

ISO9001 ISO14001 GB/T45001



# 集装箱专用空调

CONTAINER AIR CONDITIONER



创造价格以外的价值

预制的电气房或储能箱舱冷却  
Cooling of Prefabricated Electrical Rooms or Energy Storage Enclosures



宁波惠康实业有限公司·国家高新技术企业  
NINGBO HICON INDUSTRY CO.,LTD. NATIONAL HI-TECH ENTERPRISE

地址：浙江省余姚市泗门镇四海大道77号

ADD: Sihai Road, #77, Simen Town Yuyao Zhejiang P.R.China

电话 (TEL) : 0574-62132299 62132962 62132905

全国统一客服热线 (National Service Hotline): 0574-62132900

传真(FAX): 0574-62131000

邮政编码 (P.C.) : 315470

http://www.hiconcn.com

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## 产品概述

### Product Overview

本专用空调是针对工厂预制化制造的新能源变电电气房、电池储能箱舱、石油勘探输送电气房、铁路和公路通讯物联基站、海上平台或海岸码头电气房、军用特种方舱等以集装箱型式或类似模块化标准化设计承载的电力设施进行配套设计的专用工业空调产品。

**This air conditioner is a dedicated industrial air conditioning product designed for electric power facilities, such as prefabricated new energy substation electrical rooms, battery energy storage enclosures, oil exploration and transportation electrical rooms, railway and highway communication IoT base stations, offshore platforms or coastal wharf electrical rooms and special military shelters, which are carried by containers or similar modular standardized design.**

本专用空调可满足各类电气房、储能箱舱、物联基站的功能要求、结构型式要求、配合尺寸要求，具有优秀的适配性、可靠性、温湿度调节能力、气候温度适应能力，具有物联级数据信息的交互能力，具备较高的能效和优良品质满足用户应用需求。

This dedicated air conditioner can meet the functional requirements, structural type requirements, and mating dimension requirements of various electrical rooms, energy storage enclosures, and IoT base stations. It has excellent compatibility, reliability, temperature and humidity regulation capability, and climate and temperature adaptability, as well as IoT-level data information interaction capability. It can meet the user's application requirements with its higher energy efficiency and excellent quality.

## 产品特点

### Product Features

#### 高显热比

##### High sensible heat ratio

电气箱舱内高密度布置的电气或电池设备运行释放大量显热，空调专门设计成大风量小焓差特点，显热比达到 85% 以上，使房间保持不过于干燥的情况下快速进行环境冷却。

The high-density electrical or battery equipment in electrical enclosures releases a large amount of sensible heat during operation. The air conditioner is specially designed with high airflow and small enthalpy difference, with a sensible heat ratio of over 85%, so that the room can be cooled quickly while not being too dry.

#### 冷热双设功能

##### Cooling and heating dual function

专用空调独具制冷和制热独立预设控温功能，可分别设定好各自的控制温度，自动模式实现无人值守运行。

The dedicated air conditioner is featured by independent preset temperature control function for cooling and heating, and the control temperature for these two options can be set respectively, achieving unattended operation in auto mode.

#### 高湿除湿功能

##### High-humidity dehumidification function

电气箱舱在山区、南方、江海地域附近应用时，周边环境湿度大，箱舱内难免出现高湿情况，空调具备专业级温度补偿深度除湿功能，确保电气安全。

When electrical enclosures are applied in mountainous areas, southern areas and near rivers and seas, there is a high humidity in the surrounding environment, and high humidity is also inevitable in the enclosures. This air conditioner has a professional-grade temperature compensation and deep

dehumidification function to ensure electrical safety.

## 全年制冷能力

### Year-round cooling capacity

电气箱舱内部发热量大，运行需要全年进行制冷，专用空调加装有对策配件，和控制逻辑，使产品能够在严寒环境下稳定可靠的制冷运行。

There is a large amount of heat generation inside the electrical enclosures, which requires cooling during operation all year round. The dedicated air conditioner is equipped with countermeasure accessories and control logic, so that it can operate stably and reliably in the severe cold environment.

## 新风微正压功能

### Fresh air micro-positive pressure function

电气箱舱为提高防尘能力，可选配新风微正压功能，通过送风机强制抽入部分新风使室内形成微量正压防止粉尘由箱舱缝隙渗入，新风口设置有初效尼龙和 F5 袋式无纺布两级过滤。

In order to improve the dust prevention capability of electrical enclosures, the fresh air micro-positive pressure function can be optional. Some fresh air is forcibly pumped in by the blower to form micro-positive pressure in the chamber in order to prevent dust from infiltrating through the gaps of enclosures. The fresh air inlet is equipped with two-stage filtration of primary nylon and F5 bag-type non-woven fabric.

## 高能效比

### High energy efficiency ratio

产品采用高效能压缩机，高富裕度设计的换热器，也可选配更高效能 EC 无极调速风机使产品具有较高的能效比，满足节能降耗要求。

The product adopts a high-efficiency compressor and a high-redundancy heat exchanger. It can also be equipped with a more efficient EC stepless speed regulating fan, so that it has a higher energy efficiency ratio and meets the requirements of energy conservation and consumption reduction.

## 轮值切换功能

### Rotation switching function

空调可选配 1+1 或 N+1 轮值切换功能，非常适用于一些偏远地方和重要场景增设空调备用机应用，可实现双机自动轮值交替运行，故障切换运行，高负载自动投入备用机运行功能，达到高安全性需要。

The air conditioner can be equipped with 1+1 or N+1 rotation switching function, which is very suitable for the application of adding air conditioning standby units in some remote places and important scenarios, so as to achieve double-unit automatic rotation and alternate operation, failover operation, and automatic standby unit operation under high load, to meet high safety requirements.

## 微电脑控制

### Microcomputer control

空调控制采用专门开发实现高可读性和维护性的大屏幕液晶四行文本控制器，可中/英文字切换，导航菜单式用户界面，设置参数，运行数据，端口状态，故障信息均具有优秀的人机交互能力，PCB 表面按照 IPC-CC-830B 标准涂覆三防漆，可以有效防止潮气、盐雾、弱酸、弱碱的侵蚀，实现高可靠性。预留 RS485 通讯端口可与上位机全参数交互，实现多机联网远程集中监控和数据交换能力。

A large screen LCD four-line text controller specially developed to achieve high readability and maintainability is adopted for air conditioning control. It can switch between Chinese and English, has a navigation menu-based user interface, and has excellent man-machine interaction capability in

terms of parameters setting, operating data, port status and fault information. PCB surface is coated with conformal coating according to the IPC-CC-830B standard, which can effectively prevent the corrosion of moisture, salt spray, weak acid and weak alkali and achieve high reliability. The reserved RS485 communication port can interact with the upper computer for all parameters to achieve multi-unit networking remote centralized monitoring and data exchange capabilities.

## 通讯监控能力

### Communication monitoring capability

空调控制提供 RS-485 通讯接口，采用标准 MODBUS-RTU 协议与上位机联通交互，实现多机联网远程数据交换和集中监控管理，具有本地和远程两种控制模式，具备三通功能：

The RS-485 communication interface is provided for air conditioning control, and the standard MODBUS-RTU protocol is adopted to interact with the upper computer to achieve multi-unit networking remote data exchange and centralized monitoring and management. It has two control modes: local and remote, and has "three-remote" functions:

通测：具备远程检测机房内温湿度。

Remote detection: Capable of remotely detecting the temperature and humidity in the machine room.

通信：可远程读取空调运行状态参数和故障信息。

Remote information: Capable of remotely reading the operating status parameters and fault information of air conditioner.

通控：可远程控制空调的开关和相关参数的设置。

Remote control: Capable of remotely controlling the switch of air conditioner and the setting of related parameters.

## 掉电自启动

### Power failure auto-start function

为适合中国城市、乡村或野外供电电网状态不稳定的情况，特别设计了掉电自启动功能，在突遇停电后不久再来电时，机组记忆并保持断电前空调的运行状态自动启动运行。

In order to adapt to the unstable power grid conditions in Chinese cities, rural areas or remote areas, the power failure auto-start function is specially designed. In the event of a sudden power failure followed by a power restoration, the unit will remember and maintain the operating status of the air conditioner before such power failure, and automatically start running.

## 新风制冷功能

### Fresh air cooling function

空调可选配低环温自动新风制冷功能，选配外设独立新风过滤风机箱，实现空调和新风一体化联控，具有新风量无级调节，过滤器维护方便，节能降耗能力。

The air conditioner can be equipped with the low ambient temperature automatic fresh air cooling function, and an independent peripheral fresh air filter fan case can be equipped to achieve integrated joint control of air conditioning and fresh air. It has stepless adjustment of fresh air volume, easy filter maintenance, and energy conservation and consumption reduction capabilities.

## 特殊防腐能力

### Special anti-corrosion capacity

专用空调根据用户使用场合划分为陆用普通型、陆用防腐型和海用防腐型三类特殊应用，机组钣金材质、换热器材质、管路表面防腐工艺，风机和控制箱 IP 等级均可根据应用需求进行适配设计生产。

Dedicated air conditioners can be divided into three types of special applications according to the

user's usage occasions: land-based ordinary type, land-based anti-corrosion type, and sea-based anti-corrosion type. The sheet metal material of the unit, material of heat exchanger, pipeline surface anti-corrosion process, and IP rating of the fan and control box can be adapted, designed and produced according to the application requirements.

