

Cyclone 4

Key features:

- Passive 4" two-way loudspeaker
- Compact ABS enclosure
- Non-resonant structure
- Marine grade stainless steel grille and fasteners
- Marine grade aluminium bracket
- UV-resilient paint
- Weather-protected with an IP-55 rating⁴

Applications:

- Bar, club, lounge
- Hotel, restaurant
- Boats, yachts
- Residential
- Poolside
- Holiday resorts



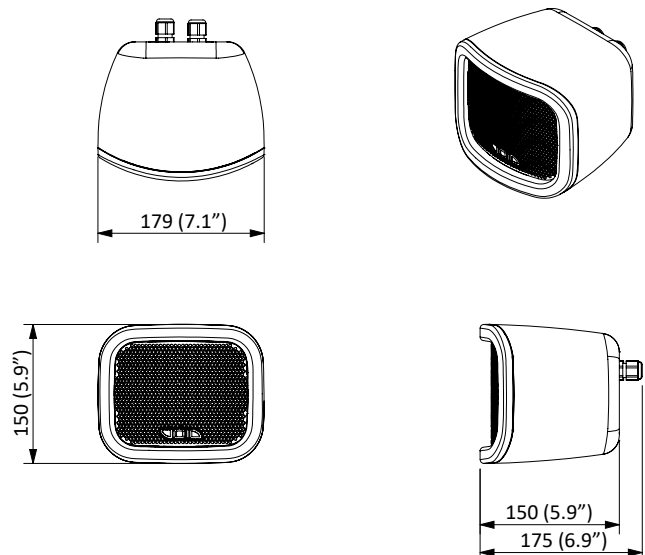
Providing exceptional sound quality in an ultra-compact IP-55 rated enclosure, Cyclone 4 is the latest addition to this extremely popular range. With its weather-protected casing, UV resilient paint and marine grade aluminium bracket, Cyclone 4 is the perfect audio solution for all-weather applications.

Cyclone 4 is the most compact loudspeaker within the range and contains a single 4" LF transducer with a 0.75" soft dome HF tweeter. Supplied as standard with a conventional wall bracket, the Cyclone 4 can also make use of the wide range of brackets that are available for the larger models, allowing for a quick and easy installation.

Specifications

Frequency response	90 Hz - 17.8 kHz ± 3 dB
Efficiency ¹	87 dB 1W/1m
Nominal impedance	16 Ω
Power handling ²	30 W AES
Maximum output ³	101 dB cont, 107 dB peak
Driver configuration	1 x 4" LF, 1 x 0.75" soft dome HF tweeter
Dispersion	80°H x 80°V
Connectors	Phoenix connectors with link out
Weight	1.3 kg (2.7 lbs)
Enclosure	ABS
IP rating ⁴	IP-55
Rigging	Wall bracket included Type 51 plate
Finish	Smooth cellulose

¹ Measured in free space, ² AES2 - 1984 compliant, ³ Calculated, ⁴ BS EN 60529:1992 +A2:2013



Cyclone 4

Architectural specifications

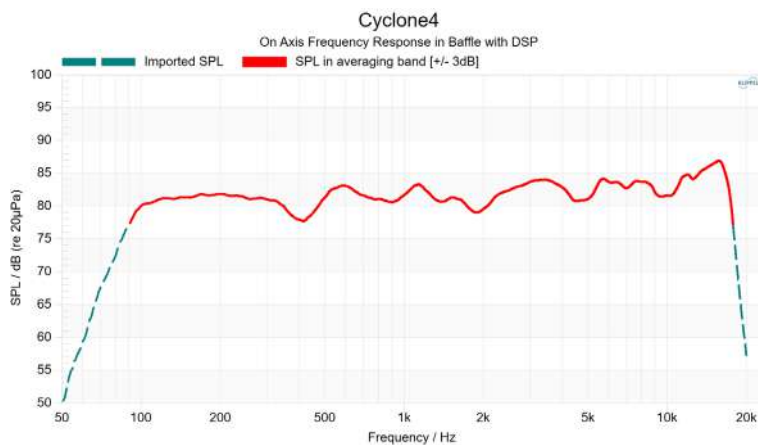
The loudspeaker shall be a passive two-way system consisting of one 4" (102 mm) direct radiating reflex loaded low frequency (LF) transducer and one 3/4" (25 mm) diameter co-axial soft dome tweeter high frequency (HF) transducer. The co-axial transducer shall be constructed on a cast aluminium frame, with the low frequency transducer consisting of a polypropylene LF cone with its dust cap removed and a 25.5 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 102 mm (4") 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 90 Hz to 17.8 kHz (± 3 dB) and shall average 80° directivity pattern in the horizontal axis and 80° in the vertical one (-6 dB down from on-axis level) from 1

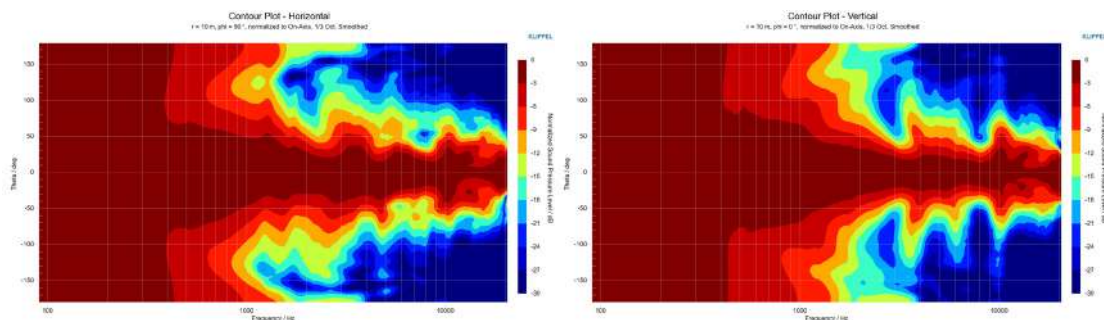
kHz to 12 kHz; maximum SPL of 107 dB peak measured at 1 m using IEC268-5 pink noise. Power handling shall be 30 W AES at a rated impedance of 16 Ω . The system shall be powered by its own dedicated power amplification module with DSP management.

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 an injection moulded ABS 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 shall be (H) 150 mm x (W) 179 mm x (D) 175 mm (5.9" x 7.1" x 6.9"). Weight shall be 1.3 kg (2.7 lbs).

The loudspeaker shall be the Void Acoustics Cyclone 4.



Frequency response (Anechoic measurement)



Horizontal directivity isobars

Vertical directivity isobars