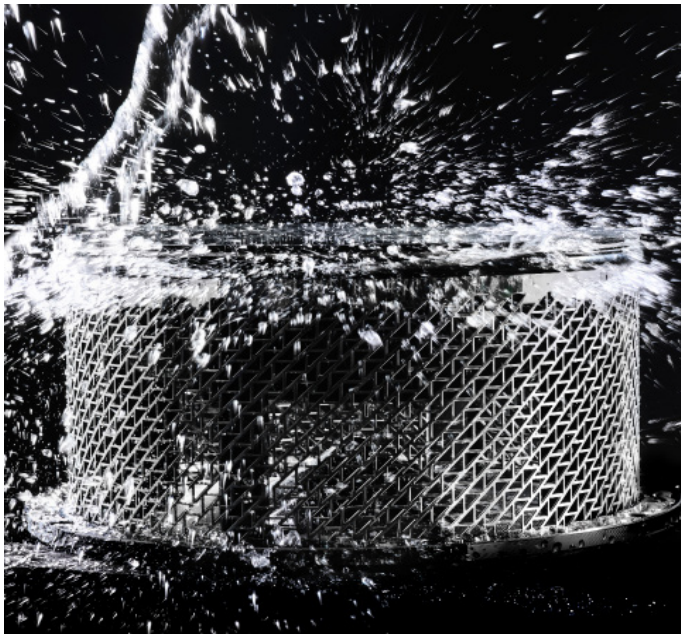
MarineSpeaker

Waterproof loudspeaker



Features

- 360 degrees loudspeaker
- 2 Way coaxial speaker 5,25”
- 100W Class D amplifier
- Acoustic omnidirectional diffuser
- DSP integrated Balanced line input
- IP controlable
- IP Grade: IP56

General

The Arthur Holm motorized 360-degree marine speaker is designed for high-quality audio on yachts with a marine-graded design and materials for seamless integration into jacuzzis and pool areas.
This retractable self-powered speaker system appears when the audio is required, providing high-quality sound. Its integrated drain system allows water splashes from jacuzzi and swimming pools to pass through the speaker without changing the frequency response.
Its horizontal omnidirectional audio dispersion makes the speaker perfect for installations in open areas like the deck and the central part of the wet area providing a balanced audio distribution.

The seamless and unobstructive adaption of the speaker to make it easy to fit-in has been made possible with its “ready to be veneer design” allowing upholstering of the top plate with different types of materials, from ship deck wood to other similar materials and, therefore, making the speakers invisible when in retracted position.
An external control unit consist of a 100W class D Arthur Holm amplifier along with a DSP system and balanced analog audio input.
The whole system can be controlled through an ethernet port to achieve central control of the speakers for smooth integration into the yacht leisure control.
The entire system is powered by a 30V medical grade power supply along with a high sensitivity differential switch (10mA).

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Technical Specifications

Audio Features	
Driver Type: Coaxial 5.25” + 1” Tweeter	
Power Handling: 100W. Class-D Amplifier	
360° dispersion	
Balanced analogue audio input. Level line 0dB	
Internal DSP	
Frequency Range: 70Hz – 20KHz. (+-5dB)	
Materials	
Brushed stainless steel	
Steel	
Finishing	
Speaker driver mat black	
Speaker diffuser mat black, non-reflecting	
Cover plate in brushed stainless steel / mat black / white	
Black housing	
Connectivity	
USB Port for software update	
Via multicore cable and 7-pin waterproof connector	
Engine	
RJ45 CAT6 IP	Control by AHnet protocol

Electrical	
External power supply	100-240 Vac, 50/60Hz. 30VdC
Power consumption	90W
Mechanical	
Case Dimensions:	
Upper cover plate	Ø 264 x 3 mm [10.39" x 0.11"]
Housing below the table	Ø 251 x 214,50 mm [9.88" x 8.44"]
Weight	8 Kg /17.63 Lbs
Shipping Dimensions:	
Weight	8.5 Kg / 18.73 Lbs
Shipping Box	36,5 x 36,5 x 37 cm [14.37" x 14.37" x 14.56"]

Safety

- Medical grade power supply
- 10mA differential switch, in the control box
- Ground connection terminal, in the control box
- Ground connection terminal on the speaker
- Electronic detection of engine entrapment
- Upper plate is released in case of entrapment

