

Passive Sound Reinforcement

MAIN APPLICATIONS

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

MAIN FEATURES

- 2-way passive sound reinforcement system
- 0.59" baltic birch plywood cabinet
- 1 x 15" custom custom designed high excursion LF woofer
- 1 x 2" 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



DESCRIPTION

The loudspeaker shall consist of a 15" low frequency transducer, 2" 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 48Hz to 18kHz; nominal impedance shall be 8 ohms; the frequency dividing network shall have a crossover frequency of 1.3kHz; measured sensitivity shall be at least 100dB (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 60 degrees horizontal by 40 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.

TECHNICAL SPECIFICATIONS

GENERAL

Configuration	way	2
Low frequency woofer	inch	15 - 3 coil
High frequency driver	inch	2 - 2.5 coil

ACOUSTIC SPEC.

Frequency response	(@ -6dB)	48 Hz - 18kHz
SPL max. (cont / peak) (bi-amp)*	dB	130 / 134
Dispersion	H x V	60° x 40°
Sensitivity	(@1W,1m)	100dB
Crossover Frequency		1.3kHz
Recommended HP Filter		35Hz - 24dB oct.

* 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

INPUTS / OUTPUTS

Connectors		Euroblock 4 pin / 2 x Speakon
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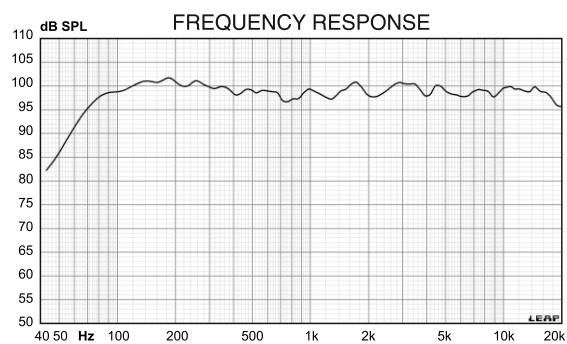
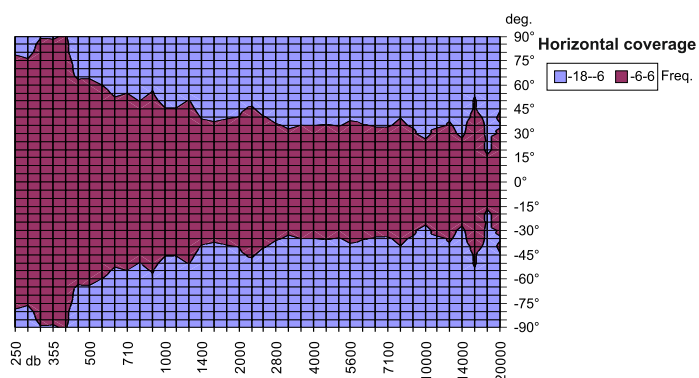
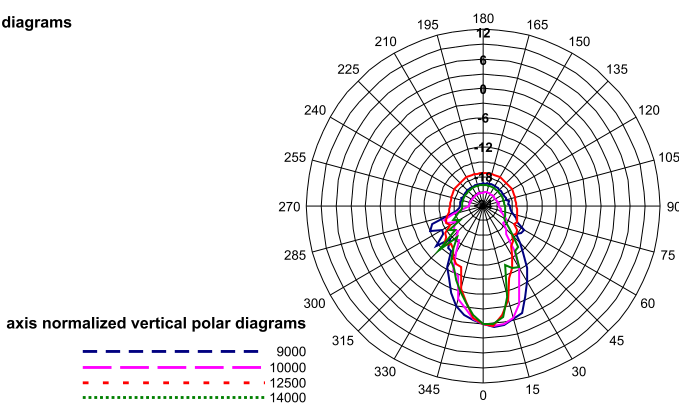
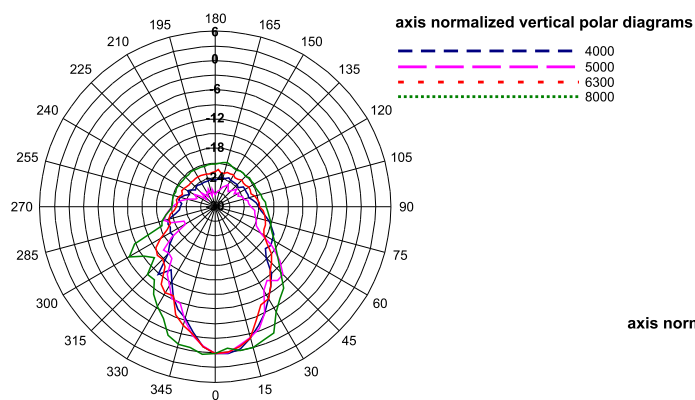
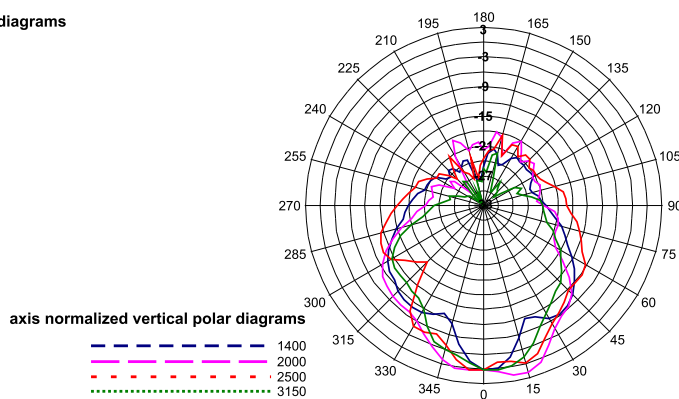
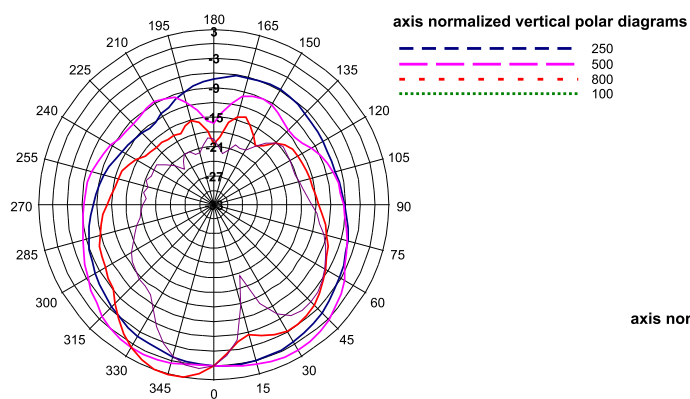
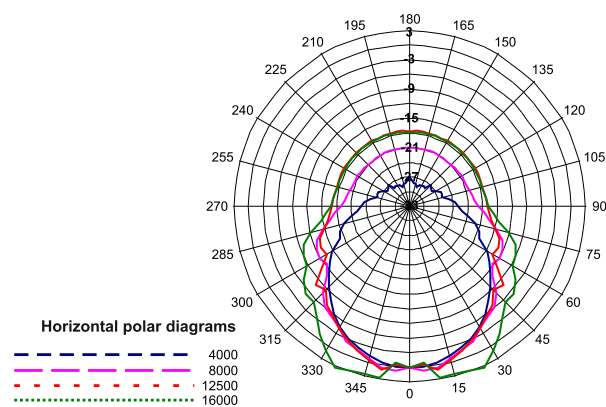
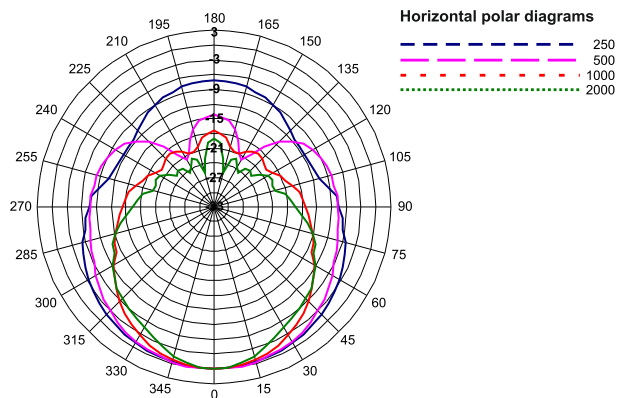
AMPLIFIER

