

# HEAT EXCHANGER

HHEX-HCZA-180-XXX-040

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# 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

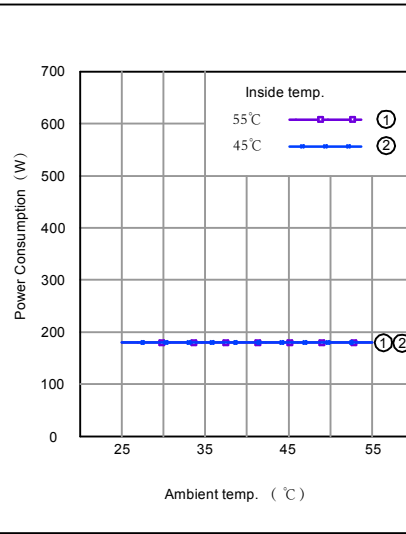
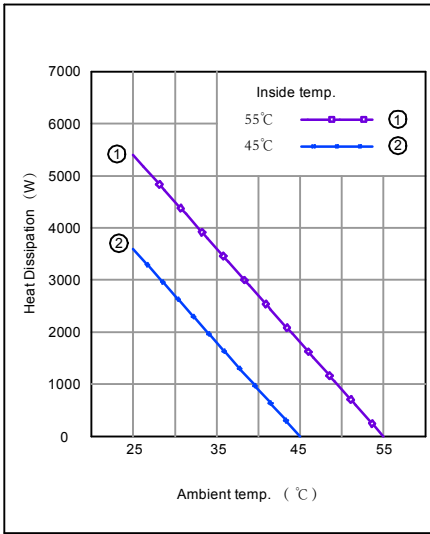
T. +46 763 916 550

info@hunterhex.com  
sales@hunterhex.com

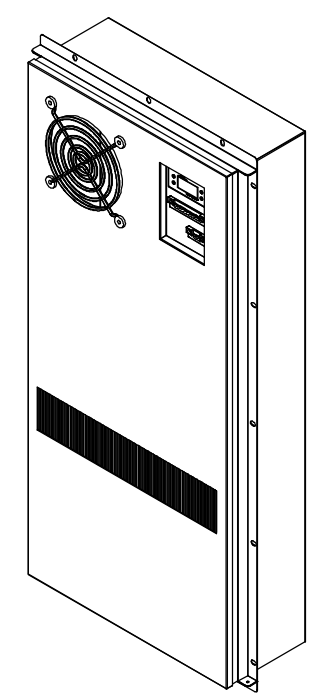
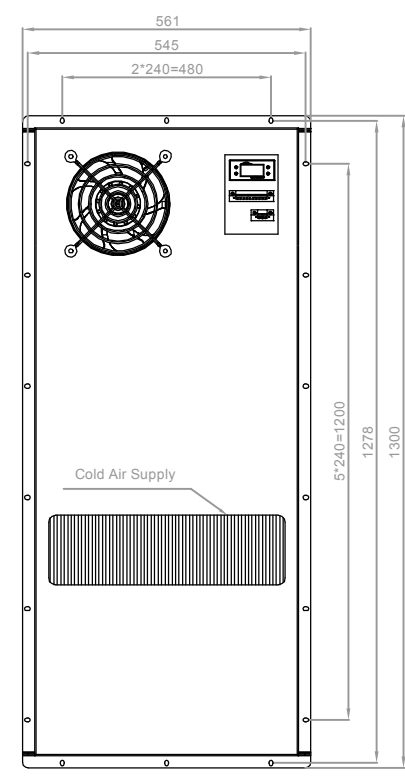
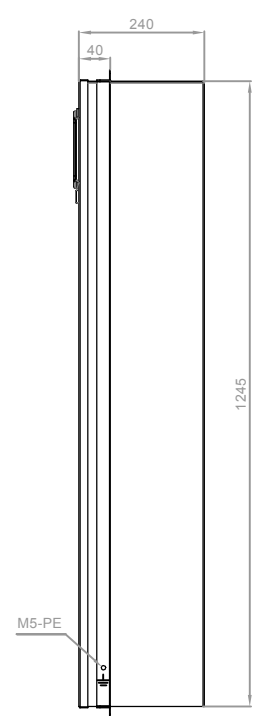
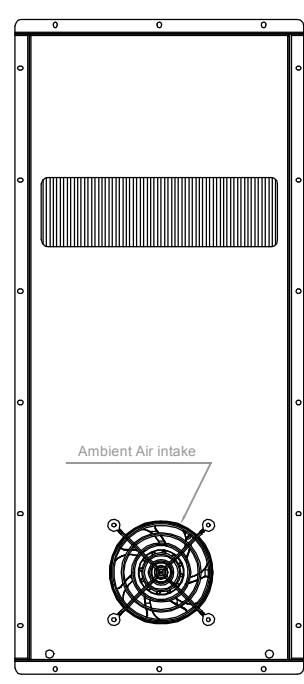
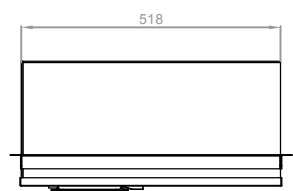
HUNTERHEX AB  
EMEA Office  
Färögatan 33  
SE-164 51 Kista  
Sweden

