

HL 2290

HORN LOADED TWO-WAY ARRAY 90° X 22.5°

DESCRIPTION

HL 2290 is a horn loaded two-way bi-amped array system that incorporates 2 x 12" woofer and a titanium dome 4.0" voice coil titanium compression driver for mid distance and long throw applications. The system is very compact and provides very high output and accurate voice and sound reproduction. The system is equipped with the latest generation of RCF precision transducers. The system has a 90° x 22.5° constant directivity and is ideally used in point source configuration for mid distance applications or can be clustered with narrower angles for long throw applications. The loudspeaker enclosure shape is trapezoidal and offers a 22.5° coupling angle each side. Connections to the amplifier are made through a watertight Amphenol multipole connector. The grille is in custom perforated steel, epoxy coated, with open-cell fibres and water repellent woven fabric backing. The cabinet is constructed of Baltic birch marine plywood and finished in a very resistant, textured, polyurea black paint. HL 2290 is weatherproof with protection code IP 55.



FEATURES

- 1500 W system power handling (RMS)
- 141 dB max SPL
- 90° x 22.5° constant directivity, horn-loaded
- IP 55 protection code
- 60 Hz ÷ 20000 Hz frequency range
- 2 x 12" high power woofers (3.5" v.c.)
- 1 x 4.0" v.c. compression driver, titanium dome
- Baltic Birch Plywood enclosure with internal structural metal bracings
- Safe and solid variable array mechanics
- Amphenol IP 67 in/out connectors

