

USER MANUAL



- It must be ensured that the refrigerant gas is compatible with the system equipment.
- Ensure that there are no leaks in the system.
- Ensure that the system is free of moisture, rust, or debris.
- Personnel handling the gas must have complete equipment in terms of occupational safety.
- Gas/liquid must be injected into the system in a controlled manner.

USAGE: To open the cylinder, remove the cover on the valve. Attach the transfer hose to the valve outlet. Never connect the high-pressure side to a system.

WARNING

Compressed Liquids and Gases

Vapors can displace oxygen in the surrounding air, leading to rapid suffocation. Inhalation or misuse of the product may result in serious personal injury or death. Contact with hot metal surfaces can release toxic and corrosive dissolved gases into the environment. Skin or eye contact with the liquid may cause localized frostbite and irritation. Excessive heating, compression, or corrosion can cause the cylinder to rupture, potentially resulting in serious personal injury or death.

BASIC PRECAUTIONS TO TAKE

- Never inhale the gas.
- Store and use it in a suitable area with proper ventilation.
- Avoid contact with skin, eyes, and clothing.
- Do not expose to direct sunlight or store at temperatures above 51°C.
- Do not store in humid areas.
- Do not drop the cylinder or subject it to hard impacts.
- Do not over-tighten the valve or safety relief device.
- Never refill the cylinder with compressed air or any other substance.
- Even empty cylinders may contain residual material; handle with care during disposal.

ADDITIONAL INFORMATION FOR FIRST AID

If inhaled, move the person to fresh air. If they are not breathing, administer artificial respiration (preferably mouth-to-mouth). If they have difficulty breathing, provide oxygen. Avoid stimulants. Do not administer adrenaline (epinephrine), and call a doctor.

In case of contact, rinse the eyes immediately with plenty of lukewarm water for at least 15 minutes. Call a doctor. For skin contact, wash the affected area with lukewarm water or use other materials to gently warm the skin.

CYLINDER RECYCLING INFORMATION

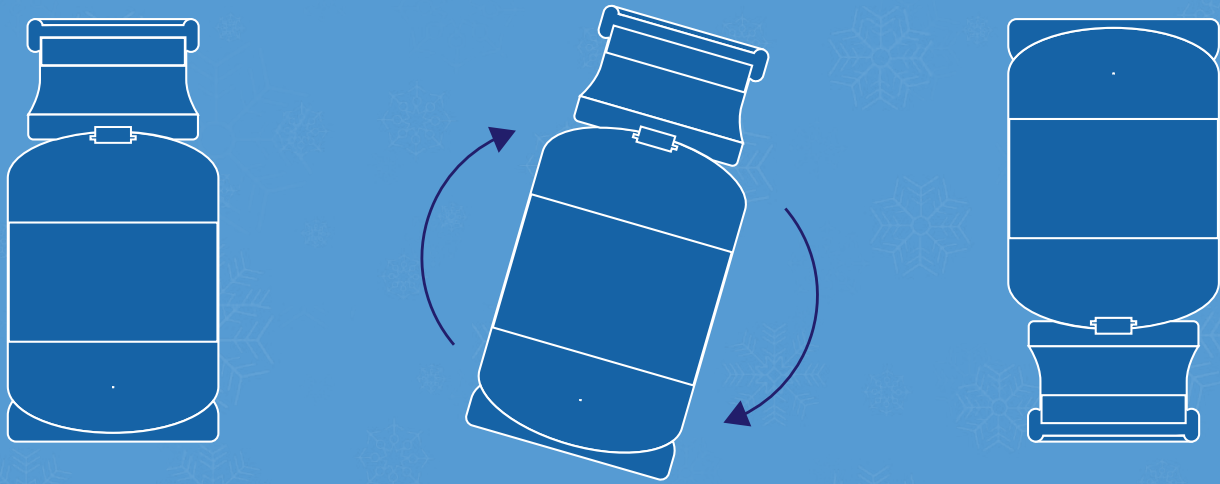
Do not release the remaining content into the atmosphere; transfer it to an approved refrigerant recovery cylinder. If the cylinder is empty (OPSIG or less), open the valve and recycle the cylinder properly!

12.3L Cylinders



12.3L Cylinders Without Dip Tube:

- There is no label on the cylinder or box.
- For 12.3L packaged products, to inject liquid into the system, use the cylinder by turning it upside down as shown below.



By increasing the height of the cylinder, you can ensure a smoother flow.

12.3L Cylinders with Dip Tube:

- The cylinder and box are labeled as "with dip tube."
- For these packaged products, use the cylinder in an upright position as shown below to inject liquid into the system.



