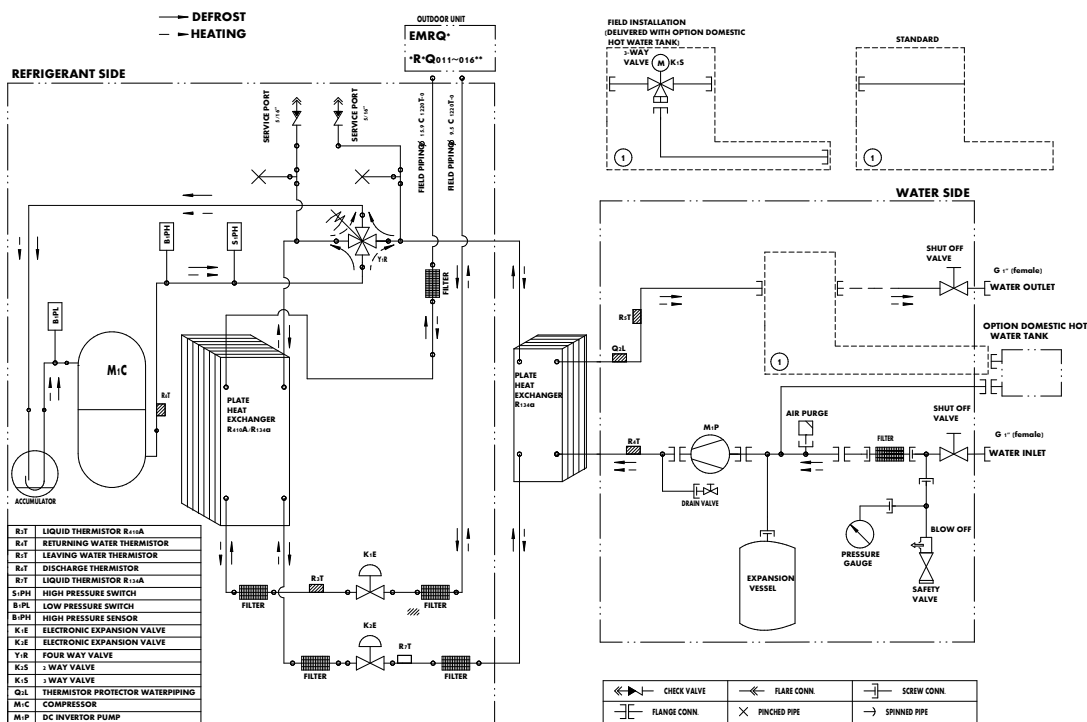


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6 Piping diagrams

6 - 1 Piping Diagrams

HXHD200A8

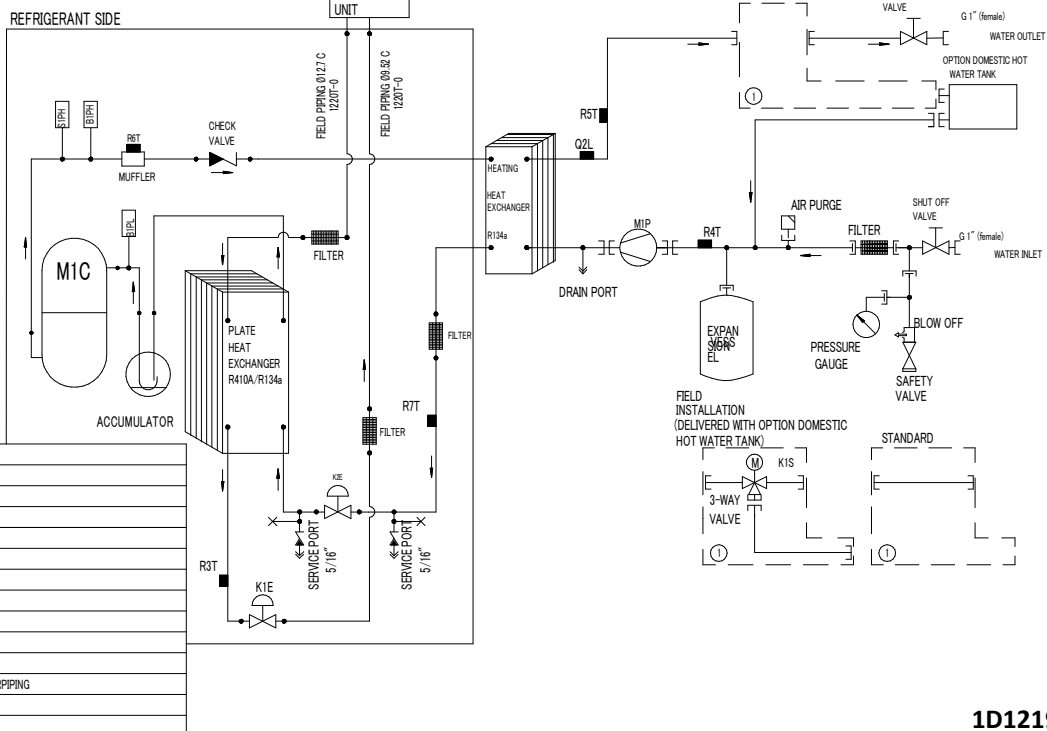


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HXHD125A8

EKHV MRD50,80*

HXHD*



1D121985

7 Wiring diagrams

7 - 1 Notes & Legend

7

HXHD125A8

NOTES TO GO THROUGH BEFORE STARTING THE UNIT

- X1M : Main terminal
X2M : Field wiring terminal for high voltage
X3M : Field wiring terminal for low voltage
- — — — : Earth wiring
- - - - - : Field supply
-  : Option
-  : Wiring depending on model
-  : Not mounted in switchbox
-  : PCB
- **/12.2 : Connection ** continues on page 12 column 2
-  : Several wiring possibilities

User installed options:

- ☐ Backup heater (includes wiring diagram of option)
- ☐ Domestic hot water tank
- ☐ Domestic hot water tank with solar connection (Only for EKHVM)
- ☐ Room thermostat (Wired)
- ☐ Room thermostat (Wireless)
- ☐ External temperature sensor
- ☐ Remote user interface
- ☐ Digital I/O PCB
- ☐ Demand PCB
- ☐ Solar pump and control station (Only for EKHVM)

