

Artcoustic^{ACC}

EVOLVE OWNERS MANUAL



Welcome to the world of Artcoustic!

Congratulations with your purchase of the Artcoustic Evolve Series. The Evolve Series is Artcoustic's most versatile range of products. Its slim line profile, combined with a powerful and articulated performance, makes it the ideal choice for high-end cinema, hi-fi and multi room audio installations. For an even more impressive performance, partner it with one of the Artcoustic subwoofers - an ideal setup for small and medium size cinema rooms.

The Evolve Series has been engineered to produce exceptional sound pressure level, normally only associated with typical professional audio products, and has been designed to ensure the utmost aesthetic residential pleasing options, all combined with literally thousands of cabinet and front screens colours.

The Evolve Series is a true all-rounder, whether you are looking for high end sound from two speakers in a stereo music setup, or multiple speakers for cinemas and multi room audio, the Evolve Series will fulfill all your audio needs.

Thank you for purchasing the Artcoustic Evolve Series.

All the best,
The Artcoustic Team

EVOLVE SERIES FEATURES

At Artcoustic, our product development team are always looking for innovative and ground-breaking ways to improve our products. We continually invest a huge amount of time and effort to make sure that Artcoustic deliver products at the top of their class, with regards to technological excellence and refined Scandinavian design.

Introducing the latest edition of the Evolve series – the Evolve Time Aligned Array is a precise and well-thought out solution for dealing with high-frequency array phase overlap. By carefully placing high frequency transducers within a mathematical and geometric calculated formula, the acoustically impossible is now possible.

The design has been optimised in a way that allows the product to achieve a near perfect response curve, without compromising on any of the existing high-end features including extreme sound pressure levels, sensitivity, extended frequency response, controlled directivity, exceptional speed and transient response. All arranged within a well-designed, slim line cabinet.

Artcoustic array advantages:

- Extended flat frequency response up to 20kHz
- Detailed and transparent sweet spot, with an almost magical ability of making the actual speakers acoustically disappear.
- A sophisticated and minimal cabinet design, with endless options to customise your speaker. Choose from an unlimited range of colours, matching screen covers or select your own artwork.
- High sensitivity and exceptional sound pressure level
- Low distortion
- Bench mark transient response
- Guided directivity, with near perfect response curve +/- 3dB over long distances
- Plug and play easy to install approach, eliminating installation mistakes and misunderstandings.

All in all, the Artcoustic array delivers incredible detail and airy sound which typical high end HIFI speakers only offer at short distances. The Artcoustic array delivers above and beyond providing a throw distance of well beyond 40 meters making this product a natural evolution within the Artcoustic portfolio of industry leading products.

Components Overview:

High Frequency driver:

Dual Ring Radiator diaphragm with highly linear suspension and low loss surrounds for high clarity and clean transient response. Copper caps for better HF extension and lower distortion and wave-guide centre plug, copper-clad aluwire.

Woofers:

Extra long excursion and aluminium Short Circuiting Ring, 4-layer voice coil, anodised aluminium for improved heat dissipation, combined with Distortion Reduced Motor.

Crossover:

6 dB/octave low pass and 12 dB/octave high pass filter.

SPECIFICATIONS EVOLVE

Evolve 3-1

Transducer:

LF-MF 3 x 3 inch cone, Symmetric Phase Aligned
HF 1 x 1 inch Dual Ring Radiator, Symmetric Phase Aligned

Crossover:

Low Pass Filter 6 dB/octave 1000 Hz High Pass
12 dB/octave 4000Hz

Connection:

Single Amped Gold Plated Push Terminals

Performance:

Operating Range 60 Hz (-3dB) to 40 kHz
Nominal Beamwidth Horizontal 90° Vertical 90°

Input Impedance Nominal Minimum 4 ohms

Sensitivity 1 Watt @ 4 ohm 91 dB Full Space, 94 dB Half Space

Long Term SPL 90 Watt 108 dB Full Space, 111 dB Half Space

Short Term (Damage) SPL 160 watt 111 dB Full Space, 114 dB Half Space

Recommended High Pass Filter =>100 Hz, 24 dB/octave

Weight 4 kg

Dimensions H: 370 W: 270 D: 72 mm

Finish:

Cabinet: Black, White, RAL, NCS, Tikkurila
Screen: Black, White, RAL, NCS, Tikkurila, Artcoustic Art Gallery

Evolve 6-3

Transducer:

LF-MF 6 x 3 inch cone, Symmetric Phase Aligned
HF 3 x 1 inch Dual Ring Radiator, Symmetric Phase Aligned

Crossover:

Low Pass Filter 6 dB/octave 1000 Hz High Pass
12 dB/octave 4000Hz

Connection:

Single Amped Gold Plated Push Terminals

Performance:

Operating Range 80 Hz (-3dB) to 40 kHz
Nominal Beamwidth Horizontal 80° Vertical 35°

Input Impedance Nominal Minimum 5 ohms

Sensitivity 1 Watt @ 5 ohm 95 dB Full Space, 98 dB Half Space

Long Term SPL 180 Watt 116 dB Full Space, 119 dB Half Space

Short Term (Damage) SPL 300 watt 119 dB Full Space, 122 dB Half Space

Recommended High Pass Filter =>100 Hz, 24 dB/octave

Weight 5 kg

Dimensions H: 370 W: 270 D: 72 mm

Finish:

Cabinet: Black, White, RAL, NCS, Tikkurila
Screen: Black, White, RAL, NCS, Tikkurila, Artcoustic Art Gallery

Evolve 4-2

Transducer:

LF-MF 4 x 3 inch cone, Symmetric Phase Aligned
HF 2 x 1 inch Dual Ring Radiator, Symmetric Phase Aligned

Crossover:

Low Pass Filter 6 dB/octave 1000 Hz High Pass
12 dB/octave 4000Hz

Connection:

Single Amped Gold Plated Push Terminals

Performance:

Operating Range 70 Hz (-3dB) to 40 kHz
Nominal Beamwidth Horizontal 80° Vertical 45°

Input Impedance Nominal Minimum 4 ohms

Sensitivity 1 Watt @ 7 ohm 93 dB Full Space, 96 dB Half Space

Long Term SPL 120 Watt 113 dB Full Space, 116 dB Half Space

Short Term (Damage) SPL 200 watt 116 dB Full Space, 119 dB Half Space

Recommended high pass filter 130 Hz 24 dB / Octave

Weight 4.5 kg

Dimensions H: 370 W: 270 D: 72 mm

Finish:

Cabinet: Black, White, RAL, NCS, Tikkurila
Screen: Black, White, RAL, NCS, Tikkurila, Artcoustic Art Gallery

Evolve 8-4

Transducer:

LF-MF 8 x 3 inch cone, Symmetric Phase Aligned
HF 4 x 1 inch Dual Ring Radiator, Symmetric Phase Aligned

Crossover:

Low Pass Filter 6 dB/octave 1000 Hz High Pass
12 dB/octave 4000Hz

Connection:

Single Amped Gold Plated Push Terminals

Performance:

Operating Range 75 Hz (-3dB) to 40 kHz
Nominal Beamwidth Horizontal 90° Vertical 30°

