

Domestic hot water tank Air Conditioning Technical Data CKHWS-BV3



CKHWS180BJV3
CKHWS230BJV3

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CKHWS-BV3

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1 Features

1 - 1 CKHWS-BV3

› Up to 4 indoor units and 1 domestic hot water tank can be connected to 1 multi outdoor unit

› Domestic hot water efficiencies up to A+

› Floor-standing domestic hot water tank available in 180l and 230l

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2 Specifications

2 - 1 Specifications

Technical specifications					CKHWS180BV3	CKHWS230BV3		
Dimensions	Unit	Height	Tank	mm	1,655	1,855		
		Width		mm	595			
		Depth		mm	634			
	Packed unit	Height		mm	1,820	2,020		
		Width		mm	720			
		Depth		mm	740			
Weight	Unit	Empty	kg	106	115			
	Packed unit	Empty	kg	120	130			
Packing	Material			Wood / Carton / Metal / PE wrapping foil				
	Weight			kg	13.3	13.6		
 Tank	Water volume			l	180	230		
	Material			Stainless steel (EN 1.4521)				
	Maximum water temperature			°C	65			
	Maximum water pressure			bar	10			
	Insulation	Heat loss	kWh/24h	1.2 (1)	1.4 (1)			
		Material			Polyurethane foam			
	Energy efficiency class			B				
	Standing heat loss	S	W	50	58			
	Storage volume	V	l	180	220			
	Backup heater	Quantity			1			
Capacity			2					
Piping connections	Refrigerant inlet heat exchanger diameter	mm		12.7				
	Refrigerant outlet heat exchanger diameter			9.52				
	Cold water in			inch G 3/4" (female)				
	Hot water in			inch G 3/4" (female)				
	out			inch G 3/4" (female)				
Safety devices	Item			01	Thermal cut out			
	General			Supplier/	Name and address	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
Manufacturer details				Name or trademark	Daikin Europe N.V.			
Coefficient of flow (kV)	Domestic hot water tank			m³/h	-			
Electrical specifications					CKHWS180BV3	CKHWS230BV3		
Power supply	Phase			1~				
	Frequency			Hz 50				
	Voltage			V 230				
Electric heater	Power supply			Voltage	V	230		
				Name	3V			
	Phase	1~						
		Current	Maximum running current	A	6.5			
	Zmax		List	Ω	see note 3			
	Minimum Ssc value			Equipment complying with EN/IEC 61000-3-12				
	Recommended fuses			A	10 (2)			

(1)Based on a dT of 45 K |

(2)2-pole 10A, curve 230V |

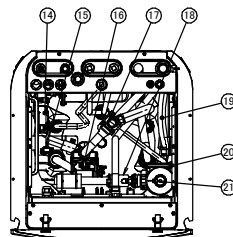
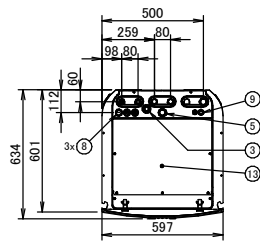
(3)Above mentioned power supply of the hydrobox is for the backup heater only. The switch box and the pump of the hydrobox are supplied via the outdoor unit.

3 Dimensional drawings

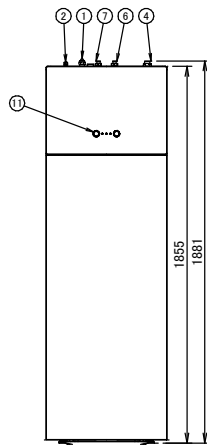
3 - 1 Dimensional Drawings

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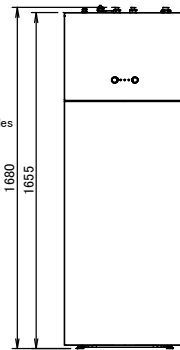
CKHWS-BV3



SERVICE PANEL OFF



CKHWS230*

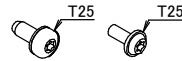


CKHWS180*

The typical field installation has to be done according to the applicable legislation.

For examples, refer to the installer reference guide.