Rev. R Last update: 26/02/2024



TECHNICAL SPECIFICATIONS

Frequency Response (-3dB):	Acoustical specifications	Frequency Response (-10dB):	60 Hz ÷ 20000 Hz
Max SPL@ Im:	•		80 Hz ÷ 20000 Hz
Horizontal coverage angle: 90° Vertical coverage angle: 23° Directivity index Q: 16 Power section Amplification: Bi-Amp Crossover Frequencies: 600 Hz Recommended Amplifiers: XPS 16KD, QPS 10K, QPS 6.0K, IPS 5.0K, IPS 6.0K, IP			141 dB
Vertical coverage angle: 23° Directivity index Q: 16			90°
Directivity index Q: Bi-Amp			23°
Crossover Frequencies: 600 Hz Recommended Amplifiers: XPS I6K, XPS 16KD, QPS 10K, QPS 6.0K, IPS 5.0K, IPS 2.5K Nominal Impedance LF: 8 ohm Power Handling LF: 1350 W Peak Power Handling LF: 5400 W Sensitivity LF: 104 dB Nominal Impedance HF: 8 ohm Power Handling HF: 150 W Peak Power Handling HF: 150 W Peak Power Handling HF: 150 W Peak Power Handling HF: 130 W Peak Power Handling HF: 600 W Sensitivity HF: 113 dB Transducers Compression Driver: 1 x 1.4" neo, 4.0" v.c Woofer: 2 x 12", 3.5" v.c Input/Output section Input connectors: Amphenol eco/mat IP 67 Standard compliance IP protection grade: IP 55 Safety agency: CF compliant Physical specifications Hardware: Side and rear array rigging point Black Size Height: 530 mm / 20.87 inches Weight: 571 mm / 30.35 inches G9 kg / 152.12 lbs Shipping information Package Width: 799 mm / 31.46 inches Package Width: 799 mm / 33.82 inches Package Depth: 619 mm / 24.37 inches			
Recommended Amplifiers: XPS 16K, XPS 16KD, QPS 10K, QPS 6.0K, IPS 5.0K, IPS 5.0K Power Handling LF: 1350 W Peak Power Handling LF: 5400 W Sensitivity LF: 104 dB Nominal Impedance HF: 8 ohm Power Handling HF: 150 W Peak Power Handling HF: 600 W Sensitivity HF: 113 dB Transducers Compression Driver: 1 x 1.41" neo, 4.0" v.c Woofer: 2 x 12", 3.5" v.c Input/Output section Input connectors: Amphenol eco/mat IP 67 Amphenol eco/mat IP 67 Standard compliance IP protection grade: IP 55 Safety agency: CE compliant Physical specifications Hardware: Side and rear array rigging point Black Size Height: 530 mm / 20.87 inches Width: 771 mm / 30.35 inches Depth: 635 mm / 25 inches G9 kg / 152.12 lbs Shipping information Package Height: 799 mm / 31.46 inches Package Width: 859 mm / 33.82 inches Package Depth: 619 mm / 24.37 inches	Power section	Amplification:	Bi-Amp
Nominal Impedance LF:		Crossover Frequencies:	600 Hz
Power Handling LF:		Recommended Amplifiers:	
Peak Power Handling LF: 5400 W		Nominal Impedance LF:	8 ohm
Sensitivity LF:		Power Handling LF:	1350 W
Nominal Impedance HF:		Peak Power Handling LF:	5400 W
Power Handling HF: Peak Power Handling HF: 600 W Sensitivity HF: 113 dB Transducers Compression Driver: Woofer: 1x 1.4" neo, 4.0" v.c 2 x 12", 3.5" v.c Input/Output section Input connectors: Output connectors: Amphenol eco/mat IP 67 Amphenol eco/mat IP 67 Standard compliance IP protection grade: Safety agency: CE compliant Physical specifications Hardware: Color: Black Size Height: Width: Depth: Width: Depth: Weight: Figure 1.50 W Figure 1.		Sensitivity LF:	104 dB
Peak Power Handling HF: Sensitivity HF: 113 dB Transducers Compression Driver: Woofer: 1 x 1.4" neo, 4.0" v.c 2 x 12", 3.5" v.c Input/Output section Input connectors: Output connectors: Amphenol eco/mat IP 67 Amphenol eco/mat IP 67 Standard compliance IP protection grade: Safety agency: CE compliant Physical specifications Hardware: Color: Size Height: Width: Depth: Weight: Depth: Weight: Weight: Fackage Height: Package Height: Package Depth: Package Midth: Package Depth: Package Depth: Package Midth: Package Depth: Package Midth: Package Depth: Package Midth: Package Depth: Package Midth: P		Nominal Impedance HF:	8 ohm
Transducers Compression Driver: Woofer: 1 x 1.4" neo, 4.0" v.c 2 x 12", 3.5" v.c Input/Output section Input connectors: Output connectors: Amphenol eco/mat IP 67 Amphenol eco/mat IP 67 Standard compliance IP protection grade: Safety agency: CE compliant Physical specifications Hardware: Color: Size Height: Width: T71 mm / 30.35 inches Depth: Weight: F35 mm / 25 inches G35 mm / 25 inches G9 kg / 152.12 lbs Shipping information Package Height: Package Width: Package Depth: Package Midth: Package Depth: Pack		Power Handling HF:	150 W