Legend

- * : included in option kit
: field supplied
- A1P : Main PCB
A2P : User interface PCB
A3P : control PCB
A4P : Inverter PCB
A5P : QA PCB
A6P : Filter PCB
A7P * : Digital I/O PCB
A8P * : Demand PCB
A9P : Multi tenant PCB
A10P * : Thermostat PCB
A11P * : Receiver PCB
A12P * : Solar pump station PCB
B1PH : High pressure sensor
B1PL : Low pressure sensor
BSK * : Solar pump station relay
C1-C3 : Filter capacitor
C1-C3 (A4P) : PCB Capacitor
DS1 (A*P) : Dipswitch
F1U : Fuse (T, 3.2A, 250V)
F1U (A1P/A3P/A9P) : Fuse (T, 3.15A, 250V)
F1U (A6P) : Fuse (T, 6.3A, 250V)
F1U-F2U (A7P) * : Fuse (5A, 250V)
F3U-F4U (A*P) : Fuse (T, 6.3A, 250V)
HAP (A*P) : PCB LED
IPM1 : Integrated power module
K1A-K3A : Interface relay
K1E-K3E : Electronic expansion valve
K*R (A*P) : PCB Relay
K1S * : 3 way valve
K2S : 3 way valve
K3S : 2 way valve
K4S # : 2 way valve
M1C : Compressor
M1F : Switchbox cooling fan
M1P-M2P : DC inverter pump
PC (A11P) * : Power circuit
PHC1 (A7P) * : Optocoupler input circuit
PS (A*P) : Switching power supply
Q1DI-Q2DI # : Earth leakage protector
Q2L : Thermal protector water piping
R1-R2 (A4P) : Resistance
R1L : Reactor
R1H (A10P) * : Humidity sensor
R1T (A10P) * : Ambient sensor
R2T * : Domestic hot water tank Thermistor
R2T * : External sensor (floor or ambient)
R3T : Liquid thermistor R410A
R4T : Returning water thermistor
R5T : Leaving water thermistor (heating)
R6T : Discharge thermistor
R7T : Liquid thermistor R134a
R8T : Fin thermistor
R9T : Leaving water thermistor (cooling)
R10T : Liquid thermistor (cooling)
R11T : Suction thermistor (cooling)
RC (A*P) : Receiver circuit
S1PH : High pressure switch
S1S # : benefit kWh rate power supply contact
S3S # : Input multiple setpoint 1
S4S # : Input multiple setpoint 2
SS1 (A1P) : Selector switch (Emergency)
SS1 (A2P) : Selector switch (master slave)
SS1 (A7P) * : Selector switch
TC (A*P) : Transmitter circuit
T1R-T2R (A*P) : Diode bridge
T3R : Power module
V1C-V8C : Ferrite core noise filter
X1M-X3M : Terminal strip
X*M (A*P) * : PCB terminal strip
X1Y-X4Y : Connector
Z1F-Z5F (A*P) : Noise filter

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7 Wiring diagrams

7 - 1 Notes & Legend

HXHD200A8

LEGEND

Part n°	Description	Part n°	Description	Part n°	Description
A1P	Main PCB	K1A	Interface relay	R8T	Fin thermistor
A2P	User interface PCB	K1E	Electronic expansion valve	RC (A*P)	Receiver circuit
A3P	Control PCB	K2E	Electronic expansion valve	S1PH	High pressure switch
A4P	Inverter control PCB	K1M - K2M	PCB contactor	S1S	# Benefit kWh rate power supply contact
A5P	Inverter PCB	K*R (A*P)	PCB relay	S3S	# Input multiple setpoint 1
A6P	Filter PCB	K1S	* 3 way valve	S4S	# Input multiple setpoint 2
A7P	* Digital I/O PCB	M1C	Compressor	SS1 (A1P)	Selector switch (emergency)
A8P	* Demand PCB	M1F	Switch box cooling fan	SS1 (A2P)	Selector switch (master slave)
A9P	* Solar pumpstation PCB	M2P	DC inverter pump	SS1 (A7P)	* Selector switch
A10P	* Thermostat PCB	PC (A11P)	* Power circuit	TC (A*P)	Transmitter circuit
A11P	* Receiver PCB	P1, P2 (A2P)	PHC1 Optocoupler input circuit	T1R - T2R (A*P)	Diode bridge
B1PH	High pressure sensor	PS (A2P)	PS (A*P) Switching power supply	V1C - V12C	Ferrite core noise filter
B1PL	Low pressure sensor	Q1DI	# Q1DI - Q2DI Earth leakage circuit breaker	X1M - X3M	Terminal strip
BSK	* Solar pumpstation relay	Q2L	Thermal protector water piping	X*M (A*P)	* PCB terminal strip
C1 - C2	Filter capacitor	R1 (A5P)	Resistance	X5Y	Connector
C1 - C2 (A5P)	PCB capacitor	R3T	R1L - R3L Reactor	Y1R	4 way valve
DS1 (A*P)	Dip switch	R4T	* R1H (A10P) Humidity sensor	Z1F - Z5F (A*P)	Noise filter
E7H	* Bottom plate heater	R5T	* R1T (A10P) Ambient sensor		
F1 - F2	Inline fuse	R6T	* R2T Domestic hot water tank thermistor		
F1U (A1P, A3P)	Fuse (T, 3.15A, 250V)	R2T	* External sensor (floor or ambient)		
F1U - F2U (A4P)	Fuse (3.15A, 500V)	R3T	Liquid thermistor R410a		
F3U - F5U (A4P)	Fuse (6.3A, 250V)	R4T	Returning water thermistor		
F1U - F2U (A7P)	* Fuse (5A, 250V)	R5T	Leaving water thermistor		
H1P - H7P (A4P)	PCB LED	S1PH	R6T Discharge thermistor		
HAP (A*P)	PCB LED	R7T	Liquid thermistor R134a		

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HXHD200A8

NOTES to go through before starting the unit

- X1M : Main terminal
X2M : Field wiring terminal for high voltage
X3M : Field wiring terminal for low voltage
_____ : Earth wiring
_____ : Field supply
 : Option
 : Wiring depending on model
 : Not mounted in switch box
 : PCB
→ **/12.2 : Connection ** continues on page 12 column 2
① : Several wiring possibilities

