



Personal Thermal Technology  
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## Cooling System Matrix

### Self-Contained Systems:

Cooling System	Primary Power Source	Optional Power Source	Noise (dBA)	Cooling Energy Source	Cooling Duration		Comments
					Low	High	
Backpack Ice Cooling System	Rechargeable Battery	N/A	48	Ice	2	4	Additional frozen ice bladders can extend cooling time.
Dual Backpack ICE Cooling System	Rechargeable Battery	N/A	48	Ice	4	6	Additional frozen ice bladders can extend cooling time and cold water hydration.
Backpack Individual Cooling System (Chiller)	Rechargeable Battery	Vehicle Battery	54	Mechanical Refrigeration	2	3	Additional battery can extend cooling time, Unlimited cooling time when attached to vehicle battery.
Backpack Thermal Chiller System	Rechargeable Battery	Vehicle Battery	54	Mechanical Refrigeration	2	3	Additional battery can extend cooling and heating time, Unlimited cooling time when attached to vehicle battery.
Univest Ice Cooling System	Rechargeable Battery	N/A	48	Ice	2	4	Additional frozen ice bladders can extend cooling time.
Waistpack ICE Water Cooling System	Rechargeable Battery	N/A	48	Ice	1	2	Additional frozen ice bladders can extend cooling time.

Note: ON/OFF is 48dBA, Flow control: 40 to 48 dBA, Temp Control 42 dBA



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## Cooling System Matrix

### Stationary Chest Systems:

Cooling System	Primary Power Source	Optional Power Source	Noise (dBA)	Cooling Energy Source	Cooling Duration		Comments
					Low	High	
Motorcycle Rider Solo Chest Cooling System (6L)	Vehicle Battery (12V DC)	Rechargeable Battery	48	Ice	2	4	Additional ice container or ice cubes extend cooling time.
Motorcycle Rider Tandem Chest Cooling System (6L)	Vehicle Battery (12V DC)	Rechargeable Battery	48	Ice	2	4	Additional ice container or ice cubes extend cooling time.
Racing Driver Chiller Cooling System	Vehicle Battery (12V DC)	Rechargeable Battery	68	Mechanical Refrigeration	Unlimited		Opt. rechargeable battery provides 1 - 2.5 hours of cooling, or 110V power adapter for unlimited cooling.
Racing Driver Chest Cooling System (8L)	Vehicle Battery (12V DC)	Rechargeable Battery	48	Ice	3	4	Additional ice container or ice cubes extend cooling time.
Portable Ice Chest Cooling System (8L)	110-220V wall plug (AC)	Rechargeable Battery	48	Ice	3	4	Additional ice container or ice cubes extend cooling time.
Portable Tandem Ice Chest Cooling System(25L)	110-220V wall plug (AC)	Rechargeable Battery	48	Ice	4	8	Additional ice container or ice cubes extend cooling time.
Indoor Refrigeration Chiller System	Wall Outlet (AC110V, Or AC 220V)	N/A	45	Mechanical Refrigeration	Unlimited		Cooling only
Indoor Thermal Chiller System	Wall Outlet (AC110V, Or AC 220V)	N/A	45	Mechanical Refrigeration	Unlimited		Cooling and Heating
Vehicle Mounted Chiller Cooling System	Vehicle Battery (24V DC)	Wall Outlet (AC) by Adapter	68	Mechanical Refrigeration	Unlimited		Cooling only
Vehicle Mounted Thermal Chiller System	Vehicle Battery (24V DC)	Wall Outlet (AC) by Adapter	68	Mechanical Refrigeration	Unlimited		Cooling and Heating
Hand Carry Mini Chiller Cooling System	Battery (12V DC)	Wall Outlet (AC) by Adapter	54	Mechanical Refrigeration	2	3	Additional battery can extend cooling time, Unlimited cooling time when attached to vehicle battery or AC wall outlet.
Hand Carry Mini Thermal Chiller System	Battery (12V DC)	Wall Outlet (AC) by Adapter	54	Mechanical Refrigeration	2	3	Additional battery can extend cooling time, Unlimited cooling/heating time when attached to vehicle battery or AC wall outlet.
Portable Chiller Cooling Unit	Wall Outlet (AC)	24V DC	54	Mechanical Refrigeration	Unlimited		Highly portable, cooling only, built-in power supply
Portable Thermal Chiller System	Wall Outlet (AC)	24V DC	54	Mechanical Refrigeration	Unlimited		Highly portable, Cooling and Heating, built-in power supply