

SOLAR FREEZING ROOM

SelfChill AC | 10 M³ | -15 °C | 300 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 300kg 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	20000 Wp
Usable battery capacity	1400 Ah @ 48 VDC
Cooling capacity	2640 W
Inverter	5 kVA 1-Phase
Max total charging current	391 A
Nominal voltage	230 V AC
Power consumption	1920 W
Maximum AC current	17.2 A
Refrigerant	R290
Refrigerant load	<0,1 kg
Total performance COP	1,2

Components	Quantity
PV panel Consort 415Wp	48
Battery Li Weco 5k3 XP	13
Inverter Victron Multiplus II 3KVA	1
Monoblock refrigeration unit	4
Charge controller Victron Smart Solar MPPT 250/70	4
Cables, connectors and fuses	1 Set
PV mounting structure	Optional