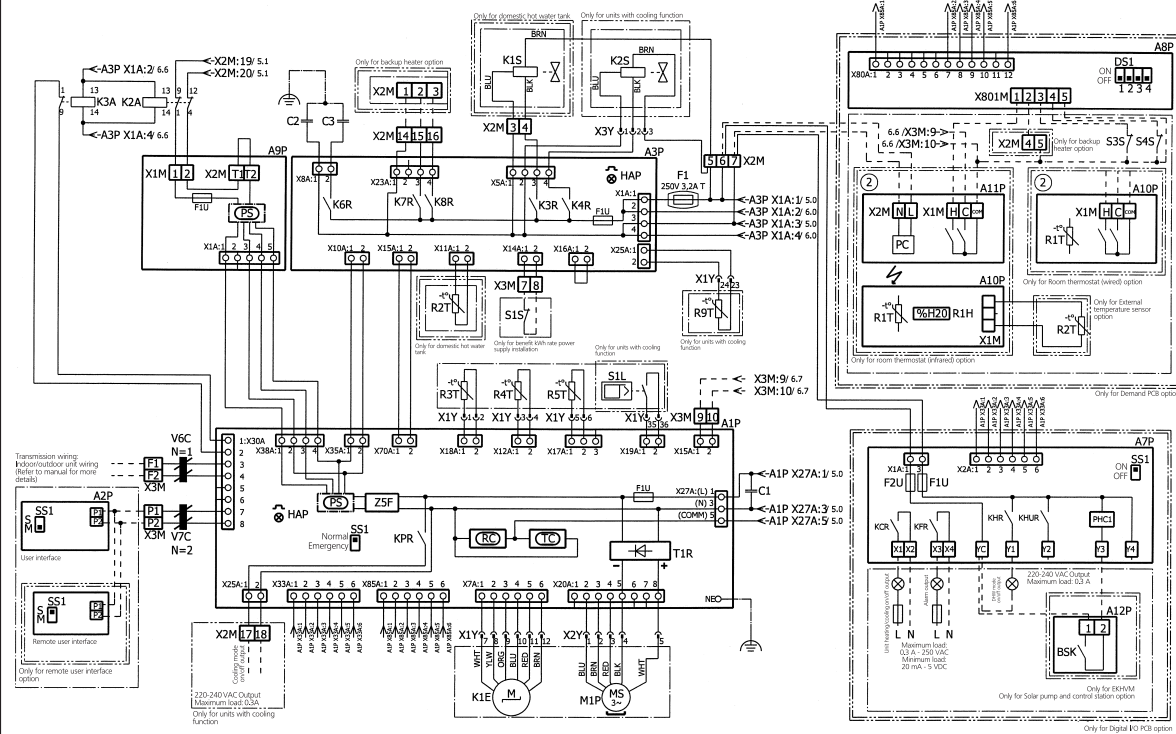
- User installed options:
- ☐ Bottom plate heater
 - ☐ Backup heater
 - ☐ Domestic hot water tank
 - ☐ Domestic hot water tank with solar connection
 - ☐ Room thermostat (wired)
 - ☐ Room thermostat (wireless)
 - ☐ External temperature sensor
 - ☐ Remote user interface
 - ☐ Digital I/O PCB
 - ☐ Demand PCB
 - ☐ Solar pump and control station

