



## LBN 900x/00 Driver Units



- ▶ **High efficiency**
- ▶ **15 W, 30 W and 50 W versions**
- ▶ **1 3/8" screw thread**
- ▶ **Simple power setting**
- ▶ **Complies with international installation and safety regulations**

The Bosch professional horn loudspeaker system comprises a range of three high-efficiency driver units that can be installed into one of the compatible circular and rectangular horns (supplied separately without drivers).

A standard 1 3/8" screw thread is used for mounting the drivers into horns. All models are treated against corrosion.

### System Overview

The LBN 9000/00 is a 15 W driver unit and the LBN 9001/00 is a 30 W driver unit. Connections to 100 V lines are made using push-on spade terminals.

The LBN 9003/00 is a more powerful 50 W model. Connections to 100 V lines are made using screw terminals.

### Functions

All driver units include a matching transformer to allow power tapping. See circuit diagram overleaf. This feature also allows impedance matching for different amplifier types.

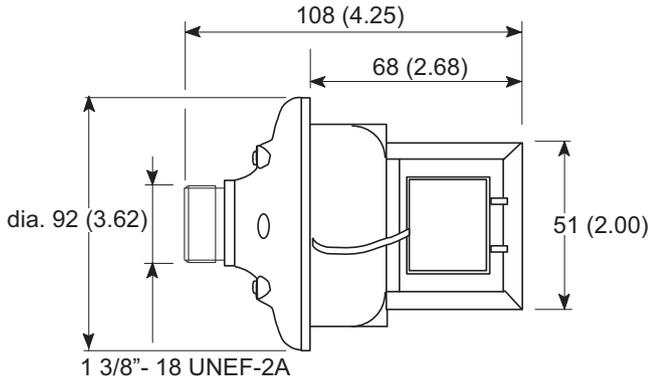
A range of horns is available for these driver units to allow tailor-made solutions for a variety of sound reinforcement applications. Three circular types (LBC 3403, LBC 3404 and LBC 3405 with diameters of 255, 380 and 510 mm respectively) and one rectangular type (LBC 3406, measuring 380 x 235 mm) are available. They are made from flame-retardant, high-impact plastic for high strength and low weight, and are finished in light grey. A sturdy steel mounted bracket is also supplied. See separate datasheet.

### Certifications and Approvals

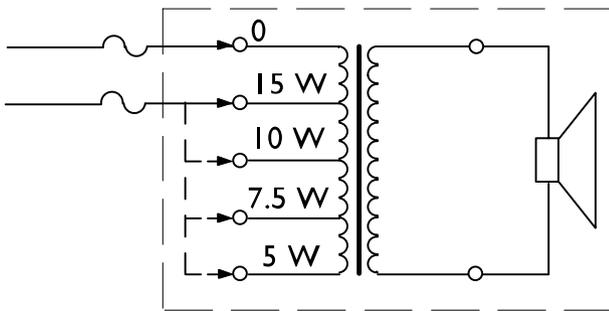
All Bosch loudspeakers are designed to withstand operating at their rated power for 100 hours in accordance with IEC 268-5 Power Handling Capacity (PHC) standards. Bosch has also developed the Simulated Acoustical Feedback Exposure (SAFE) test to demonstrate that they can withstand two times their rated power for short durations. This ensures extra reliability under extreme conditions, leading to higher customer satisfaction, longer operating life, and much less chance of failure or performance deterioration.

**Installation/Configuration Notes**

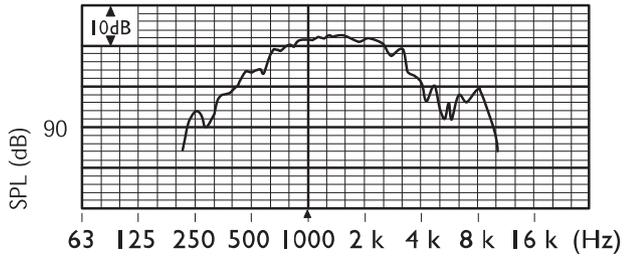
**LBN 9000/00**



Dimensions in mm (in)

