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Solar Ice-based Refrigeration

SPECIFICATIONS	
Product capacity	90L (65L net storage)
Power	24V DC, 1300Wp
Ice Production Capacity:	50 kg/day
Temperature Maintenance:	4-6°C for 5-7 days
Efficiency:	80Wh/kg
Battery:	5kWh 25.6V/200Ah LFP Battery
Battery Charger:	Built-in 60A MPPT Charger

- ◆ The VIPIR system leverages vacuum insulated panels and solar power to provide efficient, cost-effective refrigeration, reducing spoilage and enabling bulk purchases of perishables.
- ◆ Reusable ice bricks for 0°C freezing are possible, or bricks with phase-change material for lower temperatures that can allow sub-zero temperatures in the icebox for freezer capability.
- ◆ A typical VIPIR system includes up to 10 VIP 90L ice boxes plus 1 shared solar powered block ice maker that refills 2 iceboxes per day with 25kg of block ice which lasts 5-7 days.
- ◆ Can store hot items when not used for refrigeration
- ◆ A 5kWh 25V LFP battery is included in the icemaker system.
- ◆ Safe 24V voltage, ideal for wet environments
- ◆ VIPIR is up to 50% cheaper than solar refrigerators, increases affordability.
- Efficiently stores 25 kg of fish, improving catch value.
- Improves preservation, allowing for increased productivity.