Screws used in this unit:



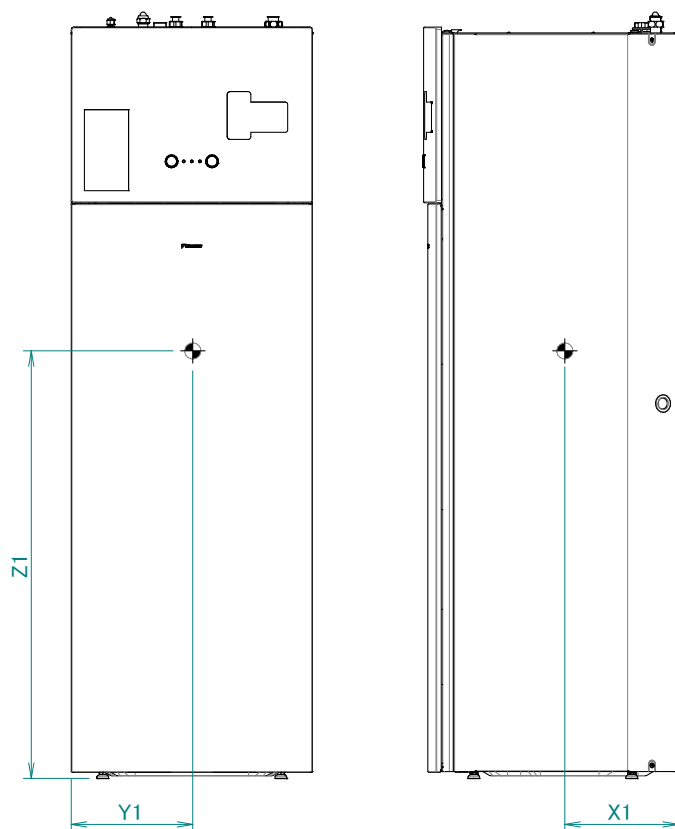
- ① Gas pipe connection ·Ø15.9 · flare
- ② Liquid pipe connection ·Ø 9.5· flare
- ③ Chimney ··
- ④ Water in connection ·1" BSP·
- ⑤ Recirculation connection ·G3/4"· (female)
- ⑥ Domestic hot water: cold water in ·3/4" BSP-F·
- ⑦ Domestic hot water: hot water out ·3/4" BSP-F·
- ⑧ High voltage wiring intake ·Ø24 mm·
- ⑨ Low voltage wiring intake ·Ø15 mm·
- ⑩ Levelling feet
- ⑪ User interface
- ⑫ Drain outlet
- ⑬ Hydro module service panel
- ⑭ Water filter
- ⑮ Space heating water pressure sensor
- ⑯ Pump
- ⑰ Pressure relief valve
- ⑱ Flow sensor
- ⑲ Expansion vessel
- ⑳ Backup heater
- ㉑ Air purge