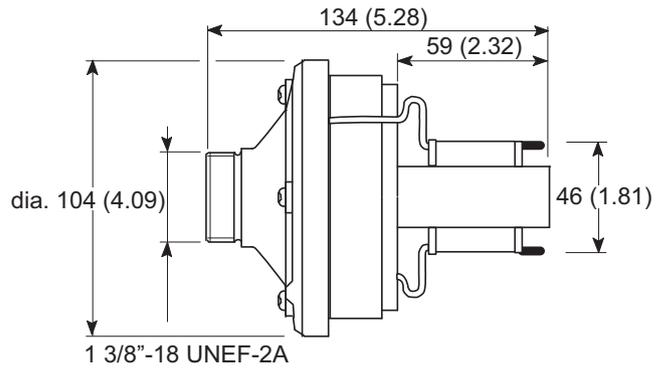


Circuit diagram

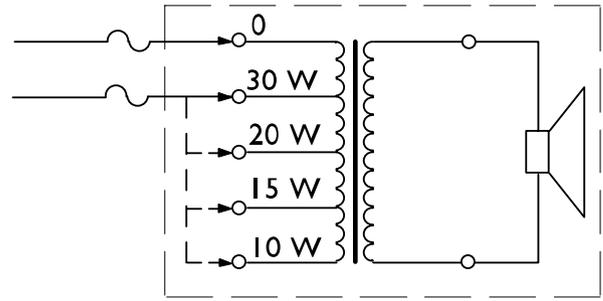


Frequency response

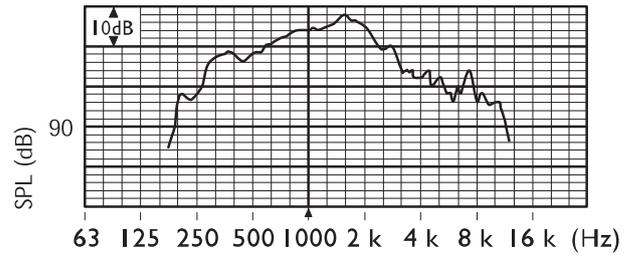
**LBN 9001/00**



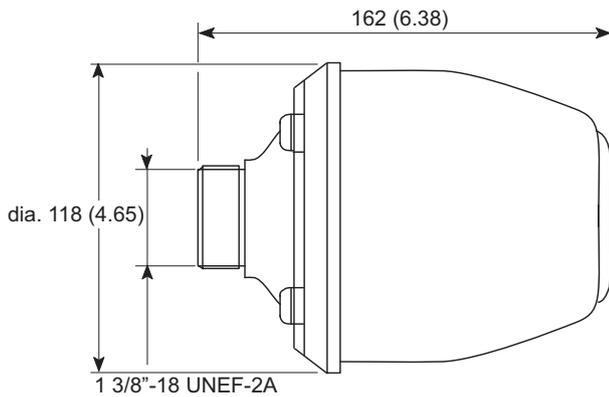
Dimensions in mm (in)



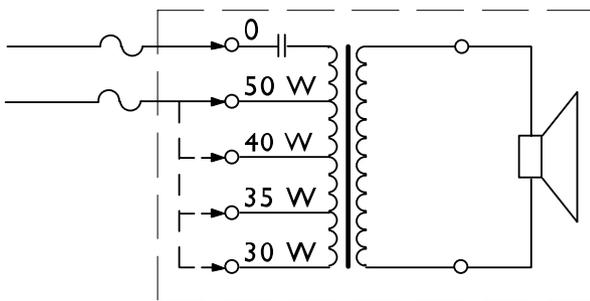
Circuit diagram



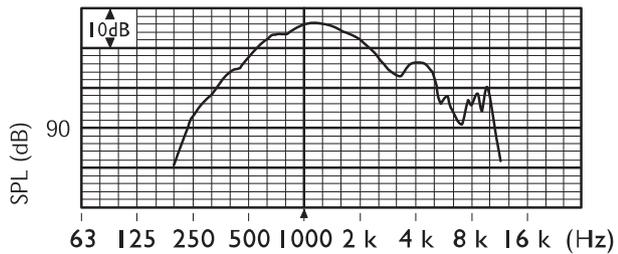
Frequency response

**LBN 9003/00**

Dimensions in mm (in)



