Portable Dry Ice Machine

DM-2503

DM-2504

User Manual

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Precaution

1. Please read the user manual before using this product.
2. Only use the adapter provided by the original manufacturer.
3. Do not use the product in high-temperature, flammable or explosive hazardous environments.
4. Do not immerse the main unit or plug in liquid to prevent short circuit, fire or electric shock.
5. Device shall only be connected to food-grade liquid carbon dioxide. Connection of any other refrigerant is prohibited.
6. Never disassemble the connection tube while the device is operating or the cylinder valve is open to avoid personal injury.
7. Do not aim any part of the body at the nozzle during device operation.
8. Do not start the device without installing the filter cartridge to prevent device damage.
9. In case of abnormality during operation, stop the device immediately and contact our company for professional resolution.

Specifications

Input Voltage	AC 110V~220V 50/60Hz
Output Voltage	DC 12V 5A
Power	25W
Net Weight	Round (DM-2503): 3.30 Kg Square (DM-2504): 3.80 Kg
Main Unit Dimensions	Round(DM-2503): 168*mm*168mm*135mm Square(DM-2504): 168*mm*168mm*135mm
Refrigerant	Food-grade liquid carbon dioxide
Cylinder Operating Temperature	Operating temperature shall not exceed 30°C(86 °F)

Packing List

DM-2503 Round Main Unit

or

DM-2504 Square Main Unit

Dry Ice Cup

Liquid Transfer Tube

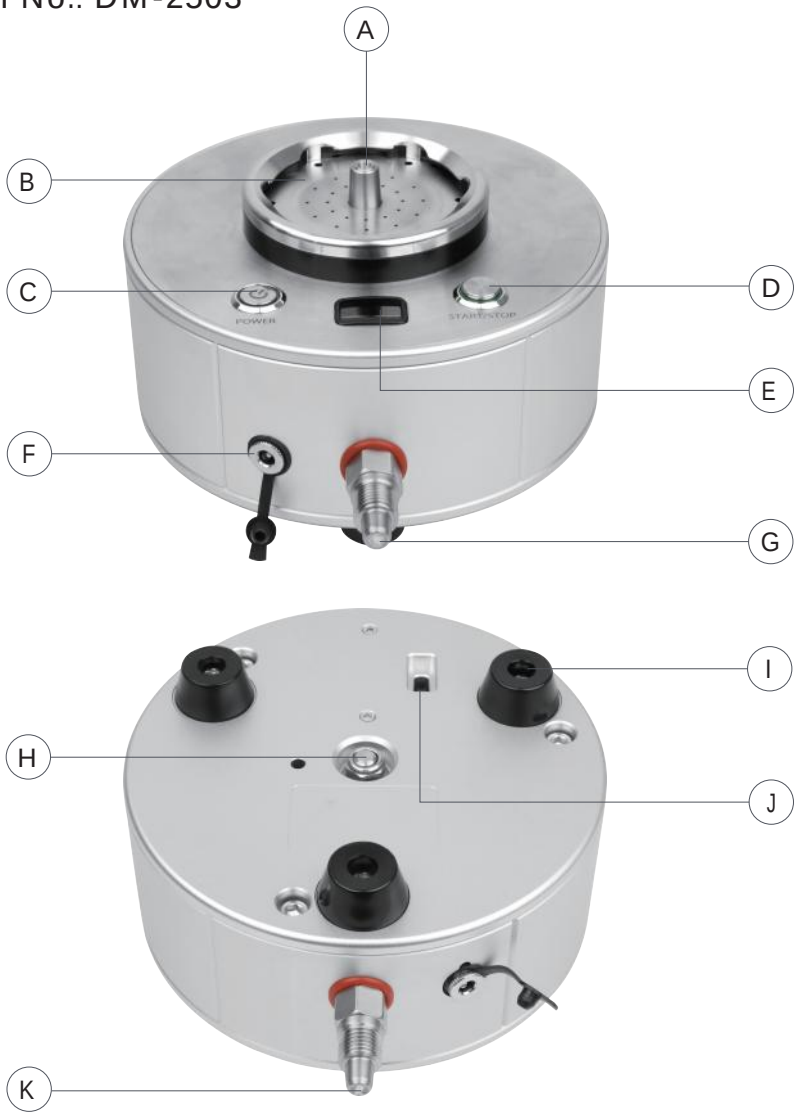
Power Adapter

27mm Spanner

Tweezer/Spare Filter Cartridge

Product Accessories

Model No.: DM-2503



A:Jet Nozzle
B:Dry Ice Cup Holder Slot
C:Power Button
D:Start/Stop Button
E:Time Display Screen
F:Power Connector
G:Filter Cartridge Installation Hole
H:Valve CoreI:Rubber Pad
J:Manual/Auto Mode Switch
K:Liquid Transfer Tube Connector