## 质量保证与安全认证

### Quality assurance and safety certification

专用空调产品从设计、开发、制造、安装到售后服务完全依照 ISO9001 国际质量认证体系进行，产品研发均经过国家级空调性能实验室测试，零部件装机前均经过合格检验，每台机组出厂请均经过严格的运行检测。

The design, development, manufacturing, installation and after-sales service of the dedicated air-conditioning product are carried out in full accordance with the ISO9001 international quality certification system. The product development has been tested by a national air-conditioner performance laboratory, the parts and components have passed the inspection before assembly, and each unit has undergone strict operational testing before delivery.

## 型号说明:

### Model Description:

**CAC - 125 Z H I 3 D Z P M R 2**

1      2      3      4      5      6      7      8      9      10      11      12

1、集装箱专用空调

1. Container air conditioner

2、名义制冷量: 12.5kW

2. Nominal cooling capacity: 12.5kW

3、机组类型: Z 整体式, N 内置整体式, S 分体式, W 室外机

3. Unit type: Z: integral, N: built-in integral, S: split, and W: outdoor unit

4、安装方式: H 壁挂式, V 立柜式, E 半嵌入式, A 角柜式, T 顶置式, D 吊项, W 卧式

4. Installation method: H: wall-mounted, V: floor-standing, E: semi-embedded, A: corner cabinet, T: roof-top, D: ceiling-suspended, and W: horizontal

5、特殊类型: S 海用, I 变频, P 高原, V 车载, F 自然冷源, B 植物种植, 省略为陆用

5. Special type: S: sea-based, I: variable frequency, P: plateau, V: vehicle-mounted, F: natural cold source, B: plant cultivation, and it is land-based if the code is omitted

6、电源类型: 2:AC208-220V60Hz, 3:AC380V50Hz, 4:AC460-480V60Hz, 5:AC415V50Hz, 6:AC380-400V60HZ, 7: AC440V60HZ, 省略为单相 AC220V/50Hz

6. Power supply type: 2: AC208-220V60Hz, 3: AC380V50Hz, 4: AC460-480V60Hz, 5: AC415V50Hz, 6: AC380-400V60HZ, 7: AC440V60HZ, and it is single-phase AC220V/50Hz if the code is omitted

7、制热方式: D 电加热, 省略为单冷型

7. Heating mode: D: electrical heating, and it is single cooling type if the code is omitted

8、特殊功能: A 新风制冷, Z 微正压, L 低噪音, F 矮胖型, H 瘦高型, 省略为无要求

8. Special function: A: fresh air cooling, Z: micro-positive pressure, L: low noise, F: dumpy, H: lanky, and no requirement if the code is omitted

9、送风类型: P 前侧回风上侧风管送风, Q 前侧回风顶部风管送风, B 底部送风回风, S 上侧回风下侧面送风, V 上侧回风底部送风, U 顶回风下侧直接送风, T 顶回风底部送风, F 后回风顶送风, O 顶回风顶部送风, 省略为直接送风

9. Air supply type: P: front air return, upper duct air supply, Q: front air return, top duct air supply, B: bottom air supply and air return, S: upper air return, lower air supply, V: upper air return, bottom air supply, U: top air return, lower direct air supply, T: top air return, bottom air supply, F: rear air return, top air supply, O: top air return, top air supply, and direct air supply if the code is omitted

10、冷媒类型: M:R410A, C:R407C, T:R134a, 省略为 R22

10. Refrigerant types: M: R410A, C: R407C, T: R134a, and it is R22 if the code is omitted

11、方向识别: R 右式机, L 左式机, N 内置压缩机, 省略无要求

11. Direction identification: R: right-hand unit, L: left-hand unit, N: built-in compressor, and no requirement if the code is omitted

12、非标标号: 1 机内无控制箱, a 超低温带风压差, 2... 数字顺延无特定

12. Nonstandard label: 1: No control box in the unit, a: air pressure difference in ultra-low temperature zone, 2... Not specific in case of number continuation

## 工况标准

### Standard of Working Conditions

| 工况类型<br>Type of Working Conditions  | 制冷工况<br>Cooling Conditions  |
|-------------------------------------|---|
| 标准工况<br>Standard conditions         | 室外温度 DB=35°C, WB=24°C; 室内温度 DB=27°C, WB=19°C<br>Outdoor temperature DB=35°C, WB=24°C; indoor temperature DB=27°C, WB=19°C |
| 机房工况<br>Machine room conditions     | 室外温度 DB=35°C, WB=24°C; 室内温度 DB=24°C, WB=17°C<br>Outdoor temperature DB=35°C, WB=24°C; indoor temperature DB=24°C, WB=17°C |
| 高温工况<br>High-temperature conditions | 室外温度 DB=46°C; 室内温度 DB=29°C, WB=19°C<br>Outdoor temperature DB=46°C; Indoor temperature DB=29°C, WB=19°C                   |

整体式集装箱专用空调-半嵌入式  
Integral Container Air Conditioner - Semi-embedded Type

| 项目 Item  | 型号 Model      |  | CAC-25ZEDL  | CAC-35ZEDL   | CAC-50ZED           | CAC-80ZE3D                       | CAC-100ZE3D  |
|--|---------------|--|---|--------------|---------------------|----------------------------------|--------------|
|  | 参数 Parameters |  |   |              |                     |                                  |              |
| 制冷量 Cooling capacity                             | kW            |  | 2.56  | 3.6          | 5.1                 | 8.0                              | 10.5         |
| 电加热功率 Electrical heating power                   | kW            |  | 1.0   | 1.0/2.0      | 2.0/3.0             | 3.0                              | 4.0          |
| 制冷运行功率 Cooling operating power                   | kW            |  | 1.15  | 1.40         | 2.02                | 3.16                             | 4.4          |
| 最大运行电流 Maximum operating current                 | A             |  | 7   | 8/12         | 12/16               | 9                                | 12           |
| 最大主动除湿电流 Maximum active dehumidification current | A             |  | 13  | 14/18        | 22/32               | 14                               | 32           |
| 循环风量 Circulating air flow                        | m³/h          |  | 600   | 850          | 1150                | 1700                             | 2150         |
| 主动除湿功能 Active dehumidification function          |               |  | 选配 Optional   |              |                     |                                  |              |
| 微正压 Micro-positive pressure                      |               |  | 选配 Optional   |              |                     |                                  |              |
| 通讯端口 Communication port                          |               |  | RS-485 端口, MODBUS-RTU 通讯协议<br>RS-485 port, MODBUS-RTU communication protocol            |              |                     |                                  |              |
| 电源 Power supply                                  |               |  | 1PH, 50Hz, 220V±10%   |              | 3PH, 50Hz, 380V, N~ |                                  |              |
| 工作环境温度范围 Operating ambient temperature range     |               |  | R22 (-15°C~50°C)、R410A (-20°C~45°C)   |              |                     |                                  |              |
| 制冷剂类型 Refrigerant type                           |               |  | R22/R410A   |              |                     |                                  |              |
| 节流方式 Throttling mode                             |               |  | 毛细管或热力膨胀阀<br>Capillary tube or thermal expansion valve                                  |              |                     | 热力膨胀阀<br>Thermal expansion valve |              |
| 压缩机 Compressor                                   | 类型 Type       |  | 全封闭转子式 Fully-enclosed rotor type  |              |                     |                                  |              |
|  | 数量 Qty.       |  | 1   | 1            | 1                   | 1                                | 1            |
| 蒸发器 Evaporator                                   |               |  | 铜管/亲水膜铝翅片<br>Copper tube/hydrophilic film aluminum fin                                  |              |                     |                                  |              |
| 冷凝器 Condenser                                    |               |  | 铜管/亲水膜铝翅片<br>Copper tube/hydrophilic film aluminum fin                                  |              |                     |                                  |              |
| 送风机 Blower                                       | 类型 Type       |  | 后倾离心风机/外转子电机直驱式<br>Backward tilting centrifugal fan/outer rotor motor direct drive type |              |                     |                                  |              |
| 散热风机 Cooling fan                                 | 类型 Type       |  | 后倾离心风机/外转子电机直驱式<br>Backward tilting centrifugal fan/outer rotor motor direct drive type |              |                     |                                  |              |
| 电加热器 Electrical heater                           | 类型 Type       |  | PTC   |              |                     |                                  |              |
| 回风空气过滤器 Return air filter                        |               |  | 可清洗初效尼龙过滤器 Cleanable primary nylon filter   |              |                     |                                  |              |
| 机组噪音 Unit noise                                  | dB(A)         |  | ≤57   | ≤60          | ≤63                 | ≤68                              | ≤70          |
| 重量 Weight  | kg            |  | 58  | 68           | 86                  | 140                              | 165          |
| 排水管口径 Drain pipe diameter                        |               |  | G1/2"   |              |                     |                                  |              |
| 外形尺寸 (宽*深*高) mm Overall dimensions (W*D*H)       |               |  | 480*300*1120  | 570*340*1200 | 620*380*1350        | 670*425*1600                     | 820*440*1600 |
| 制冷性能工况 Cooling performance conditions            |               |  | L27 (47%) /L35  |              |                     |                                  |              |

