

PHR™ II Series

2-way Ceiling Speakers



PHR 410 II | PHR 630 II | PHR 860 II

PRELIMINARY



Description

Designed to provide high performance wide distributed audio coverage in an elegant discrete package with a low recessed profile, the Peavey® PHR™ II series of ceiling mounted enclosure appeal to both systems designers and architects.

A five (5) step Tap selectable switch, at the speaker face and behind the front grill, allows for easy adjustment before and after installation, for both 70V or 100V Hi-Z distributed speaker lines and up to 90W selectable (model dependent). For Lo-Z speaker connectivity an 8Ω transformer bypass setting is included for maximum versatility.

The enclosure is constructed of high-impact injection moulded plastic. The front grill is magnetically attached and can be painted to suite any interior finish.

Further more the PHR II series of ceiling speakers are housed in a steel fire rated backcan including a 4-pin screw terminal to allow for easy daisy-chain wiring terminations.

Features

- **4" woofer (PHR 410 II), 6.5" woofer (PHR 630 II) and 8" woofer (PHR 860 II)**
- **1" Soft dome tweeter with Titanium membrane**
- **Continuous power handling:**
 - 40 Watts (PHR 410 II)
 - 50 Watts (PHR 630 II)
 - 90 Watts (PHR 860 II)
- **Nominal impedance: 8 Ohms**
- **Connectors: 4-pin screw terminal**
- **Loop Through**
- **Advanced crossover network**
- **Combined 70/100V and low impedance operation**
- **Five (5) transformer taps for each 70V and 100V**
- **Tweeter can be aimed towards listening area**
- **Magnetic front grille**
- **Steel backcan**
- **Available in White**

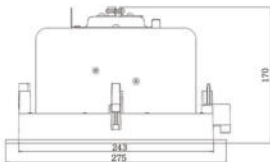
PHR™ II Series - Ceiling Speakers

Specifications

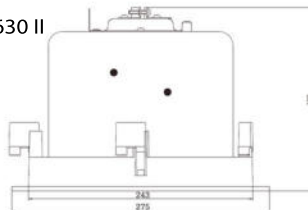
	PHR 410 II	PHR 630 II	PHR 860 II
Frequency Response (-10 dB):	90 Hz - 18 kHz	80 Hz - 20 kHz	75 Hz - 20 kHz
Program Power Rating @ 8 Ohms:	40 Watts	50 Watts	90 Watts
Nominal Impedance:	8Ω	8Ω	8Ω
Coverage (HxV):	90° x 90°	90° x 90°	90° x 90°
Nominal Sensitivity (1W @ 1m):	86 dB	88 dB	88 dB
SPL Peak:	105 dB	108 dB	111 dB
Transformer Taps @ 100V:	15W, 7.5W, 3.75W, 1.9W, 1W	30W, 15W, 7.5W, 3.75W, 1.9W	50W, 25W, 12.5W, 6.25W, 3.1W
Transformer Taps @ 70V:	7.5W, 3.75W, 1.9W, 1W, 0.5W	15W, 7.5W, 3.75W, 1.9W, 1W	25W, 12.5W, 6.25W, 3.1W, 1.5W
LF Transducer:	4" (102 mm)	6.5" (165 mm)	8" (203 mm)
LF Transducer Material:	PP Cone and Rubber Surround	PP Cone and Rubber Surround	PP Cone and Rubber Surround
HF Transducer:	1" (25 mm) Soft Dome Tweeter	1" (25 mm) Soft Dome Tweeter	1" (25 mm) Soft Dome Tweeter
HF Transducer Material:	Titanium Membrane	Titanium Membrane	Titanium Membrane
Crossover Frequency:	4 kHz	4 kHz	4 kHz
Recommended filter type and point:	24 dB/oct., Linkwitz-Riley @ 80 Hz	24 dB/oct., Linkwitz-Riley @ 80 Hz	24 dB/oct., Linkwitz-Riley @ 70 Hz
Outside Dimension (Diameter x Depth):	10.83" x 6.69" (275 mm x 170 mm)	10.83" x 7.84" (275 mm x 199 mm)	10.83" x 8.74" (275 mm x 222 mm)
Ceiling Cutout Diameter:	9.57" (243 mm)	9.57" (243 mm)	9.57" (243 mm)
Net Weight:	3.86 lbs (1.75 kg)	6.17 lbs (2.80 kg)	6.72 lbs (3.05 kg)
Backcan Material:	Steel	Steel	Steel
Housing Material:	ABS	ABS	ABS
Grille mounting:	Magnetic	Magnetic	Magnetic
Input Connectors:	Srew Terminal	Srew Terminal	Srew Terminal
Logo Rotatable:	Yes (360°)	Yes (360°)	Yes (360°)
Safety Ring:	Yes	Yes	Yes

Dimensions

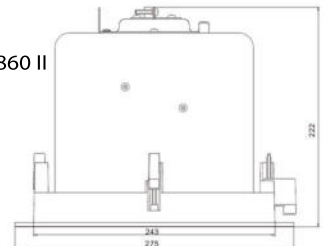
PHR 410 II



PHR 630 II



PHR 860 II



Architect's & Engineer's Specifications

The ceiling speaker series shall include three models of two-way flush-mounting speakers with backcans suitable for a wide range of applications.

The speakers shall be equipped with a 4 inch (102 mm), a 6.5 inch (165 mm) or an 8 inch (203 mm) woofer, all combined with a 1 inch (25 mm) soft dome tweeter with titanium membrane. All units of this series accept low impedance signals as well as 70 / 100 V constant voltage lines via the internal transformers with taps from 0.5W to 50W depending on the model.

Performance specifications of a typical production unit shall be: Measured sensitivity SPL at 1 m (3.3ft) with 2.83V input, shall be 86 / 88 / 88 dB-SPL. Usable frequency response shall extend from 90 Hz to 18 kHz / 80 Hz to 20 kHz / 75 Hz to 20 kHz (10 dB below rated sensitivity, in half-space, with no external equalization). Nominal impedance shall be 8 ohms. Rated power capacity shall be at least 40 / 50 / 90 Watts continuous power, defined as 3 dB above a test signal of filtered random noise.

The enclosure shall be constructed from ABS with a steel backcan. The grille shall be of heavy-duty steel. The external wiring shall be via 4-pin srew terminal connectors. The loudspeakers shall be no more than 10.83 inches (275 mm) front face diameter and 6.69 / 7.84 / 8.74 inches (170 / 199 / 222 mm) overall depth, and shall weigh no more than 3.86 / 6.17 / 6.72 pounds (1.75 / 2.80 / 3.05 kg). The finish shall be a painted white.

The ceiling speaker series shall be the Peavey PHR II series models; PHR 410 II, PHR 630 II, and PHR 860 II or approved equivalent.



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Features and specifications subject to change without notice.

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