

WE HAVE MORE THAN 40 YEARS OF EXPERIENCE DEVELOPING DIRECT CURRENT COMPRESSORS AND HELPING CUSTOMERS BENEFIT FROM THE OPPORTUNITIES OF MOBILE REFRIGERATION TECHNOLOGY.

WITH IN-DEPTH KNOWLEDGE OF USE ACROSS VARIOUS APPLICATIONS, WE HAVE EARNED A POSITION AS MARKET LEADER, WORKING WITH OEM CUSTOMERS.



TELECOM COOLING (300-1000 W) INCREASE BATTERY LIFETIME

BD250GH.2 | BD350GH | 48 V DC



14

MONTHS PAYBACK TIME
POSSIBLE BY INCREASING BATTERY LIFETIME BY 25%, REDUCING SYSTEM COMPLEXITY AND ENSURING HIGH COP WITH ENERGY SAVING DESIGN

250W

SAVED EVERY HOUR
EXTEND THE LIFE OF YOUR BATTERIES AND ENSURE MAXIMUM UPTIME IN TELECOMMUNICATION COOLING APPLICATIONS WITH OPTIMISED BATTERY DRIVEN 48 V DC COMPRESSORS





BD250GH.2/BD350GH: PURE BATTERY DRIVEN EFFICIENCY

When power fails, battery cooling systems must draw on the batteries' power. As the compressor is the main power consumer, much can be gained with a solution that is extremely efficient without being overly power hungry.

By using a battery powered direct current (DC) compressor, it is possible to build a cooling system that can run on batteries, solar cells and wind turbines without needing to convert to alternating current (AC). The BD250GH.2 and BD350GH compressors are unique in that they are constructed with integrated fan control and an electronic thermostat. In this way, it is possible to simplify the design of the overall system and still ensure maximum performance.

With battery drain being a big issue, it is important to use an energy-efficient compressor with the highest COP/EER possible. Compared to other solutions that rely on AC and 230 V AC conversion, the BD250GH.2 and BD350GH compressors save up to 250 W per hour.

In areas that rely on battery power for up to 16 hours per day, you can be certain that BD250GH.2 and BD350GH compressors will ensure that batteries will last as long as possible.

The optimal temperature for batteries is 25°C. Anything above this will shorten their life expectancy and provide their owners with an inconvenient replacement cost.

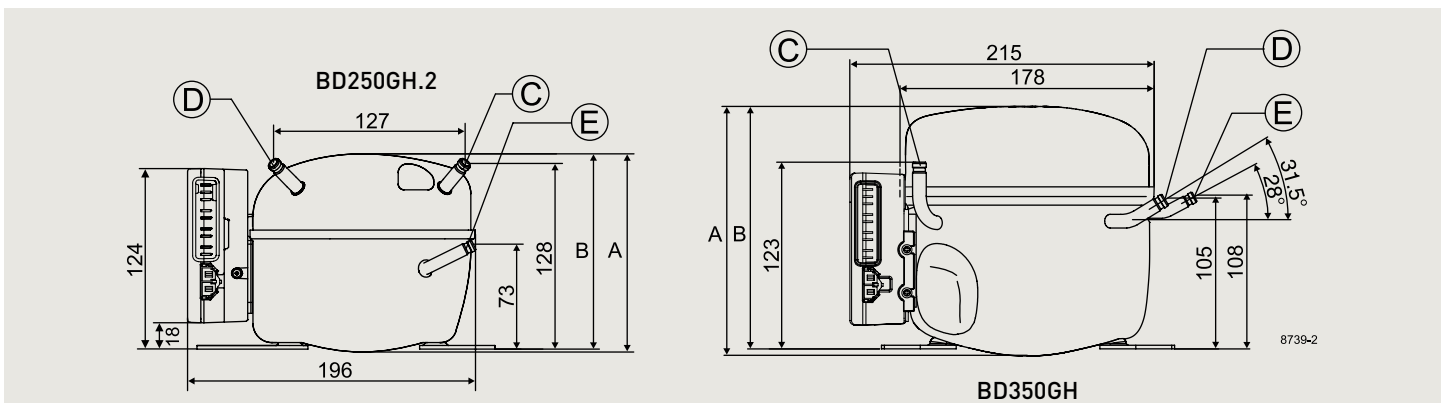
General (code numbers)	BD250GH.2	BD350GH
Compressor (without electronic unit)	101Z0405	102Z3031
Electronic unit	101N0732	101N0720

Application		
Application		LBP/MBP/HBP
Evaporating temperature	°C	-25 to 15
Voltage/max. voltage	V DC	48/60

Performance data EN12900/CECOMAF (BD250GH.2: 53 V DC • BD350GH: 56 V DC • max. speed)									
Evaporating temperature	°C	-25	0	5	15	-25	0	5	15
Cooling capacity	W	64.3	261	322	472	121	436	535	781
Power consumption	W	72.4	143	160	196	131	265	294	352
Current consumption	A	1.36	2.86	3.17	3.76	2.34	4.73	5.25	6.28
COP	W/W	0.89	1.82	2.01	2.41	0.92	1.64	1.82	2.22

Performance data ASHRAE LBP (BD250GH.2: 53 V DC • BD350GH: 56 V DC • max. speed)									
Evaporating temperature	°F	-13	32	41	59	-13	32	41	59
Cooling capacity	BTU/h	273	1103	1364	2008	511	1842	2265	3317
Power consumption	W	72	143	159	195	131	263	292	349
Current consumption	A	1.37	2.86	3.16	3.75	2.33	4.70	5.21	6.23
EER	BTU/Wh	3.77	7.73	8.57	10.28	3.91	7.00	7.76	9.51

Dimensions				
Height	mm	A	137	173
		B	135	169
Suction connector	location/l.D. mm angle	C	6.2 40°	6.2 90°
	material seal		Cu-plated steel Al cap	Cu-plated steel Al cap
Process connector	location/l.D. mm angle	D	6.2 45°	6.2 31.5°
	material seal		Cu-plated steel Al cap	Cu-plated steel Al cap
Discharge connector	location/l.D. mm angle	E	5.0 21°	5.0 28°
	material seal		Cu-plated steel Al cap	Cu-plated steel Al cap
Connector tolerance	I.D. mm		±0.09, on 5.0 +0.12/+0.20	



Secop GmbH · Mads-Clausen-Str. 7 · 24939 Flensburg · Germany · Tel: +49 461 4941 0 · www.secop.com

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