

Low temperature hydrobox for VRV Technical data book HXY-A8



HXY080A8V1B HXY125A8V1B



Table of contents

HXY-A8

1	Features HXY-A8	4
2	Specifications	5
3	Options	6
4	Dimensional drawings	7
5	Piping diagrams	8
5	Wiring diagrams Notes & Legend Wiring Diagrams - Single Phase	9 9
7	External connection diagrams	11
3	Operation range	12
9	Hydraulic performance Static Pressure Drop Unit	13





Features

1 - 1 HXY-A8

For high efficiency space heating and cooling

- > Air to water connection to VRV for applications such as underfloor, -> Saves time on system design as all water-side components are fully air handling units, low temperature radiators, ...
- \rightarrow Leaving water temperature range from 5°C to 45°C without electric \rightarrow Space saving contemporary wall mounted design
- > Super wide operating range for hot/cold water production from -20 to +43°C ambient outdoor temperature
- integrated with direct control over leaving water temperature
- > No gas connection or oil tank needed
- > Connectable to VRV IV heat pump and heat recovery





Specifications

HXY-A8

Technical spe	cificatio	ns			HXY080A8	HXY125A8				
Cooling capacity	Nom.			kW	8.00 (1)	12.5 (1)				
Heating capacity	Nom. kW		kW	9.00 (2) 14.0 (2)						
Casing	Colour				White					
	Material				Precoated sheet metal					
Dimensions	Unit	Height		mm	890)				
		Width		mm	480)				
		Depth		mm	344					
	Packed	Height		mm	415					
	unit	Width		mm	650					
		Depth		mm	1,01	6				
Weight	Unit			kg	44.)				
,	Packed ur	nit		kg	47.0)				
Packing	Material				Carton / EPS / PP (Straps)					
	Weight			kg	2.8					
PED	Category			9	Art3§3 / Excluded from scope of PED					
Pump	Nr of spee	ds		<u> </u>	Inverter co	·				
	Nominal	Heating		kPa	85.0 (2)	65.0 (2)				
	ESP unit	Cooling		kPa	88.0 (1)	73.0 (1)				
	Power inp			W	110	135				
Water side Heat	Type	·ut		**	Brazed					
exchanger	Quantity				1	Piace				
Acrianger	Water	Min.		l/min	15.0	(3)				
	flow rate		Nom.	l/min	25.8 (2)	40.1 (2)				
	now rate	Cooling		l/min	23.8 (2)					
	la sulation		Nom.	I/min						
	Insulation material Volume				Foamed synthetic elastomer 10					
Expansion vessel	Max. water pressure									
		•		bar	3					
	Pre pressure			bar	1					
Water filter		perforation	IS	mm	1.0					
	Material				Copper - brass - stainless steel					
Water circuit		nnections d	iameter	inch	G 1"1/4 (female)					
	Safety val			bar	3					
	Manometer				Yes					
		e / fill valve			Yes					
	Shut off va				Yes					
	flowswitcl				Yes					
Water circuit	Air purge	valve			Yes					
Refrigerant	Type				R-410A					
	GWP				2,087.5					
Refrigerant circuit	Gas side d	liameter		mm	15.9					
	Liquid side diameter mm				9.52					
Sound pressure	Nom.			dBA	31 (4	4)				
evel										
Operation range	Heating	Ambient	Min.	°C	-20					
			Max.	°C	24					
		Water side	e Min.	°C	25					
			Max.	°C	45					
	Cooling	Ambient	Min.	°CDB	10					
·	,		Max.	°CDB	43					
		Water side		°C	5					
			Max.	°C	20					

Electrical sp	ecificatio	ns		HXY080A8	HXY080A8 HXY125A8			
Power supply	Phase			1~				
	Frequency	/	Hz	50				
	Voltage		V	220-24	0			
	Voltage	Min.	%	-10				
	range	Max. %		10				
Current	Recommended fuses A		A	6~16				
Current - 50Hz	Nominal running current A		A	2.5				
Wiring	For power	Quantity		3G				
connections	supply	Type of wires		Wire type/size has to be selected according to applicable legislation				
	Communication Quantity			2				
	cable	Type of wires		0,75 ~1,25 mm ² (F1F2)				
	For connection Quantity with user Type of wires			2 0,75 ~1,25 mm² (PIP2)				
	interface							