整体式集装箱专用空调-外置壁挂式  
Integral Container Air Conditioner - External Wall-mounted Type

| 项目 Item  | 型号 Model      |  | CAC-80ZH3D  | CAC-125ZH3D                          | CAC-150ZH3D  | CAC-200ZH3D   | CAC-250ZH3D   |
|--|---------------|--|---|--------------------------------------|--------------|---------------|---------------|
|  | 参数 Parameters |  |   |                                      |              |               |               |
| 制冷量 Cooling capacity                             | kW            |  | 8.0   | 12.5                                 | 15.0         | 20.0          | 25.0          |
| 电加热功率 Electrical heating power                   | kW            |  | 3.0 / 6.0   | 6.0/9.0                              | 6.0/9.0      | 8.0           | 12.0          |
| 制冷功率 Cooling power                               | kW            |  | 3.2   | 4.9                                  | 6.5          | 8.5           | 10.5          |
| 最大运行电流 Maximum operating current                 | A             |  | 9/11  | 13/17                                | 17           | 23            | 28            |
| 最大主动除湿电流 Maximum active dehumidification current | A             |  | 14 / 19   | 23/28                                | 27/32        | 36            | 48            |
| 循环风量 Circulating air flow                        | m³/h          |  | 2500  | 4000                                 | 4500         | 6000          | 8000          |
| 送风方式 Air supply mode                             |               |  | 直接送风或风管送风 Direct air supply or duct air supply  |                                      |              |               |               |
| 主动除湿功能 Active dehumidification function          |               |  | 选配 Optional   |                                      |              |               |               |
| 微正压 Micro-positive pressure                      |               |  | 选配 Optional   |                                      |              |               |               |
| 通讯端口 Communication port                          |               |  | RS-485 端口, MODBUS-RTU 通讯协议<br>RS-485 port, MODBUS-RTU communication protocol                  |                                      |              |               |               |
| 电源 Power supply                                  |               |  | 3PH, 50Hz, 380V±10%, N~   |                                      |              |               |               |
| 工作环境温度范围 Operating ambient temperature range     |               |  | R22/R407C (-20°C~55°C)、R410A (-25°C~45°C)   |                                      |              |               |               |
| 制冷剂类型 Refrigerant type                           |               |  | R22/R407C/R410A   |                                      |              |               |               |
| 节流方式 Throttling mode                             |               |  | 热力膨胀阀 Thermal expansion valve   |                                      |              |               |               |
| 压缩机 Compressor                                   | 类型 Type       |  | 全封闭转子式<br>Fully-enclosed rotor type   | 全封闭涡旋式<br>Fully-enclosed vortex type |              |               |               |
|  | 数量 Qty.       |  | 1   | 1                                    | 1            | 1             | 1             |
| 蒸发器 Evaporator                                   |               |  | 铜管/亲水膜铝翅片<br>Copper tube/hydrophilic film aluminum fin  |                                      |              |               |               |
| 冷凝器 Condenser                                    |               |  | 铜管/亲水膜铝翅片<br>Copper tube/hydrophilic film aluminum fin  |                                      |              |               |               |
| 送风机 Blower                                       | 类型 Type       |  | 后倾离心风机/外转子电机直驱式<br>Backward tilting centrifugal fan/outer rotor motor direct drive type       |                                      |              |               |               |
| 散热风机 Cooling fan                                 | 类型 Type       |  | 低噪多叶轴流风机/内转子电机直驱式<br>Low-noise multi-blade axial flow fan/inner rotor motor direct drive type |                                      |              |               |               |
| 电加热器 Electrical heater                           | 类型 Type       |  | PTC   |                                      |              |               |               |
| 回风空气过滤器 Return air filter                        |               |  | 可清洗初效尼龙过滤器 Cleanable primary nylon filter   |                                      |              |               |               |
| 机组噪音 Unit noise                                  | dB(A)         |  | ≤66   | ≤68                                  | ≤70          | ≤72           | ≤74           |
| 重量 Weight  | kg            |  | 140   | 215                                  | 245          | 305           | 395           |
| 排水管口径 Drain pipe diameter                        |               |  | G1/2"   |                                      |              | G3/4"         |               |
| 外形尺寸 (宽*深*高) mm Overall dimensions (W*D*H)       |               |  | 720*583*1895  | 890*633*2145                         | 890*633*2145 | 1090*663*2145 | 1330*663*2145 |
| 制冷性能工况 Cooling performance conditions            |               |  | L27 (47%) /L35  |                                      |              |               |               |

## 整体式集装箱专用空调-内置立柜式

### Integral Container Air Conditioner - Built-in Floor-standing Type

| 项目 Item  | 型号 Model   |  | CAC-80NV3DPM                      | CAC-125NV3DPM | CAC-150NV3DPM | CAC-200NV3DPM |
|--|--|--|-----------------------------------|---------------|---------------|---------------|
|  | 参数 Parameters  |  |                                   |               |               |               |
| 制冷量 Cooling capacity                             | kW   |  | 8.0                               | 12.5          | 15.0          | 20.0          |
| 电加热功率 Electrical heating power                   | kW   |  | 3.0/6.0                           | 6.0           | 6.0           | 8.0           |
| 制冷运行功率 Cooling operating power                   | kW   |  | 3.5                               | 5.3           | 7.4           | 9.7           |
| 最大制冷电流 Maximum cooling current                   | A  |  | 9                                 | 14            | 20            | 26            |
| 最大主动除湿电流 Maximum active dehumidification current | A  |  | 14/19                             | 24            | 30            | 39            |
| 循环风量 Circulating air flow                        | m³/h   |  | 2500                              | 4000          | 4500          | 6000          |
| 主动除湿功能 Active dehumidification function          | 选配 Optional  |  |                                   |               |               |               |
| 微正压 Micro-positive pressure                      | 选配 Optional  |  |                                   |               |               |               |
| 外循环防雨罩 External circulation rain cover           | 选配 Optional  |  |                                   |               |               |               |
| 通讯端口 Communication port                          | RS-485 端口, MODBUS-RTU 通讯协议<br>RS-485 port, MODBUS-RTU communication protocol |  |                                   |               |               |               |
| 电源 Power supply                                  | 3PH, 50Hz, 380V±10%, N~  |  |                                   |               |               |               |
| 工作环境温度范围 Operating ambient temperature range     | -25°C~45°C   |  |                                   |               |               |               |
| 制冷剂类型 Refrigerant type                           | R410A  |  |                                   |               |               |               |
| 节流方式 Throttling mode                             | 热力膨胀阀 Thermal expansion valve  |  |                                   |               |               |               |
| 压缩机 Compressor                                   | 类型 Type  | 全封闭转子式 Fully-enclosed rotor type   | 全封闭涡旋式 Fully-enclosed vortex type |               |               |               |
|  | 数量 Qty.  | 1  | 1                                 | 1             | 1             |               |
| 蒸发器 Evaporator                                   | 铜管/亲水膜铝翅片 Copper tube/hydrophilic film aluminum fin                          |  |                                   |               |               |               |
| 冷凝器 Condenser                                    | 铜管/亲水膜铝翅片 Copper tube/hydrophilic film aluminum fin                          |  |                                   |               |               |               |
| 送风机 Blower                                       | 类型 Type  | 后倾离心风机/外转子电机直驱式 Backward tilting centrifugal fan/outer rotor motor direct drive type |                                   |               |               |               |
| 散热风机 Cooling fan                                 | 类型 Type  | 后倾离心风机/外转子电机直驱式 Backward tilting centrifugal fan/outer rotor motor direct drive type |                                   |               |               |               |
| 电加热器 Electrical heater                           | 类型 Type  | PTC  |                                   |               |               |               |
| 回风空气过滤器 Return air filter                        | 可清洗初效尼龙过滤器 Cleanable primary nylon filter                                    |  |                                   |               |               |               |
| 机组噪音 Unit noise                                  | dB(A)  | ≤70  | ≤72                               | ≤74           | ≤76           |               |
| 重量 Weight  | kg   | 205  | 245                               | 265           | 325           |               |
| 排水管口径 Drain pipe diameter                        | G1/2"  |  |                                   |               |               |               |
| 外形尺寸 (宽*深*高) mm Overall dimensions (W*D*H)       | 650*600*1840   |  | 800*650*1940                      |               | 800*650*2140  |               |
| 制冷性能工况 Cooling performance conditions            | L27 (47%) /L35   |  |                                   |               |               |               |

