

# CONTAINER AIR CONDITIONING (ENERGY STORAGE)



## Product Overview

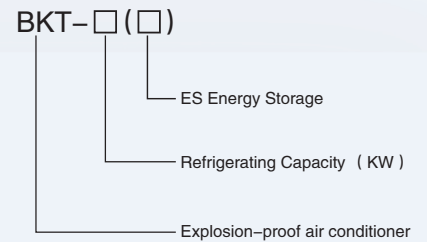
- Container (energy storage) air conditioning meets the demand of energy, power, communication, sewage treatment and other industries for air conditioning. The air conditioner can precisely control the temperature and humidity inside the container to meet the requirements of unattended, automatic cold and heat control and humidity management.
  - The air conditioning system has a wide range of climate adaptability, solar radiation resistance, high temperature resistance, and outdoor temperature resistance up to 65C as required.
- Application scenarios: chemical energy storage power station, photo voltaic, drilling, oil field, 5G communication base station, data center, power transmission and transformation, sewage treatment, wind power generation voltage regulation SVG.

## Explosion-proof Mark

Ex db ib mb IIB T4Gb

Ex db ib mb IIC T4Gb

## Model and meaning



## PRODUCT FEATURES

- Energy–efficiency ratio: the product adopts high–efficiency hermetically sealed rotor–type compressor, which is durable, excellent in performance, and highly adaptable to the environment, with high heat transfer efficiency, energy’ saving and consumption reduction.
- Stable heating in cold areas: when used in cold areas, a small amount of heating operation is also required in winter. Container air conditioners can provide efficient electric heating capacity, with stable and reliable heat generation.
- Unique unmanned cold and hot switching function: the container air conditioning refrigeration and heating can preset the temperature control function independently, and the respective control temperature can be set respectively, and the air conditioning automatically switches according to the indoor temperature.
- Dehumidification function is available in areas with high humidity: in areas with high humidity in the surrounding environment of the container when high humidity occurs in the container, the air conditioner is reserved with extended professional deep dehumidification function to realize dehumidification function.
- Emergency ventilation in case of failure: when the installed machine cannot be used and one standby, the container air conditioner can provide emergency ventilation module, and the air conditioner can realize automatic failure interlocking control and emergency safe handling.
- Cryogenic refrigeration: When the container needs to be refrigerated all year round, the refrigeration module is added, and the product can operate stably and reliably in cold environment.
- (Optional) Dual–machine switching: for the uninterruptible scene of the air conditioner, the user will adopt the design of the main machine plus the standby machine to realize the automatic alternate cooling operation of the two machines.
- Microcomputer control: the container air conditioner adopts a large screen LCD text controller and a high safety and reliability microcomputer controller, which can realize remote centralized monitoring data of multi–unit network.
- Rain–proof capacity: the container air conditioning integrated product, the outdoor side enclosure adopts the integrated box structure design, after the flange is sealed and fixed, it can enter the outdoor side cooling chamber without fear of rain, completely avoiding rain entering the container, meet the IP65 standard.
- Excellent sea and land adaptability: container air conditioners can be divided into series according to the user’ s use situation, namely, land and sea. Only by changing the material and surface anti–corrosion technology of the sheet metal and heat exchanger of the air conditioner, it can adapt to the sea corrosion resistance and weather resistance.
- Full–automatic fault diagnosis: The container air conditioner has a variety of automatic fault diagnosis and hierarchical self–treatment functions. The Chinese/English alarm fault description is displayed, and can be transmitted to the remote monitoring unit through the communication port, so that the maintenance personnel can know the fault location at a glance, so as to facilitate maintenance and maintenance.
- Remote monitoring function: The unit provides RS–485 communication interface, which can be connected with the upper computer for remote monitoring, with local and remote control modes.
- Automatic start function after power failure: Automatic start function after power failure, which can be unattended. When the unit calls again soon after a sudden power failure, the unit will remember and maintain the operation status of the air conditioner before power failure and automatically start operation.
- Installation mode: Integrated type, wall–mounted Type, floor standing type, ceiling mounted type.
- Extensive functions: refrigeration, heating, anti–corrosion, explosion proof, fresh air ,micro positive pressure.

## PRODUCT PARAMETERS

| Model                                   | BKT-3.5/CN                                    | BKT-5/CN           | BKT-7.5/CN               | BKT-12.5/CN              | BKT-15/CN                | BKT-20/CN                | BKT-25/CN           | BKT-30/CN           |
|---|---|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------|---------------------|
| Colour                                  | RAL7035                                       | RAL7035            | RAL7035                  | RAL7035                  | RAL7035                  | RAL7035                  | RAL7035             | RAL7035             |
| Power                                   | 220v  | 220V               | 380V                     | 380V                     | 380V                     | 380V                     | 380V                | 380V                |
| Supply                                  | 50HZ  | 50HZ               | 50HZ                     | 50HZ                     | 50HZ                     | 50HZ                     | 50HZ                | 50HZ                |
| Refrigerant<br>e KW                     | 3.5   | 5                  | 7.5                      | 12.5                     | 15                       | 20                       | 25                  | 30                  |
| Heating<br>capacity<br>KW               | 2   | 3                  | 4                        | 6                        | 6                        | 9                        | 12                  | 12                  |
| Rated<br>refrigeratio<br>n power<br>KW  | 1.4   | 1.85               | 3.1                      | 4.3                      | 7.5                      | 9                        | 11.5                | 13                  |
| Air Volume<br>m3/h                      | 1200  | 1400               | 2500                     | 2900                     | 4500                     | 5700                     | 6600                | 7500                |
| Protection<br>Grade                     | IP65  | IP65               | IP65                     | IP65                     | IP65                     | IP65                     | IP65                | IP65                |
| Dehumidifi<br>cation<br>Function        | Yes(Optional)                                 |                    |                          |                          |                          |                          |                     |                     |
| Communic<br>ation Port                  | RS-485 Port Modbus-RTU Communication Protocol |                    |                          |                          |                          |                          |                     |                     |
| Operating<br>Temperatur<br>e Range      | -25℃~45℃                                      |                    |                          |                          |                          |                          |                     |                     |
| Overall<br>Dimension                    | 620*270*<br>1250mm                            | 690*350*<br>1440mm | 715*586*<br>1890mm       | 890*700*<br>2145mm       | 890*700*<br>2145mm       | 890*700*<br>2145mm       | 1200*900*<br>2070mm | 1200*900*<br>2070mm |
| Refrigerant                             | R410a   | R410a              | R410a                    | R410a                    | R410a                    | R410a                    | R410a               | R410a               |
| Noise<br>Level                          | 65DbA   | 65DbA              | 70DbA                    | 70DbA                    | 70DbA                    | 75DbA                    | 78DbA               | 80DbA               |
| Allow Max<br>Working<br>Pressure<br>MPA | 4   | 4                  | 4                        | 4                        | 4                        | 4                        | 4                   | 4                   |
| Installation<br>Type                    | Embedded                                      | Embedded           | External Wall<br>Mounted | External Wall<br>Mounted | External Wall<br>Mounted | External Wall<br>Mounted | Built-in            | Built-in            |