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7 Wiring diagrams

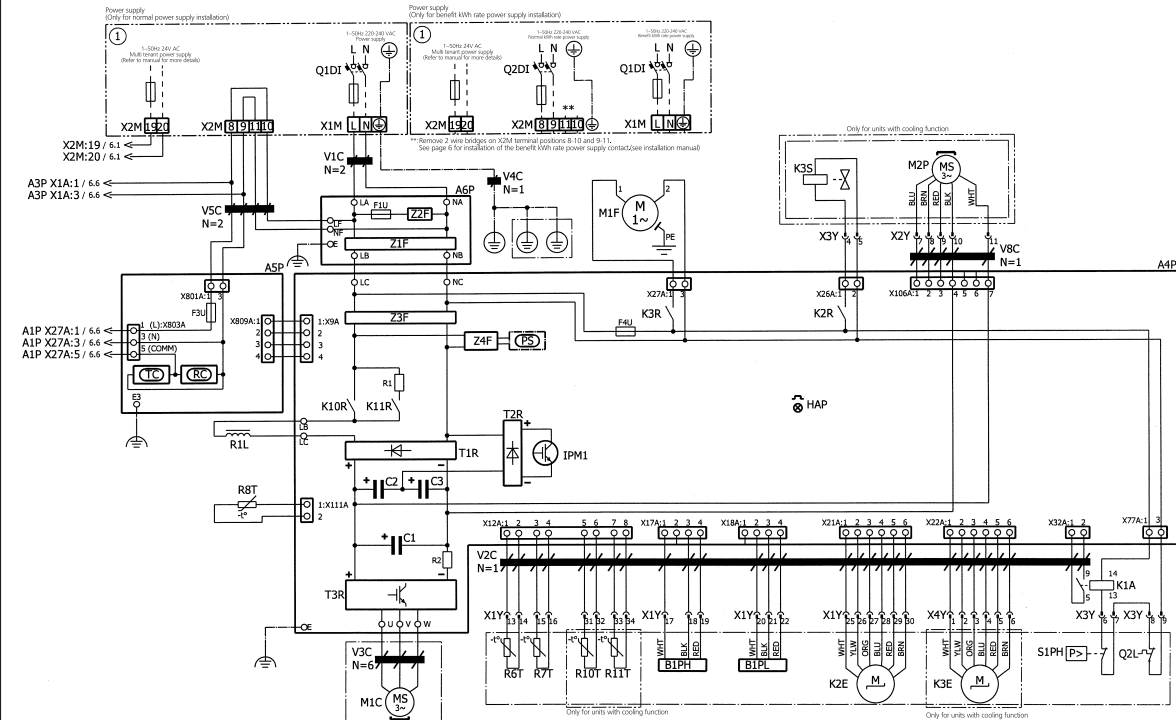
7 - 2 Wiring Diagrams - Single Phase

HXHD125A8
Control



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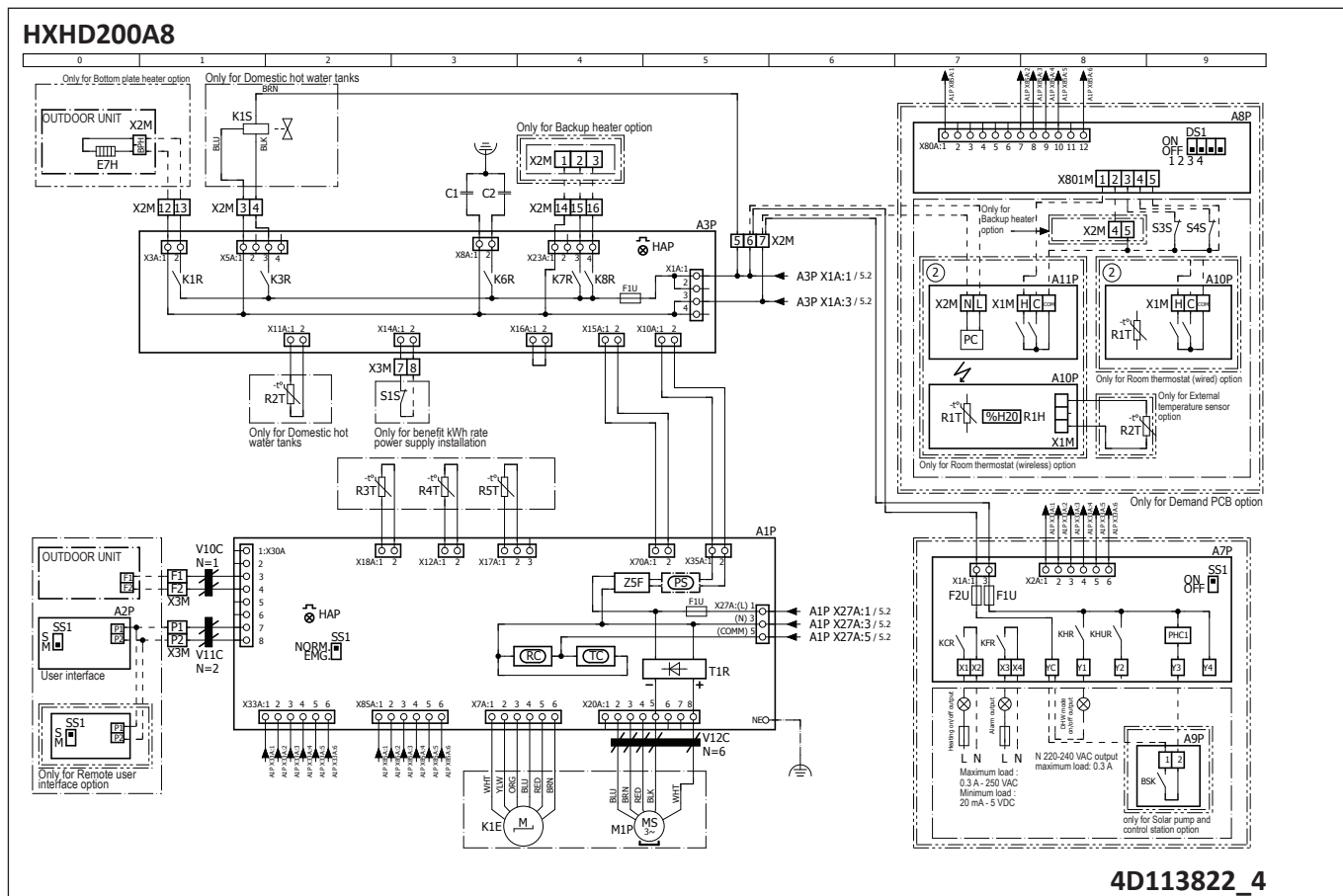
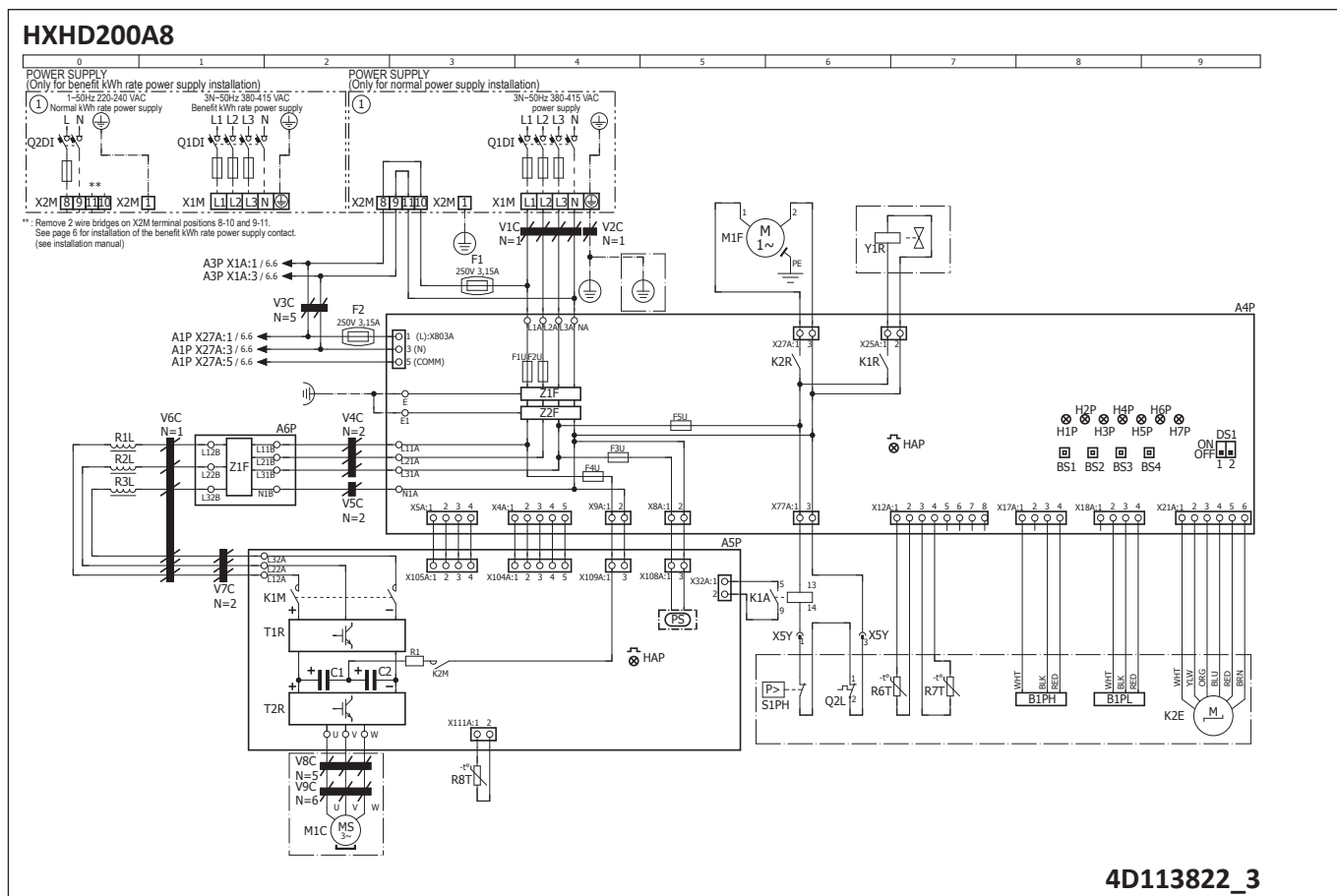
HXHD125A8
Compressor