## 整体式集装箱专用空调-顶置式

### Integral Container Air Conditioner - Roof-top Type

| 项目 Item  | 型号 Model   |  | CAC-80ZT3D                        | CAC-180ZT3D | CAC-250ZT3D                  | CAC-450ZT3D |
|--|--|--|-----------------------------------|-------------|------------------------------|-------------|
|  | 参数 Parameters  |  |                                   |             |                              |             |
| 制冷量 Cooling capacity                             | kW   |  | 8.0                               | 18.0        | 25.0                         | 45.0        |
| 电加热功率 Electrical heating power                   | kW   |  | 3.0                               | 6.0         | 8.0                          | 18.0        |
| 制冷运行功率 Cooling operating power                   | kW   |  | 3.2                               | 7.2         | 10.5                         | 20.2        |
| 最大制冷电流 Maximum cooling current                   | A  |  | 9                                 | 18          | 28                           | 50          |
| 最大主动除湿电流 Maximum active dehumidification current | A  |  | 13                                | 27          | 42                           | 80          |
| 循环风量 Circulating air flow                        | m³/h   |  | 2000                              | 3600        | 5000                         | 9000        |
| 主动除湿功能 Active dehumidification function          | 选配 Optional  |  |                                   |             |                              |             |
| 通讯端口 Communication port                          | RS-485 端口, MODBUS-RTU 通讯协议<br>RS-485 port, MODBUS-RTU communication protocol |  |                                   |             |                              |             |
| 电源 Power supply                                  | 3PH, 50Hz, 380V±10%, N~  |  |                                   |             |                              |             |
| 工作环境温度范围 Operating ambient temperature range     | R410A (-25°C~45°C)、R407C (-20°C~55°C)、R134a (-5°C~65°C)                      |  |                                   |             |                              |             |
| 制冷剂类型 Refrigerant type                           | R410A/R407C/R134a  |  |                                   |             |                              |             |
| 节流方式 Throttling mode                             | 热力膨胀阀 Thermal expansion valve  |  |                                   |             |                              |             |
| 压缩机 Compressor                                   | 类型 Type  | 全封闭转子式 Fully-enclosed rotor type   | 全封闭涡旋式 Fully-enclosed vortex type |             |                              |             |
|  | 数量 Qty.  | 1  | 1                                 | 1           | 2                            |             |
| 蒸发器 Evaporator                                   | 铜管/亲水膜铝翅片 Copper tube/hydrophilic film aluminum fin                          |  |                                   |             |                              |             |
| 冷凝器 Condenser                                    | 铜管/亲水膜铝翅片 Copper tube/hydrophilic film aluminum fin                          |  |                                   |             |                              |             |
| 送风机 Blower                                       | 类型 Type  | 前倾离心风机/外转子电机直驱式 Forward tilting centrifugal fan/outer rotor motor direct drive type        |                                   |             |                              |             |
| 散热风机 Cooling fan                                 | 类型 Type  | 低噪多叶轴流风机/内转子电机直驱式 Low-noise multi-blade axial flow fan/inner rotor motor direct drive type |                                   |             |                              |             |
| 电加热器 Electrical heater                           | 类型 Type  | PTC  |                                   |             |                              |             |
| 回风空气过滤器 Return air filter                        | 可清洗初效尼龙过滤器 Cleanable primary nylon filter                                    |  |                                   |             |                              |             |
| 机组噪音 Unit noise                                  | dB(A)  | ≤68  | ≤70                               | ≤71         | ≤73                          |             |
| 重量 Weight  | kg   | 180  | 245                               | 365         | 485                          |             |
| 排水管口径 Drain pipe diameter                        | G3/4"  |  |                                   |             |                              |             |
| 外形尺寸 (长*宽*高) Overall dimensions (L*W*H)          | 1450*1000*515  |  | 1695*1300*565                     |             | 1850*1300*665 1850*1850*1075 |             |
| 制冷性能工况 Cooling performance conditions            | L27 (47%) /L35   |  |                                   |             |                              |             |

整体式集装箱专用空调-外壁挂式带新风制冷-物联基站用  
Integral Container Air Conditioner - External Wall-mounted Type with Fresh Air Cooling - for IoT Base Stations

| 项目 Item  |                   | 参数 Parameters  | 型号 Model     |
|--|-------------------|--|--------------|
|  |                   |  | CAC-80ZHW3DF |
| 制冷量 Cooling capacity                             | kW                | 7.6  |              |
| 电加热功率 Electrical heating power                   | kW                | 3.0  |              |
| 制冷运行功率 Cooling operating power                   | kW                | 3.0  |              |
| 最大制冷电流 Maximum cooling current                   | A                 | 9  |              |
| 最大主动除湿电流 Maximum active dehumidification current | A                 | 14   |              |
| 循环风量 Circulating air flow                        | m <sup>3</sup> /h | 1600   |              |
| 新风制冷风量 Fresh air cooling air flow                | m <sup>3</sup> /h | 1000   |              |
| 主动除湿功能 Active dehumidification function          |                   | 标配 Standard  |              |
| 通讯端口 Communication port                          |                   | RS-485 端口, MODBUS-RTU 通讯协议 RS-485 port, MODBUS-RTU communication protocol            |              |
| 电源 Power supply                                  |                   | 3PH, 50Hz, 380V±10%  |              |
| 安装要求 Installation requirements                   |                   | 遮雨通风设备仓 Rainproof ventilation equipment cabin  |              |
| 工作环境温度范围 Operating ambient temperature range     |                   | R22 (-20°C~55°C)、R410A (-25°C~45°C)  |              |
| 制冷剂类型 Refrigerant type                           |                   | R22/R410A  |              |
| 节流方式 Throttling mode                             |                   | 热力膨胀阀 Thermal expansion valve  |              |
| 压缩机 Compressor                                   | 类型 Type           | 全封闭转子式 Fully-enclosed rotor type   |              |
|  | 数量 Qty.           | 1  |              |
| 蒸发器 Evaporator                                   |                   | 铜管/亲水膜铝翅片 Copper tube/hydrophilic film aluminum fin                                  |              |
| 冷凝器 Condenser                                    |                   | 铜管/亲水膜铝翅片 Copper tube/hydrophilic film aluminum fin                                  |              |
| 送风机 Blower                                       | 类型 Type           | 后倾离心风机/外转子电机直驱式 Backward tilting centrifugal fan/outer rotor motor direct drive type |              |
| 散热风机 Cooling fan                                 | 类型 Type           | 后倾离心风机/外转子电机直驱式 Backward tilting centrifugal fan/outer rotor motor direct drive type |              |
| 电加热器 Electrical heater                           | 类型 Type           | PTC  |              |
| 回风空气过滤器 Return air filter                        |                   | 可清洗初效尼龙过滤器 Cleanable primary nylon filter  |              |
| 机组噪音 Unit noise                                  | dB(A)             | ≤68  |              |
| 重量 Weight  | kg                | 172  |              |
| 排水管口径 Drain pipe diameter                        |                   | G1/2"  |              |
| 外形尺寸 (宽*深*高) mm Overall dimensions (W*D*H)       |                   | 1897*650*550   |              |
| 制冷性能工况 Cooling performance conditions            |                   | L27 (47%) /L35   |              |

分体式集装箱专用空调-立柜式  
Split Container Air Conditioner - Floor-standing Type

| 项目 Item  |                   | 参数 Parameters  | 型号 Model | CAC-80SV3D                        | CAC-125SV3D  | CAC-200SV3D   | CAC-250SV3D |  |
|--|-------------------|--|----------|-----------------------------------|--------------|---------------|-------------|--|
| 制冷量 Cooling capacity                             | kW                | 8.0  |          | 8.0                               | 12.5         | 20.0          | 25.2        |  |
| 电加热功率 Electrical heating power                   | kW                | 3.0  |          | 3.0                               | 6.0          | 8.0           | 12.0        |  |
| 制冷运行功率 Cooling operating power                   | kW                | 3.2  |          | 3.2                               | 4.9          | 8.5           | 10.5        |  |
| 最大制冷电流 Maximum cooling current                   | A                 | 9  |          | 9                                 | 13           | 23            | 28          |  |
| 最大主动除湿电流 Maximum active dehumidification current | A                 | 14   |          | 14                                | 23           | 36            | 48          |  |
| 循环风量 Circulating air flow                        | m <sup>3</sup> /h | 2500   |          | 2500                              | 4000         | 6000          | 7500        |  |
| 送风方式 Air supply mode                             |                   | 直接送风或顶送风 Direct air supply or top air supply   |          |                                   |              |               |             |  |
| 主动除湿功能 Active dehumidification function          |                   | 选配 Optional  |          |                                   |              |               |             |  |
| 微正压 Micro-positive pressure                      |                   | 选配 Optional  |          |                                   |              |               |             |  |
| 通讯端口 Communication port                          |                   | RS-485 端口, MODBUS-RTU 通讯协议 RS-485 port, MODBUS-RTU communication protocol                  |          |                                   |              |               |             |  |
| 电源 Power supply                                  |                   | 3PH, 50Hz, 380V±10%, N~  |          |                                   |              |               |             |  |
| 工作环境温度范围 Operating ambient temperature range     |                   | R22 (-20°C~55°C)、R410A (-25°C~45°C)  |          |                                   |              |               |             |  |
| 制冷剂类型 Refrigerant type                           |                   | R22/R410A  |          |                                   |              |               |             |  |
| 节流方式 Throttling mode                             |                   | 热力膨胀阀 Thermal expansion valve  |          |                                   |              |               |             |  |
| 室外机数量 Number of outdoor units                    |                   | 1  |          | 1                                 | 1            | 1             | 1           |  |
| 压缩机 Compressor                                   | 位置 Position       | 室内机 Indoor unit  |          |                                   |              |               |             |  |
|  | 类型 Type           | 全封闭转子式 Fully-enclosed rotor type   |          | 全封闭涡旋式 Fully-enclosed vortex type |              |               |             |  |
|  | 数量 Qty.           | 1  |          | 1                                 | 1            | 1             | 1           |  |
| 蒸发器/冷凝器 Evaporator/condenser                     |                   | 铜管/亲水膜铝翅片 Copper tube/hydrophilic film aluminum fin  |          |                                   |              |               |             |  |
| 送风机 Blower                                       | 类型 Type           | 前倾离心风机/外转子电机直驱式 Forward tilting centrifugal fan/outer rotor motor direct drive type        |          |                                   |              |               |             |  |
| 散热风机 Cooling fan                                 | 类型 Type           | 低噪多叶轴流风机/内转子电机直驱式 Low-noise multi-blade axial flow fan/inner rotor motor direct drive type |          |                                   |              |               |             |  |
| 电加热器 Electrical heater                           | 类型 Type           | PTC  |          |                                   |              |               |             |  |
| 回风空气过滤器 Return air filter                        |                   | 可清洗初效尼龙过滤器 Cleanable primary nylon filter  |          |                                   |              |               |             |  |
| 内机/外机重量 Weight of indoor/outdoor unit            | kg                | 122/45   |          | 136/75                            | 245/138      | 295/175       |             |  |
| 排水管口径 Drain pipe diameter                        |                   | G1/2"  |          |                                   | G3/4"        |               |             |  |
| 内机尺寸 (宽*深*高) mm Indoor unit dimensions (W*D*H)   |                   | 600*522*1902   |          | 680*522*1902                      | 800*650*2102 | 900*650*2102  |             |  |
| 外机尺寸 (宽*深*高) mm Outdoor unit dimensions (W*D*H)  |                   | 770*410*772  |          | 920*435*922                       | 1065*527*922 | 1200*550*1100 |             |  |
| 制冷性能工况 Cooling performance conditions            |                   | L27 (47%) /L35   |          |                                   |              |               |             |  |