Input Impedance Nominal Minimum 3.3 ohms

Sensitivity 1 Watt @ 3.3 ohm 96 dB Full Space, 99 dB Half Space

Long Term SPL 240 Watt 119 dB Full Space, 122 dB Half Space

Short Term (Damage) SPL 400 watt 122 dB Full Space, 124 dB Half Space

Recommended High Pass Filter =>100 Hz, 24 dB/octave

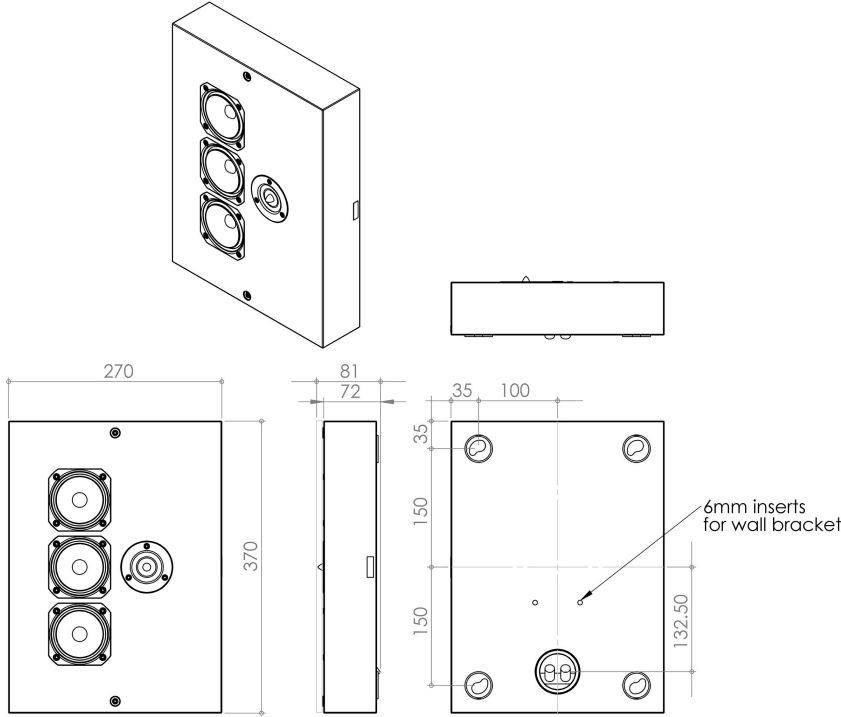
Weight 5.5 kg

Dimensions H: 370 W: 270 D: 72 mm

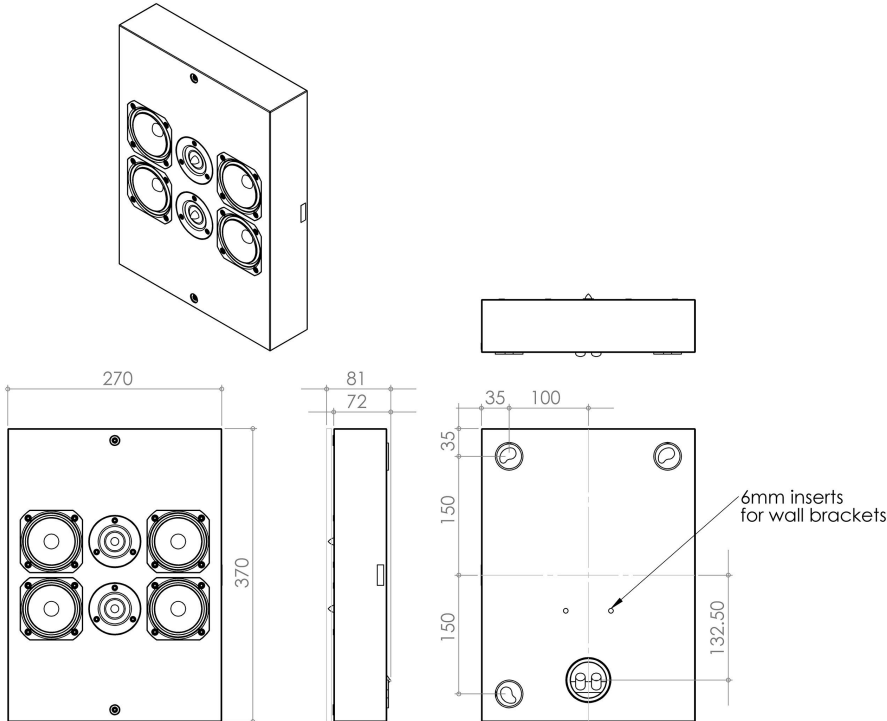
Finish:

Cabinet: Black, White, RAL, NCS, Tikkurila
Screen: Black, White, RAL, NCS, Tikkurila, Artcoustic Art Gallery

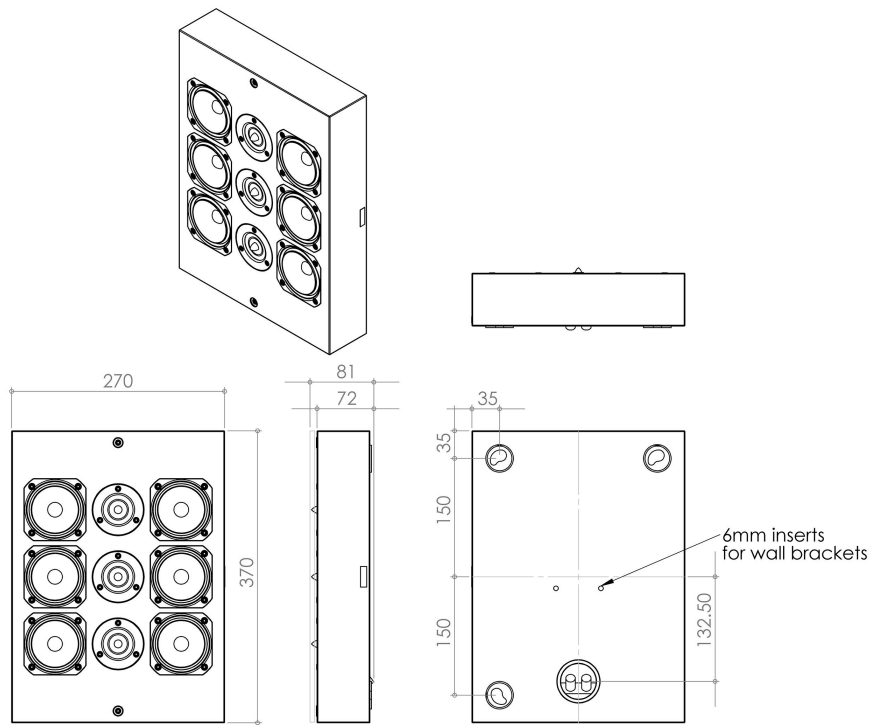
Evolve 3-1 Schematics



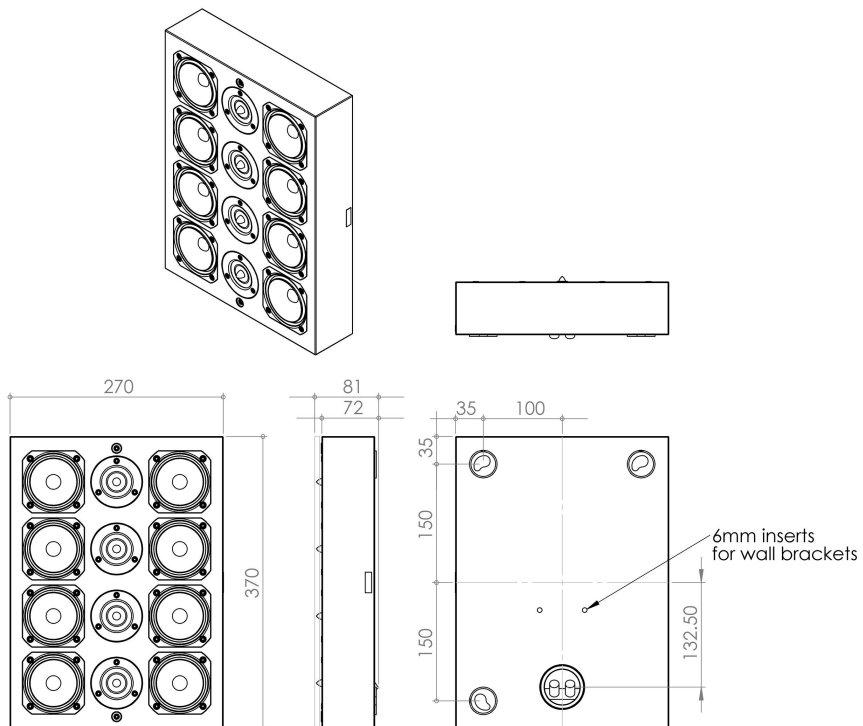
Evolve 4-2 Schematics



Evolve 6-3 Schematics



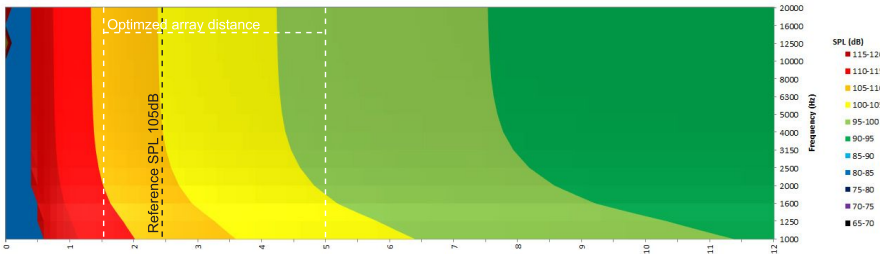
Evolve 8-4 Schematics



TIME ALIGNED ARRAY VS. DISTANCE

