

HEAT EXCHANGER

HHEX-HCZA-120-XXX-030



PRODUCT OVERVIEW

DC Heat Exchanger

This series of products can be widely used in an enclosed area for climate control, such as wireless communication cabinet, battery cabinet, industry control cabinet, ICT cooling & Micro Data Centre applications and much more.

Anti Corrosive heat exchanger coils for cooling, in and outdoor airflow is separate which can realize multiple automatic protection and comprehensive self-testing function. If Hunterhex lithium batteries are used CANbus is included.

Feature & benefits

- Multiple self-protection design & Interchangeable monitoring software interfaces, RS485 communication (MODBUS protocol) sockets for remote communication or with separate logins via mobile, computer or pads.
- Circulation fans with step-less speed regulation function: Dry contact alarm output, NO/NC optional.
- IP 55 protection grade between internal and external air flow. • Passive cooling by external air flow heat transfer without air flow mixing.
- High efficiency with COP > 6-10. • Intelligent control logic.
- Eliminates dust contamination caused by direct airflow.
- Design lifetime: 10 years +
- Panel mounting type for easy installation.
- LED display, all the settings can be done at the sites.
- The heating function is optional.
- Variable speed control to minimize power consumption and noise level.
- World known brand components and strict production process, 100% factory testing.

Contact Details

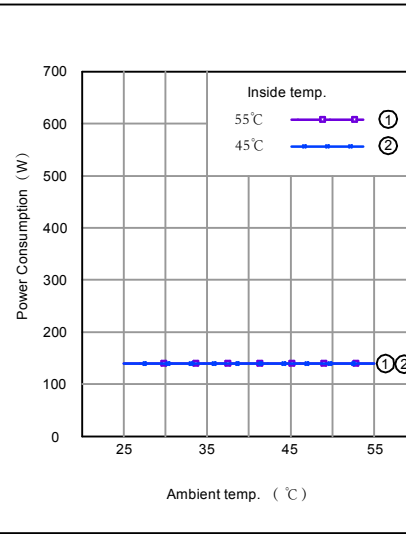
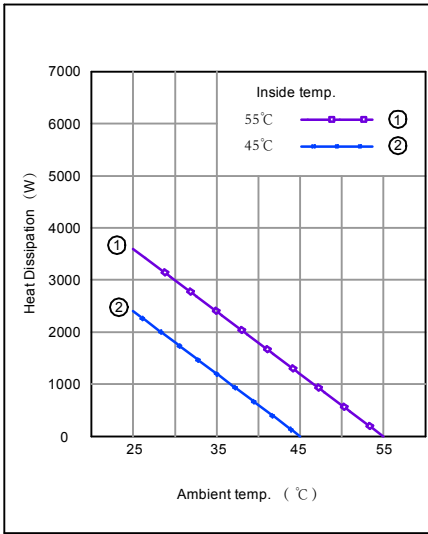
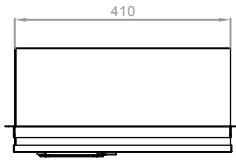
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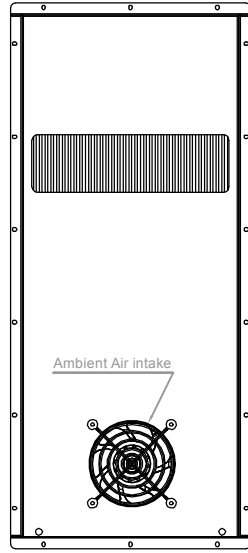
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Model Definition:
 HCZA-120-005-030
 HCZA-120-000-030

