ARCHON 112

Passive Sound Reinforcement

APPLICATIONS

- Bars
- Pubs
- Restaurants
- Retail shops
- Clubs
- Entertainment venues
- Fitness centres
- Conference rooms
- Theatres
- Houses of worship
- Exhibition centres

Designed, Engineered and Manufactured in ITALY

KEY FEATURES

- 2-way passive sound reinforcement system
- 0.59" baltic birch plywood cabinet
- 1 x 12" custom custom designed high excursion LF woofer
- 1 x 1.4" custom designed HF compression driver
- Rotatable horn
- 500W continuous pink noise
- 1000W continuous program
- 2000W peak
- Full-range / Bi-amp crossover networks with protection
- Optional line transformer (300W)
- 12 x M10 threaded rigging points
- 1x4 Euroblock terminal speaker connector / 2 x Neutrik NL-4 speakon
- Choice of different RAL paint colours
- Choice of different paint finish
- Completely manufactured in Italy

PRODUCT DESCRIPTION

The loudspeaker shall consist of a 12" low frequency transducer, 1.4" HF dome tweeter; the low frequency driver's voice coil shall be 3" in diameter. The loudspeaker shall be setup in full-range mode or bi-amp mode. Performance specifications of a typical unit shall be as follows: usable frequency response shall extend from 50Hz to 18kHz; nominal impedance shall be 8 ohms; the frequency dividing network shall have a crossover frequency of 1.6kHz; measured sensitivity shall be at least 99dB (at 1m [3.3ft]). The input shall be switchable for use either at nominal 8 ohms or on a 100V distributed speaker line via transformer (optional). The HF driver shall be horn loaded to cover 70 degrees horizontal by 50 degrees vertical (rotatable horn). The cabinet shall be constructed of 0.59” Baltic birch plywood covered in a scratch & scuff resistant black or white finish. The enclosure shall be fitted with threaded inserts to allow for a variety of mounting methods.

ELECTRONIC SPECIFICATIONS

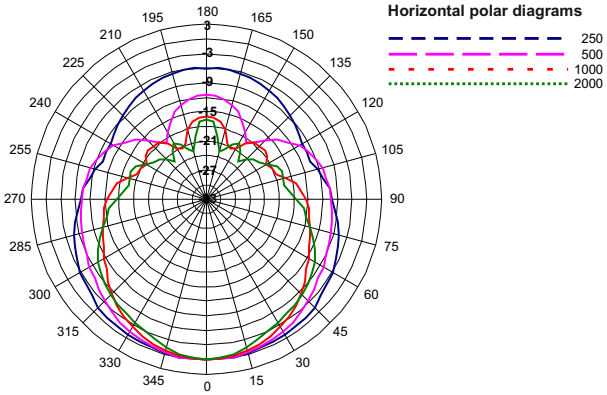
System Type	2 Way
Recommended Amplifier	1000W RMS
System Long Term Power	500W
System Short Term Power (IEC 268-5)	2000W
Transformer (optional)	100V / 300W
Nominal Impedance	8 Ohm
Frequency Response	50Hz - 18kHz (@-6dB)
Sensitivity	99dB (@1W, 1m)
Max SPL (cont/peak) (bi-amp)*	129dB / 133dB
Dispersion	70° H x 50° V
Crossover Frequency	1.6kHz
Recommended HP Filter	40Hz - 24dB oct.

