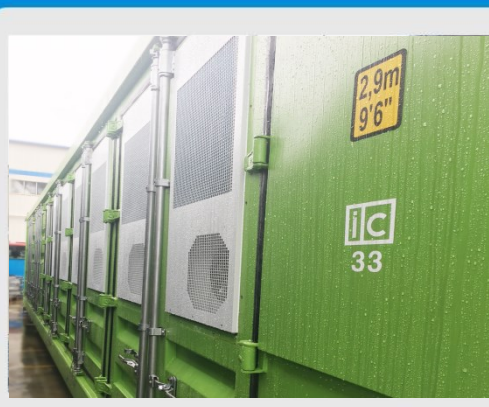


Door Mounted Integrated Air Conditioner Introduction







Shenzhen Envicool Technology Co., Ltd.

Professional · Value · Trust

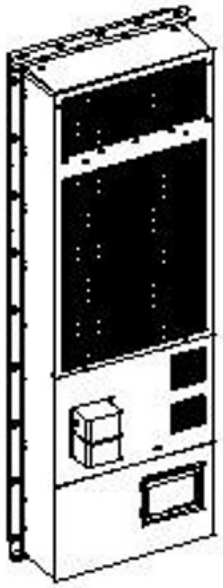
Become a first-class enterprise in the professional equipment environment control field through sustained development and persistent efforts

Envicool MC Series Air Conditioner

Envicool is a professional thermal control solutions provider , committed to providing solutions for cloud computing data centers, communication networks, IoT infrastructure and various professional environmental control fields. The MC series energy storage air conditioner is an integrated frequency conversion air conditioner, which can be widely used in energy storage container, small data center, etc. The integrated design of indoor and outdoor units reduces installation costs for users. The indoor installation method allows users to directly support the output without installation at the application site, with good appearance and anti-theft function.

The system consists of six parts: internal circulation fan, external circulation fan, compressor, evaporator, condenser and control module.

Envicool also has many other series of products, which are widely used in Telecom, IoT, Smart Grid, Rail Transit, Finance, Medical Care, EV bus/car and other industries. You can search for more information on our website: www.envicool.net .



MC90HDNC1U

MC90HDNC1U is a compact, high efficient AC powered air conditioner.

The design is optimized for applications with limited space available, but where functionality and performance still cannot be compromised.

- AC power input: 220V 50/60Hz
- 10.2kW cooling capacity @L35/L35 50/60Hz, 3kW heating capacity as standard
- Door mounted – easy integration in energy storage applications
- Wide working temperature range: -30ºC to +55 ºC

BENEFITS

- Using inverter compressor technology, high efficiency and energy saving
- Professional humidity design, control relative humidity
- Fan speed regulation function as standard, saving energy and low noise
- Self-start when power restart and provide varieties of alarm reports and protection
- Lifetime >10 years – minimum maintenance
- Environmentally friendly – R134a and RoHS compliant
- Dedicated design by delay start
- RS485 for remote control
- Fully front maintenance, reducing service cost

APPLICATION

- Energy Storage Container
- Power Station
- Small Data Center
- Power prefabricated cabinet

Data Sheet

Parameter / Model		MC90HDNC1U
Dimensions, Weight & Mount		
External Dimensions (H x W x D) With Flange	mm	1770×620×300
Weight	kg	125
Mounting Method		Door Mounted
Application		Outdoor
Environmental Protection & Performance		
Working Ambient Temperature Range	ºC	-30 ~ +55
IP Protection		IP55
Refrigerant		R134a/2.9kg
RoHS Compliant		Yes
Cooling/Heating Capacity		
Total Cooling Capacity@L35/L35 50/60Hz	kW	10.2
Heating Capacity	kW	3
Internal Circulation Air Volume	m^3 /h	2900
Power Consumption		
Power Consumption@L35/L35	kW	4.1
Current@L35/L35	A	19.5
Power Supply		
Power Supply Range	V, Hz	187~253,50/60
Max. Current	A	35

