



# Join the solar debate

## Solar panel powered compressors send a clear message

BD35K / BD35F



# 4GWP

achievable with

a powerful, efficient compressor  
designed for mobile, solar powered  
operation within a wide voltage  
range, from 10-45 V DC.



## BD35F and 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 the set temperatures.

The BD Solar compressor opens for 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.

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. On this occasion Danfoss Household 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 (code numbers)	BD35F (R134a)	BD35K (R600a)
Compressor (without electronic unit)	101Z0200	101Z0211
Electronic unit	101N0400	

Application		
Application	LBP/MBP	
Evaporating temperature	°C	-30 to 0
Voltage	V DC	10 - 45

Performance data (EN12900/CECOMAF • 12V DC • 3,500 rpm • static cooling)					
Evaporating temperature	°C	-25	-5	-25	-5
Cooling capacity	watt	35.9	122	36.0	106
Power consumption	watt	42.8	78.5	42.7	69.7
Current consumption	A	3.60	6.50	3.56	5.81
COP	W/W	0.84	1.55	0.84	1.52

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

