

# Dry ice clear wash machine

You are welcome to use a dry ice cleaner and thank you for your support of our products! Be sure to read this instruction carefully before use.



## I. Safety precautions

Before use, read this manual for safe and correct use of the product. The purpose of this note is to prevent injury accidents resulting from incorrect use, please use it after properly understanding everything.



警告

Indicates the possibility of death or serious injury.



注意

Indicates the possibility of injury and damaged items. In order to use the user correctly, the related items in the specification.



- **environment**

- Do not be used in flammable and explosive gas environment, corrosive environment, easy to touch water environment and flammable materials nearby. Otherwise, there may be a fire, electric shock, or injury.
- Installation, wiring, operation, operation, inspection point, fault analysis and other operations shall be carried out by professional and technical personnel, otherwise there is fire, electric shock or injury.
- Do not move, install, wiring, check points and other operations (must be implemented after cutting off the power supply), otherwise there is the possibility of electric shock.

- **install**

- Please reliably install the product firmly on a flat site and leave enough room for operation. The device housing must be grounded after installation, otherwise an electric shock is possible.

- **wiring**

- Please connect the 220V voltage with the ground sign. Observe the rated range of the power supply input voltage, otherwise there is a possibility of electric shock or injury.
- Do not forcibly bend, pull, plug the connection cable, otherwise there is the possibility of fire or electric shock.
- Do not remove, change or replace the electric and gas circuit components without authorization, otherwise there is product damage, artificial electric shock or injury.

- **Operation:** Do not remove or replace electrical, air-circuit components or components while the unit works, otherwise there is injury and damage to the device.

- **Maintenance · point inspection:** do not touch the terminal of the circuit when the power supply is just cut off (within 3 minutes), otherwise there may be electric shock caused due to residual voltage.

- **Repair · Breakdown, Remodeling**

- Do not break down or transform without authorization, otherwise there is the possibility of electric shock or injury.



- **carry**

- Ensure that the movement space is sufficient, safe and free of obstacles. Otherwise, there may be injured or damage the device.

- Make sure to cut off the power supply and gas sources. Otherwise, electric shock or damage is possible.
- Installation: pay attention to the loose fastener during installation, otherwise there is the possibility of product fault or human injury.
- Wiring: When installing and removing the power cord, it should be performed by a professional electrician, otherwise the possibility of electric shock.
- **revolve**
- Do not put your fingers or foreign body into the cylinder movement site or rotating parts while the unit works, otherwise there may be injury and damage to the device.
- Do not put your finger or foreign body near the circuit while the device works, otherwise there may be injury and damage to the device.
- It is forbidden to point the nozzle at people and animals when the equipment is running, otherwise serious casualties can occur.
- **Maintenance • point inspection**
- Disuse: to waste equipment, please do industrial waste treatment.

## Two, equipment introduction

### Product applicable industry:

1、Product applicable scenarios: automotive aftermarket, E VA mold, petrochemical industry, casting, sulfur, mold, motor, power, printing, aerospace, heat, metal surface rust, coating of fan impeller, electronic industry, molding products, stripping, second-hand equipment, renovation, industrial cleaning services, food, fire protection, shipbuilding, environmental cleaning process, injection mold, coating machine maintenance, welding machine and tool maintenance and other industrial products.

2、Environmental requirements: Temperature:  $-10\sim 40\text{ }^{\circ}\text{C}$  Humidity:  $<75\%$

### Product Principle:

When the equipment works, the dry ice is transferred into the ice chamber under the chamber with a groove, the groove can allow dry ice particles, the mixed ice is driven by the motor, by rotating the dry ice is brought into a relatively closed space and mixed with high pressure air flow is driven by the ice tube through the handle injection gun to hit the dirt surface and instantly expand about 800 by the own volume to remove the dirt from the surface of the air flow,

to achieve the cleaning purpose. Adjust the appropriate amount of ice out according to the strength of dirt adhesion.

