CYCLECHILLERS

Cooling System Specifications

Physical Dimensions:

Cooler	**16" L x 9" W x 9" H**	**40cm L x 23cm W x 23cm H**
Backpack	**19" L x 11" W x 3" H**	**48cm L x 28cm W x 8cm H**

Weight (Dry Wt):

Vest	**1 lb**	**0.5kg**
Cooler unit	**6 lbs**	**14kg**
Backpack	**3 lbs**	**7kg**

Power:

.5 Amp – Less than a 25W light bulb (25W/12V=2A)
12V SAE Direct Connection – Standard (Included)
12V SAE Battery Connect 18" extension – Standard (Included)
Optional: 7.4V Lithium Ion battery and charger, with typical duration of 6 to 8 hours. Sold separately.

Cooling Performance:

60-65 ° F (15-18 ° C) Cold water is circulated through silicone tubes in the vest worn on the torso. Home-made frozen BLOCKS of ICE double the cooling (2 hours) over gas station 'soft' ice. Soft ice has more water content and melts faster (1 hour). Gas station ice is cheap and readily available so an excellent COOLING SOURCE. However, due to surface area differences, gas station ice will not last like BLOCK ice.

Vest Thermal Exchange:

The vest plays a critical role in transferring body heat to the cooling ice-water. Block any hot air from blowing directly on the vest or tubes - which results in wasting ice trying to cool the outside air. **A closed environment(without airflow) on your chest, maximizes body cooling and preserves ice for what it is designed to do -> COOL your body.**

Cooling systems work well in combination with evaporative cooling clothing which cools sweat that is on arms and legs, while water circulation cools and comforts your body core.