Control 1C™ Miniature Loudspeaker System

Professional Series

Key Features:

- Sensitivity: 86 dB SPL, 1 W, 1 m (3.3 ft.)
- High power handling (150 W pink noise) with integral protection circuit network
- Molded enclosure
- Components:
  135 mm (5¼ in) low frequency loudspeaker
  19 mm (¾ in) polycarbonate dome tweeter
- Optional mounting hardware

The Control 1C™ is a high performance personal monitor loudspeaker that offers many advantages of JBL's celebrated Control 1. This low cost version retains the excellent electro-acoustical performance of the Control 1. The major differences are its non-shielded magnetic structure and unfinished polypropylene structural foam enclosure.

Incorporating a 135 mm (5¼ in) low frequency transducer, a 19 mm (¾ in) high frequency driver, and a sophisticated dividing network, the Control 1C provides full range, low distortion reproduction for a variety of applications.

The Control 1C is ideal for general sound contracting specification for distributed systems requiring wide bandwidth in the least amount of space. The Control 1C is also an excellent choice for personal music studios and other applications such as foreground music in restaurants and as added coverage in discos.

Well balanced sound and exceptional power handling make the Control 1C ideal for any installation requiring professional control monitor performance from a compact source.

Control 1C mounting versatility is enhanced by a complete line of installation accessories.

Specifications:

SYSTEM:	
Frequency Response (±3 dB):	120 Hz to 20 kHz
Power Capacity[1]:	150 W
Sensitivity[2]:	86 dB SPL, 1 W, 1 m (3.3 ft)
Directivity Factor (Q):	2.8
Directivity Index (DI):	4.5
Nominal Impedance:	4 ohms
Crossover Frequency:	6 kHz
Polarity:	Positive voltage to + terminal causes outward low frequency cone motion.
GENERAL:	
Enclosure Material:	Polypropylene structural foam
Finish:	Unpainted
Dimensions:	235 mm H x 159 mm W x 143 mm D (9¼ in H x 6¼ in W x 5⅝ in D)
Net Weight (each):	1.8 kg (4 lb)
Shipping Weight (pair):	4.6 kg (10 lb)
ACCESSORIES:	
MTC-1 Adapter:	This clamp-on unit allows the Control 1C to be mounted on photographic tripods, mike stands (with the MTC-4 or MTC-6) and other manufacturers' wall or clamp mount systems. Pair packed.
MTC-2 + Wall Ceiling Mount System:	This unit allows the Control 1C to be mounted to any rigid surface while permitting the speaker to be aimed in almost any direction. Optional colors.
MTC-3 + Clamp Mount System:	This unit allows the Control 1C to be clamped onto a variety of objects such as shelves, poles or table tops while permitting a range of adjustments. Optional colors.
MTC-4 (European) Microphone MTC-6 (Japanese) Stand Adapter:	This unit allows the Control 1C to be mounted on a microphone stand with European (Japanese) standard threads when used in conjunction with an MTC-1.
MTC-7 American Microphone Stand Adapter:	This unit allows the Control 1C to be mounted on a microphone stand with American standard threads.
MTC-8 Wall Mount Bracket:	Low cost, fixed angle wall mount bracket. Optional colors.

[1] Rating based on test signal of IEC filtered random noise with a peak-to-average ratio of 6 dB, two hours duration.
[2] Sensitivity is based on a swept 500 Hz to 2.5 kHz signal for an input of 2.0 V @ 4 ohms.

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Wall mounting brackets are available for permanent attachment to any rigid surface. A clamp mounting system is available for semi-permanent attachment to a wide variety of structures.

Additionally, mounting adaptors are available to interface the Control 1C system to other mounting systems now in use, as well as photographic tripods or microphone stands.