(1)Tamb 35°C - LWE 18°C (DT=5°C) |
(2)DB;/WB 7°C/6°C - LWC 35°C (DT=5°C) |
(3)Flow switch setting |
(4)The sound pressure level is measured via a microphone at a 1m distance from the unit. It is a relative value, depending on the distance and acoustic environment. |
Contains fluorinated greenhouse gases





Options 3

3 - 1 Options

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Option	Option kit	HXY080A*V1B	HXY125A*V1B	
Drain pan	EKHBDPCA2	0	0	
Demand PCB	EKRP1AHTA	0	0	
Remote user interface	EKRUAHTB	0	0	
Backup heater	EKBUHAA6(W1/V3)	0	0	
I) Wired room thermostat	EKRTWA	0	0	
1) Wireless room thermostat	EKRTR1	0	0	
External sensor room thermostat	EKRTETS	0	0	

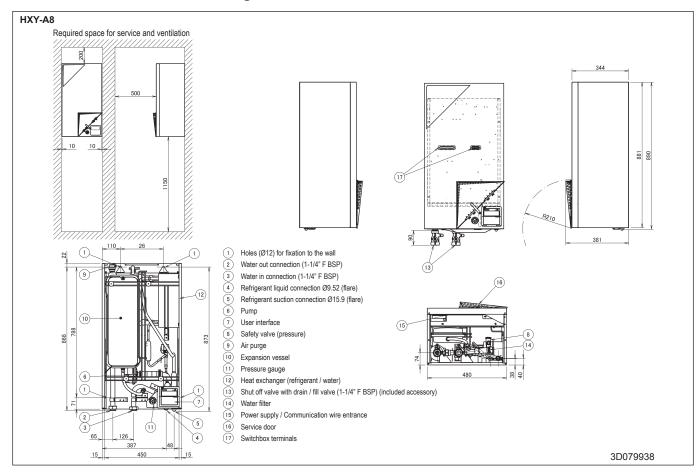
- Notes
 (1) Requires demand PCB · EKRP1AHTA·
 (2) Can only be used in combination with wireless room thermostat · EKRTR1·.

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4 Dimensional drawings

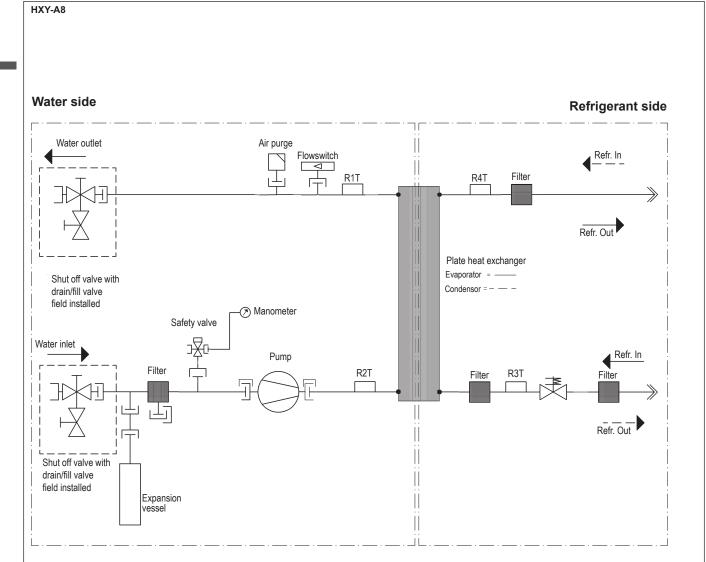
4 - 1 Dimensional Drawings





5 Piping diagrams

5 - 1 Piping Diagrams



Thermistor	Description
R1T	Outlet water heat exchanger thermistor
R2T	Inlet water exchanger thermistor
R3T	Refrigerant liquid side thermistor
R4T	Refrigerant gas side thermistor

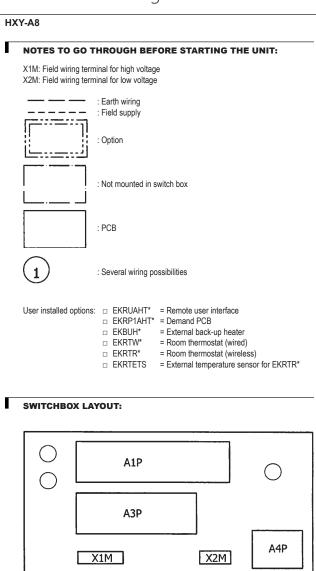
	Flare conn.	\ll	Check valve	•	Brazed conn.	<u> </u>	Quick coupling
_]	Screw conn.		Flange conn.	X	Pinched pipe	\rightarrow	Spinned pipe

