

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 |

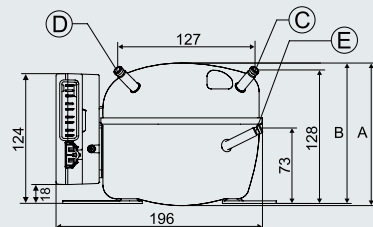
| Application                |             |
|----------------------------|-------------|
| Application                | LBP/MBP/HBP |
| Evaporating temperature °C | -25 to 15   |
| Voltage/max. voltage V DC  | 48/60       |

| 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 |

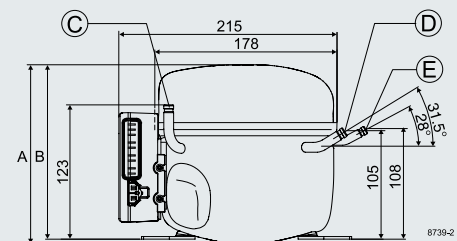
| Performance data (ASHRAE LBP - BD250GH.2: 53 V DC • BD350GH: 56 V DC • max. speed) |      |      |      |       |      |      |      |      |
|--|------|------|------|-------|------|------|------|------|
| Evaporating temperature °F   | -13  | 32   | 41   | 59    | -13  | 32   | 41   | 59   |
| Cooling 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](mailto:askcc@danfoss.com)

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed materials. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without consequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.