

Octagon Power Mine Box

Instruction Manual





Technical Parameters of Mine Box

Box weight: about 2.0 tons

Color: white

Dimensions: 5700*2200*2200mm (L*W*H)

Internal size: 5500*2000*2000mm (L*W*H)

Rated power consumption: 3250W (-5%--+5%) X168 units

Mining machine capacity: S19 series mining machines are 168 units, compatible with Avalon A841, 1246, 15, 11, 9 series mining machines (the factory default is optimally adapted to S19 series mining machines)

Certification: The mining box has passed **CSA FCL** certification, and the main components such as power distribution cabinets, PDUs, cables and wires have passed **UL** certification

Highly assembled: no more than 2 layers are recommended

Length assembly: no requirement, determined according to the specific site

Arrangement: The air inlets are opposite. Recommended spacing: 9 meters, the transformer is located on the side of the air inlet
The air outlets are opposite. Recommended spacing: 6 meters, the transformer is located on the side of the air inlet
Each row of containers, the spacing between each group: 2.5 meters (the above dimensions are recommended)





Shelf Display

According to the type of miner, the numbers and width of the racks can be customized.

1. The model S19 mining machine is positioned on the shelf, and the shelves are 6 levels. 28 miners can be placed on each level. The capacity of the mining box is 168 of mining machines.

2. The length of the frame is 5500mm, the width is 400mm, and the distance between each layer is 300mm.

3. The main frame of the frame is welded by 30*30mm galvanized square pipe, and the middle grid is welded by round steel with a diameter of 4.5mm. Each layer of the rack can bear a weight of about 500kg.

4. Remarks: The bottom rack is a movable rack for floor installation.



Network Cable Display

1. Network cable material: brand new PVC CAT5 oxygen-free copper. Model: outer diameter 0.55mm, inner diameter 8*7*0.12mm.

2. The mine box adopts oxygen-free copper network cable, the anti-oxidation degree of the network cable is about 15 years, and the anti-oxidation degree of the crystal plug of the network cable is about 5-8 years.

3. According to the number of mining machines placed in each mine box, the same number of network cables are distributed, with the same number at both ends of each network cable. One end is connected to the switch, and the other end is connected to the miner.

4. The network cable is fixed on the shelf with a cable tie to facilitate the replacement of the network cable in the future.

5. There are 168 network cables reserved in the mine box, 28 on each level.



Distribution Cabinet

Mobile Mining Box – Electrical

Main switch capacity of power distribution cabinet: 1200A

Rated current: 1000A

Input voltage: 380V~415V AC 50/60HZ

Operating power: 505KW~649KW

2500KVA transformer: It can support 4 Mine Boxes work (take running 168 S19 miners as an example)



Fan Installation Guide

The technical parameters are as follows:

Model Specifi- cation	Wind Leaf Diameter (mm)	Wind Leaf Rotating Speed (r/min)	Motor Rotating Speed (r/min)	Air Volume (m3/h)	Full Pres- sure (Pa)	Noise (DB)	Enter Power (W)	Rated Voltage (V)	high (mm)	width (mm)	thick (mm)
FBD-900	750	616	1400	22200	65	≤70	550	380	900	900	400



Fan installation method:

1. Before installing the fan, please reserve a suitable size installation hole in the place where it needs to be installed and keep the bottom flat.

2. Place the fan in the reserved installation hole to ensure that the installation is level, and after the up and down is vertical, fix the four sides of the fan firmly.

3. Be careful not to squeeze and deform the four frames during installation.

4. Connect the three-phase four-wire power supply close to the fans, ensure that the cable is thick enough, and connect firmly when wiring to prevent phase loss.