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6 Wiring diagrams

6 - 1 Notes & Legend



LEGEND:

- *: Field installed option
- #: Field supplied

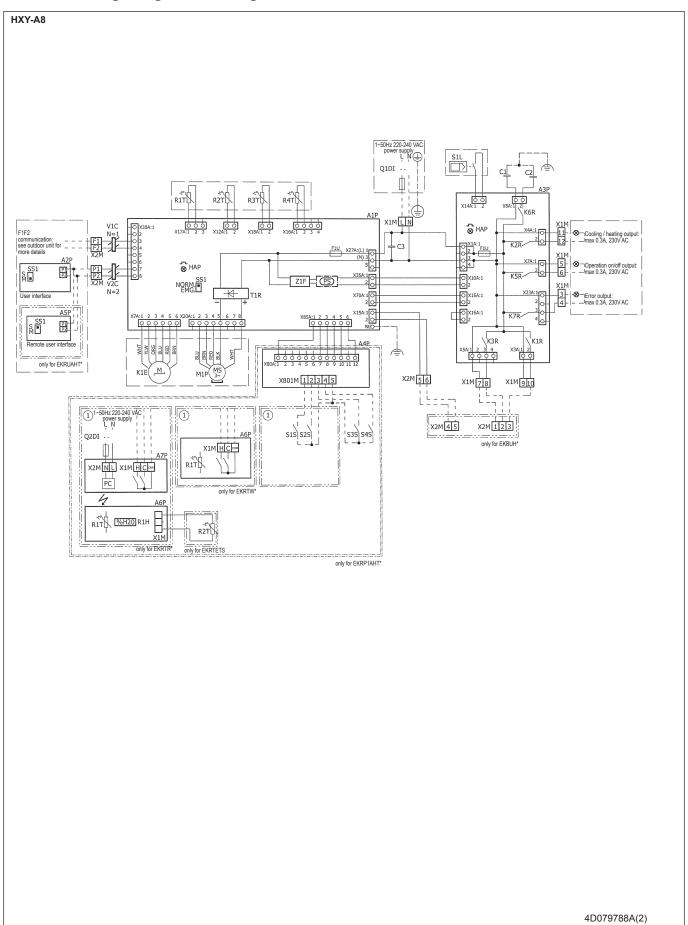
Part number	Г	Description			
A1P	\vdash	Main PCB (master)			
A2P	\vdash	User interface PCB			
A3P		Control PCB			
A4P	*	Demand PCB			
A5P	*	Remote user interface PCB			
A6P	*	Thermostat PCB			
A7P	*	Receiver PCB			
C1-C3	\vdash	Filter capacitor			
F1U (A*P)		Fuse (T, 3.15A, 250V)			
HAP (A*P)	\vdash	PCB LED			
K1E	\vdash	Electronic expansion valve			
K*R (A3P)	\vdash	PCB relay			
M1P	\vdash	Pump			
PC (A7P)	*	Power circuit			
PS (A1P)	\vdash	Switching power supply			
Q*DI	#	Earth leakage circuit breaker			
R1H (A6P)	*	Humidity sensor			
R1T	Г	Leaving water thermistor			
R1T (A6P)	*	Ambient sensor			
R2T		Returning water thermistor			
R2T	*	External sensor (floor or ambient)			
R3T		Refrigerant liquid thermistor			
R4T		Refrigerant gas thermistor			
S1L		Flow switch			
S1S	#	Thermostat input 1			
S2S	#	Thermostat input 2			
S3S	#	Operation ON input			
S4S	#	Operation OFF input			
SS1 (A1P)		Selector switch (emergency)			
SS1 (A2P)		Selector switch (main/sub)			
SS1 (A5P)	*	Selector switch (main/sub)			
T1R		Diode bridge			
V1C - V2C		Ferrite core noise filter			
X1M - X2M		Terminal strip			
X*A (A*P)		PCB corrector			
X*M (A*P)	*	PCB terminal strip			
Z1F (A1P)		Noise filter			