Figure 1. On-axis SPL of the array at distances 0-12 m

Evolve 4-2 array



Vertical array

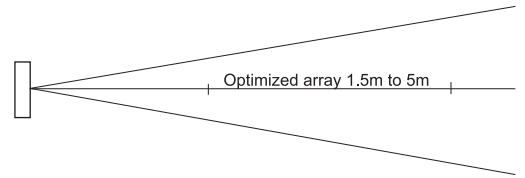


Figure 1. On-axis SPL of the array at distances 0-12 m

Evolve 6-3 array

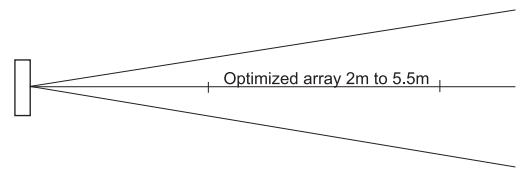
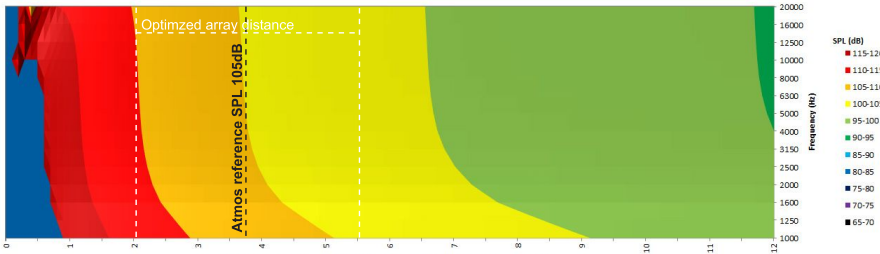
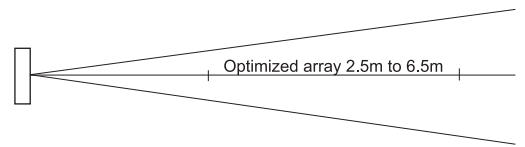
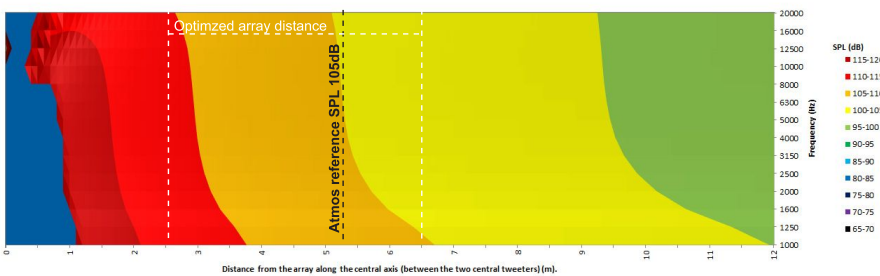