Recommended amplifier	W RMS	1000
Transformer (optional)	V / W	100V / 300W
Long term power	W	500
Short term power IEC 268-5	W	2000
Nominal impedance	Ohm	8

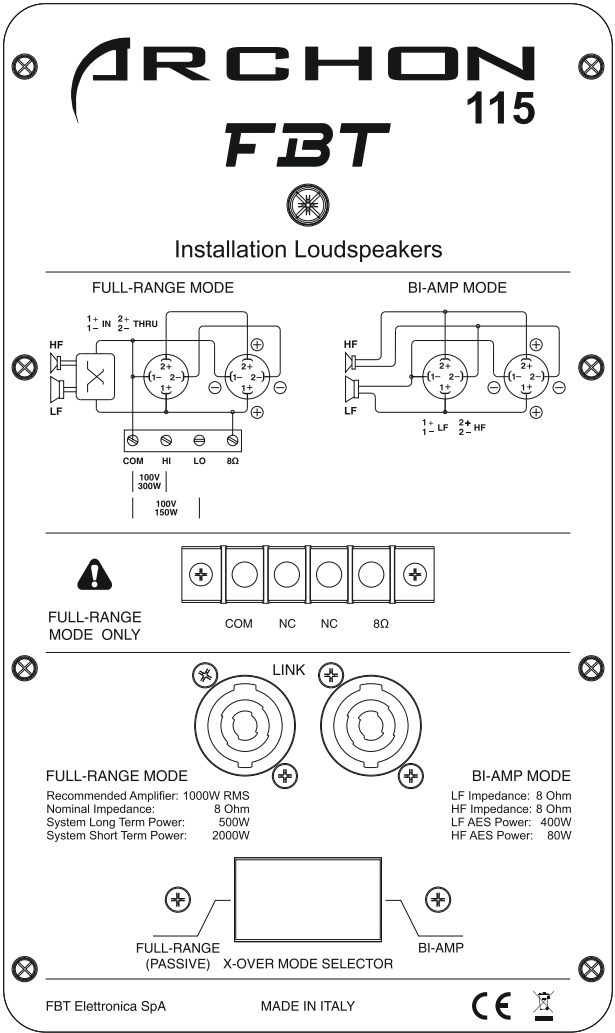
MECHANICAL SPEC.