整体式储能变频专用空调-半嵌入式  
Integral Energy Storage Variable Frequency Air Conditioner - Semi-embedded Type

| 项目 Item  | 型号 Model  |  | CAC-50ZEIDPM | CAC-100ZEI3DM |
|--|---|--|--------------|---------------|
|  | 参数 Parameters   |  |              |               |
| 制冷量 Cooling capacity                             | kW  |  | 5.0          | 10            |
| 电加热功率 Electrical heating power                   | kW  |  | 2.0          | 4             |
| 制冷运行功率 Cooling operating power                   | kW  |  | 1.86         | 4             |
| 最大运行电流 Maximum operating current                 | A   |  | 12           | 14.5          |
| 最大主动除湿电流 Maximum active dehumidification current | A   |  | 18           | 22            |
| 循环风量 Circulating air flow                        | m3/h  |  | 1400         | 3200          |
| 主动除湿功能 Active dehumidification function          | 选配 Optional   |  |              |               |
| 通讯端口 Communication port                          | RS-485 端口, MODBUS-RTU 通讯协议<br>RS-485 port, MODBUS-RTU communication protocol          |  |              |               |
| 电源 Power supply                                  | 1~ ,AC220V±15% , 50Hz, PE 3PH, 50Hz, 380V, N~   |  |              |               |
| 工作环境温度范围 Operating ambient temperature range     | -40℃~45℃  |  |              |               |
| 制冷剂类型 Refrigerant type                           | R410A   |  |              |               |
| 节流方式 Throttling mode                             | 电子膨胀阀<br>Electronic expansion valve   |  |              |               |
| 通讯协议 Communication protocol                      | MODEBUS RTU   |  |              |               |
| 人机交互界面 Man-machine interaction interface         | 五行文本液晶屏, 中/英文可切换<br>Five-line text LCD screen, switchable between Chinese and English |  |              |               |
| IP 防护等级 IP protection class                      | IP55 (内外侧间)<br>IP55 (between inner and outer sides)                                   |  |              |               |
| 来电自启动 Power-on auto-start function               | 标配 Standard   |  |              |               |
| 1+1 和 N+1 轮值功能 1+1 and N+1 rotation function     | 选配 (通讯端口)<br>Optional (communication port)  |  |              |               |
| 火警连锁输入功能 Fire alarm interlock input function     | 标配 (干接点)<br>Standard (dry contact)  |  |              |               |

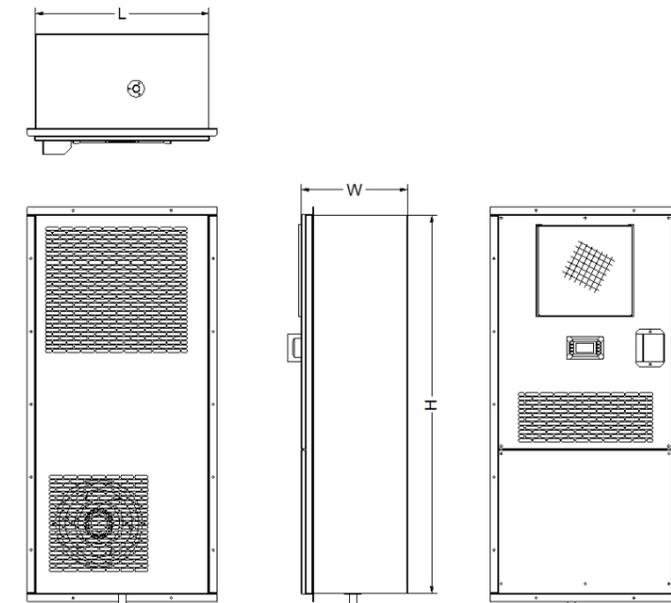
|                              |   |         |  |              |
|------------------------------|---|---------|--|--------------|
| 机组特性<br>Unit characteristics | 出风温度、湿度上传功能<br>Outlet air temperature and humidity uploadfunction                   |         | 选配 (通讯端口)<br>Optional (communication port)   |              |
|                              | 故障报警输出功能<br>Fault alarm output function   |         | 标配 (干接点)<br>Standard (dry contact)   |              |
|                              | 高湿、高温、低温告警功能<br>High humidity, high temperature, and low temperature alarm function |         | 选配 (干接点)<br>Optional (dry contact)   |              |
|                              | 压缩机 Compressor  | 类型 Type | 直流变频全封转子式<br>DC variable frequency fully-enclosed rotor type                         |              |
|                              |   | 数量 Qty. | 1  |              |
|                              | 蒸发器 Evaporator  |         | 铜管/亲水膜铝翅片<br>Copper tube/hydrophilic film aluminum fin                               |              |
|                              | 冷凝器 Condenser   |         | 铜管/亲水膜铝翅片<br>Copper tube/hydrophilic film aluminum fin                               |              |
|                              | 送风机 Blower  | 类型 Type | AC 后倾式离心风机<br>AC backward tilting centrifugal fan                                    |              |
|                              | 散热风机 Cooling fan  | 类型 Type | 无极后倾式离心风机<br>Stepless backward tilting centrifugal fan                               |              |
|                              | 电加热器 Electrical heater  | 类型 Type | PTC  |              |
|                              | 室内侧回风导流箱<br>Indoor side return air guide box  |         | 选配 Optional  |              |
|                              | 室外侧进风防虫网<br>Outdoor side inlet air fly net  |         | 可清洗金属滤网 (选配)<br>Washable metal filter screen (optional)                              |              |
|                              | 室外侧排风导流罩<br>Outdoor side exhaust air guide cover                                    |         | 并柜对吹或靠墙时使用 (选配)<br>Used when combined for blowing or leaned against walls (optional) |              |
|                              | 机组噪音 Unit noise   | dB(A)   | ≤68  | ≤70          |
|                              | 重量 Weight   | kg      | 75   | 164          |
|                              | 排水管口径 Drain pipe diameter   |         | G1/2"  |              |
|                              | 外形尺寸 (宽*深*高 mm) 不含法兰 mm<br>Overall dimensions (W*D*H), excluding flanges            |         | 620*300*1350   | 850*440*1630 |
|                              | 制冷性能工况<br>Cooling performance conditions  |         | L35/L35  |              |