5. Connect the power to test whether the fan is rotating forward and running normally and smoothly.

6. Do not stretch your hands or other objects inside during use.

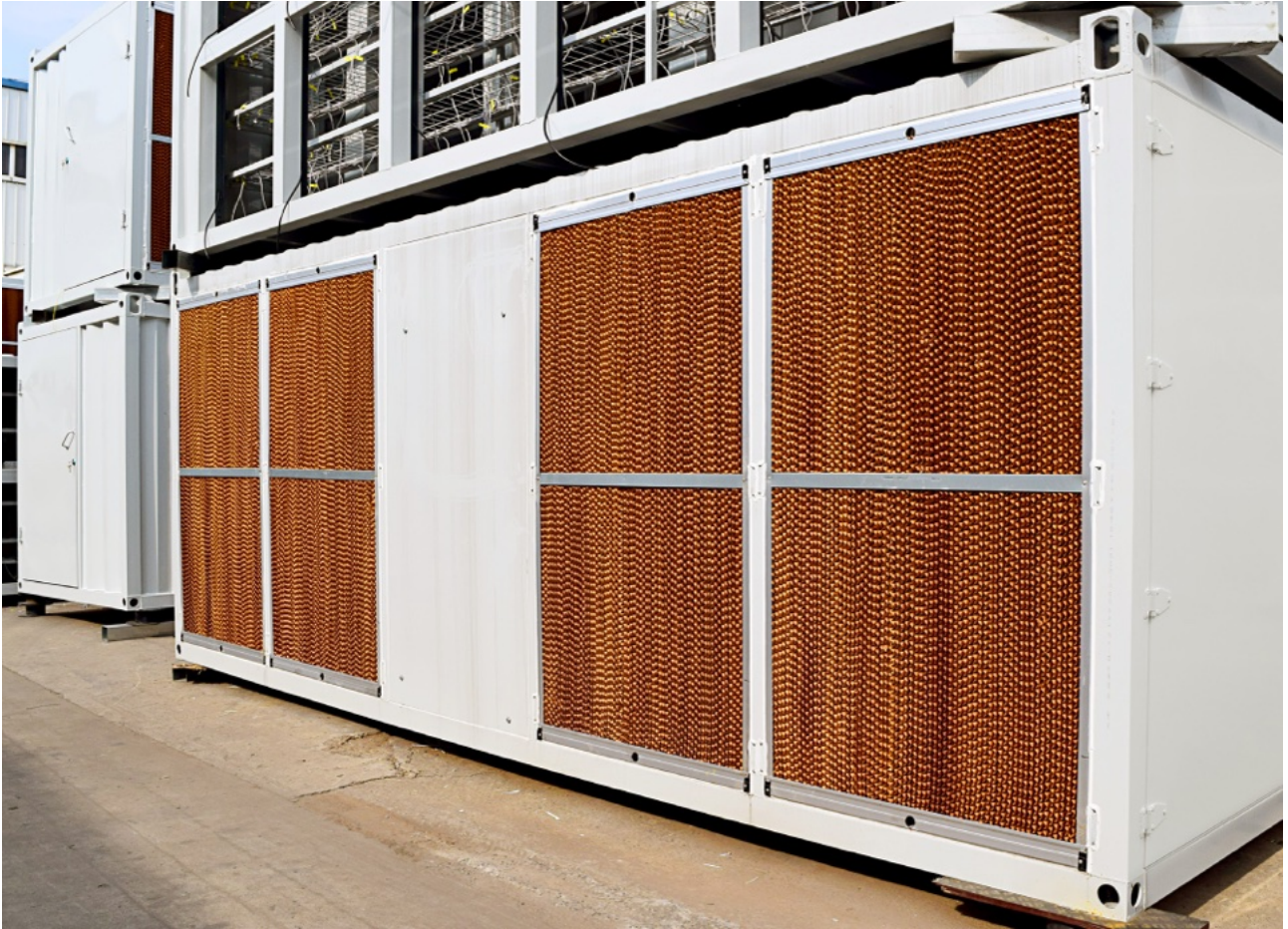
7. After using for a period of time, clean up the sundries on the fan regularly to avoid corrosive materials on the fan.

8. If there is a malfunction, please do not work with electricity, and ask personnel to disassemble it for inspection and maintenance or consult the manufacturer.



Precautions:

1. The housing or the motor housing should be grounded reliably, and zero connection cannot be used instead of grounding.
2. It is forbidden to run in reverse, run overrated current, and run without phase.
- 3.
4. The refueling frequency of the fan bearing is not less than 1000 hours/time.
4. It is forbidden to repair the fan during operation