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4 Centre of gravity

4 - 1 Centre of Gravity

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CKHWSU-BV3



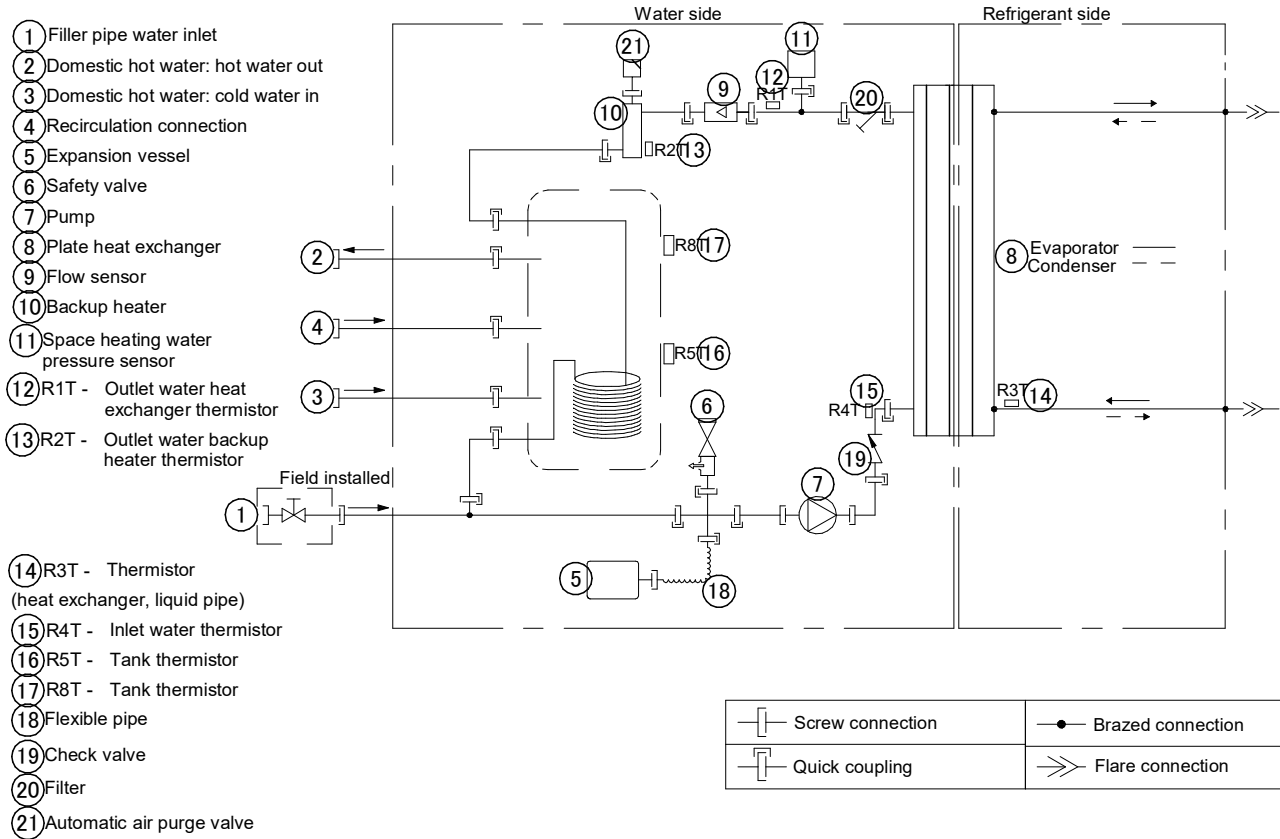
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5 Piping diagrams

5 - 1 Piping Diagrams

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CKHWS-BV3 CKHWSU-BV3



6 Wiring diagrams

6 - 1 Wiring Diagrams - Single Phase

CKHWS-BV3
CKHWSU-BV3

NOTES to go through before starting the unit

X1M	: Main terminal	①	: Several wiring possibilities
X2M	: Field wiring terminal for AC		: Option
X5M	: Field wiring terminal for DC		: Wiring depending on model
X6M	: BUH Power supply terminal		: Not mounted in switch box
—————	: Earth wiring		: PCB
-----	: Field supply		

NOTES

1. Connection point of the power supply for the BUH/BSH should be foreseen outside the unit.

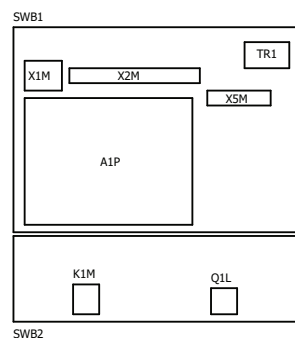
Backup heater power supply

- ☐ 3V (1N~, 230V, 1,5kW)

User installed options:

- ☐ Remote user interface
- ☐ WLAN adapter module
- ☐ WLAN cartridge

POSITION IN SWITCH BOX



LEGEND

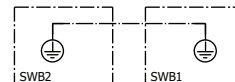
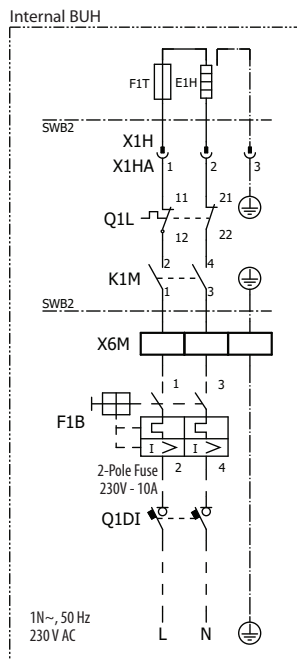
Part n°	Description
A1P	main PCB
A9P	status indicator
A11P	MMI main PCB
A14P	* user interface PCB
A20P	* WLAN module
B2L	pulse type flow sensor
B1PW	water pressure sensor
E1H	backup heater element (1,5 kW)
E*P (A9P)	indication LED
F1B	# overcurrent fuse backup heater
F2B	# overcurrent fuse main
F1T	thermal fuse backup heater
FU1 (A1P)	fuse T 5 A 250 V for PCB
K1M	contactor backup heater
K*R (A1P)	relay on PCB
M1P	main supply pump
M2P	# domestic hot water pump
P1M	MMI display
Q1L	thermal protector backup heater
Q*DI	# earth leakage circuit breaker
R1T	outlet water heat exchanger thermistor
R1T (A14P)	* ambient sensor user interface
R2T	outlet backup heater thermistor
R3T	refrigerant liquid side thermistor
R4T	inlet water thermistor
R5T, R8T	domestic hot water thermistor
SW1~2 (A11P)	turn buttons
SW3~5 (A11P)	push button
TR1	power supply transformer
X6M	# BUH power supply terminal strip
J*, X*, X*A, X*H*, X*Y	connector
X*M	terminal strip