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7 Wiring diagrams

7 - 2 Wiring Diagrams - Single Phase



8 External connection diagrams

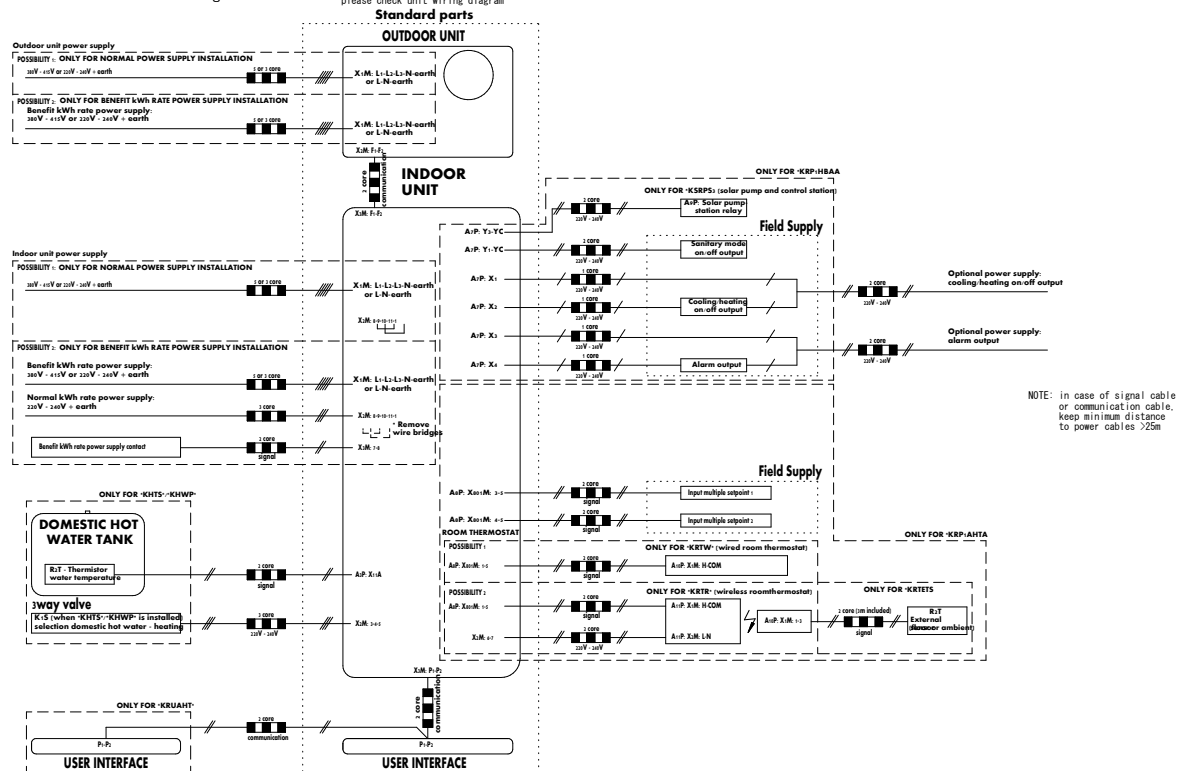
8 - 1 External Connection Diagrams

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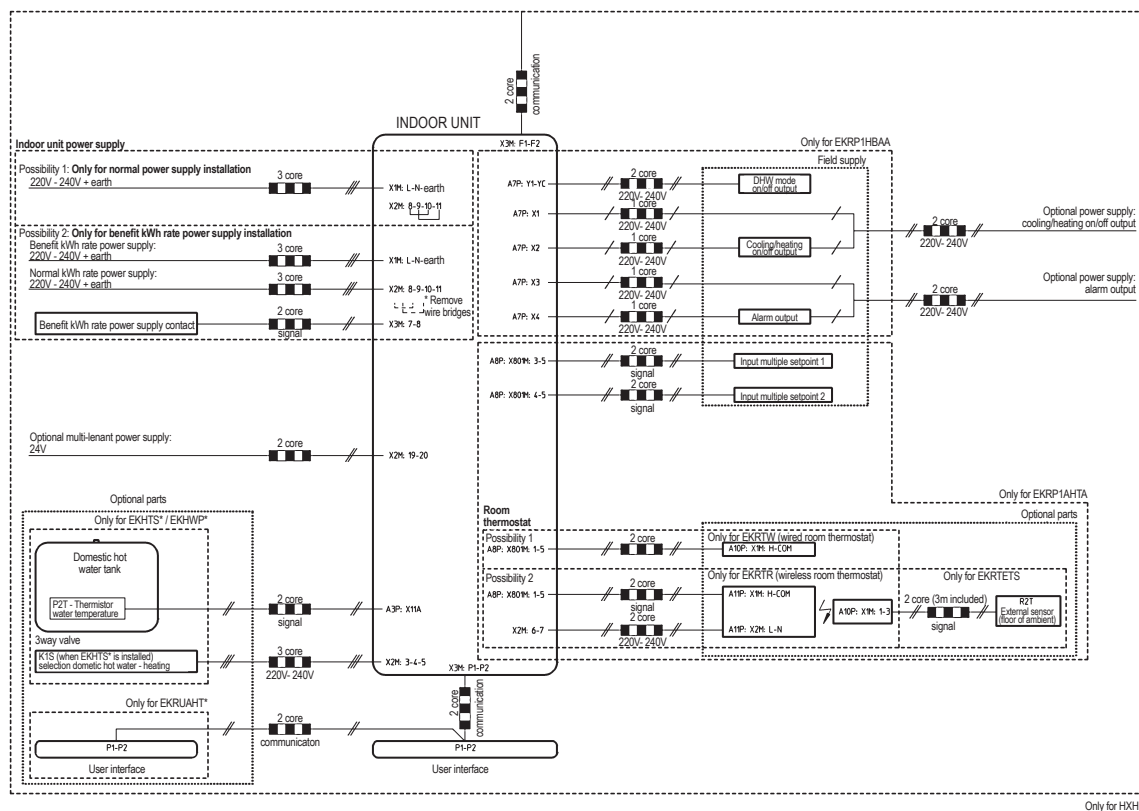
Electrical connection diagram