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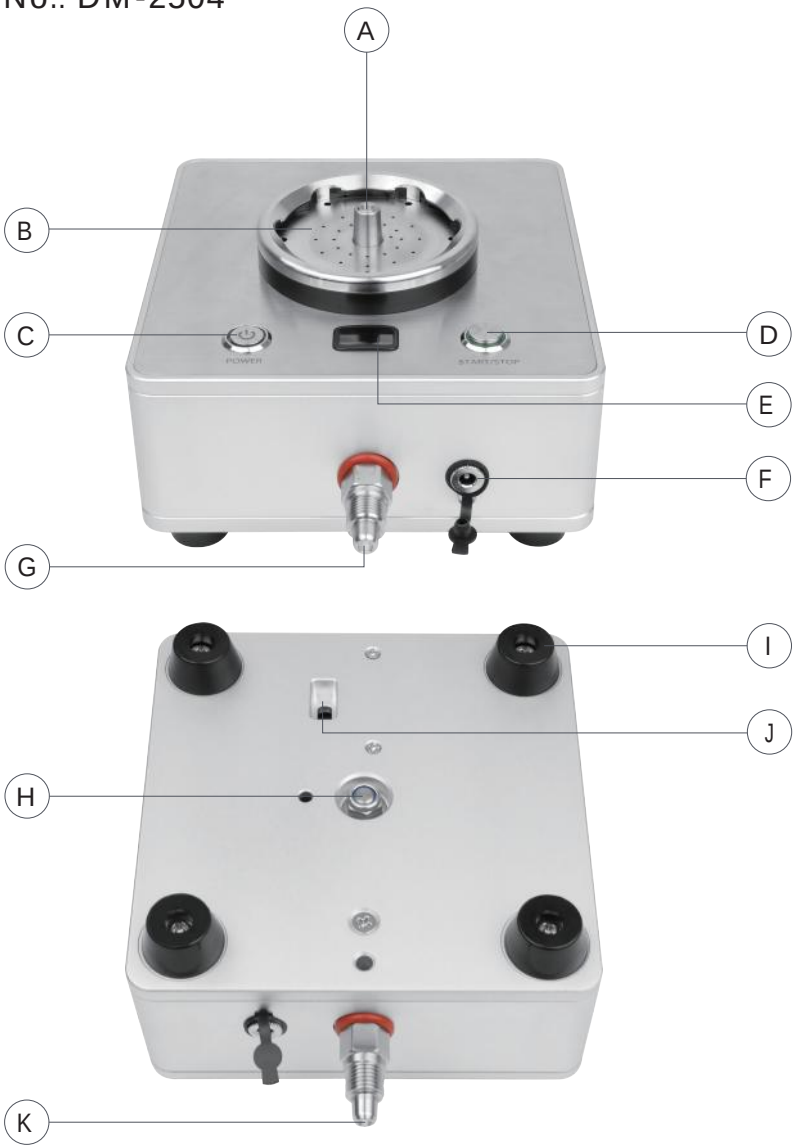

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Operating Instructions

Requirements for Refrigerant and Cylinder

Requirements for Refrigerant:

- Liquid Carbon Dioxide Only.

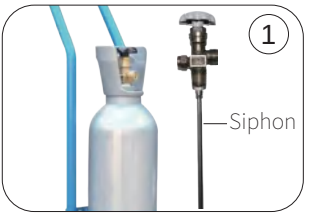
Requirements for Cylinder:

- Cylinder valve type: Concave connector G5/8.
- Cylinder capacity optional: 4L/8L/10L/15L/20L/40L.
- Recommended cylinder type: It is advisable to select aluminum cylinders with handles for easy mobility.

Requirements for Cylinder Placement :

① Cylinder with siphon tube can be used in an upright position.

② Cylinder without siphon tube must be used in an inverted position.



Cylinder Connection Method

- **Connecting to the cylinder:** Connect the hexagonal connector of the connecting tube into the cylinder port, tighten clockwise by hand first, then secure with a spanner.
- **Connecting to the device:** Insert the round end of the connecting tube into the device air inlet, tighten clockwise by hand first, then secure with a spanner.
- **Caution: Do not allow the connection tube to be twisted .**
- **Power Connection:** Plug the adapter into a power outlet, then connect its output connector to the device's power port.