Figure 1. On-axis SPL of the array at distances 0-12 m

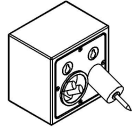
Evolve 8-4 array



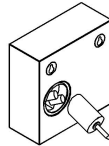
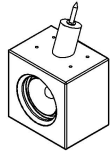
MOUNTING GUIDE



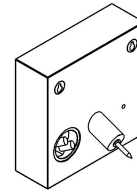
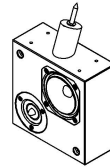
1. Universal Alu Mount
Mount to wall or ceiling with suitable screws



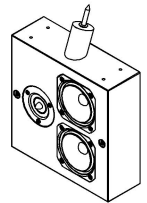
2. SL1
Mount Alu Mount to speaker



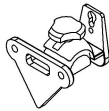
Target Mini



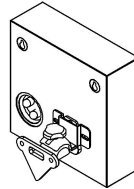
Target



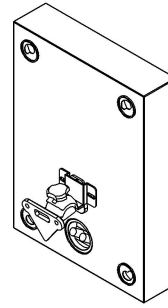
1. Bracket GU-8T
Mount plate to speaker rear wall



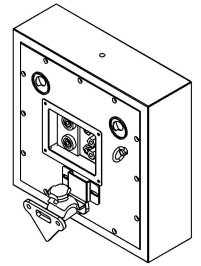
2. Mount GU-8T bracket to wall, with suitable screws



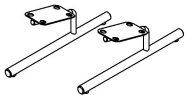
3. Target
Mount GU-8T bracket to speaker



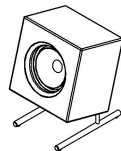
Evolve Series



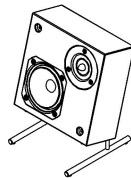
Spiffire 6-3



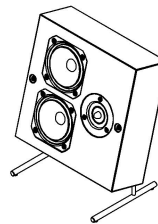
1. Speaker Stand
Mount stands to speaker with supplied screws



SL1



Target Mini



Target

SAFETY INSTRUCTIONS

SAFETY:

1. Do not use this product near water.
2. Clean panel only with dry cloth.
3. Do not install near any heat sources, such as radiators, heat registers, stoves.

Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, liquid has been spilled or objects have fallen into the product, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.

WARNING:

To reduce the risk of fire and electric shock do not expose this product to rain or moisture.

1. Do not place objects filled with liquids such as vases on the product.
2. Do not open product. There are no user-serviceable parts inside.

This product complies with Part 15 of the FCC Rules. Its operation is subject to the following two conditions:

This product may not cause harmful interference,

This product must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

WARRANTY:

Is valid only for products purchased from an authorised Artcoustic retailer or dealer.

Is valid from the date of purchase for a period of 2 years for passive loudspeakers, one year for powered loudspeakers and electronics.

Is limited to the repair of the equipment (which could be a repair or replacement at our discretion, neither of which affects your original warranty). Neither transportation, nor any other costs, nor any risk for removal, transportation and installation of products is covered by this warranty.

Is only valid for the original owner. It is not transferable.

Will not be applicable in cases other than defects in materials and/or workmanship at the time of purchase and will not be applicable:

For deterioration of component parts, the nature of which is to become worn or depleted with use, such as batteries.

For damages caused by incorrect installation, connection or packing.

For damages caused by any use other than correct use described in the user manual, negligence, modifications, or use of parts that are not made or authorised by Artcoustic UK Ltd.

For damages caused by faulty or unsuitable ancillary equipment.

For damages caused by accidents, lightning, water, fire heat, war, public disturbances or any other cause beyond the reasonable control of Artcoustic UK Ltd. and its appointed re-sellers.

If it is found necessary to return the product for repair, you may be given a Return Merchandise Authorisation. You should not return the product without this authorisation, if given.

To validate your warranty, you will need to produce the original sales invoice or other proof of ownership and date of purchase.