For more details
please check unit wiring diagram



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HXHD125A8

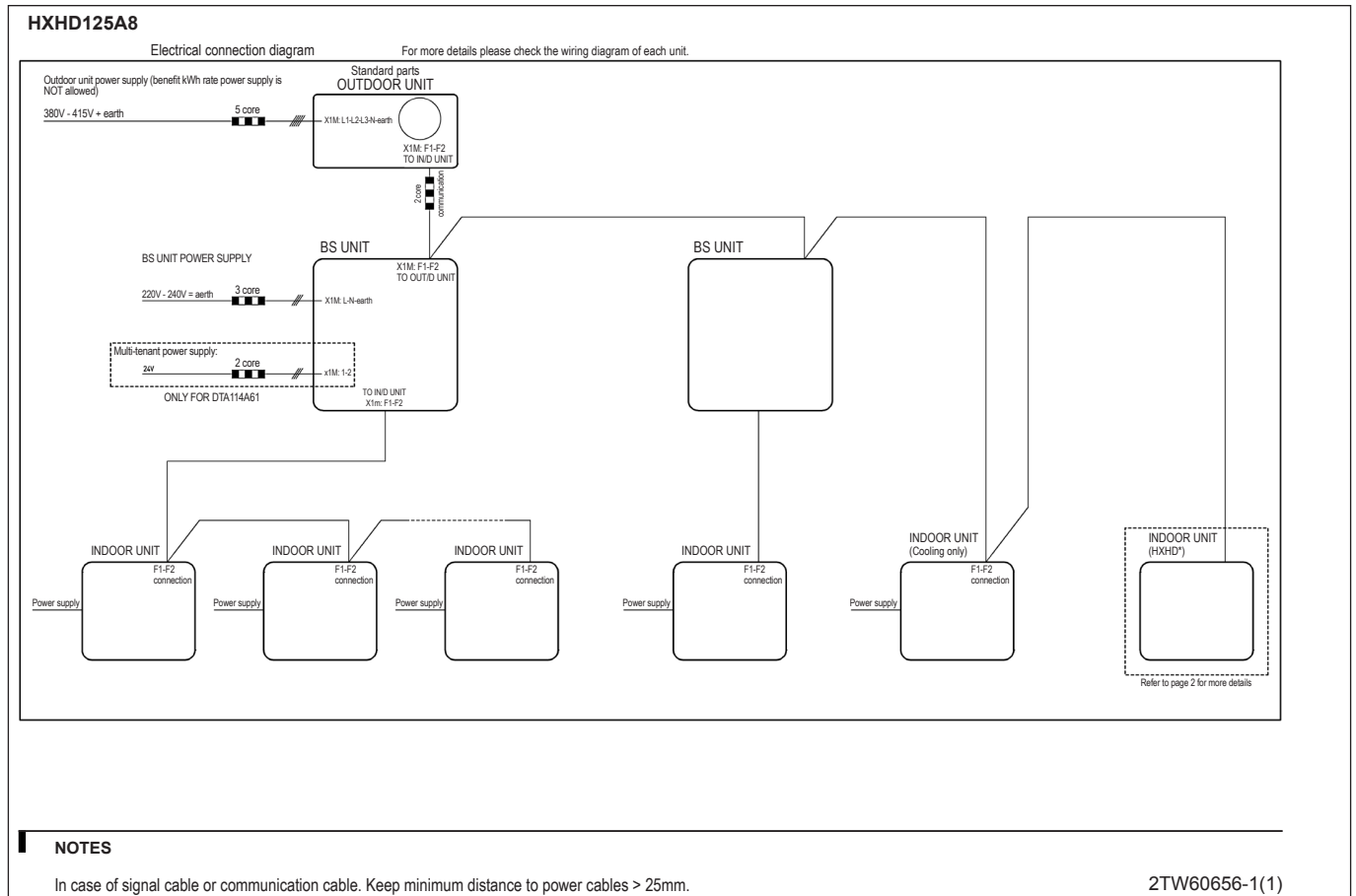


Only for HXHD

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8 External connection diagrams

8 - 1 External Connection Diagrams



9 Sound data

9 - 1 Sound Power Spectrum

HXHD200A8

	Sound power level (L _w) per octave band [dB]							Total dBA
	125	250	500	1000	2000	4000	8000	L _{wA}
EKHBRD011AAV1	53	61	61	49	43	39	34	59
EKHBRD014AAV1	73	61	61	51	43	42	38	60
EKHBRD016AAV1	72	61	60	49	44	43	39	60
HXHD200A*	72	61	60	49	44	43	39	60

Notes

Measured according to ISO 3744

Reference acoustic pressure 0 dB = 10e-6μW/m²

dBA = A-weighted sound power level (A scale according to IEC).

Conditions

Ambient temperature: 7/6°C

Heating setpoint: 55/65°C

Maximum compressor frequency

If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.

Choose the installation location carefully and do not install in a sound sensitive environment (e.g living room, bed room, ...)

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9 Sound data

9 - 1 Sound Power Spectrum

HXHD125A8

	Sound power level (L _w) per octave band [dB]							Total dBA
	125	250	500	1000	2000	4000	8000	L _{wA}
HXHD125A*V1B	39	50	51	45	45	43	41	55

Notes

Measured according to ISO 3744

Reference acoustic pressure 0 dB = 10e-6μW/m²

dBA = A-weighted sound power level (A scale according to IEC).