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6 Wiring diagrams

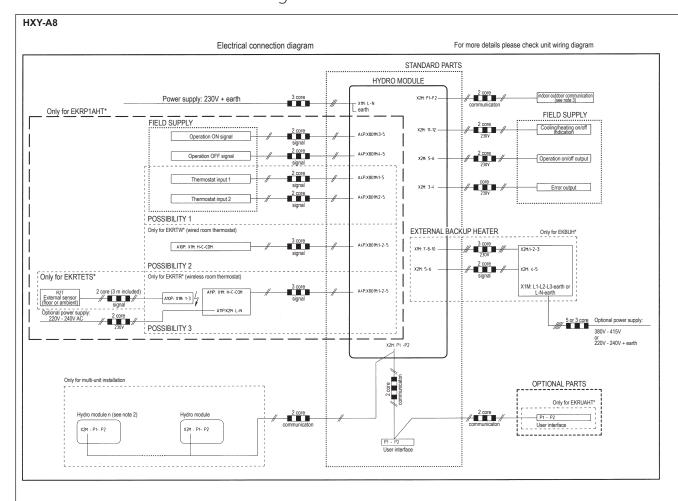
6 - 2 Wiring Diagrams - Single Phase





7 External connection diagrams

7 - 1 External Connection Diagrams



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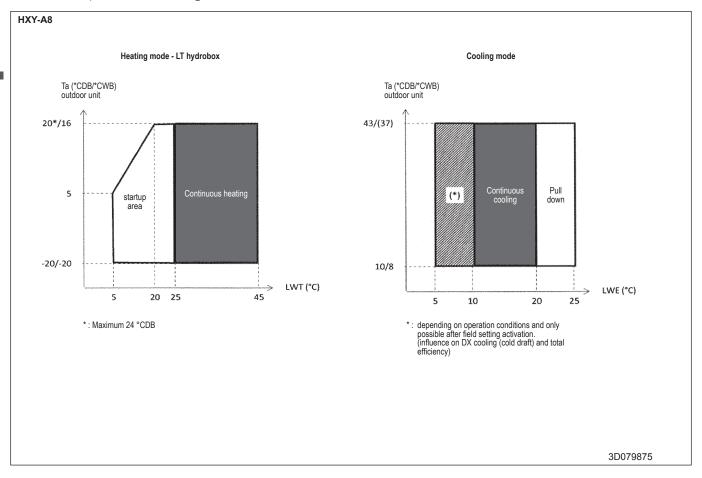
NOTES

- 1. In case of signal cable keep minimum distance to power cables > 5 cm.
- 2. Max. of 16 hydromodules can be connected.
- 3. For indoor-outdoor communication: refer to information of the outdoor unit for details.



8 Operation range

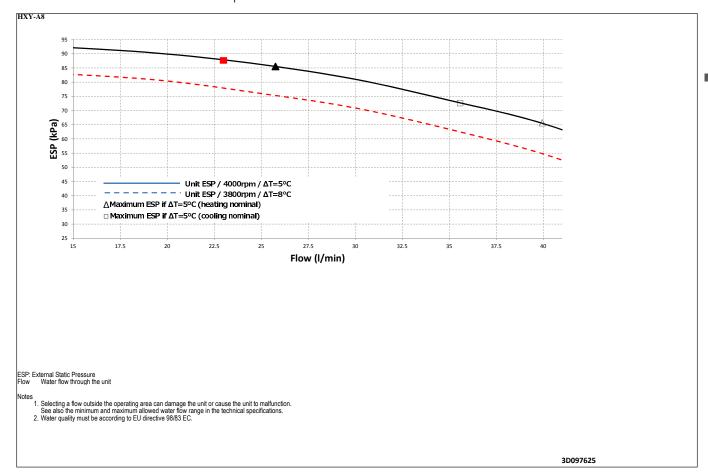
8 - 1 Operation Range



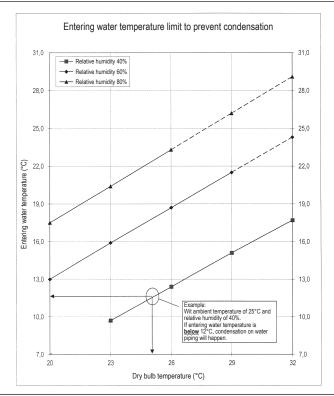


9 Hydraulic performance

9 - 1 Static Pressure Drop Unit



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NOTES

- Refer to psychometric chart for more information.
- 2 If condensation is expected, installation of EKHBDPCA2 drainpan kit must be considered.

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