

SOLAR FREEZING ROOM

SelfChill AC | 10 M³ | -15 °C | 50 kg/day | 35 °C

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The SelfChill Freezing Room is a pre-configured plug and play kit. This stand-alone system comes complete with PV panels, batteries, and optional grid connection. The kit includes an inverter and charge controllers that seamlessly connect PV panels, batteries, and the Monoblock units. The freezing room is designed to freeze 50kg of products per day to -15°C for extremely hot ambient temperatures up to 35°C. Our technical team adapts the amount of PV panels and Monoblock units based on your location and daily freezing requirements.



Technical Data	
Room volume	10 m ³
Room temperature	-15 °C
Max. ambient temperature	35.0 °C
Insulation	150 mm
PV capacity	7500 Wp
Usable battery capacity	500 Ah @ 48 VDC
Cooling capacity	660 W
Inverter	3 kVA 1-Phase
Max total charging current	142 A
Nominal voltage	230 V AC
Power consumption	480 W
Maximum AC current	4.3 A
Refrigerant	R290
Refrigerant load	<0,1 kg
Total performance COP	1,2

Components	Quantity
PV panel Consort 415Wp	18
Battery Li Weco 5k3 XP	5
Inverter Victron Multiplus II 3KVA	1
Monoblock refrigeration unit	1
Charge controller Victron Smart Solar MPPT 250/70	2
Cables, connectors and fuses	1 Set
PV mounting structure	Optional