Material		0.59" baltic plywood
Grille		Steel with powder coat black or white paint finish
Net size (WxHxD)	inch	17.12 x 29.13 x 16.57
Net weight	Lbs	63.9

DIAGRAMS



CONTROL PANEL

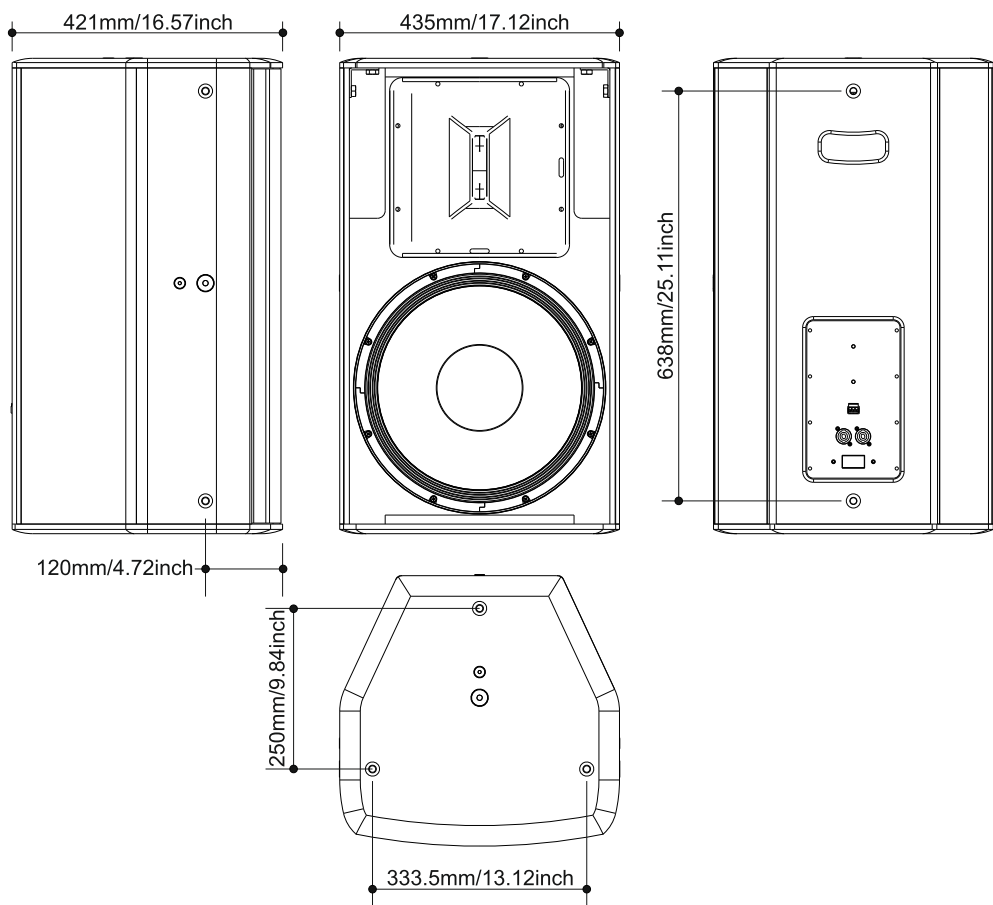


* 2 hours, pink noise with crest factor 2, applied RMS voltage corresponding to the power on the minimum of the module of the impedance of the speaker in full range mode, or of the driver in bi-amp mode.

		FULL-RANGE	BI-AMP (LF)	BI-AMP (HF)
ARCHON 115	* Power →	500W 8 Ohm	400W 8 Ohm	80W 8 Ohm
	X-over freq. 24dB oct. →	-----	HPF 35Hz - LPF 1.3kHz	LPF 1.3kHz

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 DRAWING



ACCESSORIES