Water Curtain Display

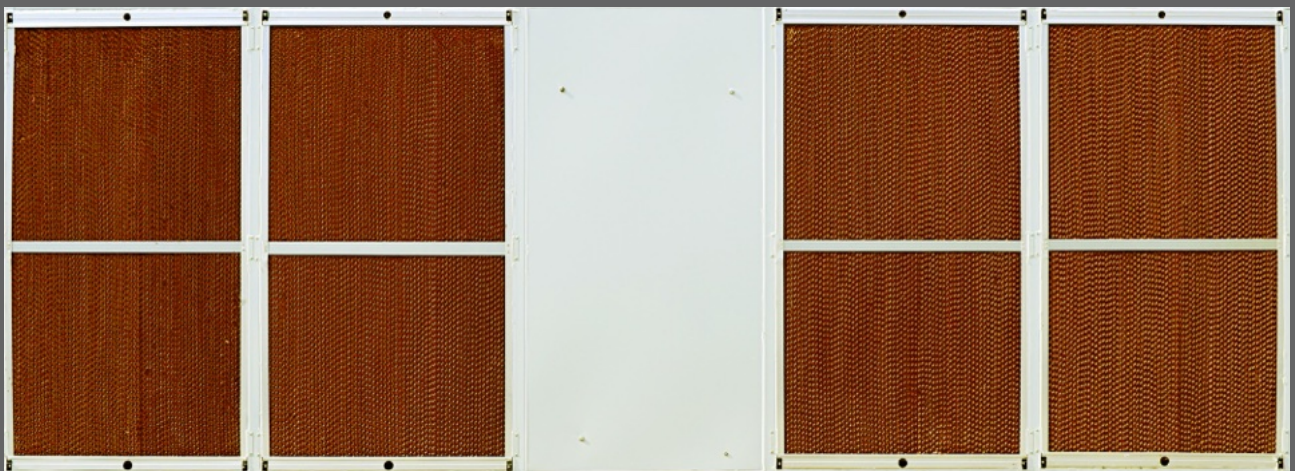
Main performance characteristics:

1. The water curtain adopts new materials and spatial cross linking technology, which has high absorption, high water resistance, mildew resistance, corrosion resistance and long service life.
2. The surface of the material contains active agent, natural absorption and diffusion speed is fast, long lasting efficiency, a drop of water can be diffused in 4-5 seconds, the natural absorption height is 60-70mm/5 minutes, 200mm/1.5 hours, fully reaching the same industry in the country standard.

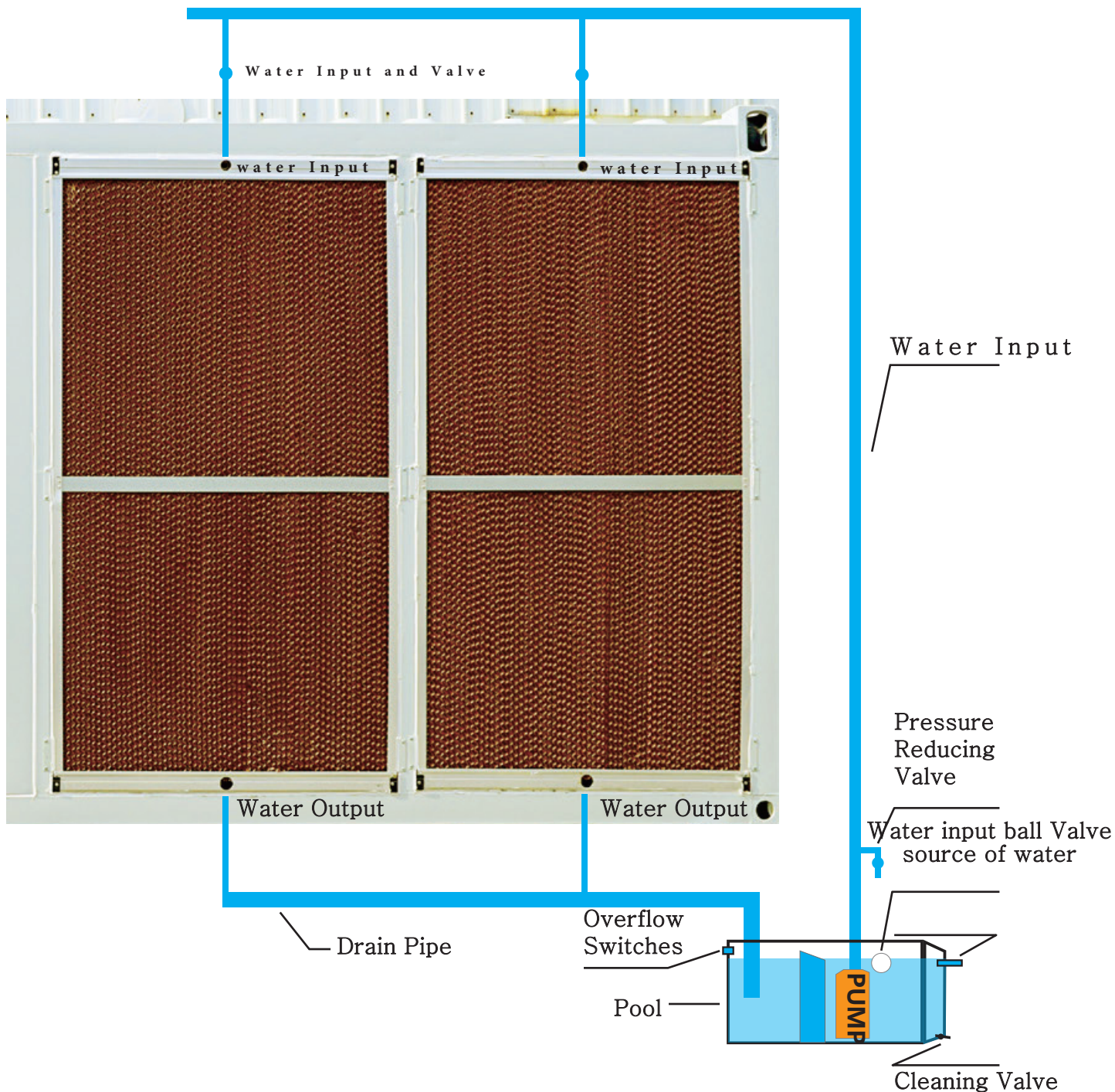
3. The product is produced according to the standard, and the number of 600mm width water curtain paper is about 85 sheets.

