CMS 803DC PI





Features

- Advanced new Dual Concentric driver design utilizing Omnimagnet technology
- · Torus Ogive Waveguide device for improved broadband directivity
- · Improved time alignment and phase coherence, delivering even better sonic performance
- · High power and high sensitivity with extended frequency response and very low distortion
- Improved LF performance for applications where genuine bottom-end is a must
- Low insertion-loss, 60 watt line transformer for a more powerful and dynamic performance
- · Convenient front-tapping switch for settings
- · Magnetically-adhering grille system for easy custom painting and optional Arco designer grilles for minimal architectural impact
- Five-clamp self-aligning system
- UV resistant baffle and grille
- · Packaged with classic grille, tile rails and C-ring for quick and easy installation and simple stocking logistics

Applications

- · Voice Alarm Systems
- Multizone 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

Product description

The Tannov CMS 803DC PI is a full bandwidth, high power-handling and high sensitivity loudspeaker built around CMS 3.0 - the third generation of Tannov's revolutionary Ceiling Monitor System technology, Based on an all-new evolution of Tannov's proprietary Dual Concentric point-source driver, the CMS 803DC PI has been fundamentally re-engineered to deliver wider and more consistent broadband directivity, even greater intelligibility, and a more accurate and linear response.

The new Dual Concentric driver design features revolutionary Omnimagnet™ technology and unique patent-pending Torus Ogive Waveguide™ device, together providing more consistent and controlled directivity along with improved high frequency response. Improved time-alignment and greater coherence between LF and HF results in a wider sweet spot for enhanced performance both onand off-axis. The re-designed baffle provides a subtle extension to the waveguide effect for additional sonic benefits.

The CMS 803DC PI also features extra clamp extension to accommodate thicker ceiling panels, and a locking design that prevents inadvertent over-screwing. Magnetic grille attachment enables easy removal and fitting for custom painting and tapping changes with grilles now available as either traditional style (inset in bezel) or new Arco™ style which conceals the entire unit for more architectfriendly aesthetic appeal.

The CMS 803DC PI utilizes a 16 ohm driver, making it ideal for use in high performance lowimpedance systems (with optimized performance when used in conjunction with Lab.gruppen LUCIA amplifiers). A low-insertion loss 60 W transformer is included, with convenient front bezel switching for taps at 60 W, 30 W and 15 W, with an additional 7.5 W tap for traditional constant voltage systems.

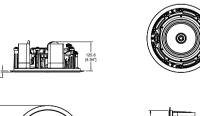
The CMS 803DC PI is supplied without a back-can. All models are supplied with classic grille, two tile support rails and one C-ring; Arco grille back-can and plaster (mud) ring are available as optional accessories.

Physical data

Bezel diameter: 319.0 mm (12.56") Hole Cutout Diameter: 295.0 mm (11.61")

Front of ceiling surface Front of accessory 125.6 mm (4.94") to rear of speaker unit: backcan bezel to top

of safety loop: 168.5 mm (6.63")











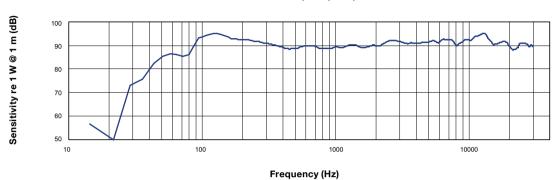




CMS 803DC PI

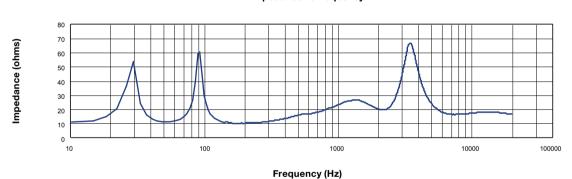
Performance measurements





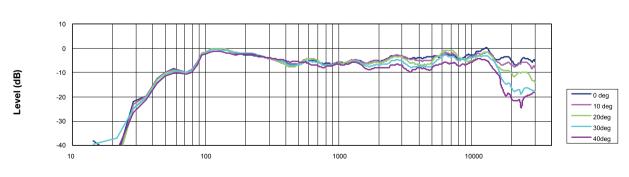
Anechoic Frequency Response

Impedance vs frequency



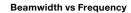
Impedance

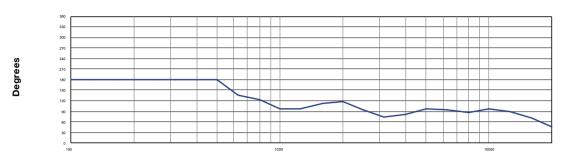
Off-axis Frequency Response



Frequency (Hz)

Performance measurements

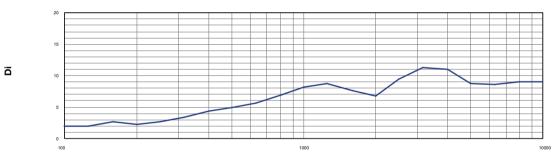




Frequency (Hz)

Beamwidth

Directivity Index (DI)