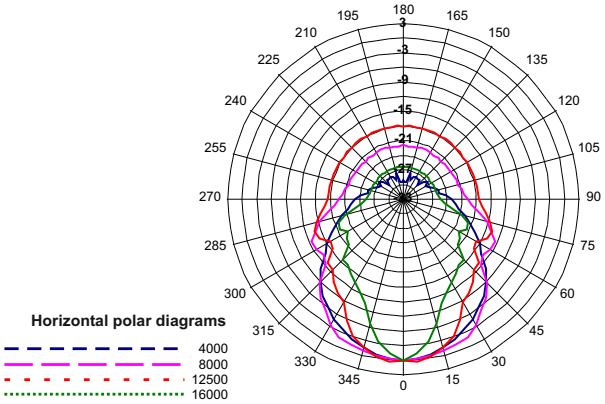
PHYSICAL SPECIFICATIONS

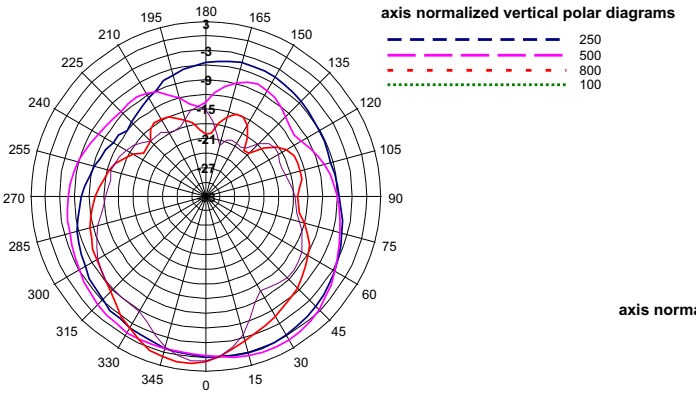
Low Frequency Woofer	12” / 3” coil
High Frequency Driver	1.4” / 2.5” coil
Input Connectors	Euroblock (4 pin) / 2 x Speakon
Net Dimensions (WxHxD) inch	14.37 x 25.98 x 14.96
Shipping Dimensions (WxHxD) inch	20.86 x 33.85 x 20.86
Net Weight	48.5lbs
Shipping Weight	53lbs
Enclosure Material	0.59" baltic plywood
Grille	Steel with powder coat black or white paint finish

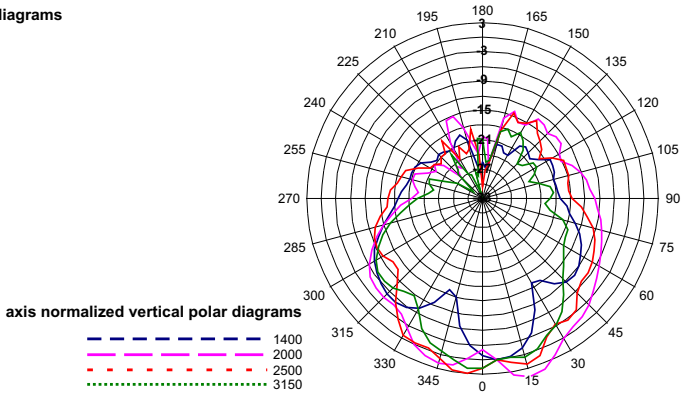
* CONT. SPL: free space, based on recommended amp rating and LF transducer average sensitivity data, 125mS time average
PEAK SPL: free space, based on short term applicable power rating and system peak sensitivity, 10mS time average