Conditions

Ambient temperature: 7/6 °C

Heating setpoint: 55/65 °C

Maximum compressor frequency

If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.

Choose the installation location carefully and do not install in a sound sensitive environment

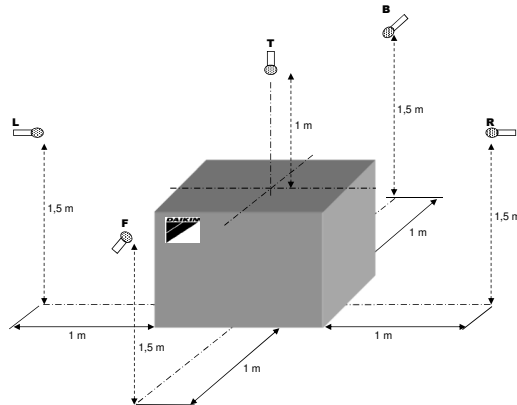
(e.g living room, bed room, ...)

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9 Sound data

9 - 2 Sound Pressure Spectrum

HXHD200A8



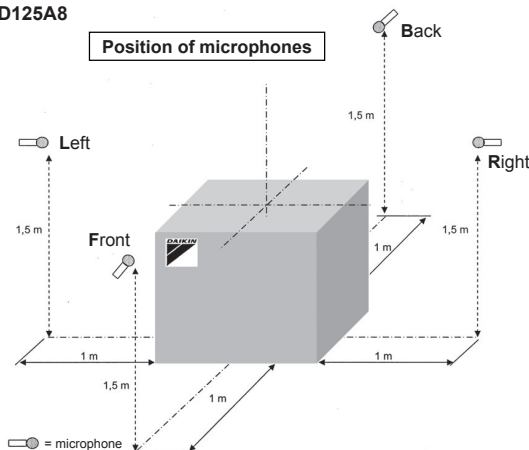
Sound pressure [dBA]			
-EKHBRD*- heat pump + tank (integrated)			
	11(V*/Y*)	14(V*/Y*)	16(V*/Y*)
-[EW/LW 55/56°C]			
F	38	39	42
L/R/B/T (#)	41	44	45
-[EW/LW 70/80°C]			
F	43	43	43
L/R/B/T (#)	46	46	46
-[EW/LW 70/80°C]			
Low noise level -1-			
F	37	38	39
L/R/B/T (#)	40	41	44

Sound pressure [dBA]				
-EKHBRD*- heat pump (no tank)				
	11(V*/Y*)	14(V*/Y*)	16(V*/Y*)	HXHD200
-[EW/LW 55/56°C]				
F	40	43	46	46
L/R/B/T (#)	43	45	46	46
-[EW/LW 70/80°C]				
F	46	46	46	46
L/R/B/T (#)	46	46	46	46
-[EW/LW 70/80°C]				
Low noise level -1-				
F	39	40	43	43
L/R/B/T (#)	40	43	45	45

- Notes**
- Data is valid at free field condition.
Measured in a semi-anechoic chamber
If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.
Choose the installation location carefully and do not install in a sound sensitive environment (e.g. living room, bedroom, ...)
 - dBA = A-weighted sound pressure level (A scale according to IEC).
 - Entering water temperature
 - Reference acoustic pressure 0 dB = 20 μPa
 - The sound pressure level of low noise levels -2- and -3- is lower than that of low noise level -1-.
 - (#) Maximum value that was measured. This value does not occur simultaneously on all sides.

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HXHD125A8



Sound levels

Sound pressure [dBA]	
	HXHD 125
-EW/LW 55/65° C	
Front	42
Left / Right / Back (*)	41
-EW/LW 70/80° C	
Front	43
Left / Right / Back (*)	42
-EW/LW 55/65° C - Low sound mode n°1	
Front-Right (*)	38

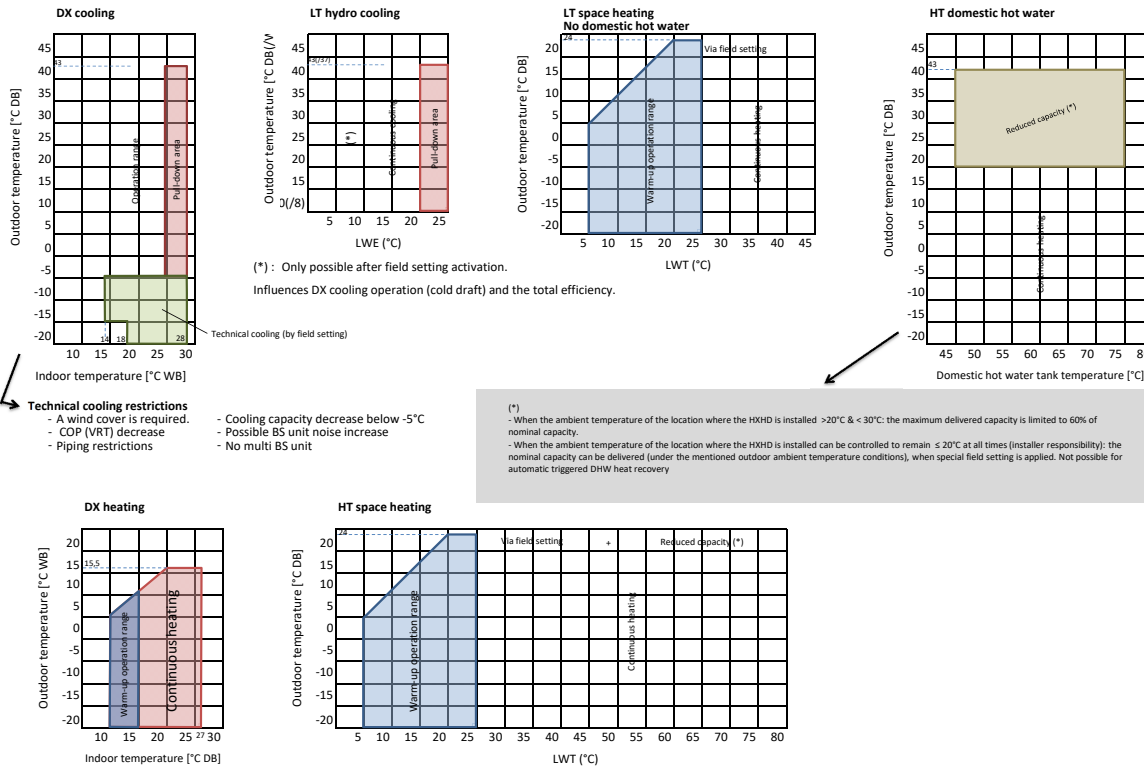
- NOTES**
- The above data is valid in free field condition, because it is measured in a semi-anechoic room. If the sound is measured under actual installation, the measured value will be higher due to environmental noise and sound reflections. Choose the installation location carefully and do not install the unit in a sound sensitive environment (e.g. living room, bedroom, ...).
 - dBA = A-weighted sound pressure level (A scale according to IEC).
 - EW = entering water temperature - LW = Leaving water temperature
 - Reference acoustic pressure 0dB = 20μPa
 - Sound pressure level of low sound mode n°2 and n°3 is lower than n°1
 - (*) Does not occur simultaneously on all sides.

