WE HAVE MORE THAN 35 YEARS OF EXPERIENCE, DEVELOPING DIRECT CURRENT COMPRESSORS AND HELPING CUSTOMERS BENEFIT FROM THE OPPORTUNITIES OF MOBILE REFRIGERATION TECHNOLOGY.

WITH A DEEP INSIGHT OF THE USAGE ACROSS VARIOUS APPLICATIONS WE HAVE EARNED A POSITION AS MARKET LEADER, WORKING WITH OEM-CUSTOMERS.

YEARS 1956-2016

BD COMPRESSORS FOR EXTREME CONDITIONS

DIRECT CURRENT COMPRESSORS
APPLICATION ALSO WITH MULTIPLE VOLTAGES WITH
MINIMUM ENERGY CONSUMPTION AND MAXIMUM
PERFORMANCE.

STABLE
PORTABLE BEYOND LIMITS
RELIABLE OPERATION EVEN
WHEN TILTED UP.

BOX.A.

BOX.B.

BOX.A.

BOX.B.

BOX.A.

BOX.B.

BOX.A.

BOX.B.

BOX.A.

BOX.B.

BOX.A.

BOX.B.

BO

www.secop.com SETTING THE STANDARD





BD compressors bring comfort at work and leisure

Modern comfort is brought into life when leaving home. As people go mobile, so does food. The excellent performance of the BD series safeguards food preservation. With our outstanding DC compressors for cars, vans, boats, trucks, etc., Secop has transcended the barriers for mobile refrigeration.

The direct current compressors BD35F/50F/80F for 12/24 V DC power supply can be used in mobile refrigerators and freezers with refrigerant R134a. The BD250GH.2 and the BD350GH compressors in 12/24 or 48 V DC versions are R134a HBP compressors used for mobile spot cooling systems or telecommunication cooling. BD35K (R600a) and BD80/100CN (R290) compressors can be used with HFC-free refrigerants. All compressors are equipped with an electronic unit with built-in protection against shortages, operation outside temperature limits and destructive battery discharge. The advanced micro controller technology enables new functions like: electronic thermostat, fan speed, ECO function and software main switch.

Second to none – even cooling without power supply

Thanks to an extensive voltage rate the BD compressors are ideal for solar energy supply. The exceptionally low starting current eliminates the need for current batteries if an ice bank is used for energy storage. When storing the sun energy in ice packs the cabinet can be kept at desired temperatures both night and day.

This feature opens for numerous uses in areas without power supply like storage and transportation of drugs, ice cream stands in holiday resorts, food preservation under off road conditions, refrigerators in boats to name only a few.

Secop BD compressors mean: extraordinary performance at minimum power consumption, superbly silent running, reliable operation even when tilted up to 30 degrees, problem-free operation at 12/24/48 volts and more than 30 years' of experience in mobile refrigeration. Transport stable, speed/capacity stable, multifunctional electronic, silent, high COP and compact design.

Compressors R134a R404A/R507 * R600a **, R290 ***		Capacity [W] at max. speed **** EN12900 Household/CECOMAF ASHRAE Evaporating temperature [°C]														
	-40	-35	-30	-25	-23.3	-20	-15	-10	-5	0	5	7.2	10	15		
BD35F /-B /-HD			27 34	36 45	40 51	50 63	70 87	94 117	122 153							
BD50F			37 46	52 64	58 72	71 88	95 117	123 152	157 194							
BD80F			55 68	78 96	87 108	105 130	138 170	176 218	221 274							
BD250GH.2				61 76	69 86	87 108	119 148	156 194	200 249	251 311	308 383	336 418	373 465	446 556		
BD250GH.2 (48V)				64 80	73 91	91 113	124 153	162 201	208 257	261 323	322 400	352 437	392 488	472 589		
BD350GH (12V)				126 156	139 173	169 209	220 273	282 349	355 440	440 546	540 670	588 731	654 814	786 979		
BD350GH (24V)				126 156	139 173	169 209	220 273	282 349	355 440	440 546	540 670	588 731	654 814	786 979		
BD350GH (48V)				121 150	135 167	164 203	216 267	277 343	350 434	436 540	535 664	584 725	650 808	781 973		
BD350GH Twin (12V)				251 312	279 346	337 418	440 546	564 698	710 880	880 1092	1080 1340	1176 1462	1308 1628	1572 1958		
BD350GH Twin (24V)				252 312	278 346	338 418	440 546	564 698	710 880	880 1092	1080 1340	1176 1462	1308 1628	1572 1958		
BD220CL *	83 96	121 140	166 193	220 255	240 279	283 328	355 413	439 511	535 624							
BD35K **			25 31	36 44	40 49	49 60	65 79	84 102	106 129							
BD80CN ***	31 35	45 51	62 69	82 91	90 100	105 118	133 148	164 184								
BD100CN ***	44 49	62 70	83 93	108 120	117 131	137 153	170 190	209 233								
BD1.4F-VSD /-HD			12 15	23 29	27 34	36 45	52 65	71 88	92 114	116 144	144 179	158 197	178 222	218 272		
BD1.4F-FSD			5 6	13 17	16 21	23 29	35 44	49 62	66 82	85 106						
BD1.4F-AUT0				14 18	18 22	24 31	36 45	50 62	66 83	86 106	108 134					