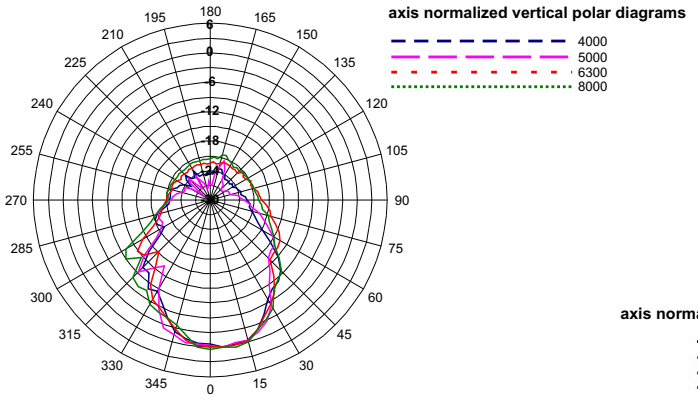
DIAGRAMS

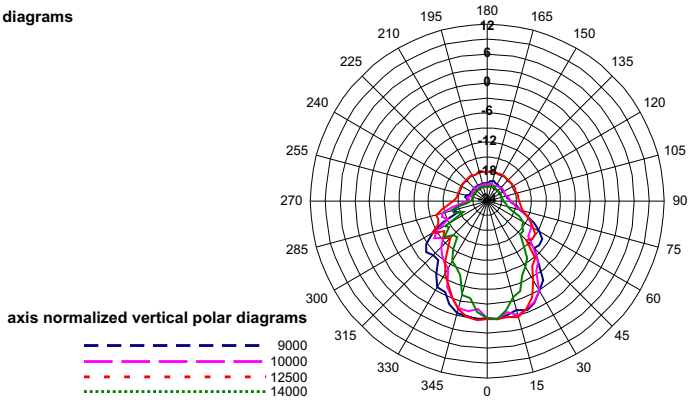

Horizontal polar diagrams
250
500
1000
2000

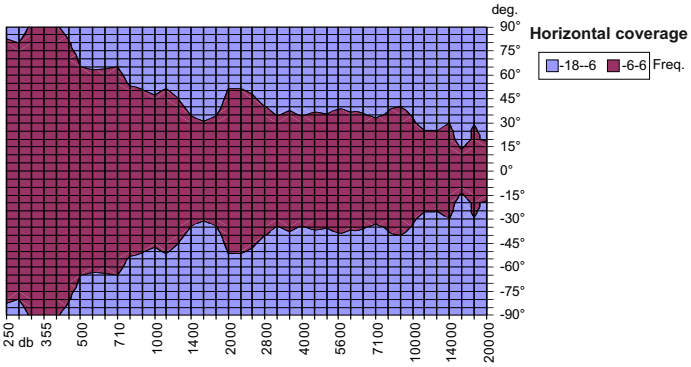

Horizontal polar diagrams
4000
8000
12500
16000

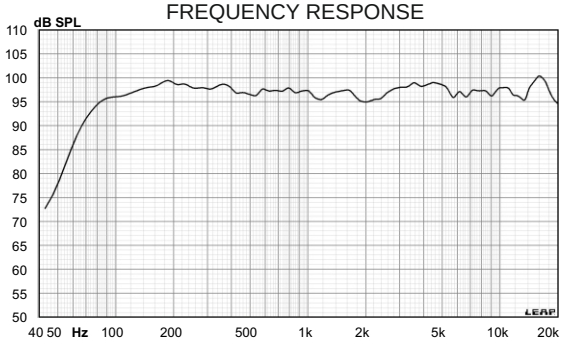

axis normalized vertical polar diagrams
250
500
800
100


axis normalized vertical polar diagrams
1400
2000
2500
3150

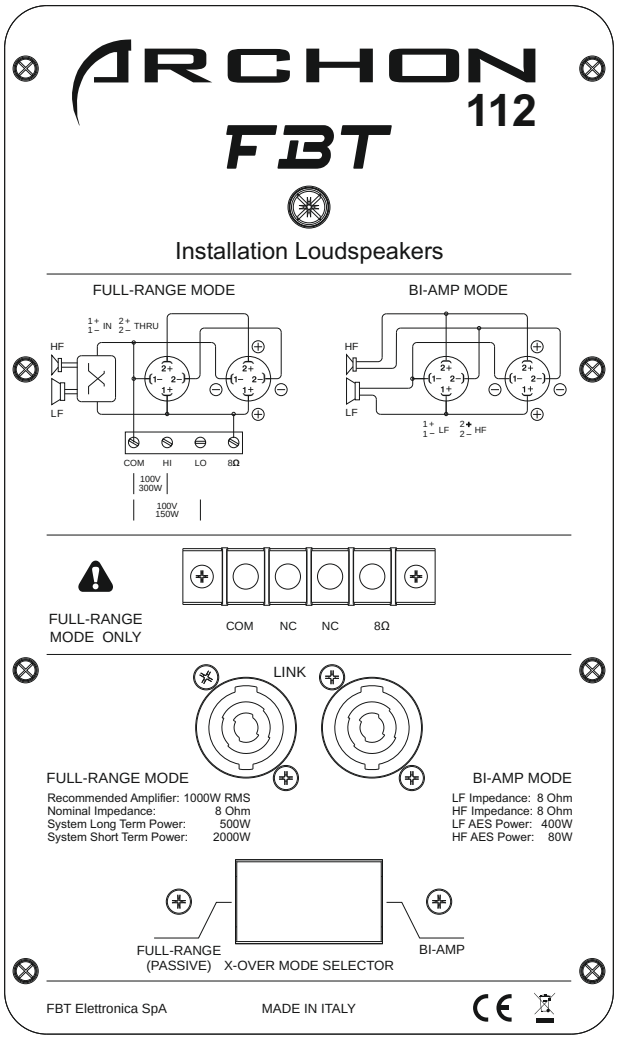

axis normalized vertical polar diagrams
4000
5000
6300
8000


axis normalized vertical polar diagrams
9000
10000
12500
14000


deg.
Horizontal coverage
-18--6
-6-6
Freq.
db


FREQUENCY RESPONSE
dB SPL
Hz