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10 Operation range

10 - 1 Operation Range

HXHD-A8



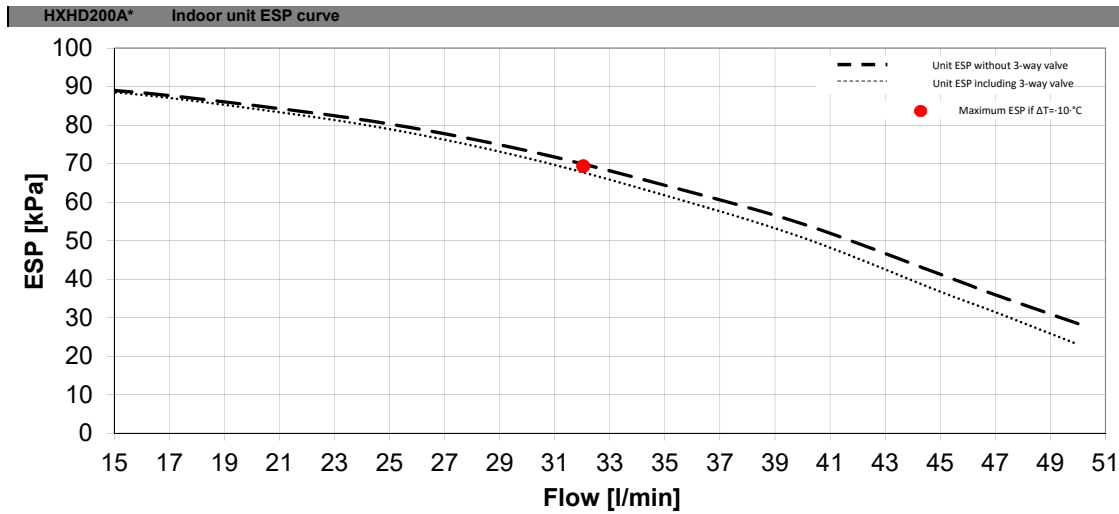
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11 Hydraulic performance

11 - 1 Static Pressure Drop Unit

11

HXHD200A8



Notes

- The ESP curves are the maximum ESP curves, with and without domestic hot water tank installed on top of the indoor unit (pump rpm: 4000). 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

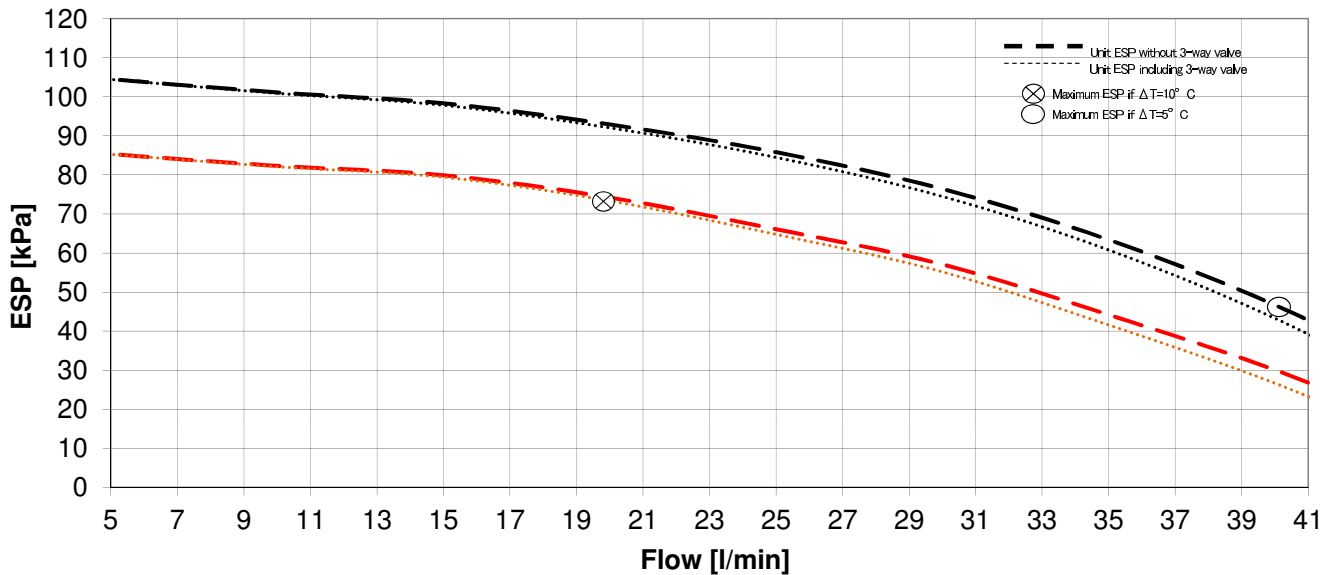
Flow: water flow through the unit

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.

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HXHD125A8



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).

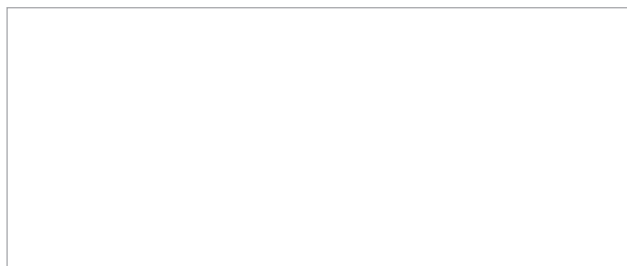
ESP: External Static Pressure

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.

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