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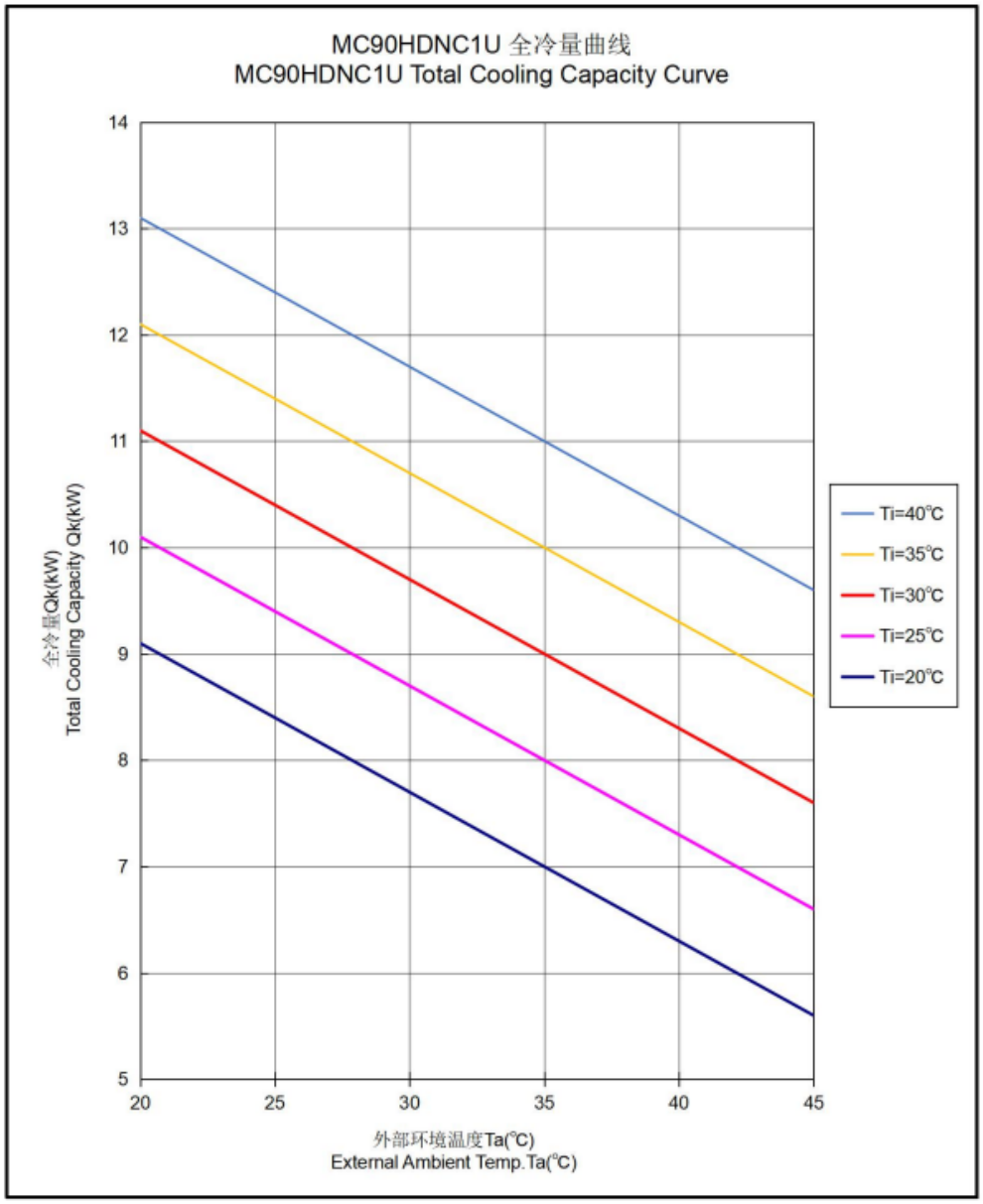
Cooling Capacity Curve



Remarks:
①Ti-Cabinet return air temperature; Ta-External ambient temperature; Qk-Equipment's rated total cooling capacity.
②Test power:220V 50Hz. Return air temperature at 50% R.H.

