



cooling with conscience

Cooling with Solar Power

– BD35K using environmentally friendly refrigerant R600a

Our BD35K compressor offers an outstanding reliable and efficient cooling solution powered by the sun.

- High efficiency - low energy consumption
- Wide voltage range - from 10 to 45 V DC
- AEO - Adaptive Energy Optimization
- Starting current reduced to a minimum
- Adjustable variable speed
- Reduces your Carbon Footprint



BD35K - cooling with renewable energy

With the BD Solar compressor Danfoss offers a refrigeration solution in places with no or poor power supply. Due to the exceptionally low starting current batteries can be avoided if an ice bank is used for energy storage.

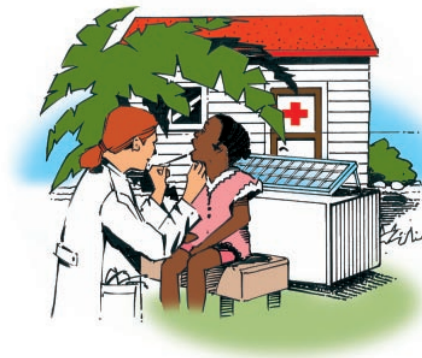
The BD Solar compressor is solar-powered. The unique feature is that the sun energy can be stored in ice packs. During the night and when there is no sun the ice packs keep the cabinet at desired temperatures.

The BD Solar compressor opens numerous uses for the manufacturers within the rapidly growing area of mobile and stationary refrigeration, e.g. storage and transportation of drugs, storage of food under difficult conditions without power supply, ice cream stands in holiday resorts, remote bottle coolers, refrigerators in boats to name but a few.

The BD compressor can be connected to a solar panel without the use of any additional electronics.

Its wide voltage range (10-45 V DC) makes the BD very suitable for photovoltaic powering.

An example on the latter was displayed at an UN Johannesburg Summit. At this occasion Danfoss Compressors supplied the compressor for a solar cabinet, complying with the tough demands of UNESCO (storage for 5 days without power supply).



Technical data

General	BD35K
Code number (without electronic units)	101Z0211
Electronic unit	single: 101N0400, 30 pcs: 101N0401

Application		
Application		LBP/MBP
Evaporating temperature	°C	-30 to 0
Voltage/max. voltage	VDC	10 - 45

Performance data (EN12900/CECOMAF • 12V DC • 3,500 rpm • static cooling)			
T evaporating	°C	-25	-5
Cooling capacity	watt	36.0	106
Power consumption	watt	42.7	69.7
Current consumption	A	3.56	5.81
COP	W/W	0.84	1.52

Dimensions			
Height	mm	A	137
		B	135
		B1	128
		B2	73
Suction connector	location/I.D. mm angle	C	6.2 41.5°
	material comment		Cu-plated steel Al caps
Process connector	location/I.D. mm angle	D	6.2 45°
	material comment		Cu-plated steel Al caps
Discharge connector	location/I.D. mm angle	E	5.0 21°
	material comment		Cu-plated steel Al caps
Connector tolerance	I.D. mm		±0.09, on 5.0 +0.12/+0.20

