TWO-WAY COMPACT TRAPEZOIDAL LOUDSPEAKER WITH 90° X 40° HF HORN

DESCRIPTION

Loudspeaker Type: 2-way, Full-range, bass ported
Operating Range: 70 Hz - 18 kHz, 70 Hz - 18 kHz (+/-5dB)
Max Input (Passive): 200W continuous, 500W program
40 volts RMS, 89 volts momentary peak
Recommended Power Amp: 420W to 600W @ 8 Ohms
Max Inputs (Biamp):
   LF: (Same as for Passive mode)
   Recommended LF Power Amp: (Same as for Passive mode)
   HF: 50W continuous, 125W program
   20 volts RMS, 45 volts momentary peak
   Recommended HF Power Amp: 100W to 150W @ 8 Ohms
Sensitivity 1W/1m:
   97dB SPL (70 Hz - 16 kHz 1/3 octave bands)
96dB SPL (250 Hz - 4 kHz speech range)
Maximum Output: 120 dB SPL / 127 dB SPL (peak)
Nominal Impedance (passive): 8 Ohms
Min Impedance: 5.6 Ohms @ 180 Hz
Nominal Impedances (Biamp): LF: 8 Ohms, HF: 8 Ohms
Nominal -6 dB Beamwidth:
   80° H (+3° / -11°, 2 kHz - 10 kHz)
35° V (+8° / -2°, 2 kHz - 10 kHz)
Axial Q / DI:
   22.2 / 13.5, 2 kHz - 10 kHz
Crossover Frequency: 2 kHz
Recommended Signal Processing: 60 Hz high pass filter
Drivers:
   LF (1) 12", Ferrofluid-cooled
   (1) exit, titanium diaphragm
   HF (1) 1" exit, titanium diaphragm
Driver Protection: PowerSense™ DDP
Input Connection: (5) terminal barrier strip
Controls: Passive / Biamp switch, 3 position HF level switch
Enclosure: 13-ply 18 mm Baltic birch, Tuf-Coat™ finish (see options)
Enclosure Hardware: None
Mounting / Rigging Provisions:
   (6) 3/8-16 rigging points, W.L.L. 150 lb. vertical pull each
   (4) 5/16-18 wall/ceiling bracket attachment points
Grille: 16 gauge perforated steel, black powder coated (see options)
Required Accessories: None
Supplied Accessories: None
Optional Accessories:
   3/8EYBLTKIT: (4) 3/8-16 forged eyebolts
Dimensions:
   Height: 23.9 in. / 608 mm
   Width (front): 14.7 in. / 373 mm
   Width (rear): 9.2 in. / 234 mm
   Depth: 14.75 in. / 375 mm
   Weight: 53.5 lb. / 24.3 kg
   Shipping Weight: 57 lb. / 25.9 kg

APPLICATIONS:
• Theatres / Auditoria
• Houses of Worship
• Sport Facilities
• Health Clubs
• Clubs
• A/V Systems

FEATURES:
• Black, White Tuf-Coat™ finish, or Unfinished Exterior
• 1" Titanium HF with 3 Position Level Switch
• 90° x 40° Rotatable Horn Pattern
• Passive and Biamp Operating Modes
• PowerSense™ DDP (Dynamic Driver Protection)
• Small Profile Trapezoidal Enclosure For Tight Spaces
• Load-rated 3/8" Rigging Points
• No Handles for Clean Appearance
• Barrier Strip Input on Steel Input Panel

DESCRIPTION

The CPL42 is a small and versatile, two-way full-range bass reflex loudspeaker system engineered for installation in theaters, houses of worship and corporate applications. CPL systems may be ordered to match your specific applications. There is a choice of two HF horns for the CPL42. The 90 x 40 (CPL42-94) and the 60 x 40 (CPL42-64) horns are both rotatable for narrower horizontal coverage or for vertical mounting. CPL systems may be ordered with a variety of Tuf-Coat™ finishes - black with a black perforated steel grille, white with removable white grille cloth covering the grille, and unfinished wood with removable brown grille cloth covering the metal grille. Five year limited warranty.

OPTIONS:
• CPL42-94B = black Tuf-Coat™ finish,
• CPL42-94W = white Tuf-Coat™ finish,
• CPL42-94U = unfinished ready to paint or stain
Grille: white has white cloth covering,
   unfinished has brown cloth covering
ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The loudspeaker system shall be a two-way, full-range bass reflex trapezoidal design with one 12 in. Ferrofluid-cooled woofer and one 1 in. exit HF driver with a titanium diaphragm mounted to a 90° HF fiberglass horn. Drivers shall be connected to an integral crossover with a crossover frequency of 2 kHz and integral over-current protection circuitry using high positive current coefficient resistors. There shall be one five-terminal barrier strip input connector with built-in jumpers for bi-amplified connection. The loudspeaker enclosure shall be 13-ply Baltic birch plywood with a 16 gauge perforated steel grille {with a white {{brown}} cloth cover} and {{unfinished.}} finished with black Tuf-Coat™ {white} finish. The system shall have an amplitude response of 70 Hz to 18 kHz (+/- 5 dB), input capability of 40V RMS, 97 dB sensitivity at one meter and 2.83V / 8 ohms nominal impedance. The nominal dispersion shall be 80° H x 35° V from 2 kHz to 10 kHz. The loudspeaker shall be 23.9 in. (608 mm) H x 14.7 in. (373 mm) W (front) x 9.2 in. (234 mm) W (rear) x 14.75 in. (375 mm) D and weigh 53.5 lbs (24.3 kg).

Specifications subject to change without notice.