

DQOR® 8T (W)

8" TWO-WAY PASSIVE INDOOR/OUTDOOR INSTALLATION LOUDSPEAKER 16 OHM

LDsystems LD

FEATURES

- For indoor and outdoor use, IP65 (DQOR 3) and IP55 (DQOR 5 & 8) certified
- Corrosion-resistant aluminum front grille
- Elegant, dynamic design to suit any environment
- Available in black or white
- Slide-and-lock wall mount with concealed integrated connections
- Superb, balanced sound thanks to a 2-way system
- Weather treated paper cone woofer and FerroFluid™-cooled titanium high frequency driver
- Wide coverage angle (120° horizontal, 80° vertical)
- BEM-optimized waveguide for balanced sound
- 3", 5" and 8" variants available
- Available in two connection variants: low impedance (8 Ohm) or as a 70/100 V version with multiple power taps, and can be operated under low impedance (16 Ohm)

DESCRIPTION

Encourage your customers and guests to linger for longer with great sound. Thanks to their wide coverage angle and balanced sound, DQOR loudspeakers provide an inviting ambience.

Whether indoors or outdoors, with its elegant, dynamic design in black or white, the 2-way speaker fits harmoniously into any installation. Thanks to the clever slide-and-lock wall mount with concealed integrated connections, there is no need for unsightly cables. To maintain an elegant and smart look on the long term, the front grille is made of corrosion-resistant aluminum.

No restrictions! With a tilt angle of up to 27° and a 45° horizontal swivel angle, DQOR loudspeakers offer flexible positioning to meet your needs.

DQOR loudspeakers can also be used in a distributed sound system with numerous speakers and long cable runs. The DQOR 3T, DQOR 5T and DQOR 8T models are equipped with multitap transformers for 70 V/100 V systems to minimize power loss. Play background music and announcements at the sound level you want: the output power of each speaker can be adjusted with a power tap. Alternatively, the transformer variants can also be operated at conventional low impedance amplifier outputs. Their 16 Ohm impedance allows the parallel connection of up to eight DQOR loudspeakers at 2 Ohm. DQOR series loudspeakers provide superb sound and the sort of feel-good atmosphere which always puts your customers and employees in a great mood, whether in your shop, your hotel lobby, at a beach bar or on a cruise ship.

SPECIFICATIONS

Product number	LDDQOR8TB/ LDDQOR8TW
General	
Peak load capacity	240 W
RMS load capacity	120 W
SPL (1 W/1 m)	88 dB
Frequency response (-10 dB, rel. Avg)	62 – 20,000 Hz
Operating modes	70 V, 100 V, Low resistance (16 Ω)
Transformer taps (100 V)	120 W, 70 W, 30 W, 15 W, 7.5 W, 3 W
Transformer taps (70 V)	120 W, 70 W, 30 W, 15 W, 7.5 W, 3 W



Product number	LDDQOR8TB/ LDDQOR8TW
Impedance	16 Ω
Speaker system	2-way system
Crossover frequency	1,800 Hz
Beam angle	120° (hor.) / 80° (vert.)
Input connector types	Terminal block 4 pin (Euroblock) / 5.08 mm pitch
Colour	Black (RAL 9005) / White (RAL 9003)
Bass driver	
Size	8"
Magnet	Ferrite
Voice coil	2"
Tweeter	
Driver size	1"
Design	Softdome tweeter with BEM-optimised HF waveguide
Magnet	Neodymium
Housing	
Design	Closed
Mounting type	Wall bracket
Chassis material	ABS
Front grille material	Aluminium
Environmental	
Protection class	IP55
Ambient temperature	-30 – 50 °C
Dimensions & weight	
Outer dimensions (L × H × D)	255.8 mm × 413.9 mm × 314.6 mm
Weight	7.2 kg
Other properties	
Included accessories	Hexagon socket spanner, Fastening material

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ARCHITECT & ENGINEER'S SPECIFICATIONS

The passive loudspeaker system shall be of surface-mount full-range design, consisting of one 8-inch (200 mm) low frequency transducer with weather-resistant paper cones, and one 1-inch (25.4 mm) titanium dome high frequency transducer with FerroFluid™ cooling assembled in a specially developed BEM-optimized Constant-Directivity Waveguide. The loudspeaker system shall be capable of operation in low-impedance mode or over a 70/100 V constant-voltage audio system via a built-in low-saturation transformer.

The loudspeaker system shall be of two-way design, including a passive crossover with a crossover frequency of 1,800 Hz, and integrated self-resetting high frequency driver protection against damage from occasional overpowering.

The loudspeaker system shall meet the following performance specifications: measured sensitivity shall be 88 dB SPL (on-axis, free-field sensitivity, measured at 1 m with 1 W input); frequency response shall extend from 62 Hz to 20 kHz (10 dB below rated on-axis sensitivity); maximum rated SPL shall be of 109 dB; rated power shall be 120 W RMS (two-hours, continuous pink noise); measured low-impedance peak power shall be 240 W (band-limited above 200 Hz); nominal impedance shall be 16 ohms. The nominal coverage angle (-6 dB) of the loudspeaker system shall be 120 degrees horizontal and 80 degrees vertical.

The loudspeaker system shall include an integrated wall mount bracket with a slide-and-lock mechanism, including a removable round wall mounting plate with internal speaker connections. The wall mounting plate shall have a 4-pole terminal block connector, pitch 5.08mm, with a spring clamping mechanism, and shall include a central cable bushing for speaker cables installed inside walls, and a lower cable bushing for on-wall cable installations. A removable plastic sealing cap shall be attached by default in the lower cable bushing for optimal sealing purposes in in-wall cable installations. The integrated wall mount bracket shall include a swivel mechanism, with a vertical tilt range of 27° and a horizontal Pan range of 45°, and a dome-shaped union nut with an integrated safety screw to lock and secure the loudspeaker system in the desired position.