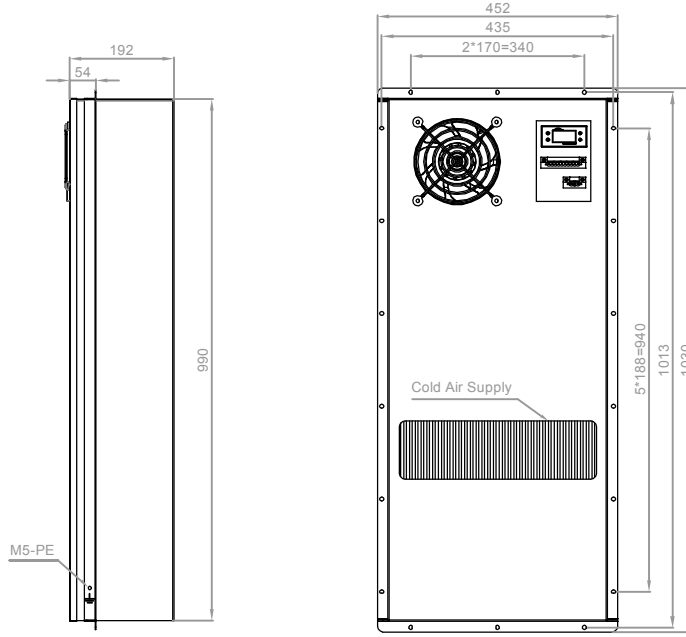
030: Product ID
 000: No heater, 005: Heater Size 500W
 120: Heat Exchange capacity 120W / K
 A: Air Cooling
 Z: DC Power Supply
 C: Cabinet Application
 H: Heat Exchanger



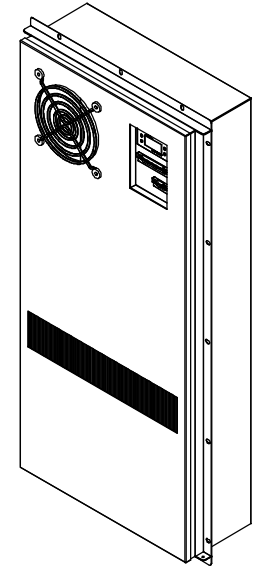
DC power supply range	48VDC (40 ~ 60VDC)
Heat Exchange capacity	120W / K
Rated power Consumption	140W
Rated current	2.9A
Inner circulation air flow rate	500m³ / h
Display	LED
Heater	500W (Option per order)
Heater power supply range	230VAC±15% 50 / 60Hz
Operating temperature range	-15°C ~ +65°C
Max. noise level	65dB(A) @ 1.0m away
IP protection level	IP55 - between external and internal interface
Net weight	22Kg
Outer dimension	990x410x192 (mm,HxWxD)
Certification	CE
Surface treatment	Outdoor type powder coating, standard color: RAL7035
Lifetime	10 years



Ambient Side

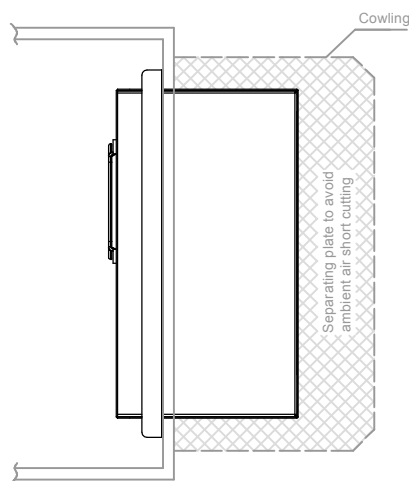
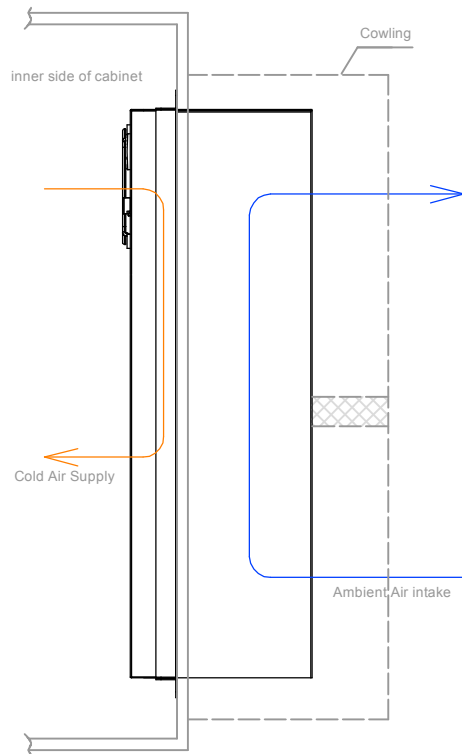