Options

- Dante: (Optional with adapter)

Warranty

- 2 years general warranty

Consultants, architects and engineers specifications

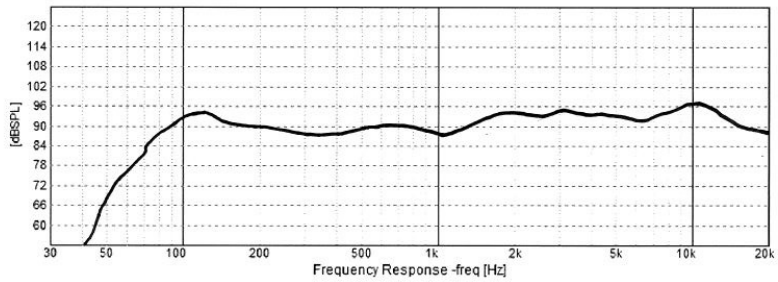
The loudspeaker shall be motorized to be raised and lowered into its housing; the housing shall function as a mounting support with a proper draining system. The speaker shall be prepared for additional material to be added on top of it to blend into the rest of the interior design.

The motorized active loudspeaker shall be two-way, the system consisting of a 5.25” coaxial omnidirectional transducer with a 100W class-D amplifier and DSP technology integrated, omnidirectional acoustic diffuser.

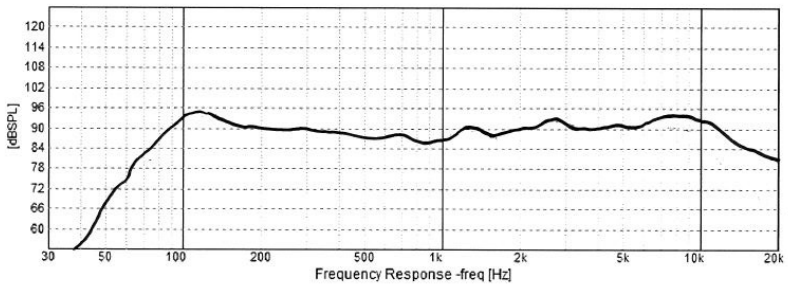
The dispersion shall be 360° and on-axis frequency response shall be 70Hz-20kHz +/- 5dB.
The System shall be controlled through IP (AHnet protocol).
The system shall consist in two modules: the motorized speaker and its control and amplification box that shall be united by means of a 6m long multi-pair cabling.

The system shall provide ETHERNET (For remote control), 0dBV balanced analog line input and a USB port (to update the FW).
The system shall be configured by using the wireless AHlink app.

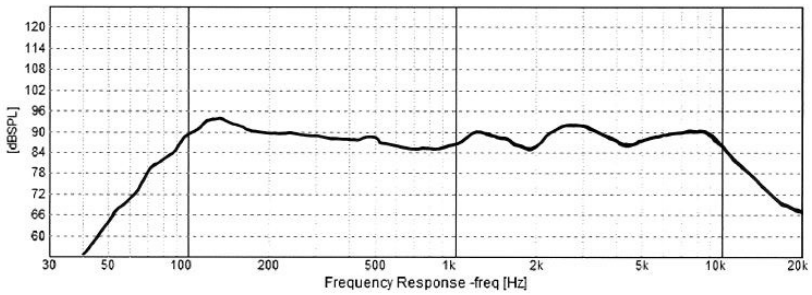
Response vertical 0º:



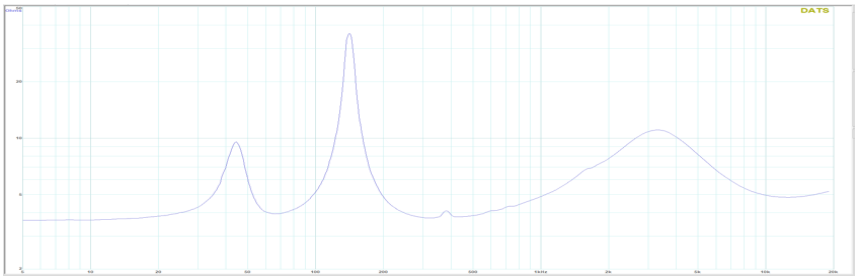
Response vertical 25º:

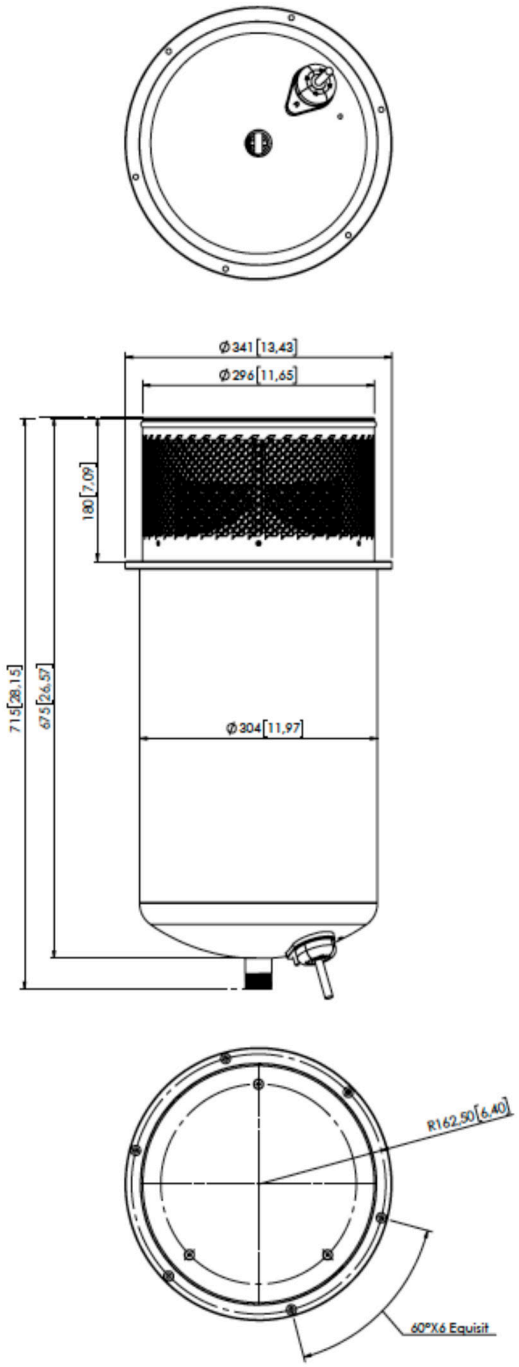


Response vertical 50º:

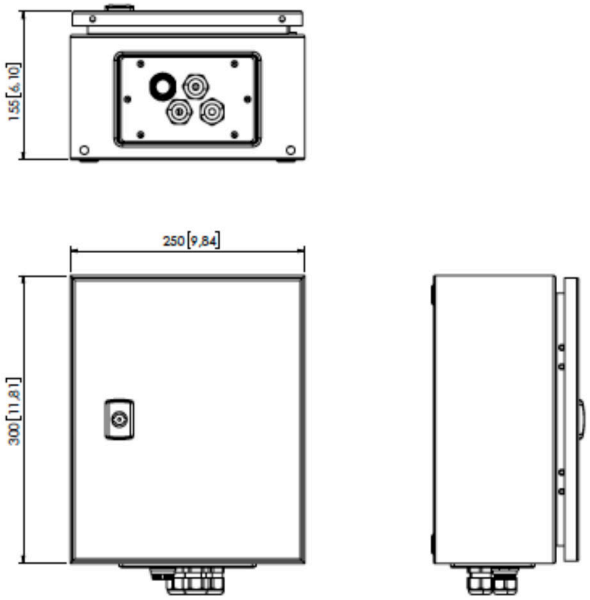


Impedance curve:

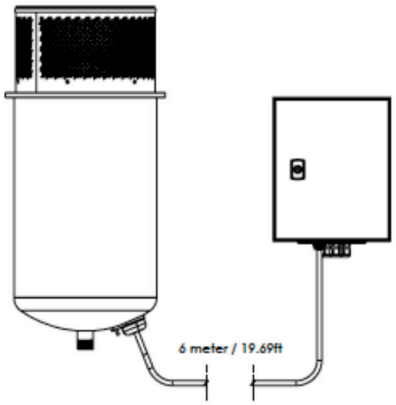




AMPLIFIER CABINET



ELECTRIC SCHEME



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