



Rethink mobile refrigeration

Take control of your cold chain

BD50F/BD80F/BD350GH/BD220CL for 12 V DC van boxes

30%

savings possible

by building a flexible, battery driven refrigeration system that follows food to the end of the cold chain.





BD50F/BD80F/BD350GH/BD220CL – mobile efficiency

The most economical and efficient solution for small-scale transport is to use a mobile refrigeration unit that easily fits into cars and vans, and is powered by the car's own battery.

The advantages of such a solution are clear:

It is no longer necessary to alter the vehicle. Cabinets can also be moved from vehicle to vehicle and even run on 220 V AC with the help of an inverter when the engine is turned off. In addition the systems are more energy efficient and can be custom built to a wide range of sizes – depending on storage requirements.

Finally, an expensive, impractical, specially adapted refrigerated van is no longer the only option on the market. In recent years, mobile cooling solutions have become increasingly competitive – and the latest solutions are far more economical, practical and efficient.



Technical data

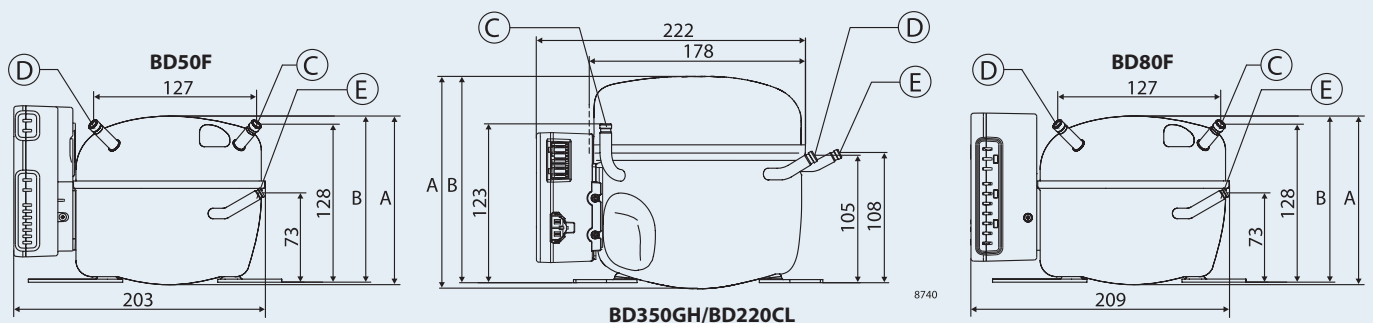
General	BD50F (R134a)	BD80F (R134a)	BD350GH (R134a)	BD220CL (R404A/R507)
Compressor (without electronic unit)	101Z1220	101Z0280	102Z3015	102Z3020
Electronic unit	101N0500	101N0290	101N0800 + 101N0820	101N0800 + 101N0820

Application					
Application	LBP/MBP/HBP		LBP	LBP/MBP/HBP	LBP
Evaporating temperature °C	-30 to -5 (0)		-30 to -5	-25 to 15	-45 to -5
Voltage range	12-24 V DC & 100-240 V AC, 50/60 Hz		12-24 V DC (31.5 V max.)	9.6 - 17.0 V DC	9.6 - 17.0 V DC

Performance data (EN12900/CECOMAF, 12V DC)	3,500 rpm • static cooling				4,400 rpm • static cooling				4,000 rpm • fan cooling				4,000 rpm • fan cooling				
Evaporating temperature °C	-30	-20	-10	-5	-30	-20	-10	-5	-25	-20	-10	0	-45	-30	-20	-5	
Cooling capacity watt	37	71	123	157	55	105	176	221	126	169	282	440	51	166	283	535	
Power consumption watt	47	71	95	108	69	105	144	168	140	168	228	292	95	173	227	314	
Current consumption A	4.0	5.8	7.9	9.0	5.8	8.7	12.0	14.0	11.7	13.9	18.9	24.3	7.9	14.5	19.0	26.3	
COP	W/W	0.78	1.01	1.30	1.45	0.79	1.01	1.22	1.32	0.90	1.01	1.24	1.51	0.53	0.96	1.24	1.70

Performance data (ASHRAE, 12V DC)	3,500 rpm • static cooling				4,400 rpm • static cooling				4,000 rpm • fan cooling				4,000 rpm • fan cooling				
Evaporating temperature °F	-22	-10	14	20	-22	-10	14	20	-10	-4	20	32	-49	-22	-10	20	
Cooling capacity BTU/h	154	245	520	612	232	366	744	869	588	712	1391	1862	198	654	944	1980	
Power consumption watt	46.9	62.6	94.3	103	69.4	92.9	143	159	149	167	247	290	94.9	173	209	304	
Current consumption A	3.91	5.22	7.86	8.58	5.78	7.74	11.94	13.22	12.38	13.91	20.61	24.18	7.91	14.45	17.42	25.34	
EER	BTU/Wh	3.28	3.91	5.51	5.95	3.35	3.94	5.19	5.48	3.95	4.27	5.62	6.42	2.09	3.77	4.51	6.51

Dimensions						
Height	mm	A	137	137	173	173
		B	135	135	169	169
Suction connector	location/l.D. mm angle	C	6.2 41.5°	6.2 41.5°	6.2 90°	6.2 90°
	material seal		Cu-plated steel Al cap	Cu-plated steel Al cap	Cu-plated steel Al cap	Cu-plated steel Al cap
Process connector	location/l.D. mm angle	D	6.2 45°	6.2 45°	6.2 31.5°	6.2 31.5°
	material seal		Cu-plated steel Al cap	Cu-plated steel Al cap	Cu-plated steel Al cap	Cu-plated steel Al cap
Discharge connector	location/l.D. mm angle	E	5.0 21°	5.0 21°	5.0 28°	5.0 28°
	material seal		Cu-plated steel Al cap	Cu-plated steel Al cap	Cu-plated steel Al cap	Cu-plated steel Al cap
Connector tolerance	I.D. mm	±0.09, on 5.0 +0.12/+0.20				



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