# LBC 3800/10 Cabinet Loudspeaker, 100 W

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- ▶ High-quality reproduction of speech and music
- Attractive MDF cabinet
- ▶ Trapezoidal shape
- ► Heavy-duty metal grille
- ▶ 12" high-power woofer

This loudspeaker cabinet is part of the Bosch comprehensive range of audio products and accessories for sound reinforcement and public address. It is specifically designed for situations where both high quality speech and music reproduction are required, and is typically used for fixed installations in auditoriums, conference venues, community centers, theaters, multipurpose halls and sports halls. The LBC 3800/10 100 W stage loudspeaker is compact yet powerful. Its excellent sound reproduction capability is attributed to the use of arrayed professional quality components. It contains a highquality 12" woofer with a 1-3/8" voice coil titanium high-frequency driver, linked via a special crossover/ equalizer network for optimal sound reproduction. A self-restoring passive element protects the highfrequency driver against incidental overload.

# Functions

The cabinet is made of medium-density fiberboard (MDF), a durable material with excellent acoustic properties. It is finished with a durable matt black textured material that retains its look for many years.

Special trapezoidal design allows for easily-arrayable systems, and greatly reduces the build-up of standing waves inside an enclosure. Heavy-duty metal corner fittings prevent impact damage during transport and facilitate stacking.

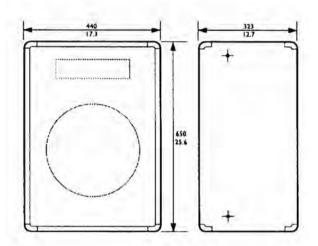
# **Certifications and approvals**

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.

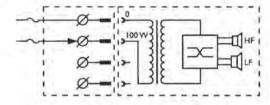
| Region | Certification |
|--------|---------------|
| Europe | CE            |

# Installation/configuration notes

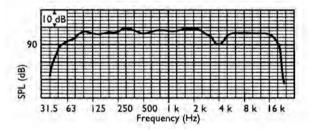
The LBC 3800/10 has 10 M8-threaded attachment points on the top (2), sides (2 each), base (2) and rear panel (2) for horizontal and vertical suspended mounting. A suspension bracket, LBC 1800/00, is available for vertical suspended mounting.



Dimensions in mm (in)



Circuit diagram

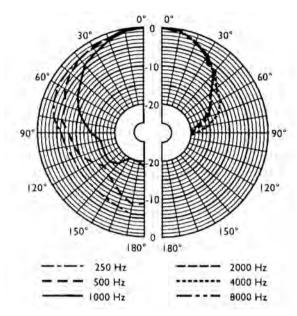


Frequency response

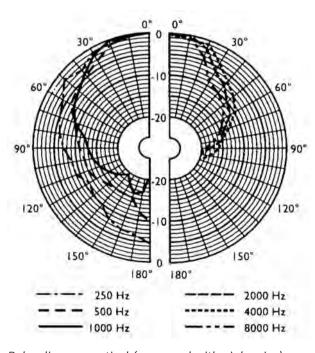
|             | 125<br>Hz | 250<br>Hz | 500<br>Hz | 1<br>kHz | 2<br>kHz | 4<br>kHz | 8<br>kHz |
|-------------|-----------|-----------|-----------|----------|----------|----------|----------|
| SPL 1.1     | 96        | 97        | 98        | 98       | 99       | 95       | 96       |
| SPL<br>max. | 116       | 117       | 118       | 11<br>8  | 11<br>9  | 11<br>5  | 11<br>6  |
| Q-factor    | 1.8       | 3         | 4.6       | 5.8      | 11       | 11.<br>2 | 21       |
| Efficien cy | 2.8       | 2.1       | 1.74      | 1.3<br>8 | 0.9      | 0.3<br>5 | 0.2<br>4 |

| H. angle | 360 | 180 | 140 | 11<br>0 | 80 | 65 | 65 |
|----------|-----|-----|-----|---------|----|----|----|
| V. angle | 360 | 150 | 120 | 11<br>0 | 60 | 75 | 40 |

Acoustical performance specified per octave



Polar diagram horizontal (measured with pink noise)



Polar diagram vertical (measured with pink noise)



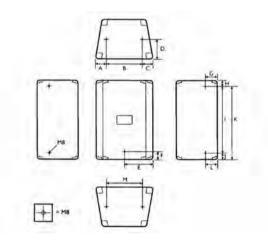
Horizontal suspension using LBC 1800/00 bracket



Chain used to tilt loudspeaker



Vertical suspension using chains



|        | Α   | В   | С   | D   |     |
|--------|-----|-----|-----|-----|-----|
| mm     | 80  | 280 | 80  | 100 |     |
| inches | 3.2 | 11  | 3.2 | 3.9 |     |
|        | E   | F   | G   | Н   |     |
| mm     | 220 | 100 | 100 | 58  |     |
| inches | 8.7 | 3.9 | 3.9 | 2.3 |     |
|        | I   | J   | K   | L   | М   |
| mm     | 534 | 58  | -   | 100 | 280 |
| inches | 21  | 2.3 | -   | 3.9 | 11  |

Attachment points for vertical and horizontal mounting and tilting

# **Technical specifications**

#### Electrical\*

| Maximum power<br>short term input<br>long term input | 250 W<br>200 W             |
|--|----------------------------|
| Rated power (PHC)                                    | 100 W                      |
| Sound pressure level at 100 W / 1 W (1 kHz, 1 m)     | 118 dB / 98 dB (SPL)       |
| Effective frequency range (-10 dB)                   | 70 Hz to 20 KHz            |
| Crossover frequency                                  | 3.5 kHz (-12 dB)           |
| Opening angle  | 1 kHz / 4 kHz (-6 dB)      |
| horizontal   | 110°/65°                   |
| vertical   | 110°/75°                   |
| Rated input voltage                                  | 100 V                      |
| Rated impedance                                      | 100 ohm                    |
| Connector  | 100 V quick-plug connector |

<sup>\*</sup> Technical performance data acc. to IEC 60268-5

#### Mechanical

| Dimensions (H x W x D) | 650 x 440 x 323 mm<br>(25.6 x 17.3 x 12.7 in) |
|------------------------|---|
| Color                  | Black (matt)                                  |
| Weight                 | 24 kg (52.8 lbs)                              |

# **Environmental**

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

# **Ordering information**

# LBC 3800/10 Cabinet Loudspeaker, 100 W

100 W, high-quality 12" woofer with a 1-3/8" voice coil titanium high-frequency driver Order number LBC3800/10

# Accessories

# LBC 1800/00 Suspension bracket

Suspension bracket Order number LBC1800/00

### Represented by:

#### Americas:

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