Warning: Must use the adapter that comes with the original packaging , Non-original adapters are prohibited.

Dry Ice Making Steps



- **Proper Installation of Dry Ice Cup:** Place the dry ice cup in position and screw it ,clockwise into the slot until it is secure and stable, so as not to affect subsequent performance.
- **Power Connection:** Plug the power cord into a compliant outlet and ensure a tight it.
- **Device Startup:** Press the "POWER" button, The LED indicator light is on, indicating that the device is powered on and in standby mode.
- **Operation Start:** After setting the time, press the "START/STOP" button once, the device starts working immediately.
- **Auto Stop:** The device shuts down automatically after the preset runtime elapses,no manual operation required.
- **Manual Stop:** During the operation of the device, if it is necessary to stop the work halfway, you can directly press the "START/STOP" button, and the device will immediately stop running.

Time Setting

Automatic Operation Mode

- **Time Setting Mode:** Double-press the "START/STOP" button, wait for the display digits to flash, confirming entry into the mode.
- **Adjust Operating Time:** Press and hold the "START/STOP" button, the display digits will change accordingly. Set the time as needed (Note: Display "10" = 10 seconds of operation).
- **Complete Time Setting:** Release the "START/STOP" button; wait for the display digits to stop flashing, confirming the time is set. The device saves the settings automatically and returns to standby mode;To make dry ice again with the same time settings, double-press the "START/STOP" button once more to start operation.

Manual Operation Mode

- Toggle the manual/auto mode switch to the **Manual** position (factory default: Auto Mode).
- Press and hold the "START/STOP" button, the device starts and enters manual operation mode.
- Release the pressed "START/STOP" button, and the device stops running immediately.

⚠ **Warning:** Do not touch dry ice directly after production to avoid cold burns.

Warranty

- **Warranty Period:** 12 months from the date of purchase.
- **Warranty Coverage:** For failures/damages under normal use within the warranty period, free repair is provided; replacement will be offered if repair is not feasible. Free repair or accessory delivery is available for quality-related issues.
- **Non-warranty Cases:**The warranty shall not apply to failures or damages caused by the following circumstances: exceeding the warranty period, man-made damage, damage due to force majeure, improper use or maintenance not in accordance with the manual, unauthorized disassembly or repair, and faults not arising from product quality, design or manufacturing defects.
- **Repair Outside Warranty Scope:** Shipping and repair fees will be charged. For specific costs, please contact customer service.

Daily Maintenance

Filter Cartridge Replacement Method

1. Close the cylinder valve clockwise.
2. Unscrew the tube connector at the device end counterclockwise.
3. Remove the old filter cartridge with tweezer.
4. Install the new filter cartridge with tweezer.

Tips:

- **Frequent use:** Replace the filter cartridge daily.
- **Occasional use:** Replace the filter cartridge immediately if it turns black or the gas pressure decreases.




Other Precautions: Keep the device dry, wipe off any water droplets promptly after use.

FAQ

Question	Answer
Can other refrigerant be used?	Only food-grade liquid carbon dioxide is allowed,other refrigerant are prohibited.
Can it be used outdoors?	Yes, but please ensure the operating ambient temperature does not exceed 30°C(86°F).
Can dry ice be eaten directly?	Dry ice is solid carbon dioxide, and its temperature is approximately -70°C (-94°F). Do NOT ingest directly as it causes frostbite. For food preservation, quick-freezing and visual atmosphere effects only.

Troubleshooting

If any abnormality occurs during operation, stop using the device immediately.
Do NOT disassemble or repair it by yourself !
Refer to the table below for troubleshooting,Contact customer service if the issue persists.

Question	Analysis	Solution
Unable to operate?	1. Cylinder valve not opened; 2. Wrong refrigerant used; 3. Cylinder without siphon tube; 4. Ambient temperature exceeds 30°C(86°F).	1. Open the cylinder valve; 2. Ensure the cylinder contains liquid carbon dioxide; 3. Use the cylinder upside down, or select a cylinder with a siphon tube; 4. Ensure ambient temperature is below 30°C (86°F).
Reduced jet flow?	1. Filter cartridge clogged; 2. Low liquid carbon dioxide in cylinder.	1. Replace the filter cartridge; 2. Refill with liquid carbon dioxide.