## plant parameter

Main motor: 370W / 220V  
Voltage: AC220V / 50-60HZ  
Weight: 50KG (naked machine weight)  
.0Gas supply flow: 28-106CFM(0.8-3m / min) adjustable, under 80PSI(5.5bar)  
Gas supply pressure: 0.1-0.9Mpa (1-9bar adjustable)  
Ice delivery speed: 0-0.75KG/min (adjustable)  
Hopper capacity: 23.5lbs(10.5KG)  
Protection level: IP54  
Dry ice status: 2.5-3mm granular  
Power: 0.37kw  
Drive mode: direct connection  
Ultracold dry-cold ice transfer tube  
Length, width and height: (L) 510 \* (W) 460 \* (H) 960 (MM)

## List of electrical configuration of the equipment

24V solenoid valve: Ningbo YIC 2S250-15-24V  
Pressure regulating valve: AR4000-04  
Conactor: Schneider LC1D09...C  
Relay: The Schneider RXM24VDC  
24V power supply: Mingwei LRS-150-24  
Cable: Shenzhen Aohua Electric  
Ultracold dry-cold ice transfer tube

Includes accessories:

1. Five aerodynamic spray heads;
2. One low temperature dry ice ice hose with control cable;
3. One handle with a switch handle;
4. 1 gas-supply and explosion-proof pipe;
5. One ice shovel;
6. 1 Face mask helmet and earcover each;
- 7.10A Waterproof power supply cable: 1;
8. One operation and use installation manual.

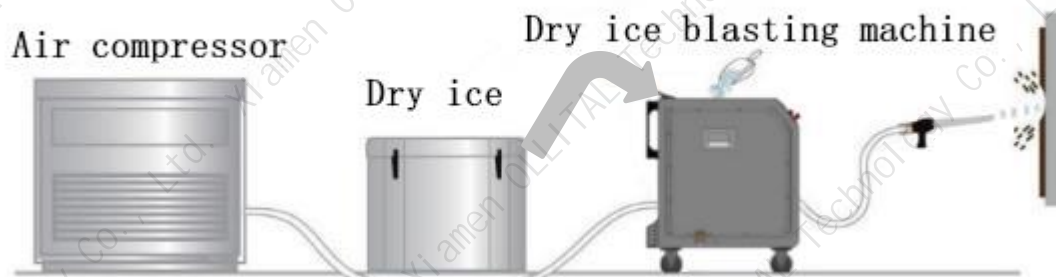
## Gas source requirements:

1. The factory site shall meet the power screw air compressor of 7.5KW or more;
2. The pipe diameter of the field pipeline layout shall be equal to or greater than DN 15 (4 points) to ensure the gas flow rate;
3. The air compressor shall be less than 50 meters away from the cleaning site, and the longer the distance, the greater the required air compressor power.

## Equipment circuit schematic diagram

### Schematic diagram of the equipment operation

#### Dry ice blasting system



## III. Installation and commissioning

- Connect to the gas source and power supply well. Check whether the data of the pressure indicator is normal and whether the power access is normal.
- Prepare for the test machine, including: fully connecting the console, clean up the work top debris and dust, check whether the parts are loose, and clean up the objects placed on the body or work area.
- Test: First, run empty for 15 seconds, observe whether the

Popsicle at the bottom of the material port rotates normally, and adjust it from slow to fast once. If there is no abnormality, then add the dry ice particle test injection to confirm the normal cleaning operation.

## **IV. Description of use**

### **Start-up step:**

1. Check whether the gas source and power supply are connected;
2. Check whether the emergency stop button switch rotates to the bounce open state;
3. Check that the power indicator light is on;
4. Add dry ice, cover plate and press the start button above the handle to run normally.
5. Stop the operation, press the start button above the handle, pause the operation, press the emergency stop button, the equipment power off;
6. The second start of the equipment, the first runs empty for 15 seconds, spray the water from the equipment head and the pipe, and then start the operation.

## **V. Common troubleshooting methods:**

### **1. Press the switch button, and the equipment mixing popsicles do not rotate;**

- (1) Observe if the ice stick below the material mouth is stuck;
- (2) Check whether the plug equipment is electrified and the emergency stop button is on; (Solution, if the popsicles are stuck, the foreign body is need to be removed and try to start the equipment or contact the equipment supplier)

### **2. Turn the Popsicle, the gun does not spray**

- (1) Check whether the air source interface is normally connected to the equipment, and check whether the air compressor is open; (Solution: correctly connect the air source interface and confirm the open state of the air pressure equipment)

### **2. The equipment operates normally, the nozzle only jet not ice;**

- (1) Open the cover plate to see if the dry ice in the funnel is running out. If there is ice, see if the mixer is rotating normally. (Solution: 1. Add the dry ice to continue to use; 2. Contact the manufacturer to provide an alternative lower ice solution)

## VI. Personnel training

- Operators must be trained and started and maintained with certificates.
- Contact number: 18038169616
- Address: 39 Xinchang Road, Xiamen, China