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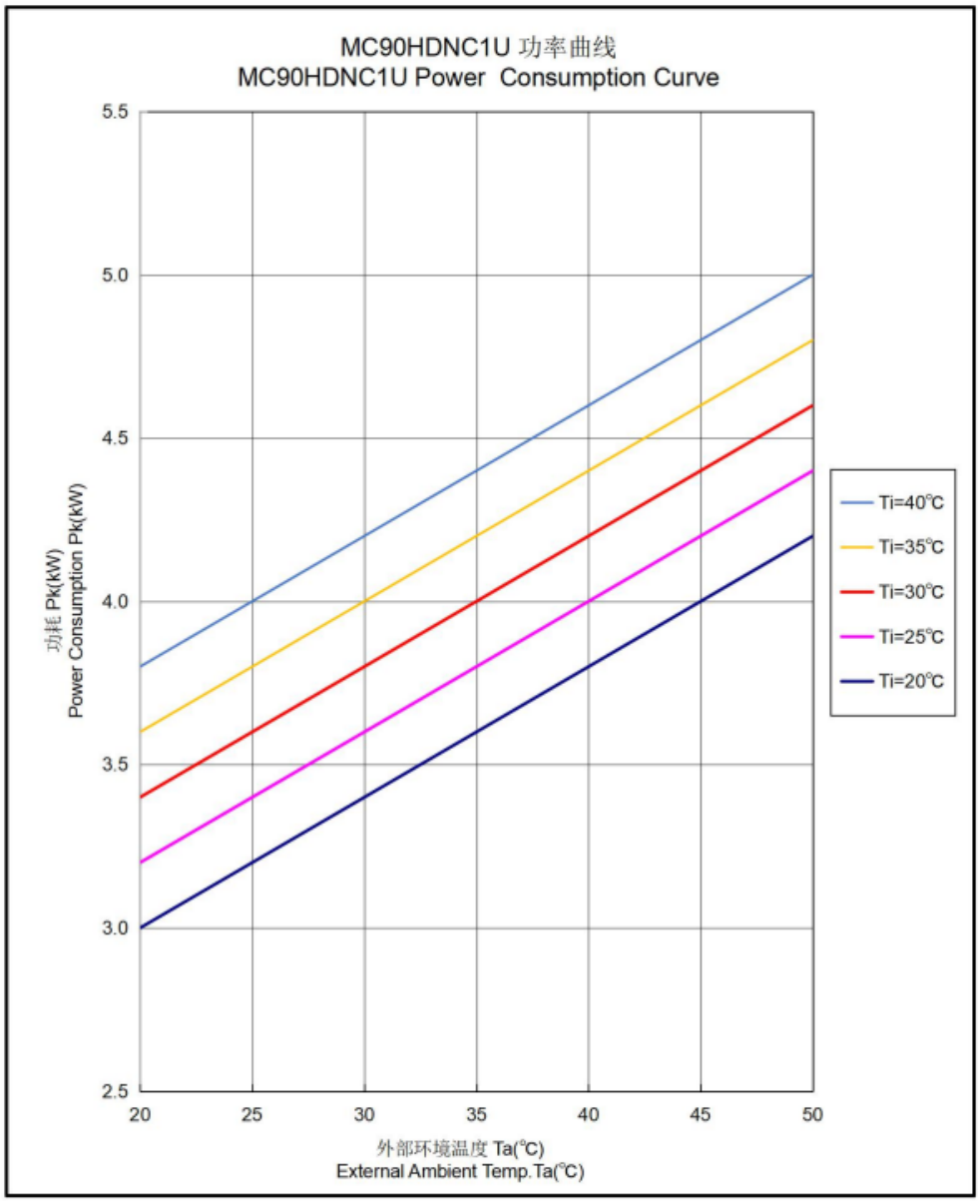
Power Consumption Curve



Remarks:

①Ti-Cabinet return air temperature; Ta-External ambient temperature; Pk-Equipment's rated Power Consumption.

