CVS6 - PRELIMINARY DATA



Product Description

The Tannoy CVS6 is a full bandwidth ceiling speaker system. The design comprises a 150mm (6.00”) mid bass driver with a coaxially mounted 19mm (0.75”) high frequency section mounted in a vented, injection moulded, paintable front baffle manufactured from UV/weather resistant UL94V-0 ABS material.

The mineral loaded polypropylene cone material and nitrile rubber surround enhance durability and long-term reliability. This compact unit is specifically designed for applications requiring the combination of excellent sonic quality for music and speech reinforcement and exceptional reliability.

The CVS6 is equipped with a low insertion loss 60W line transformer easily configurable to the following settings via front baffle mounted rotary tapping switch:

70V systems: 60W / 30W / 15W / 7.5W / OFF & low Impedance operation
100V systems: 60W / 30W / 15W / OFF & low Impedance operation

The CVS6 is supplied with an integral zinc-plated steel back can, with recessed termination box, to satisfy the vast majority of installation application requirements. The removable locking connector has screw terminals for secure wire termination and "loop through" facility. Strain relief is provided by a clamping mechanism for use with plenum rated cable or conduit. Security toggle clamps make for quick and easy installation, while two tile support rails and one C-ring are also included in the package. A plaster (mud) ring is available as an optional accessory.

Features

- 150mm (6.00") robust design transducer for greater durability 19mm (0.75") coaxially mounted high frequency unit
- Wide dispersion for optimum coverage.
- Easily accessible tapping switch on front baffle.
- Low insertion loss 60W line transformer
- Packaged with tile rails and C-ring for quick & easy installation and simple stocking logistics
- Safety agency ratings (pending) UL-1480, UL2043 and CE
- Five year warranty

Applications

- Multi-zone foreground music & paging systems
- Boardrooms & offices
- Business music systems
- Airports, convention centres, hotels
- Reception / waiting rooms
- Houses of worship
- Retail outlets / shopping malls
- Lounges / bars
- Cruise ships
- Courtrooms

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CVS6

TECHNICAL SPECIFICATIONS

System	CVS6
Frequency Response (-3dB) (1)	79Hz - 21kHz
Frequency Range (-10dB) (1)	60Hz - 24kHz
System Sensitivity (1W @1m) (2)	91dB (1W = 2.45V for 6Ω)
Nominal Coverage Angle	90 degrees conical
Coverage Angle (1kHz to 6kHz)	93 degrees
Directivity Factor (Q)	7.7 averaged 1kHz to 6kHz
Directivity Index (DI)	8 averaged 1kHz to 6kHz
Rated Maximum SPL	109dB (average) 115dB (peak)
Power Handling (3)	
Average	60W
Programme	120W
Peak	240W
Recommended Amplifier Power	120W @ 6Ω
Nominal Impedance	6Ω
Transformer Taps	
(via front rotary switch) 70V	60W / 30W / 15W / 7.5W / OFF & low impedance operation
100V	60W / 30W / 15W / OFF & low impedance operation

Distortion	2nd Harmonic	3rd Harmonic
1% Full Power		
250Hz	0.439%	0.140%
1kHz	0.396%	0.458%
10kHz	0.235%	0.023%
10% Full Power		
250Hz	1.16%	0.214%
1kHz	1.014%	0.685%
10kHz	0.944%	0.047%

Crossover Point	2.5kHz

Notes
(1) Average over stated Bandwidth. Measured in an IEC baffle in an Anechoic Chamber
(2) Unweighted Pink noise input, measured at 1m on axis
(3) Long term power handling capacity as defined in EIA - 426B test

Transducers

Low Frequency	150mm (6.00") Mineral Loaded polypropylene ICT™
High Frequency	19mm (0.75")

Physical

Enclosure	
Back can	Zinc plated steel
Baffle	Reflex loaded UL 94V-0 rated ABS
Grille	Steel, with weather resistant coating
Safety Features	Safety ring located at rear of enclosure for load bearing safety bond
Clamping Design	Security toggle clamp

Back Can

Cable Entry Options	Cable clamp & squeeze connector for conduit up to 22mm
Connectors	Removable locking connector with screw terminals with "loop through" facility
Safety Agency Ratings (pending)	UL-1480, UL-2043, CE
Hole Cutout Diameter	250mm
Dimensions Bezel diameter	279.5mm (11.01”)
Front of ceiling to rear of back can	246.5mm (9.70”)
Front of ceiling to top of safety loop	258.5mm (10.18”)
Net Weight (ea)	4.75kg
Included Accessories	C Ring, tile bridge, paint mask, cutout template, grille
Optional Accessories	Plaster (mud) ring

Architectural Specifications

The Ceiling Monitor System shall consist of a 150mm (6.00") mineral loaded mid bass driver with coaxially mounted 19mm (0.75”) high frequency unit mounted in a vented, injection moulded, paintable front baffle in UL94V-0 ABS material.

The back can shall be constructed of zinc plated steel. A recessed termination box shall be integrated with the back can, a removable locking connector with screw terminals for secure wire termination with "loop through" facility shall be provided. Strain relief will be provided by a clamping mechanism for use with plenum rated cable or conduit. A safety ring is located on the rear of the back can for a load bearing safety bond.

Performance of the ceiling monitor shall meet or exceed the following criteria: The system shall have a conical coverage pattern of 90 degrees (1kHz to 6kHz). Frequency response measured on axis shall be 79Hz - 21kHz (-10dB from rated sensitivity, measured in an IEC baffle in an anechoic chamber) with no equalization. Sensitivity shall be 91dB (1W @ 1m). Long term power handling capacity as defined in EIA-426B test shall be 60W, recommended amplifier power 120W. The nominal system impedance shall be 6 Ohm (in low impedance setting).

The Ceiling monitor system shall be equipped with a 60 Watt high performance line transformer for use in 70.7 or 100 Volt distributed audio systems with 60, 30, 15, 7.5 Watt taps available. An easily accessible rotary switch located on the front baffle shall be available for selecting transformer and low impedance settings. A weather resistant perforated steel grill covers the transducer and switch.

Two support rails and one C-Ring shall be included with the ceiling monitor system.

The front face diameter shall not exceed 213mm (8.39"); overall depth from the front of the ceiling to the top of the safety loop shall not exceed 258.5mm (10.18"). The template cut out size shall be 250mm (9.84”).

The Ceiling Speaker System shall be the.....CVS6.

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