



**COMP cooler**

Personal Thermal Regulation Technology  
To Keep Your Body Cool and Comfortable in Harsh Conditions!

On line Shopping



[www.compcooler.shop](http://www.compcooler.shop)

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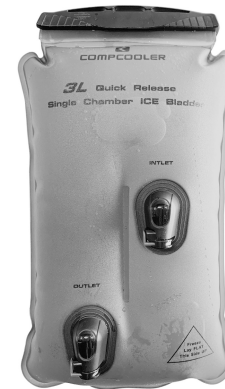
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Designed in USA  
Made in China

# Single Chamber ICE Bladder

Model: COMP-QRB-15/30/50

## Operation Manual



**COMP cooler**

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PERSONAL THERMAL TECHNOLOGY

**COMPCOOLER**  
Personal Thermal Technology

Personal Liquid Circulation Cooling System

- Liquid Cooling Garment
- ICE Water Cooling Unit
- Mini Chiller Cooling Unit

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Reduce body core temperature and decrease the incidence of thermal stress while increase comfort, safety, focus and endurance.

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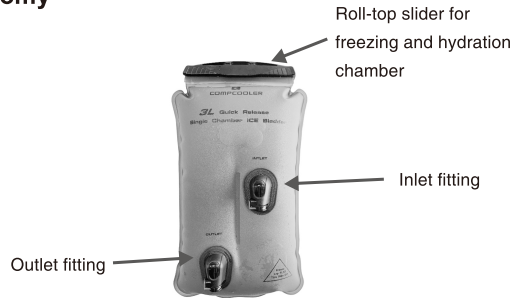
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## Description

The Cooling Bladder is designed with a single chamber that provides the User with the energy necessary for body cooling in the form of frozen water. Quick-connect inlet and outlet fittings on the bladder work in conjunction with the pump in the Compcooler Backpack with double compartment.

## Bladder Anatomy



## Bladder Sizes, Applications and Performance

- 1.5L Bladder:
  - Can be used with the Waistpack cooling system.
  - Cooling duration:
    - 1 – 2 hours with frozen bladder.
    - 0.5 – 1.5 hours with ice cubes.
  - Coolant temperature:
    - With frozen bladder: 2°C - 5°C (36°F - 41°F)
    - With ice cubes: 4°C - 6°C (39°F - 43°F)
- 3.0L Bladder:
  - Can be used with Univest or Backpack cooling systems.
    - 2 – 4 hours with frozen bladder.
    - 1 – 2 hours with ice cubes.
  - Coolant temperature:
    - With frozen bladder: 2°C - 5°C (36°F - 41°F)
    - With ice cubes: 4°C - 6°C (39°F - 43°F)
- 5.0L Bladder:
  - Can be used with single or double-compartment Backpack cooling systems.
    - 4 – 6 hours with frozen bladder.
    - 2 – 4 hours with ice cubes.
  - Coolant temperature:
    - With frozen bladder: 2°C - 5°C (36°F - 41°F)
    - With ice cubes: 4°C - 6°C (39°F - 43°F)

Note: Cooling times vary based on ambient temperature and workload. Ice cubes can also be used if there is not enough time to wait for a frozen bladder. In this case, add ice cubes to the bladder chamber with the roll-top slider and top off with water, taking care not to exceed the fill line. While ice cubes will provide adequate performance, the cooling time will be reduced.

## Preparation

Remove the plastic roll-top slider at the top of the bladder and fill it with water. Take care not to exceed the fill line. Replace the roll-top slider.

Lay the bladder flat in a freezer and allow the water to completely freeze for optimum performance. Note: Ice cubes can also be used if there is not enough time to wait for a frozen bladder. In this case, add ice cubes to the bladder and top off with water, taking care not to exceed the fill line. While ice cubes will provide adequate performance, the cooling time will be reduced.

Note: if bladder is not laid flat, or if it was over-filled with water, the quick-connect fittings may freeze and not allow circulation. If such an instance occurs, simply pour tepid water on the quick-connect fittings until the water in these fittings is melted.

## Operation

1. Connect the supplied tubes to the quick-connect fittings on the bladder. An audible 'click' of the quick-connect fittings ensures a proper connection.
2. Open the zipper of the Backpack, Univest or Waistpack system and install the frozen bladder by connecting the tube from the bladder's inlet quick-connect fitting to the quick-connect fitting on the garment (ref. Figure A).
3. Connect the tube from the bladder's outlet quick-connect fitting inlet quick-connect fitting on the pump.
4. The outlet quick-connect fitting on the pump gets connected to the remaining quick-connect fitting on the garment.
5. The bladder is now ready for use. Follow instructions on the particular Backpack or Univest system that you purchased for further operating instructions.



Figure A

## Storage

Remove the roll-top slider from the bladder. Empty all water and hang dry in a cool, dry place for a minimum of 10 hours before long-term storage.

Since this bladder may be used for hydration, ensure that no mold or other foreign substance exits before use. Use an appropriate cleaner suitable for consumable goods, such as antibacterial dish soap, to thoroughly clean the interior of the bladder.

## Warranty:

Compcooler warrants this product to be free from defects in workmanship and materials, under normal residential use and conditions, for a period of one (1) year from the date of shipment. Shipping and handling fees are to be paid for by the customer. The manufacturer agrees, at its option during the warranty period, to repair any defect in material or workmanship or to furnish a repaired or refurbished product of equal value in exchange without charge (except for fees for shipping, handling, packing, return postage, and insurance which will be incurred by the customer). Such repair or replacement is subject to verification of the defect or malfunction and proof of purchase as confirmed by showing the model number on original dated sales receipt.

## Certifications



Customer service:  
simonsun@compcooler.com

## System options for detachable bladders

Waistpack ICE Water Cooling System  
Separate garment and Waistpack  
1.5L Bladder  
Battery Operated  
Cooling time: 0.5-1.5 hours



Backpack ICE Water Cooling System  
Separate garment and Backpack  
3.0L Bladder  
Battery Operated  
Cooling time: 2-4 hours



UniVest ICE Water Cooling System  
Combined garment and backpack as one piece  
3.0L Bladder  
Battery Operated  
Cooling time: 2-4 hours



Dual Backpack ICE Water Cooling System  
Separated garment and Backpack  
5.0L Bladder  
Battery Operated  
Cooling time: 4-6 hours