Model Definition:  
 HCZA-180-010-040  
 HCZA-180-000-040

040: Product ID  
 000: No heater; 010: Heater Size 1000W  
 180: Heat Exchange capacity 180W / K  
 A: Air Cooling  
 Z: DC Power Supply  
 C: Cabinet Application  
 H: Heat Exchanger

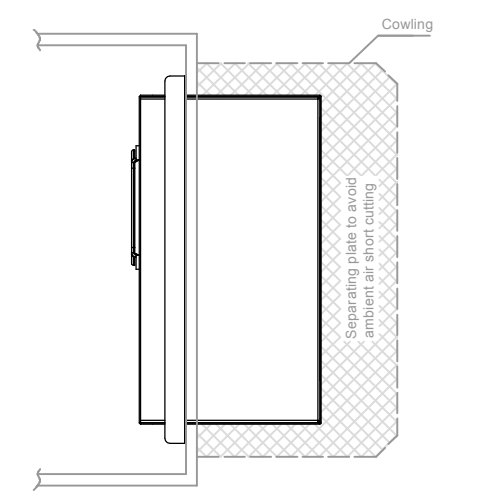
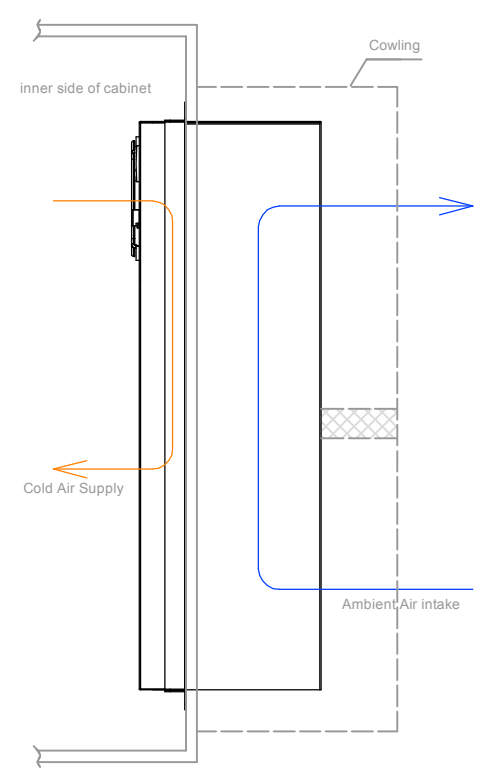


DC power supply range	48VDC (40 ~ 60VDC)
Heat Exchange capacity	180W / K
Rated power Consumption	180W
Rated current	3.8A
Inner circulation air flow rate	800m³/h
Display	LED
Heater	1000W (Option per order)
Heater power supply range	230VAC±15% 50 / 60Hz
Operating temperature range	-15°C ~ +65°C
Max. noise level	65dB(A) @ 1.0m away
IP protection level	IP55 - between external and internal interface
Net weight	30Kg
Outer dimension	1245x518x240 (mm,HxWxD)
Certification	CE
Surface treatment	Outdoor type powder coating, standard color: RAL7035
Lifetime	10 years



P/N: 511040		Ver.: A
Name: 180W / K DC HEX		
Model: HCZA-180-010-040		
HCZA-180-000-040		

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

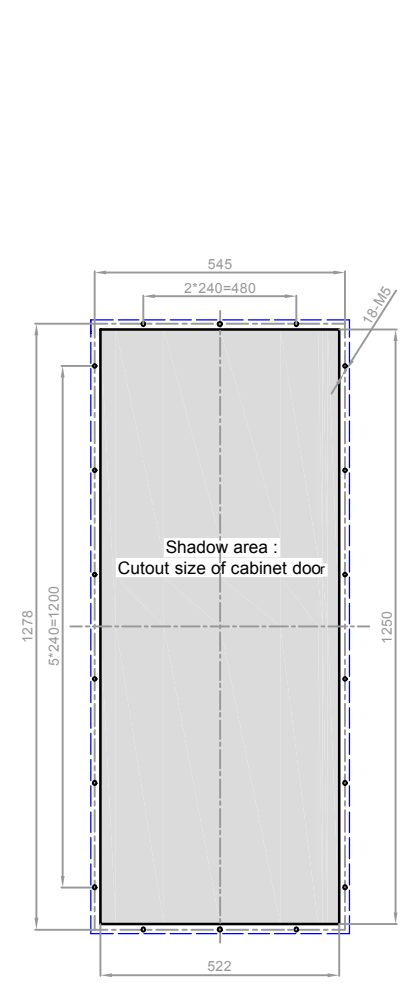
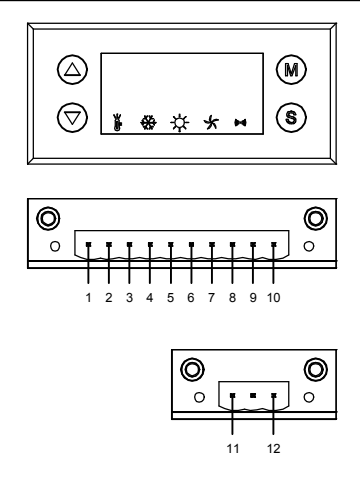


Figure 3 - Wiring interface with customer circuit



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		
7	CONTROL	Control signal input : on / off dry switch type
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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