4. The raw material is imported kraft paper, the basis weight is 100g/m², the tensile strength is 70N, the thickness is 0.18–0.20mm, the water absorption height is 45mm/10min, the moisture content is 5–8%, and the wetness is 18N.

5. The product does not contain chemical substances such as phenol that are easy to cause skin allergies. It is non-toxic and harmless to the human body when installed and used, and is safe, energy saving, environmentally friendly, and economical.



Installation diagram of water curtain circulating water pipe



Precautions for installing water curtain:

- 1、 Adjust the level and use good quality water pipes.
- 2、 The return pipe is slightly inclined to the direction of the pool, the water tank is equipped with an overflow, and the water pump is equipped with a pressure reducing valve.



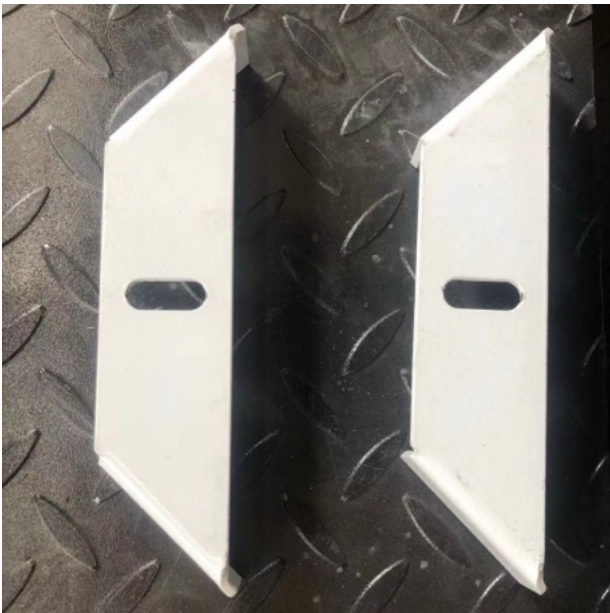
304 Stainless Steel 8 Mesh Dust-Proof Net Installation Instructions

1. Anti-ultraviolet (anti-aging): The surface of the product is sprayed to absorb ultraviolet rays from sunlight, reducing the oxidation rate of the material itself, so that the product has better anti-aging performance and longer service life. At the same time, the UV transmittance is low, which avoids the damage of the sunlight.
2. Flame Retardancy: Because it is a metal plate, it has good flame retardancy, which can meet the requirements of fire protection and safe production.
3. Impact resistance: The product has high strength and can withstand the impact of hail (strong wind). In the impact strength test, a steel ball with a mass of 1kg is used in the upper middle and upper part of the sample to fall freely at a height of 1.5 meters from the top of the wave crest. The product has no broken or penetrating holes.



4. Anti-static: The surface of the product is treated by electrostatic spraying. After being irradiated by sunlight, it can oxidize and decompose the organic dirt attached to the surface of the product. In addition, its super hydrophilicity makes the dust easy to be washed by rainwater Clean effect, no maintenance cost.

Four Corners of the Dust Screen Fixed Accessories Display





Canopy Display

1. One canopy is multi-purpose. The rain proof awning has a novel design, which is rain proof, sun shading, wind proof and sand proof. Reduce the impact of the external environment on the mine box and make the life of the mine box longer.