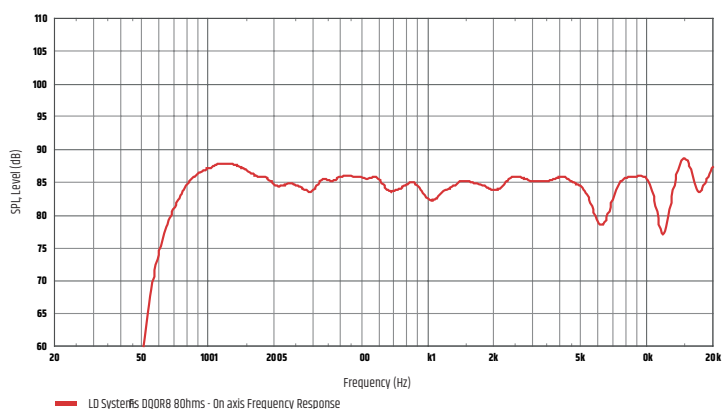
The loudspeaker system's control panel shall be located on a recessed area on the rear section that contains an input mode switch, and a power tap selector. A water-tight rubber cover shall be provided for sealing protection of the control panel against precipitation and moisture. The input mode switch shall be a 3-way selector with three input options: 70 V, 100 V or 16 Ohm. The loudspeaker system's transformer tap selector switch shall be a six-position rotary type with taps of 120 W, 70 W, 30 W, 15 W, 7.5 W or 3 W.

The loudspeaker enclosure shall be constructed of ABS plastic with an aluminum front grille and shall have an IEC60529 rating of IP-55 for protection against intrusion of solid objects, dust and water. The loudspeaker system shall withstand MIL-STD-810G tests for corrosion (salt fog test – method 509.5) and solar radiation (method 505.5) protection. The loudspeaker system shall be available in two RAL colors: black (9005) or white (9010).

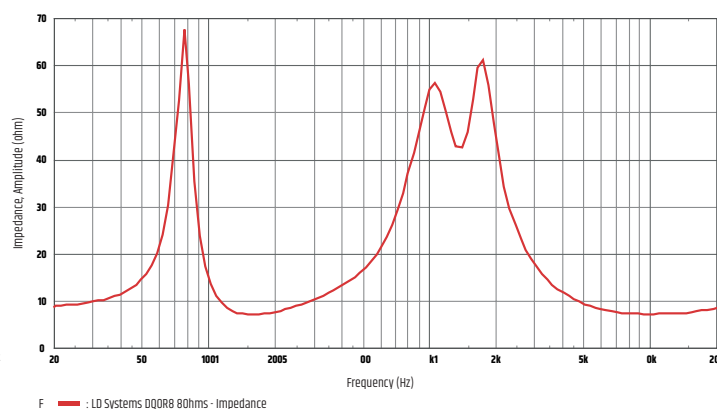
The enclosure shall be 413.9 mm (16.29 in) high, 255.8 mm (10.07 in) wide, and 247.3 mm (9.74 in) deep. With the integrated wall mount bracket, the front of the grille shall stand 316.4 mm (12.46 in) from the mounting surface. The loudspeaker system shall have a net weight of 7.2 kg (15.87 lb.).

The loudspeaker system shall be the LD Systems® DQOR® 8T.

FREQUENCY RESPONSE GRAPH



IMPEDANCE GRAPH

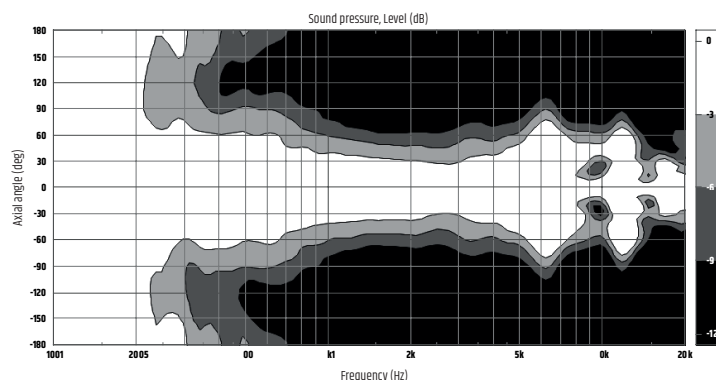


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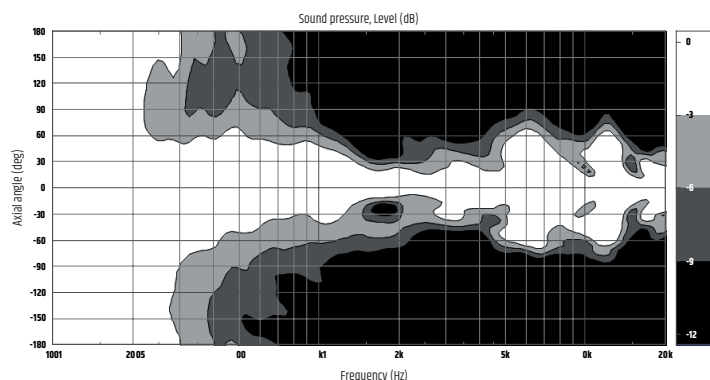
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HORIZONTAL DIRECTIVITY GRAPH



VERTICAL DIRECTIVITY GRAPH



TECHNICAL DRAWING

Scale 1: 5