Architectural Specifications:

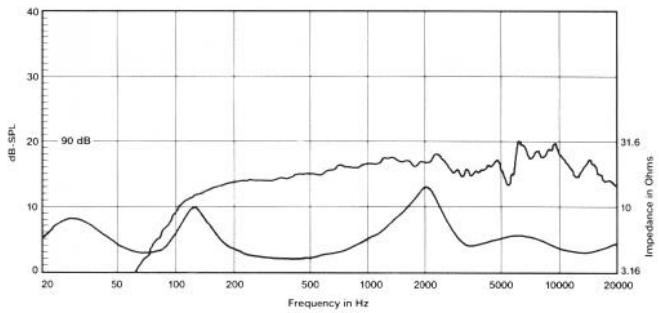
The loudspeaker system shall consist of a 135 mm (5¼ in) low-frequency transducer, 19 mm (¾ in) dome high-frequency transducer, and frequency dividing network installed in a ported enclosure. The magnetic assemblies shall use ferrite magnets. The low frequency voice coil shall be 25 mm (1 in) in diameter. The frequency dividing network shall have a crossover frequency of 6 kHz and shall utilize polypropylene bypass capacitors to reduce hysteresis effects on the signal.

Performance specifications of a typical production unit shall be as follows: measured sensitivity (SPL at 1 m [3.3 ft] with 2.0 V input, swept from 500 Hz to 2.5 kHz) shall be at least 86 dB SPL. Frequency response shall be within plus or minus 3 dB from 120 Hz to 20 kHz. Usable frequency response shall extend downward to 70 Hz. Nominal impedance shall be 4 ohms. Rated power capacity shall be at least 150 watts continuous pink noise, based on a test signal of IEC filtered random noise, with a peak-to-average ratio of 6 dB, two hours duration.

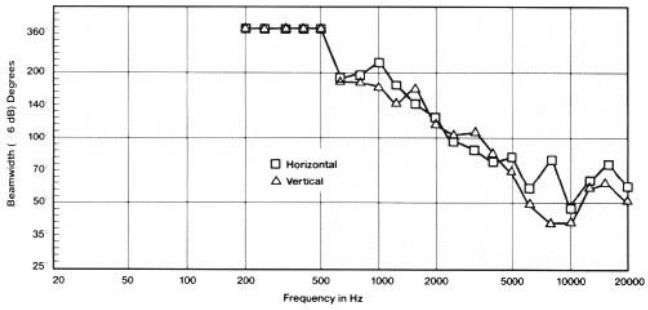
The entire enclosure shall be manufactured of molded polypropylene structural foam. Optional mounting brackets shall be available for positioning of the loudspeaker at various angles for both temporary and permanent installations. Overall dimensions shall be no greater than 235 mm (9¼ in) by 159 mm (6¼ in) by 143 mm (5⅝ in) deep. The enclosure shall have integral metal grille and rubber end protectors.

The system shall be the JBL Model Control 1C.

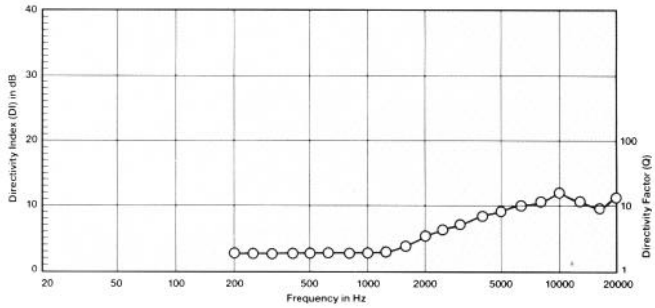
Frequency Response at 1 W, 1 meter; Impedance



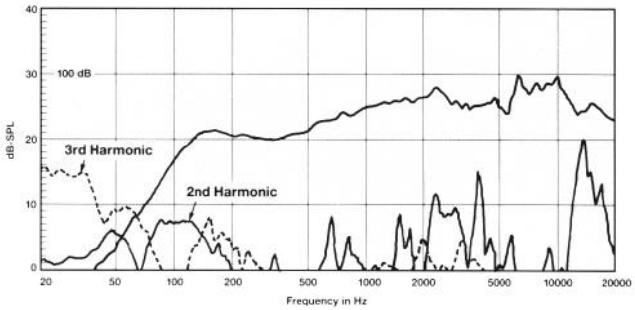
Horizontal and Vertical
Beamwidth (– 6 dB) vs. Frequency



Directivity vs. Frequency



Distortion vs. Frequency 10 W
Distortion Raised 20 dB



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