* : optional

#: field supply

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CKHWSU-BV3



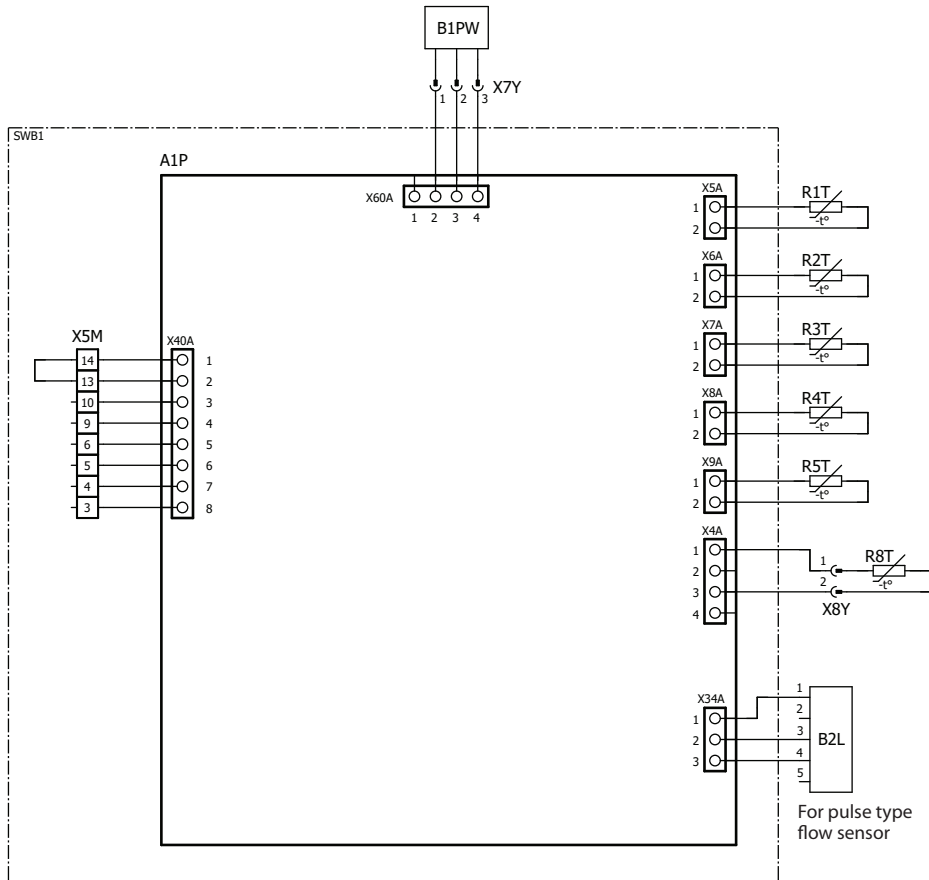
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6 Wiring diagrams

