

ENGINEERING
TOMORROW

Danfoss

Service comes in many degrees
Batteries only need 25°C. **Reduce
running costs in telecom cooling**

BD250GH.2/BD350GH with 48 V DC for telecommunication cooling

250 W
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 need to 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 conversion to alternating current (AC). The BD250GH.2 and BD350GH compressors are unique as they are constructed with integrated fan control and electronic thermostat. 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 as high a COP as 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 a day, you can be certain that Danfoss BD 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.



Technical data

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

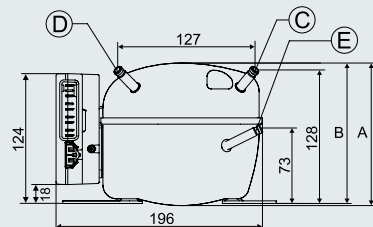
Application	
Application	LBP/MBP/HBP
Evaporating temperature °C	-25 to 15
Voltage/max. voltage V DC	48/60

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 watt	64.3	261	322	472	121	436	535	781
Power consumption watt	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

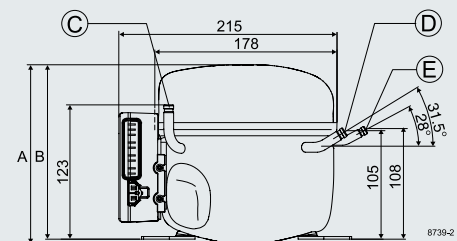
Performance data (ASHRAE LBP - BD250GH.2: 53 V DC • BD350GH: 56 V DC • max. speed)								
Evaporating temperature °F	-13	32	41	59	-13	32	41	59
Cooling capacity BTU/h	273	1103	1364	2008	511	1842	2265	3317
Power consumption watt	72	143	159	195	131	263	292	349
Current consumption A	1.37	2.86	3.16	3.75	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
		B	135
Suction connector	location/I.D. mm angle	C	6.2 40°
	material seal		Cu-plated steel Al cap
Process connector	location/I.D. mm angle	D	6.2 45°
	material seal		Cu-plated steel Al cap
Discharge connector	location/I.D. mm angle	E	5.0 21°
	material seal		Cu-plated steel Al cap
Connector tolerance	I.D. mm		±0.09, on 5.0 +0.12/+0.20

BD250GH.2



BD350GH



For more information, please contact your local sales office or send an email to askcc@danfoss.com

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