Cyclone 55

Key features:

- Passive dual 5" two-way surface mount loudspeaker
- Compact fibreglass enclosure
- Non-resonant structure
- Wide dispersion pattern
- Marine-grade stainless steel fittings
- UV-resilient paint
- Weather-protected with an IP-55 rating (BS EN 60529:1992 +A2:2013)

Applications:

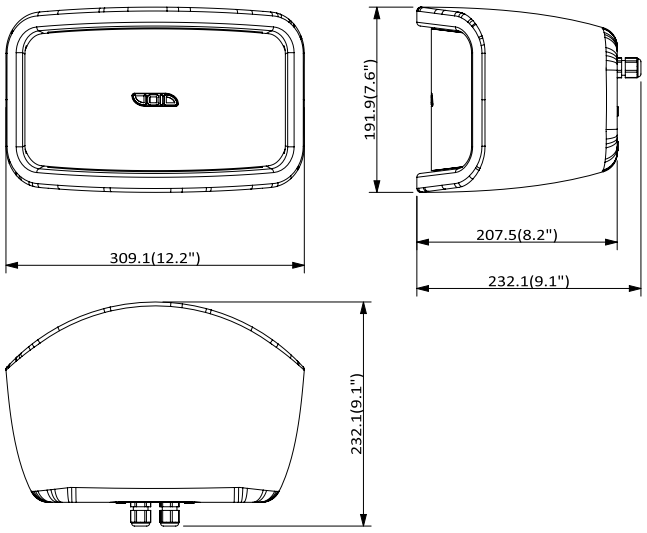
- Bar, club, lounge
- Outdoor
- Cruise ships
- Hotel restaurant

The Cyclone 55 offers high levels of fidelity and definition from an ultra-compact and visually appealing format, in a weather-protected package with an IP-55 rating that is ideally suited to coastal outdoor environments, ranging from beach bars, resorts and cruise ships, to hotels and public spaces. With a dedicated bracket, the Cyclone 55 can be installed quickly and securely, and its wide range of adjustment allows the loudspeaker's wide dispersion pattern to be accurately aimed at large audiences, using the least number of loudspeakers.

Specifications

Frequency response	70 Hz - 23 kHz ±3 dB
Efficiency[1]	92 dB 1W/1m
Crossover points	3.6 kHz passive
Nominal impedance	16 Ω
Power handling[2]	120 W AES
Maximum output[3]	110 dB cont, 114 dB peak
Driver configuration	2 x 5" LF, 2 x 1" soft dome HF tweeters
Dispersion	110°H x 70°V
Connectors	Phoenix connectors with link out
Weight	3.2 kg (7.1 lbs)
Enclosure	Fibreglass
IP rating	IP-55 (BS EN 60529:1992 +A2:2013)
Rigging	Wall bracket included Type 51 plate
Finish	Smooth cellulose

[1] Measured in half space [2] AES2 - 1984 compliant [3] Calculated



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Version 1.0

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Architectural specifications

The loudspeaker shall be a passive two-way system consisting of two high power 5" (125 mm) direct radiating reflex loaded low frequency (LF) transducers and 1" (25 mm) diameter co-axial soft dome tweeters high frequency (HF) transducers mounted in an open V-baffle enclosure.

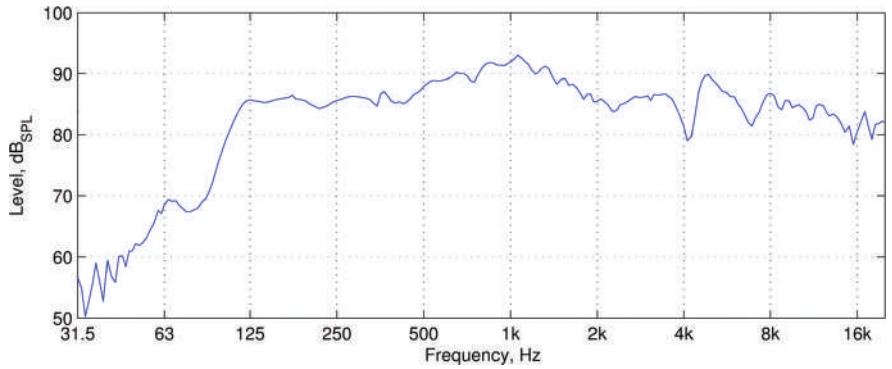
The co-axial transducer shall be constructed on a cast aluminium frame, with the low frequency transducer consisting of a polycarbonate LF cone with its dust cap removed and a 25.4 mm (1") voice coil, wound with copper wire on a high quality Kapton voice coil former, for high power handling and long-term reliability. The high frequency soft dome transducer shall be bolted through the rear of the magnet structure belonging to the low frequency transducer to form a coaxial drive unit. The sound will project through the centre of the low frequency transducer and uses the 125 mm (5") baffle diameter to achieve pattern control and low distortion.

Performance specifications for a typical production unit shall be as follows: the usable on-axis bandwidth shall be 70 Hz to 23 kHz (±3 dB) and shall average 110° directivity pattern in the horizontal axis and 70° in the vertical one (-6 dB down from on-axis level) from 1 kHz to 12 kHz; maximum SPL of 114 dB peak measured at 1 m using IEC268-5 pink noise. Power handling shall be 120 W AES at a rated impedance of 16 Ω. The system shall be powered by its own dedicated power amplification module with DSP management.

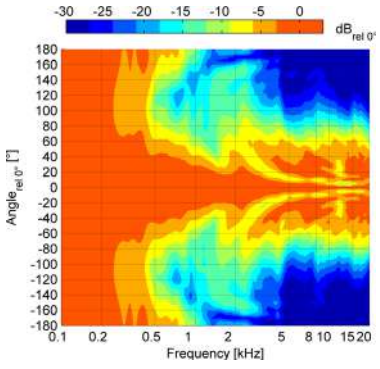
The wiring connection shall be via a single removable lockable wiring connector with four screw-down terminals (one pair for input and one pair for loop-out to another loudspeaker) to provide secure wiring and to allow for pre-wiring of the connector before the installation. This connector should then screw lock to the enclosure to ensure secure attachment.

The enclosure, of any RAL colour, shall be of a moulded fibreglass reinforced plastic construction with a smooth cellulose finish and shall include integral threaded inserts for the fitment of wall and ceiling mounting hardware. The external dimensions of the cabinet are (H) 192 mm x (W) 309 mm x (D) 207 mm (7.6" x 12.2" x 8.1"). Weight shall be 3.2 kg (7.1 lbs).

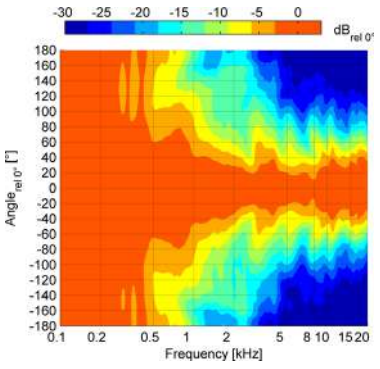
The loudspeaker shall be the Void Acoustics Cyclone 55.



Frequency response (Anechoic measurement)



Horizontal directivity isobars



Vertical directivity isobars

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