2. Technological innovation: It is made of galvanized sheet, which is lightweight, high strength, anti-corrosion, and high strength, which is several times that of ordinary plastic sheet materials.



Points for Attention when Moving the Mine Box

1. The mobile mining box must be placed on a flat ground. It is recommended to raise the ground by 100–200mm with a level of ± 1 degree.
2. If two layers need to be superimposed, the ground needs to be hardened with a load of 12 tons.
3. The customer needs to prepare a 5–10 ton crane for loading and unloading mobile ore boxes.
4. Stairs, walkway boards, transformers, cables, bridges, cable junction boxes, switches, mining machines and other facilities outside the box are not included in the mobile mining box products.

5. Environmental requirements: temperature: $-25^{\circ}\text{C} \sim 45^{\circ}\text{C}$; humidity 10% RH $\sim$ 90%RH; high humidity area environment temperature requirement is not higher than 40°C , when the environment temperature is less than 0°C , the air inlet and outlet must be closed. The miner can be started only when it is heated to $> 0^{\circ}\text{C}$.

Precautions for the use of mobile integrated distribution boxes :

Before using this product, please read the following precautions carefully to prevent product damage and personal or property safety losses caused by improper use.

1. Visual inspection

When the mobile integrated distribution box arrives at the site, the product packaging and the appearance of the box should be thoroughly inspected to ensure that the packaging is intact, and the box is not severely deformed or damaged. If the cabinet is unsoldering, degumming, damaged, severely deformed, etc., please repair it before putting it into use.

2. Power supply system inspection

Before the product is connected to the power supply, please check that the appearance of all circuits and components of the power system is not damaged, broken, corroded, overheated or discolored or any other abnormal conditions, and check the wiring screws to ensure that they are tight. The total leakage protector of the distribution box of this model is a 380V power supply. It is necessary to ensure the correct connection and installation during operation.

At the same time, 3 fire protection and 1 neutral line are set. During use, the customer shall not modify the power supply system in any form. It is strictly forbidden to drive the mining machine when the main power is turned on, so as to avoid unnecessary electric shock. If you ignore this rule, you will be responsible for the loss caused by it.

3. Precautions for Installation

The cabinet must be kept vertical during the entire installation process to avoid tilting.

This product should be placed on a flat ground with an inclination is not greater than 2 degrees. After the mine box is installed, the mine machine should be equipped with lightning protection equipment before the operation. Installation requires a current limiting type over current protective devices to power your equipment.

4.Safe Operation

Before starting to connect to the miner, the circuit must be cut off and kept cut off during the whole process. At the same time, the 5 safety rules must be observed. Full criteria: safe isolation, preventing reclosing, ensuring that the circuit is cut off, grounded and disconnected, covering or isolating adjacent live parts.

When restarting the power, you should turn off the power of the miner to start the machine. When starting, the power should be sent in the following order: first send the main switch, and then send power to each group in order. When using the mining machine in the mine box, try to use it evenly among the 4 PUFs to keep

the electricity balance. When the mine box is running, please check the operation of each group of mining machines and adjust the temperature in the box appropriately according to the size of the air outlet. The temperature drop can appropriately reduce and stop several fans. At the same time, it is necessary to check the exhaust system and water supply system and pay attention to whether the fan is reversed when installing the power supply. For the water supply system, when the outdoor air temperature is greater than 35 degrees, the water curtain must pass water, and ordinary industrial water is sufficient. A small stream of water is used for dripping. When the damp area of the water curtain is greater than 50%–80%. Pay attention to the reduction of water flow and prohibit water supply with water flow above 1.5 atmospheric pressure. If the rain is heavy, the leak hole needs to be opened to prevent water from splashing into the box and damaging the machine.

5. Maintenance

The maintenance of equipment is a necessary measure to ensure the normal and safe operation of the equipment. These tasks, such as replacing the fuse, must be carried out by appropriately trained personnel in compliance with safety guidelines. During operation, in case of emergency, the emergency stop button can be activated. After the emergency stop, the entire mine box is in a non-electric state. Please install the socket for onsite maintenance and maintenance by the owner. The cable plug of the miner uses the socket specific plug accessories (Octagon-Power can also purchase on behalf of it).

6. Remarks

This mobile mining box has undergone power on inspection before leaving the factory. It is a qualified product. The electrical accessories may be loose due to long distance transportation and sea transportation. It should be tested by a professional electric engineer before use.

Note: Customer Service Email: dana@octagon-power.com