Steca PF 166 and Steca PF 240 Solar refrigerator/freezer

Steca PF refrigerators are the most efficient DC energy-saving refrigerators ever developed. They can be used as either a refrigerator or a freezer.

The Steca PF 166 and Steca PF 240 are fully programmable. The inside temperature and each of the other configuration values can be set by the user. They are therefore perfectly suited for all DC applications including even the refrigeration of medicines in hospitals. Thanks to the latest A⁺⁺ energy efficiency class, together with optimal electronic control and an RPM control of the compressor, it is possible to ensure that the energy is used extremely efficiently. This leads to significant cost reductions.

This product stands out for its user-friendliness, thanks to a large digital display with setting options, the highest standards of quality and reliability and a long service life. The refrigerator or freezer is easy to clean as it has a sealing plug on the bottom for draining water.

Product features

- A⁺⁺ energy efficiency class
- · Fast cooling due to compressor speed control
- The freezers can be operated via an off-grid battery system with a 70 W photovoltaic module in most climates

- \cdot Temperature fully programmable
- Adjustable refrigerator or freezer function
 Suitable for all DC applications
- \cdot Low maintenance and easy to clean
- · Lock with two keys
- · Auto-dimming for reduction of own consumption

Electronic protection functions

- Reverse polarity protection
- Deep discharge protection
- Power breakdown display
- Temperature alarm

Displays

- Multifunction LED display
- · Digital temperature display

Operation

Programming by buttons

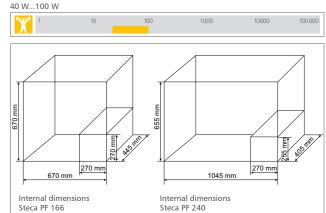
Certificates

- · Compliant with European Standards (CE)
- RoHS compliant
- Abstinence of ozone destroying materials according EC 1005/2009 (CFC-free)
- Developed in Germany
- Manufactured according to ISO 9001 and ISO 14001

Consumption Steca PF 166 [Wh / day]						
Ambient temperature	20 °C	25 °C	30 °C	35 °C	40 °C	
Interior temperature +8 °C	44	72	109	156	216	
Interior temperature +3 °C	72	109	156	216	291	
Interior temperature -10 °C	190	259	346	454	589	
Interior temperature -20 °C	346	454	589	756	946	
Consumption Steca PF 240 [Wh / day]						
Ambient temperature	20 °C	25 °C	30 °C	35 °C	40 °C	
Interior temperature +8 °C	49	82	125	183	256	
Interior temperature +3 °C	82	125	183	256	351	
Interior temperature -10 °C	225	311	421	561	739	
Interior temperature -20 °C	421	561	739	964	1,246	



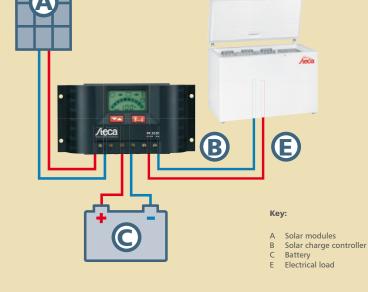




	PF 166	PF 240			
Certificates					
Energy efficiency class	A++				
Characterisation of the operating performance					
System voltage	12 V (24 V)				
Nominal power	40 W 100 W				
Cooling volume	166 litres 240 litres				
Refrigerator temperature	+2 °C +12 °C				
Freezer temperature	-20 °C10 °C				
DC input side					
Input voltage	10 V 17 V (17 V 31.5 V) 12 V / 24 V battery				
DC output side					
Reconnection voltage (LVR)	11.7 V (24.2 V)				
Deep discharge protection (LVD)	10.4 V (22.8 V)				
Operating conditions					
Ambient temperature	+10 °C +43 °C				
Fitting and construction					
Dimensions (X x Y x Z)	917 x 872 x 709 mm	1,288 x 919 x 760 mm			
Insulation strength	11 cm	12 cm			
Weight	47 kg	62 kg			
Cooling principle	compressor				
Refrigerant	190 g R134a				
Celsius / Fahrenheit tempe- rature display	adjustable				
Display brightness	adjustable				
Hanging baskets	2				
Freezer trays	3				
Cold battery	1				
Automatic energy-saving mode	yes				

Technical data at 25 °C / 77 °F

»KEEPS IT ALL FRESH«



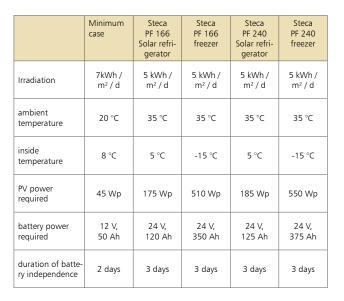
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Example applications

The application areas of the Steca PF 166 and Steca PF 240 solar refrigerators and freezers are multifarious: solar refrigerators and freezers by Steca cater for the most demanding requirements at all times, whether for cooling drinks in solar home systems, for storing medication in hospitals supplied by stand-alone systems or for storage of frozen food. The most important parameters for the planning of such applications are summarized at a glance in the table opposite.



Cooled drinks, Caribbean





Hospital, Nigeria



Hospital , Afghanistan