The CMS 503DC LP is a full bandwidth 240-Watt high sensitivity loudspeaker that utilises our third generation Ceiling Monitor System technology (CMS 3.0). Thanks to an all-new proprietary 5" Dual Concentric point-source driver with Omnimagnet technology on a Torus Ogive Waveguide, the UL certified CMS 503DC LP delivers wide and consistent broadband directivity with enhanced intelligibility – plus highly accurate and linear response.

Optimised for Installation

Specifically designed with a 4 way self-aligning clamp system for fast, simple and cost effective installation, CMS 503DC LP features an ultra-shallow back can for applications where cavity space is limited, and a removable locking screw terminal connector with loop-thru functionality. A low-insertion loss 30 W transformer with convenient front panel tap switching, paintable powder coated steel mesh grille with dust protection, two tile support rails and one C-ring are all included. An Arco style grille, which conceals the entire unit for aesthetic purposes, and plaster (mud) ring are available separately.
CMS 3.0
CMS 503DC LP

5” Full Range Ceiling Loudspeaker with Dual Concentric Driver for Installation Applications (Low Profile)

- Optional ARCO designer grilles available for minimal architectural impact
- Self-aligning 4 way clamp mounting system
- Mounting C-ring and ceiling tile rails included
- 10-Year Warranty Program*
- Designed and engineered in England

LAB GRUPPEN Ready
The CMS 503DC LP is finished in semi matt white and optimised for use with LAB GRUPPEN LUCIA amplifiers, which accommodate up to 8 CMS Series loudspeakers per channel.

You Are Covered
We always strive to provide the best possible Customer Experience. Our products are made in our own MUSIC Tribe factory using state-of-the-art automation, enhanced production workflows and quality assurance labs with the most sophisticated test equipment available in the world.

As a result, we have one of the lowest product failure rates in the industry, and we confidently back it up with a generous Warranty program.

*Warranty details can be found at musictrb.be.
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Frequency Response Sensitivity 1 W / 1 m

Impedance
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Horizontal Beamwidth
Install

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Polar Plots
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Dimensions

[Diagram showing dimensions]
# Technical Specifications

## Performance

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency response (-3 dB)</td>
<td>88 Hz - 22 kHz</td>
</tr>
<tr>
<td>Frequency range (-10 dB)</td>
<td>77 Hz - 24 kHz</td>
</tr>
<tr>
<td>Frequency range (-10 dB)</td>
<td>15 Hz - 24 kHz</td>
</tr>
<tr>
<td>System sensitivity (1 W @ 1 m)</td>
<td>89 dB (1 W = 4 V for 16 Ohms)</td>
</tr>
<tr>
<td>Nominal coverage angle</td>
<td>90 degrees conical</td>
</tr>
<tr>
<td>Power handling (W)</td>
<td></td>
</tr>
<tr>
<td>Average</td>
<td>60 W</td>
</tr>
<tr>
<td>Programme</td>
<td>120 W</td>
</tr>
<tr>
<td>Peak</td>
<td>240 W</td>
</tr>
<tr>
<td>Recommended amplifier power</td>
<td>120 W @ 16 Ohms</td>
</tr>
<tr>
<td>Nominal impedance (Lo, Z)</td>
<td>16 Ohms</td>
</tr>
</tbody>
</table>

## Transducers

<table>
<thead>
<tr>
<th>Type</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual concentric point source driver</td>
<td>1 x 130 mm (5.0&quot;) Dual Concentric driver, using Omnimagnet technology</td>
</tr>
<tr>
<td>Low frequency</td>
<td>35 mm (1.38&quot;) voice coil, treated multi fiber paper pulp cone</td>
</tr>
<tr>
<td>High frequency</td>
<td>20 mm (0.79&quot;) PEI dome</td>
</tr>
</tbody>
</table>

## Physical

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure</td>
<td>Zinc plated steel</td>
</tr>
<tr>
<td>Baffle</td>
<td>Reflex loaded UL 94V-0 rated ABS</td>
</tr>
<tr>
<td>Grille</td>
<td>Steel, with weather resistant coating</td>
</tr>
<tr>
<td>Nominal coverage angle</td>
<td>90 degrees conical</td>
</tr>
<tr>
<td>Safety features</td>
<td>Safety ring located at rear of enclosure for load bearing safety bond</td>
</tr>
<tr>
<td>Clamping design</td>
<td>Security toggle clamp Min / Max clamping range 9.5 mm (0.37&quot;) / 60 mm (2.36&quot;) Recommended clamp torque: 1.5 Nm</td>
</tr>
<tr>
<td>Transformer taps (via front rotary switch)</td>
<td>30 W (165 Ω) / 15 W (330 Ω) / 7.5 W (660 Ω) / 3.75 W (1320 Ω) / OFF &amp; low impedance operation</td>
</tr>
<tr>
<td>Blind mount (BM)</td>
<td></td>
</tr>
<tr>
<td>Pre install (PI)</td>
<td></td>
</tr>
<tr>
<td>Cable entry options</td>
<td>Cable clamp &amp; squeeze connector for conduit up to 22 mm</td>
</tr>
<tr>
<td>Conduit knockouts on PI Backcan</td>
<td></td>
</tr>
<tr>
<td>Connectors</td>
<td>Removable locking connector with screw terminals with “loop through” facility</td>
</tr>
<tr>
<td>Compliance</td>
<td>UL-1480, UL-2043, CE</td>
</tr>
</tbody>
</table>
**Physical**

**Dimensions**
- Bezel diameter: 274.0 mm (10.79")
- Front of ceiling to rear of backcan: 98.6 mm (3.88")
- BM model: Front of ceiling to rear of backcan: —
- BM model: Front of ceiling to top of safety loop: —
- PI model: Front of ceiling surface to rear of speaker unit: —
- PI model: Front of accessory backcan to top of safety loop: —
- Hole cutout diameter (all models): 253.0 mm (9.96")

**Net weight (ea)**
- CMS 503DC BM: 4.7 kg (10.36 lbs)
- CMS 503DC PI: —
- PI Backcan: —

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

**Optional accessories**
- Plaster (mud) ring, Arco grille

**Packed quantity**
- 2

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

A full range of measurements, performance data, CLF and Ease Data for CMS 503DC/CMS 503DC LP can be downloaded from www.tannoypro.com.

TANNROY 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 TANNROY reserves the right to alter without prior notice. Please verify the latest specifications when dealing with critical applications.
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