6 - 1 Wiring Diagrams - Single Phase

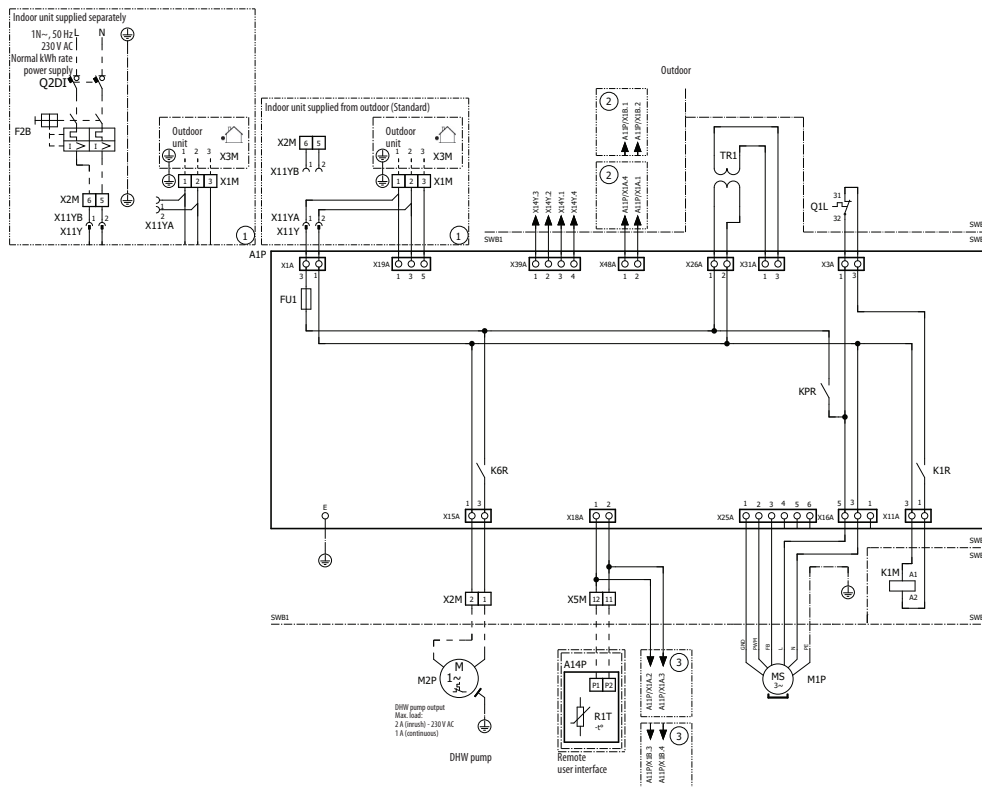
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CKHWSU-BV3