Inner Side



		P/N: 511030	Ver.: A
		Name: 120W / K DC HEX	
		Model: HCZA-120-005-030	
		HCZA-120-000-030	

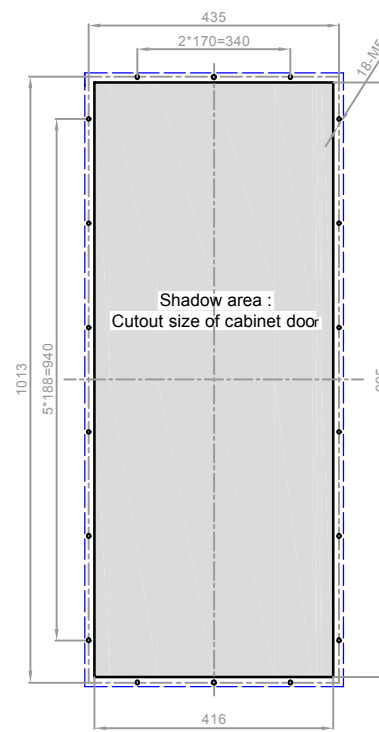
Figure 1 - Installation tips if extra cowling needed by customer



Note:
 It is not recommended to add extra cowling

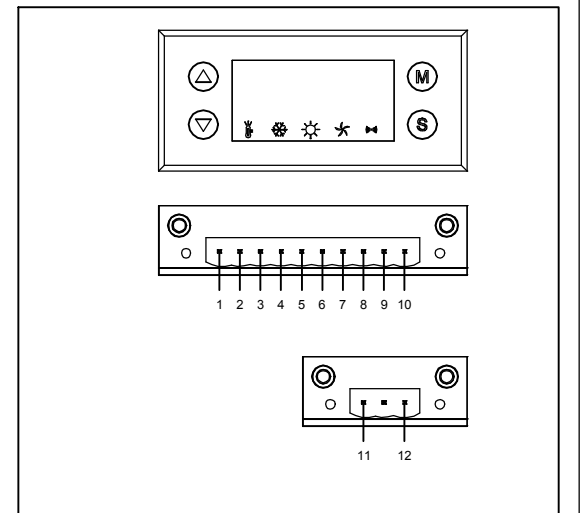
While if customer insist on doing that, please follow below rules:
 1. The louvers for ambient air intake and discharge must keep 70% above open area for having sufficient air flow
 2. A separating plate must be added to avoid air short cut between intake & exhaust air

Figure 2 - Mounting interface with cabinet door



Blue dashed rectangle : Air conditioner projected dimension on door (1030x452mm)

Figure 3 - Wiring interface with customer circuit



No.	symbol	Definition
1	T/R+	T/R+ port for RS485 communication
2	T/R-	T/R- port for RS485 communication
3	NC	Normally Closed port for alarming signal output
4	COM	Common Port for Alarming signal output
5	NO	Normally open port for alarming signal output
6	CONTROL	Control signal input : on / off dry switch type
7	/	/
8	/	/
9	+V	Pole : DC - positive
10	-V	Pole : DC - negative
11	L	Pole : AC - L
12	N	Pole : AC - N

Display explanation :
 LED will show inner air temp. at normal working, while also show alarming code when alarming triggered.

- Status bar : with indicator light
- Keep lighting when do parameter setting
 - Keep blinking when unit carry out self testing process
 - Keep lighting under normal cooling operation
 - Keep lighting under normal heating operation
 - Keep lighting when external cycle fan start working
 - Keep blinking for alarming triggered

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