

Key Features:

- Two high power 300 mm (12 in) transducers in a compact slot-loaded configuration for low frequency extension to 40 Hz
- ► High power CMCD™ Cone Midrange Compression Driver provides high sensitivity and high continuous SPL capability along with low distortion, extended bandwidth and improved phase coherence
- Large format neodymium high frequency driver provides clear, intelligible high frequency projection
- ► Large PTTM Progressive TransitionTM waveguides provide consistent 40° x 30° pattern control, low distortion at high SPL levels and smooth frequency response
- ► Rotatable mid and high frequency waveguides allow either horizontal or vertical cabinet orientation
- ► Sophisticated, steep-slope passive midhigh crossover network with switchable tri-amp/bi-amp crossover modes

Applications:

- ▶ Performing arts facilities / Live theaters
- ► Auditoriums / Houses of worship
- ▶ Dance clubs / Sports facilities

PD5322/43 is a Precision Directivity™ 40° by 30° full range, three-way loudspeaker designed for use in arrays or singly in demanding music or speech system applications requiring high output capability with excellent pattern control and low frequency extension to 40 Hz.

The low frequency section, two 2206H 300 mm (12 in) VGC™ Vented Gap Cooled low frequency transducers, offers high power handling and low power compression for high continuous SPL capability. A newly designed LF loading plate provides the highest possible sensitivity, low frequency output and system reliability.

The mid and high frequency sections are horn-loaded for maximum sensitivity and pattern control. The CMCD-82H cone midrange compression driver consists of a driver/phasing plug assembly providing high output with low distortion. The design's extended response coupled with a small 100 mm (4 in) exit diameter allow for smoother transition to the high frequency driver in the magnitude and polar pattern domains. The integral 200 mm (8 inch) transducer features a high power Differential Drive® dual voicecoil design. The 2431H large format high frequency compression driver utilizes a neodymium magnet and aluminum diaphragm to deliver clear and intelligible high frequency projection, extended frequency response, and low distortion at even the highest drive levels.



Specifications:

| specifications: | |
|--|---|
| Frequency Range ¹ (-10 dB): | 41 Hz to 18 kHz |
| Frequency Response ¹ (±3 dB): | |
| Coverage Pattern: | |
| Directivity Factor (Q): | |
| Directivity Index (DI): | |
| Crossover Modes: | |
| Passive Crossover ² : | |
| Transducer Power Ratings | |
| (AES) ³ : | MF: 350 W (1400 W peak), 100 hrs |
| | HF: 75 W (300 W peak), 2 hrs |
| Long-Term System Power | |
| Rating (IEC)4: | M/HF: 300 W (1200 W peak), 100 hrs |
| Maximum SPL: | Tri-amp mode: LF: 128 dB-SPL cont avg (134 dB peak) |
| | MF: 137 dB-SPL cont avg (143 dB peak) |
| | HF: 135 dB-SPL cont avg (141 dB peak) |
| | Passive mode: 136 dB-SPL cont avg (142 dB peak) |
| System Sensitivity (1W @ 1m): | Passive Mode: 111 dB-SPL (mid/high section only) |
| Transducers: | 2 222/17 222 (42.1.) [1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. |
| Low Frequency Driver: | 2 x 2206H 300 mm (12 in) driver with 100 mm (4 in) voice coil |
| Nominal Impedance: | 4 ohms (2 x 8 ohms, internally wired in parallel) |
| Sensitivity ⁶ (1W, 1m within | 96 dB-SPL |
| operational band): | |
| Mid Frequency Driver: | CMCD-82H cone midrange compression driver with integral 200 mm |
| | (8 in) diameter Differential Drive® dual 75 mm (3 in) voice coil driver |
| Nominal Impedance: | 8 ohms |
| Sensitivity ⁶ (1W, 1m): | 112 dB-SPL |
| High Frequency Driver: | |
| | coil |
| Nominal Impedance: | |
| Sensitivity ⁶ (1W @ 1m) | |
| Waveguides: | |
| 71 | HF: PT-H43HF 300 x 300 mm (12 x 12 in) |
| Physical: | |
| Enclosure: | Trapezoidal with 12.5 degree side angles, 16 mm (5/8 in) exterior |
| | grade 11-ply Finnish birch plywood. |
| Suspension Attachment: | |
| | ware (eyebolts NOT included, see optional accessories). |
| Finish: | |
| Optional Weather Resistant | |
| Versions: | |
| | extreme environments, such as tropical or beach, or in areas with salt |
| | air, extreme high humidity or rapid changes in temperature. See |
| 0.31 | WRC/WRX configuration sheet for details. |
| Grille: | 3 3 F |
| T | backing (grille cloth backing on white units) |
| Input Connectors: | |
| | nals. Barrier terminals accept up to 5.2 sq mm (10 AWG) wire or max |
| | width 9 mm (.375 in) spade lugs. Speakon in parallel with barrier strip |
| | for loop-through. |
| Environmental Specifications: | Mil-Std 810; IP-x3 per IEC529. For higher environmental ratings, use |
| | WRC or WRX. |
| Dimensions | |
| (H x W x D in vertical orientation): | |
| Net Weight: | |
| Optional Accessories: | 229-00009-01 kit of three M10 x 35 mm forged shoulder steel eyebolts. |
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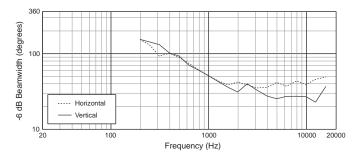
- 1. In bi-amp mode, with required active tuning.
- ² Resultant engineered acoustical response of crossover network and components.
 ³ AES standard, one decade pink noise with 6 dB crest factor within device's operational band, free air. Standard AES 2 hr rating plus long-term 100 hr rating are specified for low-frequency transducers.
- 4 IEC standard, full bandwidth pink noise with 6 dB crest factor, 100 hours
- ⁵ Calculated based on power rating and sensitivity, exclusive of power compression. ⁶ Anechoic sensitivity in free field, no additional sensitivity gains from boundary loading.

► PD5322/43 High Output Three-Way Full-Range Loudspeaker

Large PT™ Progressive Transition waveguides achieve an optimum balance of extremely well controlled coverage with low distortion, smooth frequency response, and natural sound character. The mid and high frequency horns are rotatable for cabinet positioning in either horizontal or vertical orientation. Highslope crossovers minimize band overlap and a wellcontrolled off-axis response enhances arrayability.

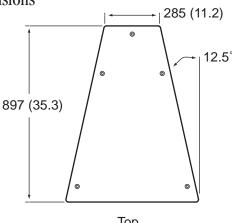
The loudspeaker can be operated in either bi-amplified (passive mid/high, active low/mid) or tri-amplified mode. In either case, digital signal processing is required in order to achieve specified performance. Input connectors include both Speakon® and CEapproved covered barrier strip input connectors for hookup versatility. The cabinet is fitted with twenty M10 threaded suspension points, supporting a wide variety of installation approaches.

Beamwidth

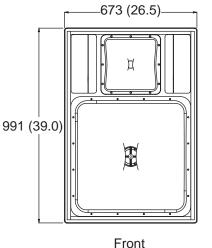


Measurements obtained in bi-amplified crossover mode.

Dimensions



Top



Back

Dimensions in mm (in)



Side

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