

# Lithium Vacuum Pump Safety Instructions

## I. Safety Operation Specifications

### 1. Precautions before use

1. This product uses 18V 9Ah lithium battery;
2. Always check the charger, power cord and plug before use. If any fault is found, do not use the charger; non-professionals should not open the charger or perform repairs;
3. Before connecting the Vacuum Pump to the A/C-R system, evacuate the refrigerant from the system using a reliable method. Note: Extracting refrigerant under high pressure may damage the pump. Dedicated equipment is recommended;
4. To avoid personal injury, carefully read and follow the instructions in the user manual;
5. Electric shock hazard: When servicing this device, always disconnect the battery pack; do not expose to rain, and store the pump indoors to reduce the risk of electric shock;
6. Hazard: Avoid inhaling refrigerant vapor and lubricating oil vapor or mist. Inhalation of high concentrations may cause arrhythmia, loss of consciousness, or even suffocation; leaks may cause eye, nose, throat, and skin injuries. Read the manufacturer's Material Safety Data Sheet for further safety information regarding refrigerants and lubricants;
7. As the pump surface becomes hot during operation, do not touch the oil tank or motor housing while in use;
8. Unauthorized repair or disassembly of the product is prohibited.

### 2. Environmental requirements

This product's operating temperature range is 5~40°C.

## II. Safety Warnings

### 1. Charging precautions

1. Charging precautions:
1. Do not use the charger on flammable surfaces or in flammable environments. The charger may generate heat during charging which could cause fire;
2. For charging safety, use only the charger specifically designed for this product. The use of incompatible or inferior quality chargers is prohibited;
3. Charging in environments exceeding 45°C (113°F) will trigger forced over-temperature protection and shut off charging;
4. Avoid charging at high temperatures (>40°C) or low temperatures (<0°C). High temperatures may cause thermal runaway, while low temperatures may lead to lithium-ion deposition, damaging the battery;
5. After high-temperature operation, allow the battery to cool before charging;
6. When not in use, store the device in a dry, cool environment. Prolonged storage in environments exceeding 60°C (140°F) is prohibited.

### 2. Safety warnings

1. Do not operate with intake port open to atmosphere for more than 3 minutes;
2. Do not expose the charger to rain or immerse in water. Water ingress increases electric shock hazard;
3. Do not charge other batteries. This charger is only suitable for charging lithium batteries model VB518 (18V 5Ah) and VB918 (18V 9Ah). Otherwise there is risk of fire or explosion;
4. Keep the charger clean. Contamination may increase electric shock hazard;
5. Before any maintenance or cleaning, unplug the charger to reduce electric shock hazard;
6. Unplug the charger when not in use. To prevent metal objects from falling into the interface, which may increase risk of electric shock or charger damage;
7. This charger is not intended for use by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge;
8. Do not allow debris to enter the charger blower outlet, as this may damage the charger blower;
9. This product contains magnets. Keep away from pacemakers.

## III. Maintenance

Do not replace or repair damaged chargers or power cords yourself. If needed, please contact our service center.

## IV. Disclaimer

1. This device is only suitable for its designated usage scope and environment. Users must strictly follow the operating procedures and precautions in the manual. The company shall not be liable for any damage, misuse or accidents caused by usage beyond the device's scope or failure to follow the instructions;
2. All warranty services must be performed within the warranty period. For repairs, replace components only according to the company's repair manual. The user shall be responsible for any accidents or machine damage caused by using non-original parts, unauthorized modifications or usage beyond specified limits;

3. The manufacturer shall not bear any additional costs beyond product malfunction, including: loss of working time, refrigerant loss, contaminated refrigerant, or unapproved transportation/labor costs;
4. Disposal must strictly comply with local laws and regulations;
5. Strictly follow the charging/discharging conditions and cycle count requirements specified in the manual;
6. Under normal maintenance conditions, the maximum service life of this device is 8 years; use beyond this period may pose safety risks;
7. We reserve the final right to interpret the content of this manual; for any questions or further explanation, please contact VALUE.