## 分体式集装箱专用空调-吊顶（壁挂）式 Split Container Air Conditioner - Ceiling-suspended (Wall-mounted) Type

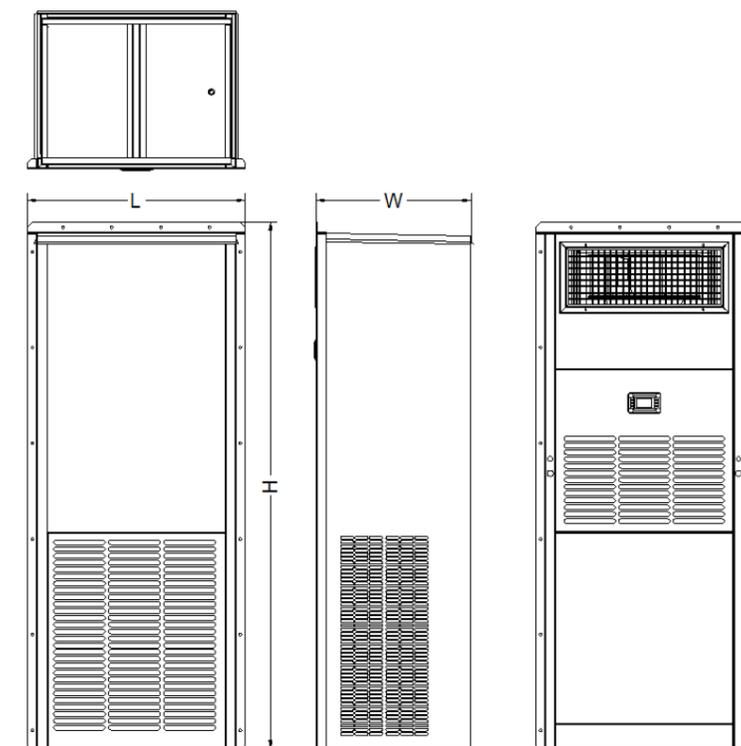
| 项目 Item                      | 型号 Indoor Model                                  |  | CAC-80SD3DC   | CAC-50SDDC     | CAC-125SD3DC   | CAC-50SHDC                                     |                |
|------------------------------|--|--|---|----------------|----------------|--|----------------|
|                              | 参数 Parameters                                    |  |   |                |                |  |                |
| 机组特性<br>Unit characteristics | 制冷量 Cooling capacity                             | kW   | 8.0   | 5.0            | 12.0           | 5.0  |                |
|                              | 电加热功率 Electrical heating power                   | kW   | 3.0   | 1.5            | 4.0            | 1.5  |                |
|                              | 制冷功率 Cooling power                               | kW   | 3.28  | 2.1            | 6.35           | 2.1  |                |
|                              | 名义循环风量 Nominal circulating air flow              | m <sup>3</sup> /h  | 1600  | 1100           | 3000           | 1100   |                |
|                              | 送回风方式 Air supply/return mode                     | 后侧回风前侧送风<br>Rear air return and front air supply                   |   |                |                | 顶回风下侧送风<br>Top air return and lower air supply |                |
|                              | 机外静压 External static pressure                    | Pa   | 50  | 50             | 100            | 0  |                |
|                              | 气体连接管 Gas connection tube                        | inch   | Φ5/8  | Φ5/8           | Φ3/4           | Φ5/8   |                |
|                              | 液体连接管 Liquid connection tube                     | inch   | Φ3/8  | Φ3/8           | Φ1/2           | Φ3/8   |                |
|                              | 室内机接管方向<br>Indoor unit connection tube direction | 面向机组送风口左侧<br>Facing the left side of air supply outlet of the unit |   |                |                |  |                |
|                              | 电源 Power supply                                  |  |   | 3P-50Hz-AC380V | 1P-50Hz-AC220V | 3P-50Hz-AC380V                                 | 1P-50Hz-AC220V |
|                              | 室外机数量<br>Number of outdoor units                 | 台 Set  | 1   | 1              | 1              | 1  |                |
|                              | 最大运行电流<br>Maximum operating current              | A  | 15  | 14             | 20             | 14   |                |
|                              | 室外机<br>Outdoor unit                              | 室外机型号<br>Outdoor unit model  |   | CAC-80WN3C     | CAC-50WNC      | CAC-125WNC                                     | CAC-50WNC      |
| 冷凝器 Condenser                |  | 类型 Type  | 紫铜管串套铝片式 Copper pipe bushing and aluminum sheet                   |                |                |  |                |
|                              |  | 翅片形式 Fin form  | 高效波纹型亲水膜铝翅片<br>Efficient corrugated hydrophilic film aluminum fin |                |                |  |                |
| 冷凝风机<br>Condensing fan       |  | 类型 Type  | 外转子轴流式风机 Outer rotor axial flow fan                               |                |                |  |                |
|                              |  | 绝缘等级<br>Insulation grade   | F   |                |                |  |                |
| 外形尺寸<br>Overall dimensions   |  | 宽 Width  | mm  | 982            | 882            | 805  | 882            |
|                              |  | 深 Depth  | mm  | 494            | 447            | 760  | 447            |
|                              | 高 Height   | mm   | 793   | 751            | 825            | 751  |                |
| 重量 Weight                    | kg   | 85   | 70  | 95             | 70             |  |                |
| 室内机<br>Indoor unit           | 压缩机<br>Compressor                                | 类型 Type  | 高效转子式压缩机 High efficiency rotor compressor                         |                |                |  |                |
|                              |  | 数量 Qty.  | 1   | 1              | 1              | 1  |                |
|                              | 制冷剂 Refrigerant                                  | 类型 Type  | R407C   |                |                |  |                |
|                              |  | 数量 Qty.  | kg  | 2.2            | 2.2            | 3.0  | 1.8            |
|                              | 蒸发器 Evaporator                                   | 类型 Type  | 紫铜管串套铝片式 Copper pipe bushing and aluminum sheet                   |                |                |  |                |
|                              |  | 翅片形式 Fin form  | 百叶窗型亲水膜铝翅片 Shutters hydrophilic film aluminum fin                 |                |                |  |                |
|                              |  | 节流方式<br>Throttling mode  | 外平衡热力膨胀阀 External balance thermal expansion valve                 |                |                |  |                |
|                              | 风机 Fan   | 类型 Type  | 外转子前倾离心式 Outer rotor forward tilting centrifugal type             |                |                |  |                |
|                              |  | 绝缘等级<br>Insulation grade   | F   |                |                |  |                |
|                              | 外形尺寸<br>Overall dimensions                       | 宽 Width  | mm  | 1324           | 907            | 1160   | 960            |
| 深 Depth                      |  | mm   | 250   | 250            | 420            | 249  |                |
| 高 Height                     |  | mm   | 650   | 597            | 600            | 601  |                |
| 重量 Weight                    | kg   | 55   | 42  | 75             | 45             |  |                |

注：1、制冷工况：室外温度 DB=35°C，WB=24°C；室内温度 DB=27°C，WB=19°C  
Note: 1. Cooling conditions: outdoor temperature DB=35°C, WB=24°C; Indoor temperature DB=27°C, WB=19°C

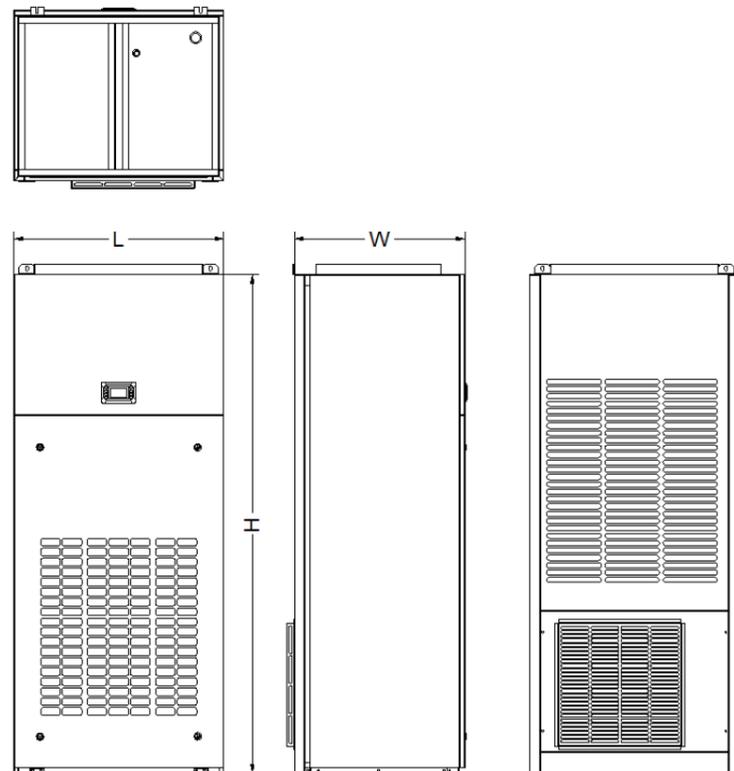
## 整体式集装箱专用空调-半嵌入式 Integral Container Air Conditioner - Semi-embedded Type



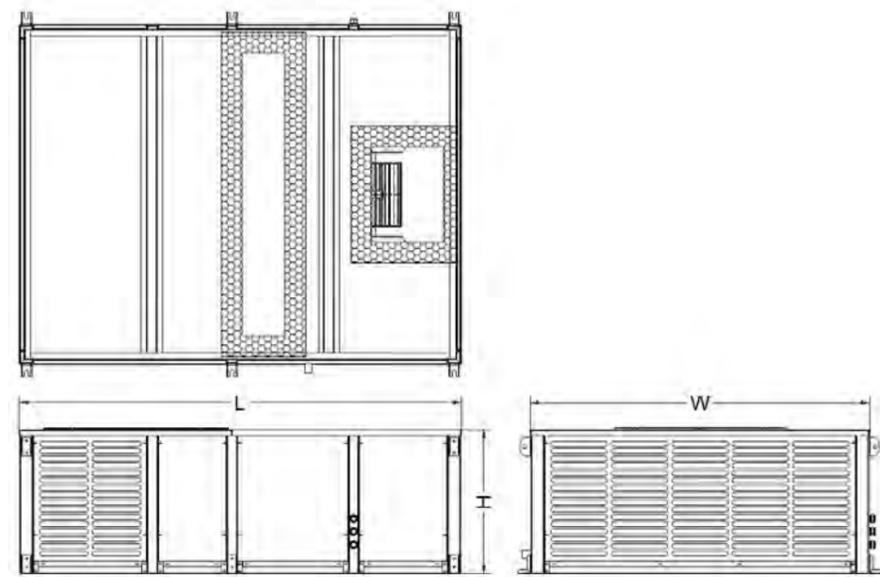
## 整体式集装箱专用空调-外置壁挂式 Integral Container Air Conditioner - External Wall-mounted Type