②Test power:220V 50Hz. Return air temperature at 50% R.H.

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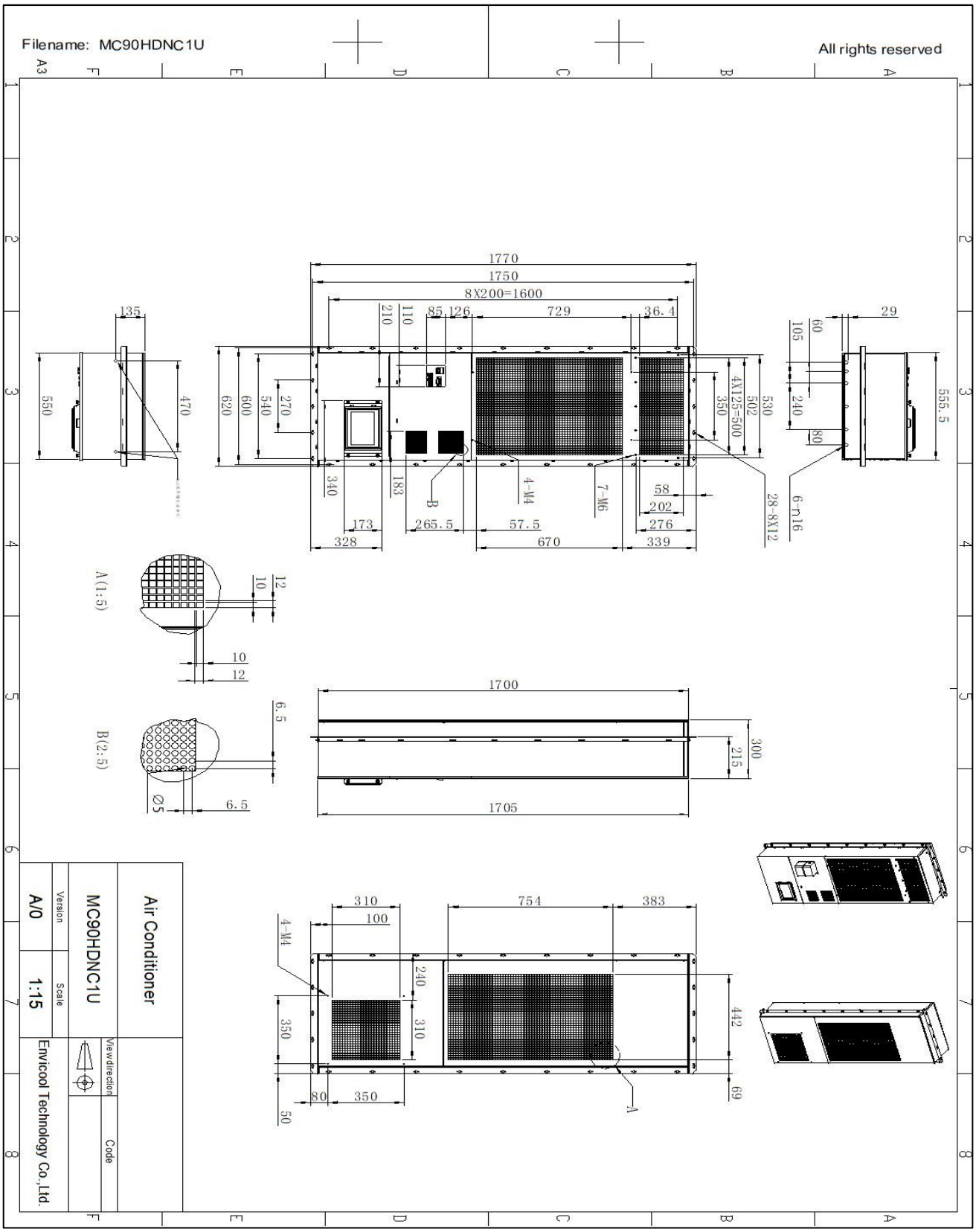
Dimension:



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