High-Fidelity Ceiling Speakers

Models:
HFCS1 (Off-white) / HFCS1B (Black)
HFCS1LP (Off-white) / HFCS1LPB (Black)

Description
The Bogen HFCS1(B) and HFCS1LP(B) ceiling loudspeakers deliver superior sound and clear intelligibility in a variety of ceiling environments. The system can be easily installed in hard-surfaces ceilings, suspended ceilings, and new constructions. Both speakers offer several levels of power output controlled via a front-mounted rotary tap selector switch (under grille). The low-distortion speaker design, coupled with a computer-matched venting system, delivers high intelligibility and exceptional low-frequency response for both music and speech reinforcement.

Features
- Wide-dispersion coaxial driver for broad, even coverage
- Good off-axis response with smooth contouring
- Computer-matched venting system for full bass output
- Large back can for deeper bass response (HFCS1/B)
- Low-profile housing allows greater range of installations (HFCS1LP/B)
- High power handling capability for foreground sound
- Selectable power taps via front-mounted control
- Power taps (in watts): 32, 16, 8, 4, 2, and 1 for 70V; 32, 16, 8, 4, and 2 for 100V
- 16-ohm input for non-transformer, multi-speaker systems (selectable via tap selector switch)
- Compounded rubber surround, plus polypropylene and polycarbonate drivers for lasting performance
- Easy wiring with plug-in connector
- Integral swing-out clamps for easy installation
- Connector provides loop-through terminals for the next speaker
- Attachment point for seismic cable (safety cable)
- Input terminal cover with knockouts and safety eyelet provides protection for connections
- Off-white or Black textured finish easily painted to match theme decor
- Attractive, contemporary, sturdy steel grille assembly with fine perforations
- Listed to UL Standard 60065 for US and Canada
- Independently tested and meets requirements of UL-2043 (report available)
- Accessory tile bridge support ring (Model TBCR, sold separately)
- Accessory 10-foot long cable kit (Model CK10, sold separately)

Technical Specifications

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<tr>
<th>Specifications</th>
<th>HFCS1</th>
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<tr>
<td>Frequency Response (-10 dB)*</td>
<td>65 Hz to 19 kHz</td>
<td>78 Hz to 19 kHz</td>
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<tr>
<td>LF Driver</td>
<td>6-1/2&quot; (165mm) Polypropylene Cone</td>
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<td>HF Driver</td>
<td>3/4&quot; (20mm) Polycarbonate Dome</td>
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<tr>
<td>Sensitivity (1W/1m)</td>
<td>89 dBSpl (Average 100 Hz - 10 kHz)</td>
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<td>Impedance Ratings</td>
<td>Low (16 ohms) / High (70V/100V)</td>
<td></td>
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<tr>
<td>Power Input (Max.)</td>
<td>75W @ 16 ohms; 32W @ 70V/100V</td>
<td></td>
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<tr>
<td>Power Settings (in watts)†</td>
<td>70V: 32, 16, 8, 4, 2, 1 / 100V: 32, 16, 8, 4, 2</td>
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<tr>
<td>Baffle Material</td>
<td>Fire-rated (94VO) ABS</td>
<td></td>
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<tr>
<td>Back Can Material</td>
<td>Heavy-Gauge Steel</td>
<td></td>
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<tr>
<td>Terminations</td>
<td>4 Terminal Plug-in Input Connector</td>
<td></td>
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<td>Product Weight</td>
<td>9 lb.</td>
<td>8 lb.</td>
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<td>Speaker Dimensions</td>
<td>12-5/16&quot; dia. x 12&quot; D</td>
<td>12-5/16&quot; dia. x 7-3/4&quot; D</td>
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<td>Minimum Vertical Clearance Requirement</td>
<td>11&quot;</td>
<td>6-3/4&quot;</td>
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<td>Included Accessories</td>
<td>Input Terminal Cover (2 Halves); (4) Screws; (1) Plug-in Input Connector</td>
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<tr>
<td>Optional Accessories</td>
<td>Tile Bridge Support Ring (TBCR); Cable Kit (CK10)</td>
<td></td>
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<tr>
<td>Baffle Ring &amp; Grille Color</td>
<td>Off-white or Black</td>
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*Half-Space Response
† Front panel, switch-selected

Specifications subject to change without notice.
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The loudspeaker shall be a Bogen Model HFCS1 or HFCS1LP Ceiling Speaker or approved equivalent, consisting of one 6-1/2" (nominal) low frequency transducer, one 3/4" (nominal) high frequency transducer, and a filter network for dividing frequencies between the transducers.

The front baffle shall be injection-molded ABS material and the back can (enclosure) shall be made of steel. All components shall be mounted inside the enclosure.

The baffle shall be supplied in off-white or black (B versions) with a mild texture finish to promote paint adhesion, if desired. A perforated steel speaker grille shall be provided, color-matched to the baffle.

The low-frequency driver shall utilize a molded polypropylene diaphragm (cone). A compounded rubber cone surround shall be formulated to withstand environmental conditions with high or low heat, high or low humidity, and ultra-violet light.

The high-frequency driver shall utilize a diaphragm consisting of black polycarbonate.

Integral swing-out clamps shall provide a secure installation in the ceiling surface. A safety cable attachment point shall be included in the removable terminal enclosure cover. An optional 10-foot long cable kit shall be available to serve as a backup safety cable (Model CK10).

An optional tile bridge/support ring installation bracket (Model TBCR) shall provide additional support when mounting the loudspeaker into suspended ceilings. The bracket shall also serve as a pre-installation guide for new construction installations, and provide attachment to either 16" OC or 24" OC mounting.

The input connector shall be a 4-screw pluggable input connector, providing loop-through terminals for additional speakers.

Power input selection shall be via a front-mounted rotary switch, located under the removable grille. High impedance tap selections shall be 1, 2, 4, 8, 16, and 32 watts. A low impedance 16-ohm selection shall also be provided.

Dimensions of the speaker shall not exceed 12-5/16" diameter x 12" D (HFCS1/B) or 12-5/16" diameter x 7-3/4" D (HFCS1LP/B). The speaker shall require a minimum vertical clearance of 11" (HFCS1/B) or 6-3/4" (HFCS1LP/B). Product weight shall be 9 lb. (HFCS1/B) or 8 lb. (HFCS1LP/B).