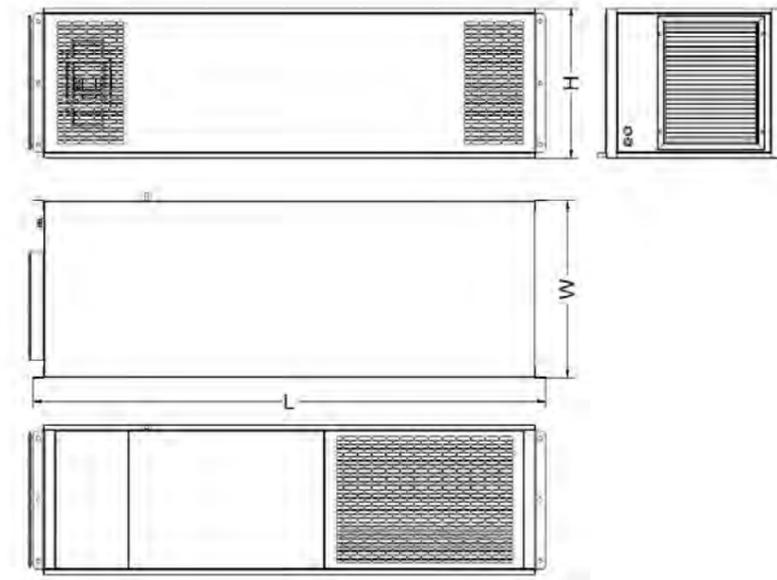
整体式集装箱专用空调-内置立柜式  
Integral Container Air Conditioner - Built-in Floor-standing Type



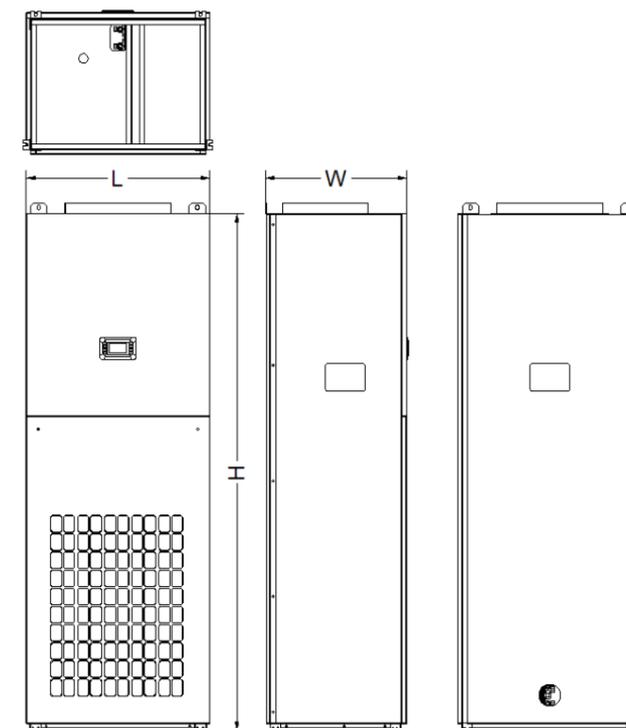
整体式集装箱专用空调-顶置式  
Integral Container Air Conditioner - Roof-top Type



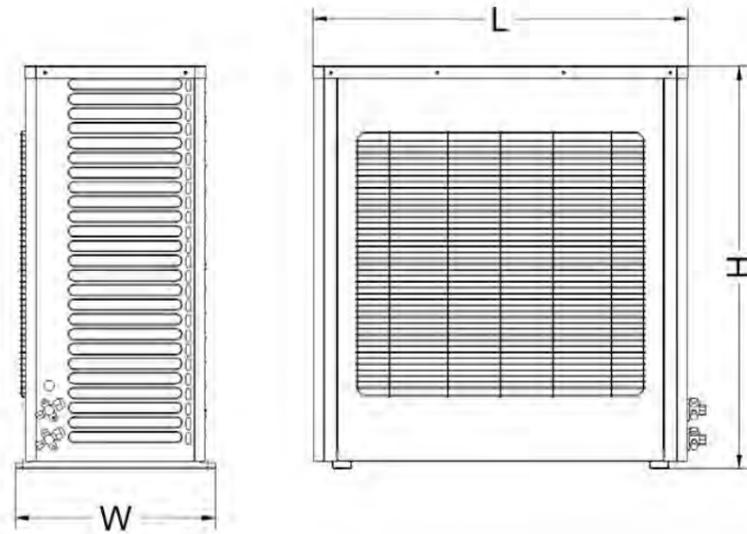
整体式集装箱专用空调-外壁挂式带新风制冷-物联基站用  
Integral Container Air Conditioner - External Wall-mounted Type with Fresh Air Cooling - for IoT Base Stations



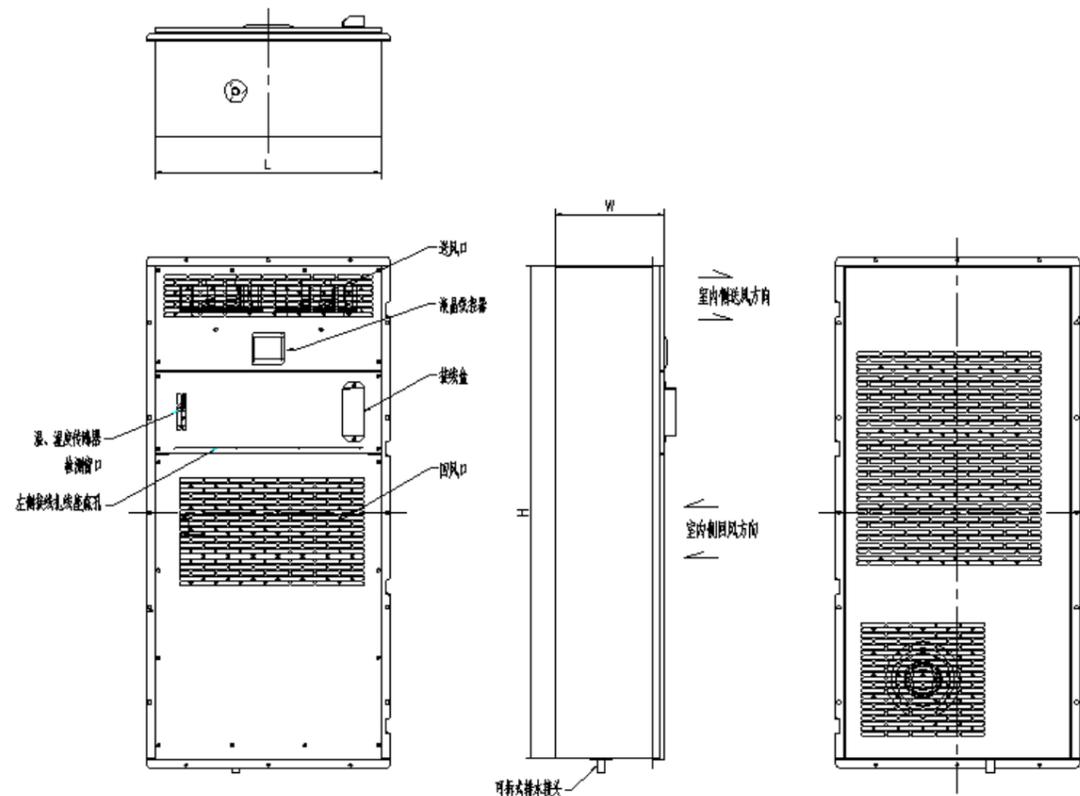
分体式集装箱专用空调-立柜式-室内机  
Split Container Air Conditioner - Floor-standing Type - Indoor Unit



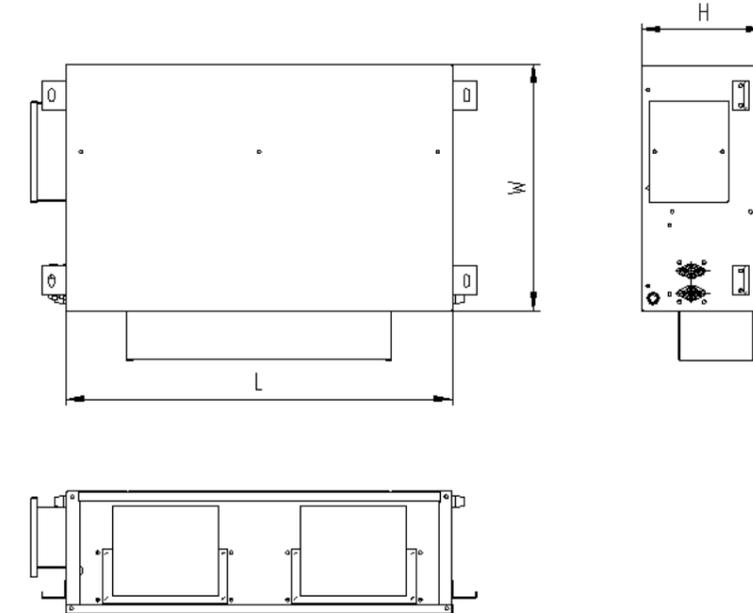
分体式集装箱专用空调-立柜式-室外机  
Split Container Air Conditioner - Floor-standing Type - Outdoor Unit



