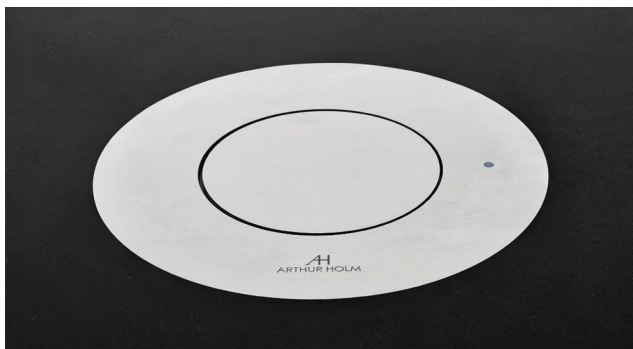


DynamicSpeaker

Motorised loudspeaker for integration in desks



FEATURES

- 360 degrees loudspeaker
- 4" 2-Way coaxial speaker, bass reflex
- 2 x 36W class-D bi-amplifier integrated
- Acoustic omnidirectional diffuser
- DSP integrated
- Balanced line input
- RS-422 controllable
- Near field audio reproduction
- Speech intelligibility enhancement
- Matching surface, ready for veneer
- Remotely controllable
- Wooden speaker enclosure
- Steel structure
- Low mechanical noise level
- AHlink wireless set-up interface
- Remote support interface
- External power supply

GENERAL

Motorised loudspeaker for integration in desks. Compact, omnidirectional 360 degrees Class-D active speaker, two way coaxial driver, integrated DSP technology. System controlled through AHnet and also through AHlink: a new wireless app for control and set-up.

The Arthur Holm DynamicSpeaker is designed to be hidden when not in use with a smooth, elegant and silent movement.

BENEFITS

- Natural sound direction
- Speech intelligibility
- High gain before feedback
- Close proximity to user
- Limited audio pollution
- Low ambient acoustic influence
- Balanced sound level distribution
- No building work required

TECHNICAL SPECIFICATIONS

Audio features

4” coaxial loudspeaker
Class-D 2-way bi-amplified
RMS power 2 x 36.5W
360° dispersion
Balanced analogue audio input. Level line +4dB
Internal DSP
Frequency response: 100Hz. - 10KHz. (± 7.5 dB)
Adjustable gain through AHnet (RS422 Protocol)
Mute function through AHnet (RS422 Protocol)

Materials

Brushed stainless steel
Steel
Aluminium
Wood

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
XLR-4 input

Engine

Control Up/Down	Capacitive touch control sensor on cover plate
RJ45 CAT6	Addressable RS422 control by AHnet protocol

Electrical

External power supply	100-240 Vac, 50/60Hz. 24VdC
Power consumption	90W

Mechanical

Case Dimensions	
Upper cover plate	Ø 264 mm [10.39”]
Weight	8 Kg 17.63 lbs

Shipping Dimensions

Weight	8.5 Kg 18.73 lbs
Shipping Box	36,5 x 36,5 x 37cm [14.37” x 14.37” x 14.57”]

ARCHITECT’S SPECIFICATIONS

The motorised active loudspeaker shall be two-way, in-surface system consisting of a 4” coaxial omnidirectional transducer mounted in a wooden ported enclosure with 2 x 36W class-D bi-amplifier and DSP technology integrated, omnidirectional acoustic diffuser. The mechanical housing shall be in steel with aluminum parts and stainless steel upper cover.

System controlled through AHnet and through AHlink (wireless app for control and set-up).

Input connection shall be made via a 4-pin lockable XLR connector, 2 E45 connectors with loop-through, 2 x USB and PCB block connectors.

Dispersion shall be 360° up to 10kHz. The on-axis frequency response shall be 100Hz-10kHz +/- 7dB and the

loudspeaker shall produce a maximum SPL of 105dB peak measured at 1 metre. Power handling shall be 74W AES, 104W peak.

The loudspeaker shall be equipped with two rotary switches for selection of address and set-ups, 2 x USB ports for firmware upgrades.