Compressors		Power consumption [W] at max. speed ****														
R134a R404A/R507 *	Code numbers	Evaporating temperature [°C]														
R600a **, R290 ***		-40	-35	-30	-25	-23.3	-20	-15	-10	-5	0	5	7.2	10	15	
BD35F /-B /-HD	101Z0200 /0204 /0205 /0206			35	41	44	49	57	66	75						
BD50F	101Z1220 /0203			45	57	61	68	80	91	104						
BD80F	101Z0280			66	83	89	100	118	138	161						
BD250GH.2	101Z0406				65	69	78	91	104	117	132	150	158	170	194	
BD250GH.2 (48V)	101Z0405				72	77	85	99	113	128	143	160	167	177	196	
BD350GH (12V)	102Z3015				140	149	168	197	228	259	292	325	340	358	391	
BD350GH (24V)	102Z3016				122	129	144	169	194	221	248	276	288	303	330	
BD350GH (48V)	102Z3031				131	139	155	181	208	236	265	294	307	323	352	
BD350GH Twin (12V)	102Z3018				280	298	336	394	456	518	584	650	680	716	782	
BD350GH Twin (24V)	102Z3017				244	258	288	338	388	442	496	552	576	606	660	
BD220CL *	102Z3020	121	147	173	200	209	227	255	284	314						
BD35K **	101Z0211			34	41	44	48	54	60	67						
BD80CN ***	101Z0403	47	55	63	72	75	81	89	97							
BD100CN ***	101Z0401	55	66	78	89	93	100	110	120							
BD1.4F-VSD /-HD	109Z0200 /0202 /0250 /0251			27	34	36	41	48	55	61	68	76	79	83	90	
BD1.4F-FSD	109Z0305			16	23	25	29	35	40	44	49					
BD1.4F-AUTO	109Z0102				26	28	30	35	40	45	50	56				



BD1.4F-VSD (Variable Speed Drive)

Lose excess weight and use the extra space for what really matters. The new BD1.4F-VSD from Secop is 60% smaller than previous models and weighs in at only 2.3 kilos. Perfect for 10-30 litre in car/ van/boat cabinets or portable boxes that need to fit into tight spaces without compromising storage space. Specially designed for maximum efficiency and reliability this powerhouse of a compressor makes it easier than ever to provide leading class mobile fridges. Enabling the variable speed function increases the system's COP. Low energy consumption is good for car/ boat/ van batteries - as well as the environment. The optimized, low noise motor ensures outstanding performance when you want to provide that extra degree of luxury on the move. The electronic thermostat (NTC sensor support) provides an accurate temperature while the failure detection allows a fast fault diagnosis. The computer interface makes it easier for customization. Cool beverages on demand make moving so much more of an experience.

BD35F-HD & BD1.4F-VSD-HD (Heavy Duty)

BD35F-HD and BD1.4F-VSD-HD are new versions which can handle extreme vibrations.

BD35F-B (Bus-optimized)

The BD35F-B is a special version optimized for rough vehicle motions, especially in buses.

BD1.4F-FSD (Fixed Speed Drive)

The new BD1.4F-FSD is a cost-optimized variant of our BD-Micro series which is perfect for portable haves





















	Code numbers	Electronic units (voltages & code numbers)														
Compressors R134a R404A/R507 * R600a ** R290 ***		Standard 12-24V DC 101N0212	High Speed 12-24V DC 101N0390	AEO 12-24V DC 101N0340	Solar 10-45V DC 101N0420	AC/DC converter 12-24V DC & 100 -240V AC 101N0510	Automotive 12-24V DC 101N0650	101N08xxx 12V DC 101N0820+0800 (alt.: 101N0830)	101N8xxx 24V DC 101N0820+0810	101N07xx 24V DC 101N0715	Telecom 48V DC 101N0720	Telecom 48V DC 101N0732				
BD35F	101Z0200	✓		✓	1	✓	✓									
BD35F (inch con.)	101Z0204	✓		✓	1	/	✓									
BD35F-B	101Z0205	✓		✓		1	✓									
BD35F-HD	101Z0206	✓		✓			✓									
BD50F	101Z1220	✓		✓		✓	✓									
BD50F (inch con.)	101Z0203	✓		✓		✓	✓									
BD80F	101Z0280		1													
BD250GH.2	101Z0406		✓													
BD250GH.2 (48V)	101Z0405											1				
BD350GH (12V)	102Z3015							V+V								
BD350GH (24V)	102Z3016								√+√	✓						
BD350GH (48V)	102Z3031										/					
BD350GH Twin (12V)	102Z3018							V+VV								
BD350GH Twin (24V)	102Z3017								/+//	//						
BD220CL *	102Z3020							V+V								
BD35K **	101Z0211	✓		1	1		1									
BD80CN ***	101Z0403	✓		1			1									
BD100CN ***	101Z0401		1													
TOOL4COOL® applica	able	/					✓	1		/	1	/				