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CKHWSU-BV3

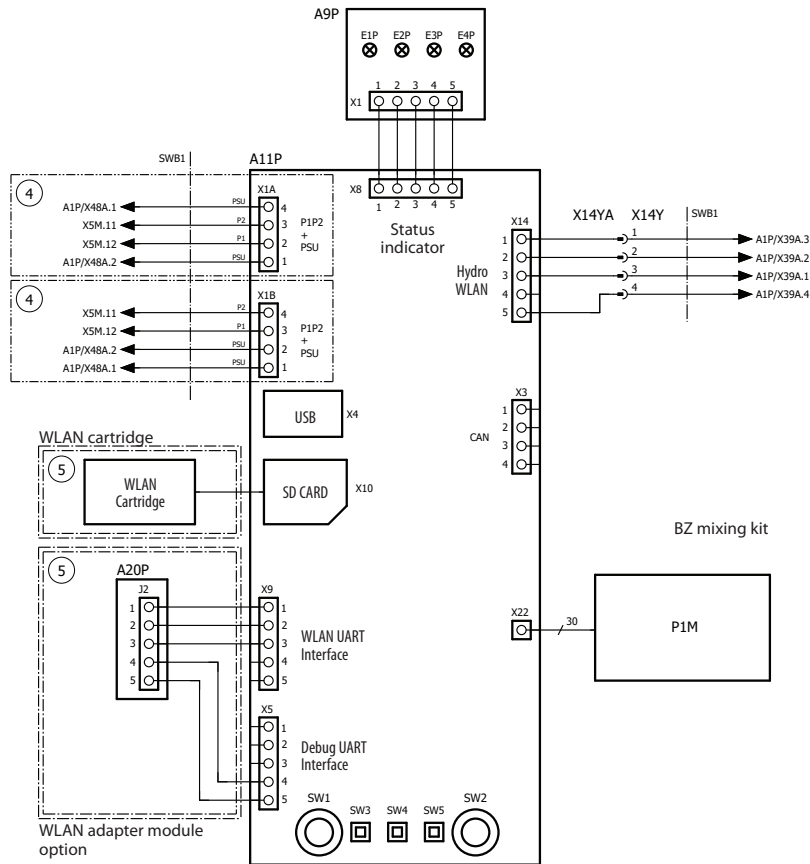


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6 Wiring diagrams

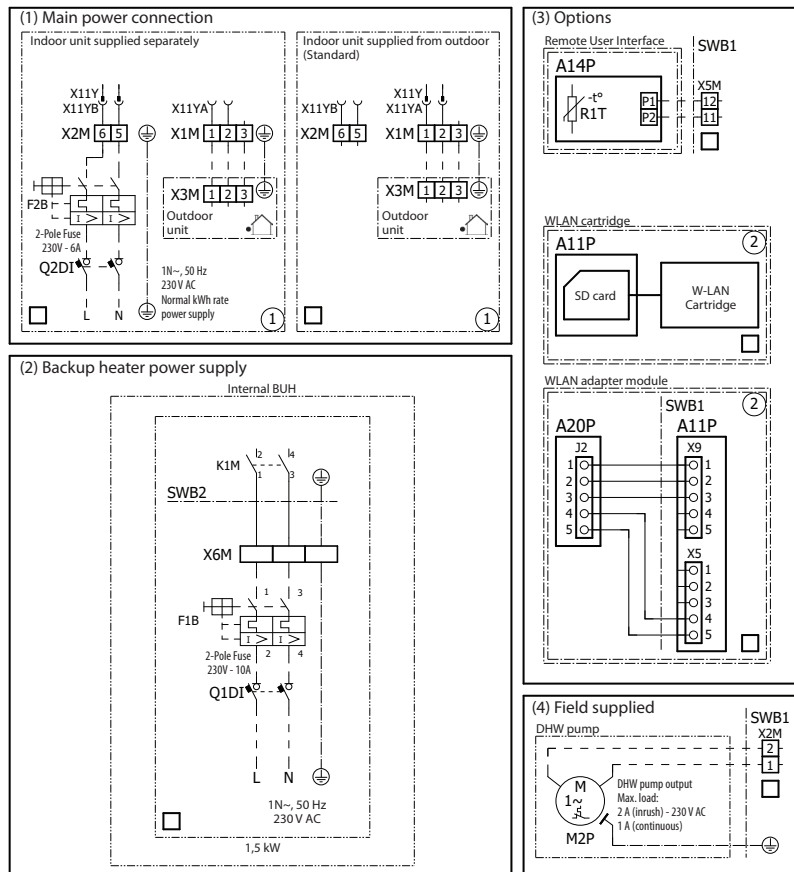
6 - 1 Wiring Diagrams - Single Phase

CKHWS-BV3
CKHWSU-BV3



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CKHWS-BV3
CKHWSU-BV3



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6 Wiring diagrams

6 - 1 Wiring Diagrams - Single Phase

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CKHWS-BV3
CKHWSU-BV3

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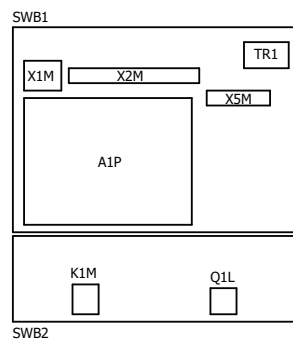
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LEGEND