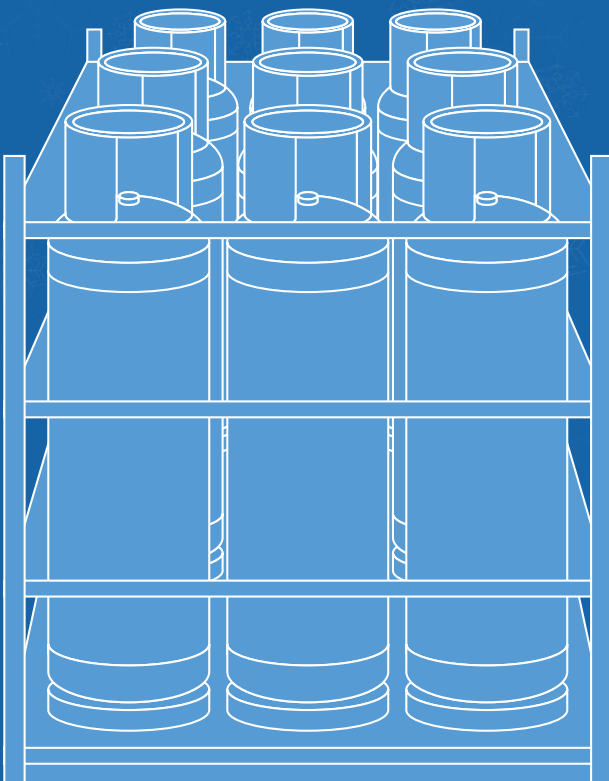
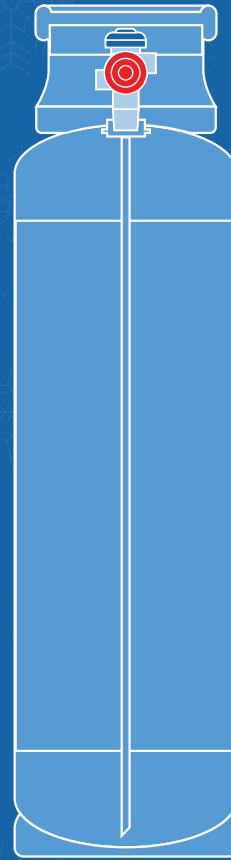
By increasing the height of the cylinder, you can facilitate a smoother flow.

61L Cylinders

- The cylinders must be used in an upright position.
- These cylinders have two valve outlets.
- The red valve is for liquid output, and the blue valve is for the gas phase line.
- By increasing the height of the cylinder, you can ensure a smoother flow.

When injecting liquid into the system, it must be connected via the red valve.

When collecting return gas from the system, connections must be made to the blue valve for the gas phase line.

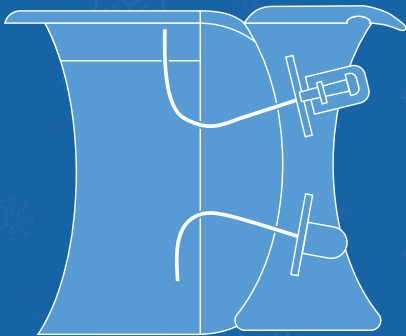


Shipment with Red Crate for 61L Cylinders

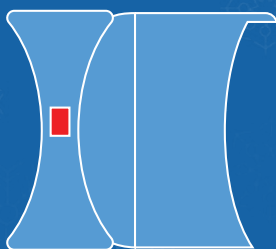
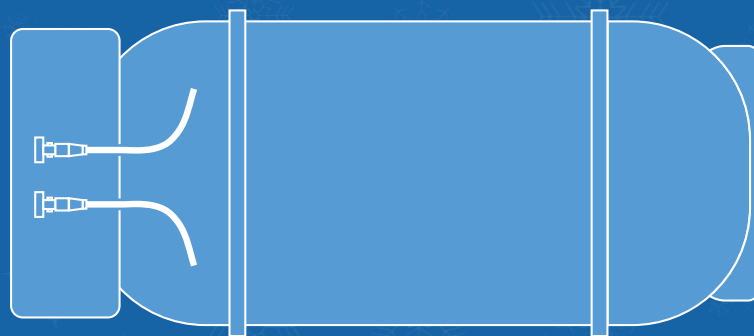


Ton Tanks

1000L



- Ton tanks have two valves; one is for the gas phase line, and the other is for the liquid line.
- Inside the ton tank, there are two pipes extending upward and downward.
- To inject liquid into the system, the lower pipe, as shown in the diagram, must be used based on its position.
- By increasing the height of the tank, you can ensure a smoother flow.



Labels displaying information such as the production year, number, and wall thickness are present on the tank.



Regardless of the valve openings, the green circular parts to which the valves are attached must be used in an upright position perpendicular to the ground.