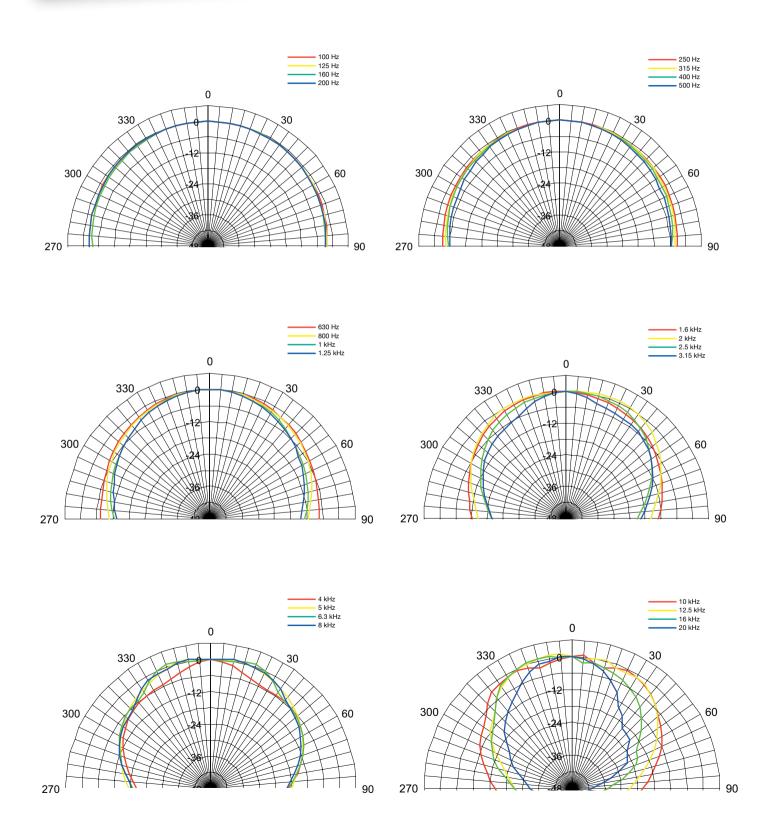


Frequency (Hz)

Directivity Index

CMS 803DC PI

Polar plots (1/3 octave)



CMS 803DC PL

Specifications

Frequency range (-10 dB) (1) 41 Hz - 35 kHz

System sensitivity (1 W @ 1 m) (2) 92 dB (1 W = 4 V for 16 Ohms)

Nominal Coverage Angle 90 degrees conical

Power Handling (3)

Average 90 W Programme 180 W Peak 360 W

Recommended Amplifier Power 180 W @ 16 ohms

Nominal Impedance (Lo, Z) 16 ohms

Rated maximum SPL

Average 112 dB Peak 118 dB With THP60 - Average 110 dB

Transformer Taps (via front rotary switch)

60 W (83 Ω) / 30 W (165 Ω) / 15 W (330 Ω) / 7.5 W (660 Ω) /

OFF & low impedance operation

100 V 60 W (165 Ω) / 30 W (330 Ω) / 15 W (660 Ω) /

OFF & low impedance operation

Transducers

Dual Concentric point source driver 1 x 200 mm (8.0") Dual Concentric driver, using Omnimagnet technology

Low Frequency 44 mm (1.75") voice coil, treated multi fiber paper pulp cone

25 mm (1.00") PEI dome **High Frequency**

Physical

Enclosure

Backcan Zinc plated steel

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

Security toggle clamp Clamping Design

Min / Max clamping range 9.5 mm (0.37") /

60 mm (2.36") Recommended clamp torque: 1.5 Nm

Backcan Options Separate backcan for pre-installation

Cable Entry Options Cable clamp & squeeze connector for conduit up to 22 mm

Conduit Knockouts on PI Backcan 3 Sets of horizontal positions 19 / 22 / 28 mm (0.75" / 0.87" / 1.10")

295 mm (11.61")

Connectors Removable locking connector with screw terminals with

"loop through" facility

Compliance UL-1480, UL-2043, CE

Dimensions

Bezel diameter 319.0 mm (12.56") Front of ceiling surface to rear of 125.6 mm (4.94") speaker unit

Front of accessory backcan bezel to

168.5 mm (6.63") top of safety loop

Hole cutout diameter (all models)

Net Weight (ea) CMS 803DC PI 4.9 kg (10.80 lbs) Pl Backcan 4.0 kg (8.81 lbs)

C-Ring, tile-bridge kit, paint mask, cut-out template, grille **Included Accessories**

Optional Accessories Plaster (mud) ring, Arco grille

Packed Quantity

Ordering Information Part Number

8001 7480 CMS 803DC PI

White /

8001 4650

CMS 803 Zinc Plated Plaster (Mud) Ring Steel

8001 7570 CMS 803 PI Backcan

Zinc Plated Steel

Colour

Paintable

8001 7900

CMS 803 Arco Grille

White / Paintable





UL-1480.

- Average over stated bandwidth. Measured in an IFC baffle in an Anechoic Chamber
- Unweighted pink noise input, measured at 1 metre on axis
- Long term power handling capacity as defined in FIA - 426B test

A full range of measurements, performance data, CLF and Ease™ Data for CMS 803DC PI can be downloaded from www.tannovpro.com

Tannoy operates a policy of continuous research and development. The introduction of new materials or manufacturing methods may introduce variations in actual performance; however, actual performance always will equal or exceed the published specifications, which Tannoy reserves the right to alter without prior notice. Please verify the latest specifications when dealing with critical applications.

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