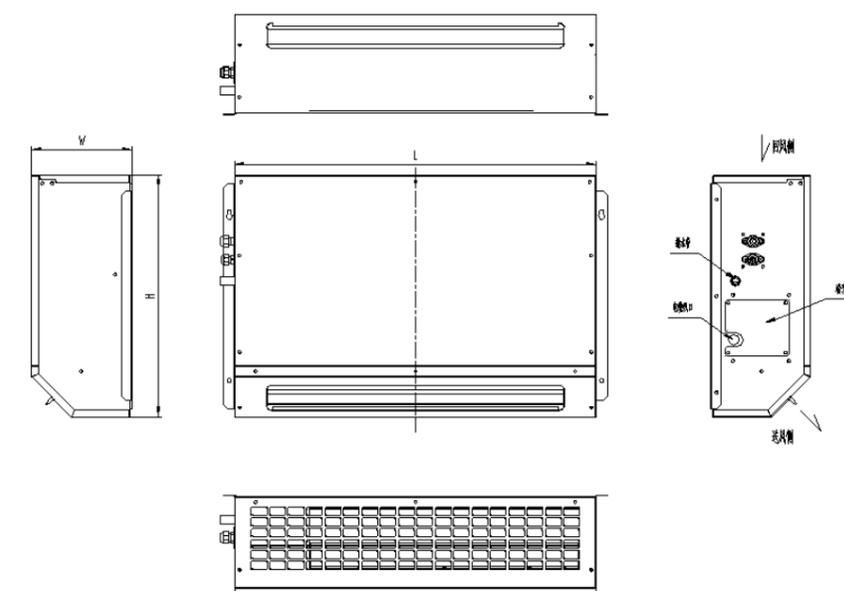
整体式储能变频专用空调-半嵌入式  
Integral Energy Storage Variable Frequency Air Conditioner - Semi-embedded Type



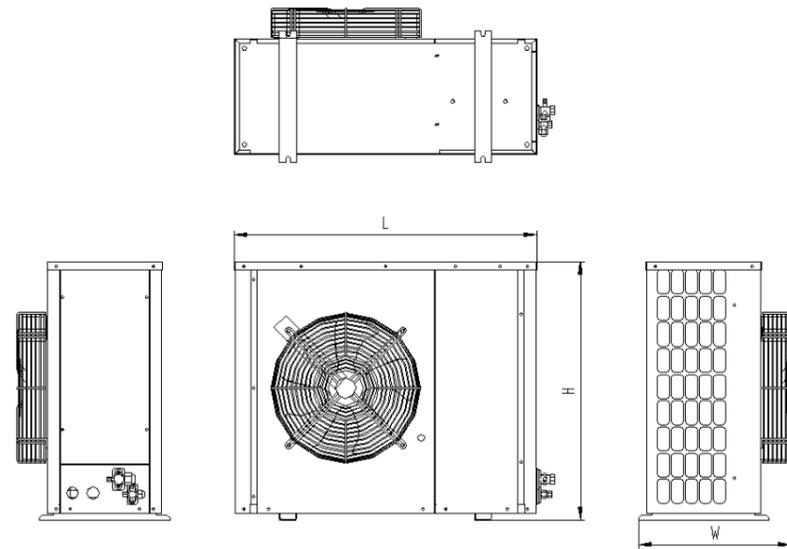
分体式集装箱专用空调-吊顶式室内机  
Split Container Air Conditioner - Ceiling-suspended Indoor Unit



分体式集装箱专用空调-壁挂式室内机  
Split Container Air Conditioner - Wall-mounted Indoor Unit



## 分体式集装箱专用空调-吊顶（壁挂）式室外机 Split Container Air Conditioner - Ceiling-suspended (Wall-mounted) Outdoor Unit



### 总电源线、控制线选型参考

#### References for Selection of Main Power Cord and Control Line

空调客户端配有总电源端子，故障输出、远程控制、火灾连锁接线端子用于用户端联控接线，用户需根据空调最大运行电流值并留有安全余量选择合规电源电缆。

The air conditioner client is equipped with a main power terminal, and the fault output, remote control and fire interlocking terminals are used for joint control wiring of the client. The user needs to select a compliant power cable based on the maximum operating current value of air conditioner and leave a safety margin.

用户可参考下表电气配线表选择合适线径铜导线。

The user can refer to the electrical wiring table below to select the copper wire with appropriate wire diameter.

|  |         |         |      |       |       |       |       |       |
|--|---------|---------|------|-------|-------|-------|-------|-------|
| 额定电流 (A)<br>Rated current (A)                                      | 1.5~3.5 | 3.6~6.5 | 6~10 | 11~20 | 21~30 | 31~45 | 46~65 | 61~90 |
| 电线截面积 (mm <sup>2</sup> )<br>Wire sectional area (mm <sup>2</sup> ) | 0.75    | 1.0     | 1.5  | 2.5   | 4     | 6     | 10    | 16    |

空调电源为3相5线制用电，必须提供零线和地线接入电箱内的零线端子和接地铜排上，空调控制自带三相电源保护功能模块。

The 3-phase 5-wire power supply is adopted for the air conditioner, and neutral wire and ground wire must be connected to the neutral terminal and ground copper bar inside the electrical box. The air conditioning control comes with a three-phase power protection function module.

电源线，控制线，通讯线接线端子号码根据电气接线图所示对位接入，电气接线图已粘贴在电控箱盖板内侧。

The terminals of power cord, control line and communication line shall be connected according to the

numbers shown in the electrical wiring diagram, which has been pasted on the inner side of the cover plate of electrical control box.

### 线控器另放要求

#### Wire Controller Placement Requirements

空调控制的线控器如需安装机组外部，其尺寸参考下图所示，安装面按开孔尺寸预开孔，可采用背面螺丝孔固定，也可采用两侧卡扣（附带配件）固定，标准建议卡扣固定方式。

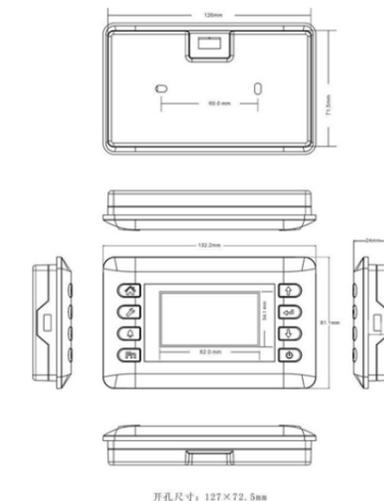
If the wire controller for air conditioning control needs to be installed outside the unit, its dimension is shown in the figure below. The installation surface shall be pre-perforated according to the hole size, and it can be fixed by screw holes on the back or by clips (with fittings) on both sides and the latter is recommended.

线控器需安装在室内合适位置，应采用4芯不小于0.2平方独立双绞线电缆或屏蔽电缆，走线应避免与动力线缠绕，通讯线接线控器一端为4芯专用塑料插接件，必须做好防水、防尘、防松措施。

The wire controller should be installed in a suitable position indoors, and a 4-core independent twisted-pair cable or shielded cable of not less than 0.2m<sup>2</sup> should be adopted. The cabling should avoid entanglement with the power line. One end of communication line connected to the wire controller is a 4-core special plastic connector, and waterproof, dustproof and anti-loose measures must be taken.

### 线控器尺寸图

#### Wire Controller Dimension Figure



Opening size: 127x72.5

注意：线控器通信线必须严格无误的按图纸和所配线缆上接线端标贴所示接入对应端子，接错线会导致控制器和线控器通讯模块烧毁。

Attention: The communication line of wire controller must be accurately connected to the corresponding terminal strictly according to the drawing and the terminal label on the accompanying cable. Wrong connection will lead to burnout of communication modules of both the controller and the wire controller.

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Photovoltaic Energy Storage Power Station



专用空调产品应用领域  
Application Field of Dedicated Air Conditioning Products



专用空调产品应用场景  
Application Scenario of Dedicated Air Conditioning Products



VFD 房分体式  
Split Type for VFD Room

VFD 房整体式  
Integral Type for VFD Room



顶驱立式  
Top Drive Vertical Type

海洋平台空调  
Offshore Platform Air Conditioner



顶驱卧式  
Top Drive Horizontal Type



压裂车集装箱空调  
Fracturing Truck Container Air Conditioner



屋顶机  
Roof-top Unit



新风一体机  
Fresh Air All-in-one Unit