		Electronic units (voltages & code numbers											
Compressors R134a	Code numbers	Variable Speed (VSD) 12-24V DC 101N2100	Fixed Speed (FSD) 12-24V DC 101N2600	VSD w. AC/DC converter 12-24V DC & 100 -240V AC 101N5100	FSD w. AC/DC converter 12-24V DC & 100 -240V AC 101N5200	Automotive 12V DC 101N1010							
BD1.4F-AUTO	109Z0102					1							
BD1.4F-FSD	109Z0305		1		1								
BD1.4F-VSD	109Z0200	1		1									
BD1.4F-VSD-HD	109Z0250	1											
BD1.4F-VSD (inch connectors)	109Z0202	1		>									
BD1.4F-VSD-HD (inch connectors)	109Z0251	1											
T00L4C00L® ap	1	1	1	1	1								

Applications		Compressors														
		BD1.4F-VSD	BD1.4F-VSD-HD	BD1.4F-FSD	BD35F	BD35F-B	BD35F-HD	BD35K	BD50F	BD80F	BD80CN	BD100CN	BD250GH.2	врз506Н	BD220CL	
Truck refrigerators		/	1		/		1	/	1		1					
Boat refrigerators		1			1			1	1	1	1	1				
Bus refrigerators		1			1	1		1			1					
Portable boxes		/		1	/			/	/	1						
Car minbars (high end)	1	\			\			>								
Car minibars (SUV, MPV)		/			/			\								
Spot cooling (e.g. trucks)													1	1		
Van boxes									1	1	1	1	1	1	1	
Battery cooling													1	/		
Solar cabinets					1			1	1		1	1				



BD80/100CN

R290, -40°C, -10°C evap. temp. Stationary freezer application (not approved for vehicles), solar-powered systems, ice cream boxes up to 200 l, 20-164 W / 31-209 W cooling capacity*.



BD35K

R600a, -30°C, +10°C evap. temp. Stationary application, solar-powered vaccine coolers etc., 100-200 l coolers, 13-128 W cooling capacity*.



BD1.4F-AUTO and BD1.4F-VSD/-FSD

R134a, -30°C, +5 and +15 / 0°C evap. temp. In-car cabinets and all mobile applications for portable boxes, boats, trucks etc., 14-108 W and 7-218 W / 5-85 W cooling capacity*.



BD350GH Single or Twin

Configuration R134a, -25°C, +15°C evap. temp. Tailored for spotcooling systems in sleeping compartments in trucks, caravans, golf buggies etc., 85-786 W single cooling capacity*.



BD250GH.2

R134a, -25°C, +15°C evap. temp. Designed for cabin cooling in trucks during nighttime, very silent operation, 31-446 W cooling capacity*.



BD35F/50F Multivoltage

R134a, -30°C, +10°C evap. temp. All mobile applications for portable boxes, boats, trucks etc., can be powered with AC and DC, 85-240 V AC 50/60 Hz, 12-24 V DC, automatic selection of AC when available, 15-152 / 20-191 W cooling capacity*.



BD35F/50F/80F Basic

R134a, -30°C, +10°C evap. temp. All mobile applications for portable boxes, boats, trucks etc., 15-152 W / 20-191 W / 35-221 W cooling capacity*.



T00L4C00L® Software

Tool4Cool® is a unique PC software tool that enables you to precisely configure your Secop BD compressors to your cooling systems.

Via microprocessor-based controllers, Tool4Cool® gives you easy access to all parameters. These can be changed, monitored, downloaded or uploaded to get the optimum performance out of your cooling system.

OUR JOURNEY



* CECOMAF conditions

1970

1990

1992

1999

2005

2008

2013

ction of the XV compressor geration nistory. p acquires ACC Fürstenfeld,

1958

1972

1977 Introduction TL and BD compressors 1993

2002

oduction facility in Zlate

2010

Introduction SLV-CNK.2 and SLV-CLK.2 variable

2015

New generation of energy-efficient propane compressors. New variable speed platforms for household and light commercial applications.



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