CONTROL PANEL

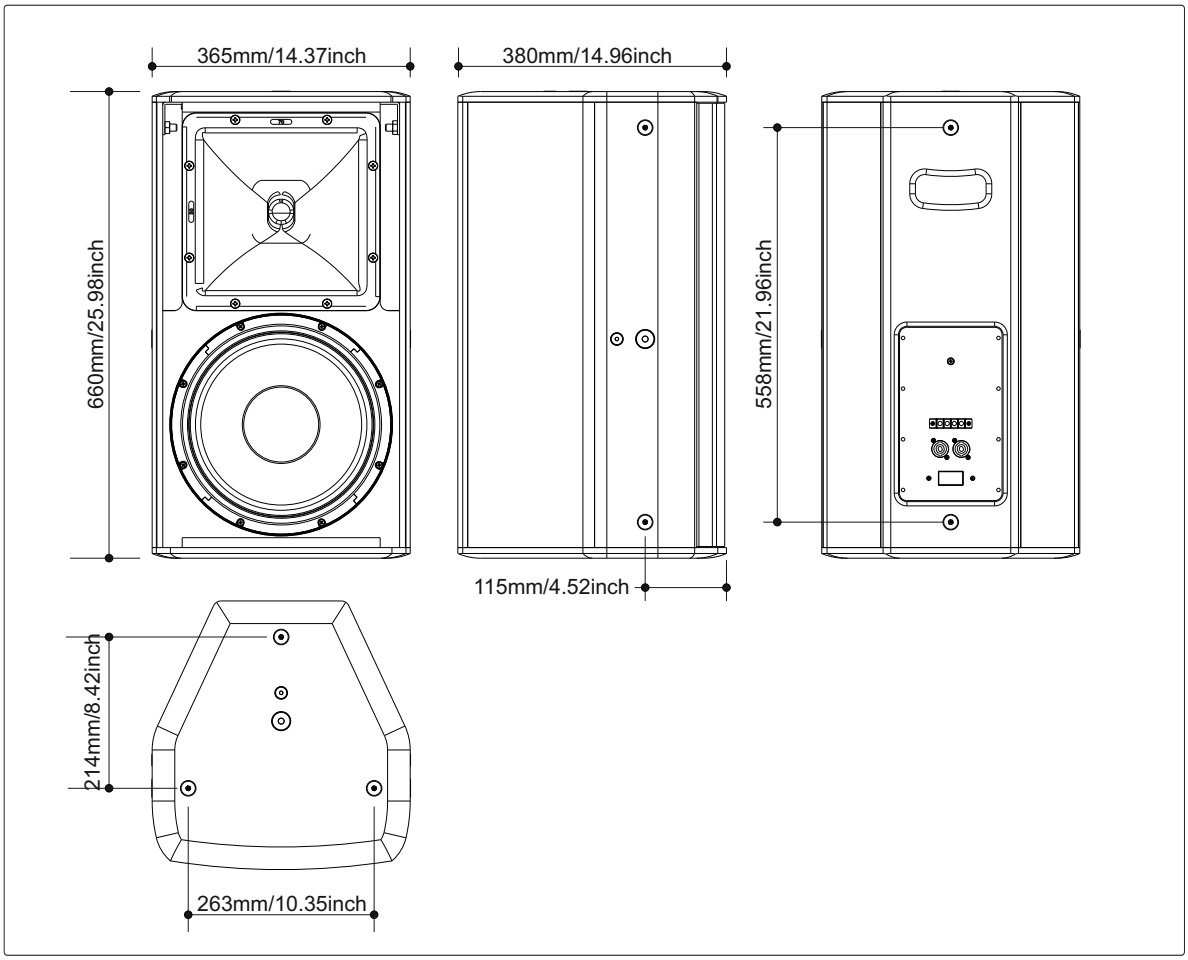


* 2 hours, pink noise with crest factor 2, applied RMS voltage corresponding to the power on the minimum of the module of the impedance of the speaker in full range mode, or of the driver in bi-amp mode.

		FULL-RANGE	BI-AMP (LF)	BI-AMP (HF)
ARCHON 112	* Power →	500W 8 Ohm	400W 8 Ohm	80W 8 Ohm
	X-over freq. 24dB oct. →	----------	HPF 40Hz - LPF 1.6kHz	LPF 1.6kHz

The table shows the power outputs, measured in accordance with the AES standard, that are acceptable by the loudspeaker in FULL-RANGE mode or by the individual drivers in BI-AMP mode.

DIMENSIONAL DRAWINGS



ACCESSORIES