Circuit diagram



Frequency response

**Ordering Information**

|  |                   |
|--|-------------------|
| <b>LBN 9000/00 Driver Unit, 15 W</b><br>100 V, 22.5 / 15 W max / rated power (PHC) | <b>LBN9000/00</b> |
|--|-------------------|

|  |                   |
|--|-------------------|
| <b>LBN 9001/00 Driver Unit, 30 W</b><br>100 V, 45 / 30 W max / rated power (PHC) | <b>LBN9001/00</b> |
|--|-------------------|

|  |                   |
|--|-------------------|
| <b>LBN 9003/00 Driver Unit, 50 W</b><br>100 V, 75 / 50 W max / rated power (PHC) | <b>LBN9003/00</b> |
|--|-------------------|

**Accessories**

|   |                   |
|---|-------------------|
| <b>LBC 3403/16 Horn, Circular, 10" without Driver</b><br>diameter = 255 mm (10.04 in) | <b>LBC3403/16</b> |
|---|-------------------|

|   |                   |
|---|-------------------|
| <b>LBC 3404/16 Horn, Circular, 15" without Driver</b><br>diameter = 380 mm (14.96 in) | <b>LBC3404/16</b> |
|---|-------------------|

|   |                   |
|---|-------------------|
| <b>LBC 3405/16 Horn, Circular, 20" without Driver</b><br>diameter = 510 mm (20.08 in) | <b>LBC3405/16</b> |
|---|-------------------|

|   |                   |
|---|-------------------|
| <b>LBC 3406/16 Horn, Rectangular, 9 x 15" without Driver</b><br>diameter = 235 x 390 mm (9.25 x 15.35 in) | <b>LBC3406/16</b> |
|---|-------------------|

## LBN 900x/00 Driver Units



LBN9000/00



LBN9001/00



LBN9003/00

## Electrical

|  |                     |                     |                     |
|--|---------------------|---------------------|---------------------|
| <b>Max. power</b>  | 22.5 W              | 45 W                | 75 W                |
| <b>Rated power (PHC)</b>                                       | 15 / 10 / 7.5 / 5 W | 30 / 20 / 15 / 10 W | 50 / 40 / 35 / 30 W |
| <b>Sound pressure level at rated power / 1 W (1 kHz, 1 m)*</b> | 125 / 113 dB (SPL)  | 129 / 114 dB (SPL)  | 131 / 114 dB (SPL)  |
| <b>Effective frequency range (-10 dB)*</b>                     | 400 Hz to 9 kHz     | 300 Hz to 8 kHz     | 400 Hz to 5 kHz     |
| <b>Rated voltage</b>   | 100 V               | 100 V               | 100 V               |
| <b>Rated impedance</b>   | 670 ohm             | 330 ohm             | 200 ohm             |
| <b>Voice coil impedance</b>                                    | 8 ohm               | 16 ohm              | 16 ohm              |

## Mechanical

|                              |  |  |  |
|------------------------------|--|--|--|
| <b>Dimensions (L x Dmax)</b> | 108 x 92 mm<br>(4.25 x 3.62 in)              | 134 x 104 mm<br>(5.28 x 4.09 in)             | 162 x 118 mm<br>(6.38 x 4.65 in)             |
| <b>Weight (without horn)</b> | 1.3 kg (2.9 lb)                              | 2.1 kg (4.6 lb)                              | 3.2 kg (7.0 lb)                              |
| <b>Screw thread</b>          | exterior thread, 1 3/8"<br>18 turns per inch | exterior thread, 1 3/8"<br>18 turns per inch | exterior thread, 1 3/8"<br>18 turns per inch |

## Environmental

|                              |                                      |                                      |                                      |
|------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| <b>Operating temperature</b> | -25 to +55 °C<br>(-13 °F to +131 °F) | -25 to +55 °C<br>(-13 °F to +131 °F) | -25 to +55 °C<br>(-13 °F to +131 °F) |
| <b>Storage temperature</b>   | -40 to +70 °C<br>(-40 °F to +158 °F) | -40 to +70 °C<br>(-40 °F to +158 °F) | -40 to +70 °C<br>(-40 °F to +158 °F) |
| <b>Relative humidity</b>     | <95%                                 | <95%                                 | <95%                                 |

\* Measured with horn type LBC 3405

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