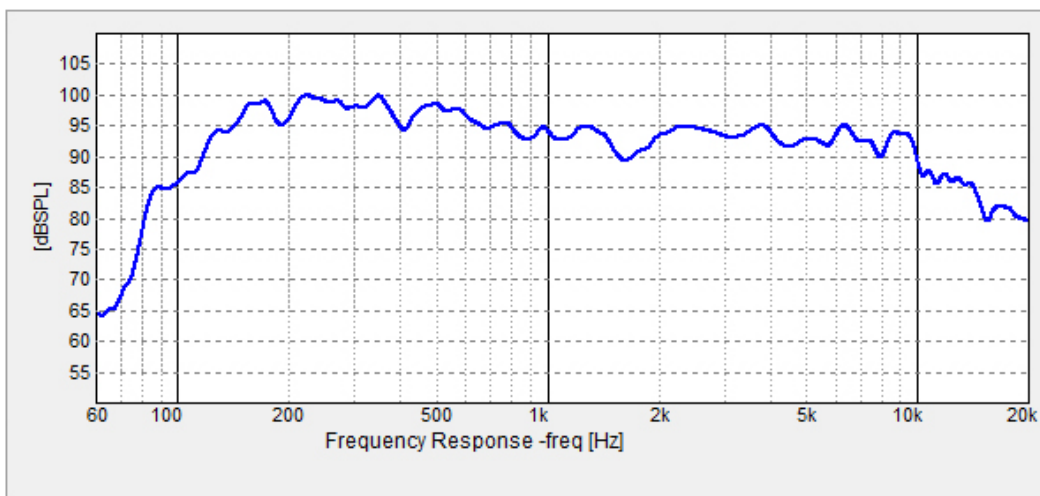
The mechanical movement shall be made using only one motor, a combination of a linear and circular movement shall move the transducer enclosure down, rotate it and lift up the transducer and the acoustic diffuser so the transducer is at level with the housing surface.

Dimensions (OD x D) shall be 264mm x 214.5mm [10.39” x 8.44”] closed. 264mm x 217.5 [10.39” x 8.56”] open. Weight shall be 8 kg (17.63lbs).

The loudspeaker shall be the Arthur Holm AHDSR42W.

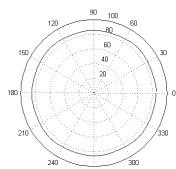
FREQUENCY RESPONSE

All measurements are taken with the speaker installed in a 1 m x 1 m wooden surface.

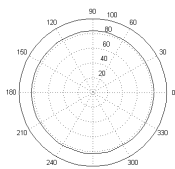


POLAR PATTERNS

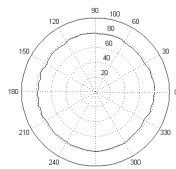
HORIZONTAL



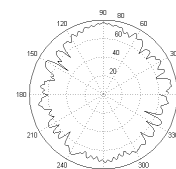
1 kHz



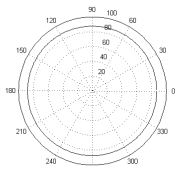
2 kHz



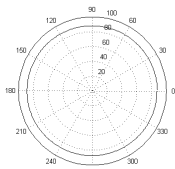
4 kHz



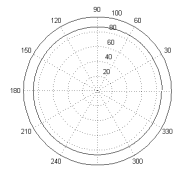
8 kHz



125 kHz



250 kHz

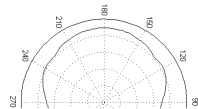


500 kHz

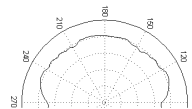
VERTICAL



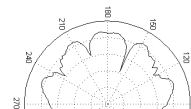
1 kHz



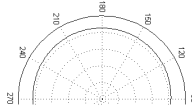
2 kHz



4 kHz



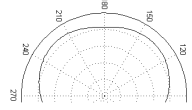
8 kHz



125 kHz

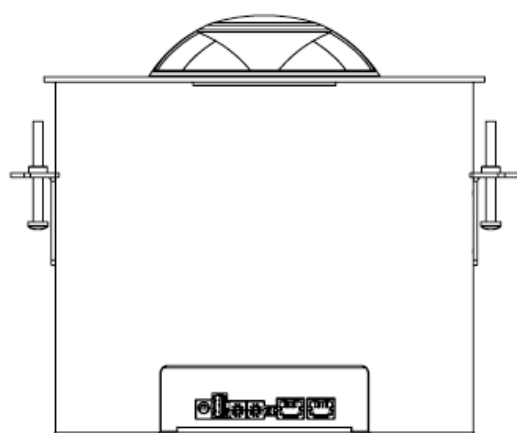


250 kHz



500 kHz

GENERAL DIMENSIONS



VIEW C
180,00°