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J*, X*, X*A, X*H*, X*Y	connector
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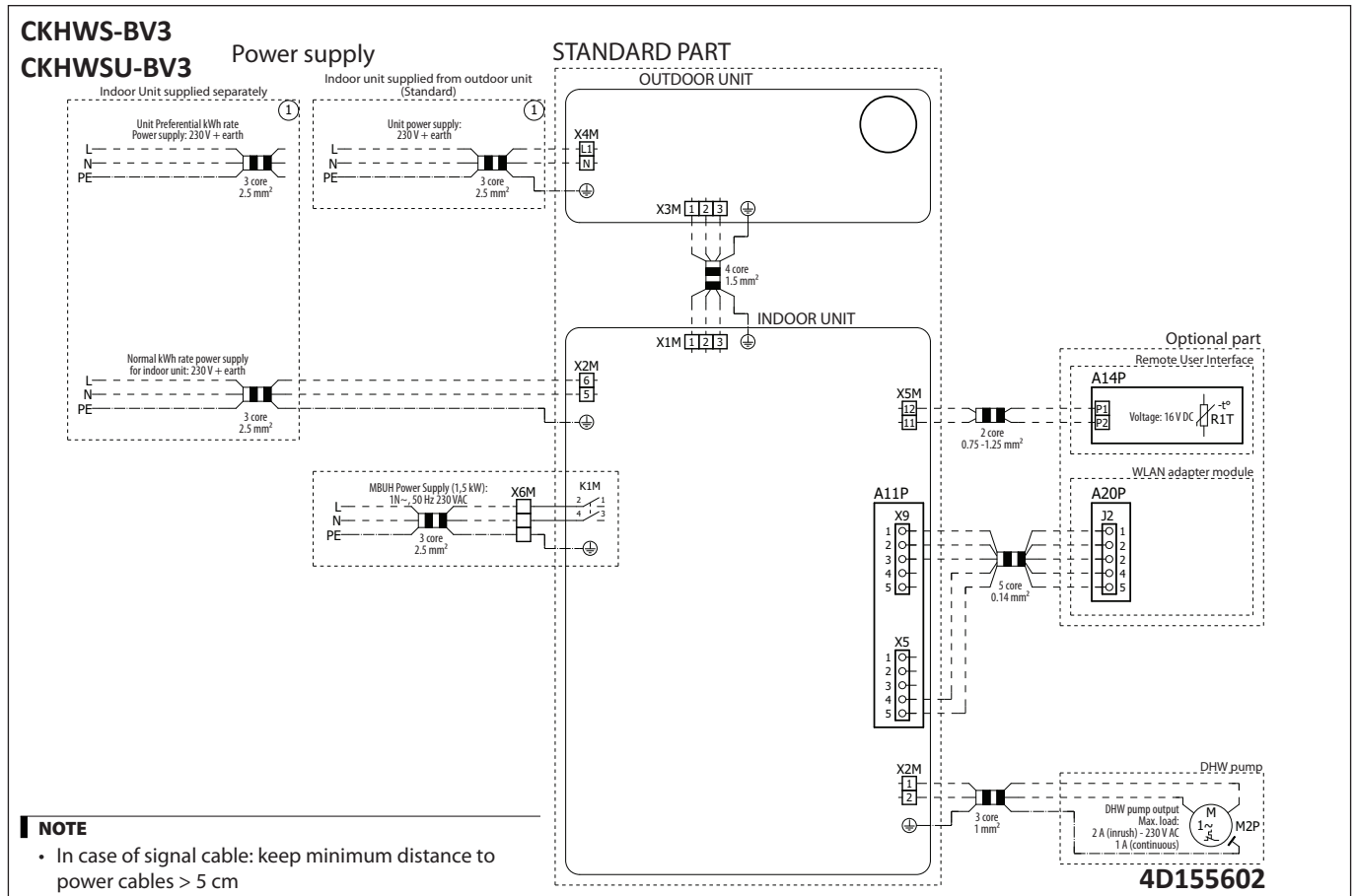
* : optional

#: field supply

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7 External connection diagrams

7 - 1 External Connection Diagrams

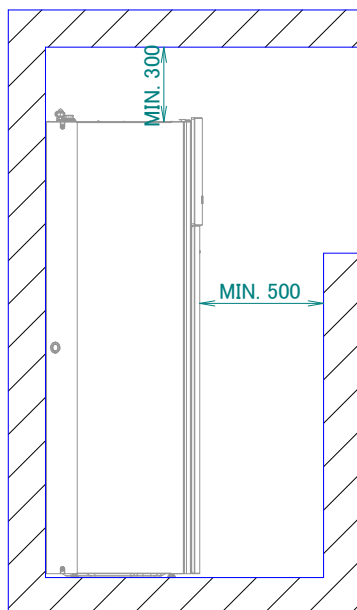
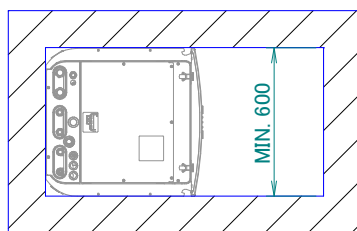


8 Installation

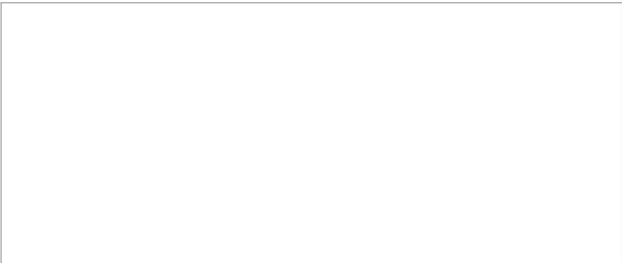
8 - 1 Installation Method

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