Control 8SR™/70/100

Compact Sound Reinforcement Loudspeaker System

Professional Series

Key Features:

- Sensitivity: 92 dB SPL, 1 W, 1 m (3.3 ft)
- High power handling (175 W IEC pink noise) with integral protection circuit network
- Frequency range (-10 dB): 70 Hz to 16 kHz
- Molded polypropylene weather resistant enclosure
- Components:
  200 mm (8 in) low frequency loudspeaker with weatherized cone
  100° x 80° Flat-Front Bi-Radial® horn with compression driver
- Optional mounting hardware
- Multi-tap 70.7 or 100 volt line distribution autotransformer available for internal mounting

The Control 8SR™ is a high performance compact and versatile sound reinforcement loudspeaker system designed for a wide variety of applications. The UV stable polypropylene enclosure and weatherized transducers make it possible to use the Control 8SR for both outdoors and indoors.

As a primary sound source, the Control 8SR exhibits wide bandwidth and solid bass output, making it an ideal choice for foreground music applications or as a vocal reinforcement system for smaller audiences. Its weather resistance characteristics make the Control 8SR appropriate for use in theme parks, outdoor restaurants, patios or any application where the loudspeakers will remain outdoors for an extended period of time.

A 200 mm (8 in) low frequency transducer generates solid bass output down to 70 Hz. The compression driver/Flat-Front Bi-Radial® horn combination reproduce high frequencies with outstanding clarity and detail. The 100° x 80° pattern of the horn assures smooth, even coverage over a wide area. For distributed systems, the frequency dividing network is designed with mounting points and easy access solderless connection

Preliminary Specifications:

Frequency Range (-10 dB):	70 Hz to 16 kHz
Power Capacity[1]:	175 watts continuous pink noise
Sensitivity[2]:	92 dB SPL, 1 W, 1 m (3.3 ft)
Directivity Factor (Q):	TBA
Directivity Index (DI, dB):	TBA
Nominal Impedance:	4 ohms
Crossover Frequency:	3 kHz
Polarity:	Positive voltage to Pin 1+ of the Speakon connector causes outward motion of the low frequency cone.
GENERAL:	
Enclosure Material:	Polypropylene structural foam
Finish:	Charcoal
Grille Material:	Perforated metal, powdercoat finish
Dimensions (H x W x D):	387 x 251 x 229 mm (15 1/4 x 9 7/8 x 9 in)
Net Weight (each):	5.7 kg (12 1/2 lb)
Shipping Weight (pair packed):	12.5 kg (27 1/2 lb)
ACCESSORIES:	
MTC-51 Wall Mount Bracket:	Allows the Control 8SR to be mounted to any rigid vertical surface with a unique polymer ball clamp design. In addition to omnidirectional movement about the ball, the speaker's connecting wires may be run internal to the clamp.
MTC-52 Ceiling Mount Bracket:	The same as MTC-51, except that it is designed to be mounted to a rigid ceiling surface.
MTC-53 Rack Mount Bracket:	Allows the Control 8SR to be mounted in a standard 19 inch EIA equipment rack, with accommodation for vertical angle adjustment.
MTC-54 Tripod Mounting Adapter:	Allows the Control 8SR to be mounted to the JBL MT4612 Tripod Speaker Stand in either vertical or horizontal orientation.
MTC-56 Wall Mount Bracket:	Low cost, fixed angle wall mount bracket with safety chain. (Not for use with Control 8SR).
MTC-70 Distribution 70.7 volt Autotransformer and MTC-100 Distribution 100 volt Autotransformer:	7.5, 15, 30 and 60 watt taps, plus a "bypass" position. Easy to install for multi-unit distributed sound systems.

[1] Rating is based on test signal of filtered random noise with a peak-to-peak average of 6 dB, two hours duration.
[2] Averaged from 500 Hz to 2.5 kHz, 1 W is 2.0 V at 4 ohms

points for the optional multi-tap transformer. Close tolerance components and bypass capacitors provide smooth transducer summing and superb transient accuracy. A transducer protection circuit is also included as part of the standard crossover network design.

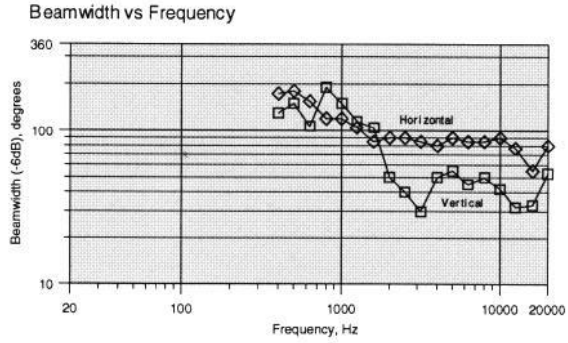
Molded of UV stable dense polypropylene structural foam, the Control 8SR enclosure is both pleasing to the eye and multi-functional. Its cosmetic design and shape make it easy to fit the Control 8SR into virtually any environment. At the same time, the enclosure is designed to interface with a number of accessory mounting brackets which increase its versatility for both permanent installations and portable applications.

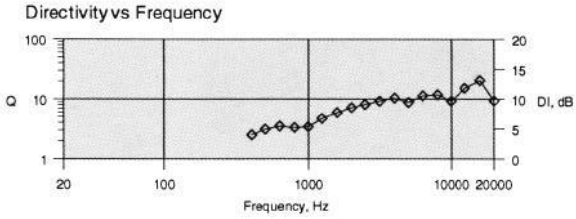
Architects and Engineers Specifications:

The loudspeaker system shall consist of a 200 mm (8 in) low frequency transducer, 100° x 80° high frequency horn with compression driver, and frequency dividing network installed in a ported enclosure. The voice coil of the low frequency transducer shall be at least 38 mm (1 1/2 in) in diameter, and the crossover frequency for the system shall be 3 kHz.

Performance specifications of a typical production unit shall be as follows: measured sensitivity (SPL at 1 meter for a 2 volt input, swept from 500 Hz to 2.5 kHz) shall be at least 92 dB. Frequency range -10 dB limits shall be no higher than 70 Hz in the low frequency range and no lower than 16 kHz in the high frequency range. Nominal impedance shall be 4 ohms. Rated power capacity shall be at least 175 watts continuous pink noise, based on a test signal of filtered random noise conforming to the international standard IEC 268-5 (pink noise with 12 dB/octave roll-off below 40 Hz and above 5 kHz, with a peak-to-peak average of 6 dB), 2 hours duration.

The enclosure shall be manufactured of polypropylene structural foam, containing internal mounting bosses for the JBL model MTC-70 and MTC-100 line distribution autotransformer. Optional mounting brackets shall be available for positioning the loudspeaker at various angles for both temporary and permanent installations. Overall dimensions shall be no greater than 387 mm (15 1/4 in) by 251 mm (9 7/8 in) by 229 mm (9 in) deep. Finish shall be black, and the grille shall be powdercoated for moisture resistance.





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