

# BD COMPRESSORS TAILORED FOR LEISURE APPLICATIONS

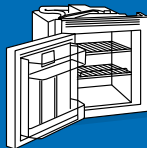
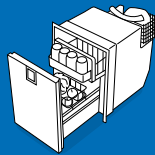
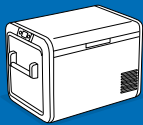
**SECCP**



**BD35F.2/BD35K.2**



Mobile  
Applications



Variable-Speed  
Efficiency



LBP and MBP  
Applications



Effective  
Solutions



Low GWP  
Refrigerants



Energy  
Saving

- The BD35F.2 and BD35K.2 compressors are new versions of the BD-P platform, featuring a new motor and new controllers specifically designed for leisure applications
- The second generation of BD35F/K compressors offers a cost-efficient, reliable, and convenient solution
- Ideal solution for use in recreational vehicles (RV), boats, portable refrigeration units
- The compressors' controllers feature internal voltage detection and are calibrated to the applied voltage
- The compressors' controllers provide protection against overload and destructive battery discharge
- High efficiency, low energy consumption
- Universal for 12 and 24 V DC power supply

Secop **BD-P** compressors deliver outstanding performance with minimal power consumption, exceptionally quiet operation, and reliable functionality – even when tilted up to 30°. They ensure trouble-free operation at 12 or 24 V and reflect more than 40 years of experience in mobile refrigeration.

Modern comfort extends beyond the home, accompanying people wherever they go. As mobility increases, so does the need for safe food storage. The excellent performance of the BD series ensures optimal food preservation on the move.

Specially designed for maximum efficiency and reliability, Secop's second generation BD-P compressors make it easy to deliver best-in-class mobile refrigeration. Developed to meet the evolving demands for more manageable and space-efficient components, a hallmark of modern design.

Equally important is the optimized, low-noise motor, which ensures outstanding performance and adds an extra degree of mobile luxury. In short, these compressors are engineered to provide cool, cost-efficient convenience for every holiday, picnic, or travel situation.

General	BD35F.2 (R134 • R1234yf)	BD35K.2 (R600a)
Compressor	101Z0700	101Z0711
Electronic unit - Solar	101N0226	101N0226

Application			
Application		LBP/MBP	LBP/MBP
Evaporating temperature	°C	-30 to 0	-30 to 0
Voltage range	V DC	12–24	12–24
Speed range	rpm	2000–3500	2000–3500

Performance Data ASHRAE LBP   MBP		3,500 rpm • static cooling		3,500 rpm • static cooling	
Evaporating temperature	°C	-23.3	-6.7	-23.3	-6.7
Cooling capacity	W	50.5	125	49.1	108
Power consumption	W	45.8	75.3	45.5	67.6
COP	W/W	1.10	1.66	1.08	1.60
Test conditions LBP	Voltage: 12 V DC, Condensing temp.: 54.4 °C   Suction gas temp.: 32.2 °C   Ambient temp.: 32.2 °C   Liquid temp.: 32.2 °C Performance data measured with R134a (R1234yf values for BD35F.2 are similar)				
Test conditions MBP	Voltage: 12 V DC, Condensing temp.: 54.4 °C   Suction gas temp.: 35 °C   Ambient temp.: 32.2 °C   Liquid temp.: 46.1 °C Performance data measured with R134a (R1234yf values for BD35F.2 are similar)				

Performance Data EN 12900/CECOMAF		3,500 rpm • static cooling		3,500 rpm • static cooling	
Evaporating temperature	°C	-25	-5	-25	-5
Cooling capacity	W	35.9	122	36.0	106
Power consumption	W	43.2	79.0	43.1	70.3
COP	W/W	0.83	1.55	0.83	1.51
Test conditions	Voltage: 12 V DC, Condensing temp.: 55 °C   Suction gas temp.: 32 °C   Ambient temp.: 32 °C   Liquid temp.: no subcooling Performance data measured with R134a (R1234yf values for BD35F.2 are similar)				

Dimensions				
Height	mm	A	137	
		B	135	
		B1	128	
		B2	73	
Suction connector	location/I.D. mm   angle material   seal	C	6.2   40° Cu-plated steel   Al cap	
Process connector	location/I.D. mm   angle material   seal	D	6.2   45° Cu-plated steel   Al cap	
Discharge connector	location/I.D. mm   angle material   seal	E	5.0   21° Cu-plated steel   Al cap	
Connector tolerance	I.D. mm		±0.09, on 5.0 +0.12/+0.20	