Transducers Compression Driver: Woofer: 1 x 1.4" neo, 4.0" v.c 2 x 12", 3.5" v.c Input/Output section Input connectors: Output connectors: Amphenol eco/mat IP 67 Amphenol eco/mat IP 67 Standard compliance IP protection grade: Safety agency: CE compliant Physical specifications Hardware: Color: Black Size Height: Width: T71 mm / 30.35 inches Depth: Weight: F350 mm / 25 inches F450 mm / 25 inches F590 mm / 25 inches F69 kg / 152.12 lbs Shipping information Package Height: Package Width: Package Depth: F70 mm / 33.82 inches F71 mm / 33.82 inches F72 mm / 33.82 inches F73 mm / 33.82 inches F74 mm / 33.82 inches F75 mm / 33.82 inches F77 mm / 33.82 inches		Peak Power Handling HF:	600 W
Input/Output section Input connectors: Amphenol eco/mat IP 67 Output connectors: Amphenol eco/mat IP 67 Standard compliance IP protection grade: IP 55 Safety agency: CE compliant Physical specifications Hardware: Side and rear array rigging point Color: Black Size Height: 530 mm / 20.87 inches Width: 771 mm / 30.35 inches Depth: 635 mm / 25 inches Weight: 69 kg / 152.12 lbs Shipping information Package Height: 799 mm / 31.46 inches Package Width: 859 mm / 33.82 inches Package Depth: 619 mm / 24.37 inches		Sensitivity HF:	113 dB
Input/Output section Input connectors: Amphenol eco/mat IP 67 Output connectors: Amphenol eco/mat IP 67 Standard compliance IP protection grade: IP 55 Safety agency: CE compliant Physical specifications Hardware: Side and rear array rigging point Black Size Height: 530 mm / 20.87 inches Width: 771 mm / 30.35 inches Depth: 635 mm / 25 inches Weight: 69 kg / 152.12 lbs Shipping information Package Height: 799 mm / 31.46 inches Package Width: 859 mm / 33.82 inches Package Depth: 619 mm / 24.37 inches	Transducers	Compression Driver:	1 x 1.4" neo, 4.0" v.c
Output connectors: Amphenol eco/mat IP 67 Standard compliance IP protection grade: Safety agency: CE compliant Physical specifications Hardware: Color: Size Height: Width: Depth: Depth: Weight: Size Shipping information Package Height: Package Width: Package Depth:		Woofer:	2 x 12", 3.5" v.c
Standard complianceIP protection grade: Safety agency:IP 55 CE compliantPhysical specificationsHardware: Color:Side and rear array rigging point BlackSizeHeight: Width: Depth: Weight:530 mm / 20.87 inches 771 mm / 30.35 inches 635 mm / 25 inches 69 kg / 152.12 lbsShipping informationPackage Height: Package Width: Package Depth:799 mm / 31.46 inches 859 mm / 33.82 inches 619 mm / 24.37 inches	Input/Output section	Input connectors:	Amphenol eco/mat IP 67
Safety agency: CE compliant Physical specifications Hardware: Color: Black Size Height: Width: Depth: Depth: Weight: Shipping information Package Height: Package Width: Package Depth: CE compliant Side and rear array rigging point Black 770 mm / 20.87 inches		Output connectors:	Amphenol eco/mat IP 67
Physical specifications Hardware: Color: Black Size Height: Width: Depth: Weight: Shipping information Package Height: Package Width: Package Depth: Package Depth: Package Depth: Package Depth: Package Midth: Package Midth: Package Midth: Package Depth: Package Midth: Package Depth:	Standard compliance	IP protection grade:	IP 55
Size Height: 530 mm / 20.87 inches Width: 771 mm / 30.35 inches Depth: 635 mm / 25 inches Weight: 69 kg / 152.12 lbs Shipping information Package Height: 799 mm / 31.46 inches Package Width: 859 mm / 33.82 inches Package Depth: 619 mm / 24.37 inches		Safety agency:	CE compliant
Size Height: 530 mm / 20.87 inches Width: 771 mm / 30.35 inches Depth: 635 mm / 25 inches Weight: 69 kg / 152.12 lbs Shipping information Package Height: 799 mm / 31.46 inches Package Width: 859 mm / 33.82 inches Package Depth: 619 mm / 24.37 inches	Physical specifications	Hardware:	Side and rear array rigging point
Width:		Color:	Black
Depth: 635 mm / 25 inches Weight: 69 kg / 152.12 lbs Shipping information Package Height: 799 mm / 31.46 inches Package Width: 859 mm / 33.82 inches Package Depth: 619 mm / 24.37 inches	Size	Height:	530 mm / 20.87 inches
Weight: 69 kg / 152.12 lbs Shipping information Package Height: 799 mm / 31.46 inches Package Width: 859 mm / 33.82 inches Package Depth: 619 mm / 24.37 inches		Width:	771 mm / 30.35 inches
Shipping information Package Height: Package Width: Package Depth:		Depth:	635 mm / 25 inches
Package Width: 859 mm / 33.82 inches Package Depth: 619 mm / 24.37 inches		Weight:	69 kg / 152.12 lbs
Package Depth: 619 mm / 24.37 inches	Shipping information	Package Height:	799 mm / 31.46 inches
		Package Width:	859 mm / 33.82 inches
Package Weight: 70.5 kg / 155.43 lbs		Package Depth:	619 mm / 24.37 inches
		Package Weight:	70.5 kg / 155.43 lbs



PART NUMBER

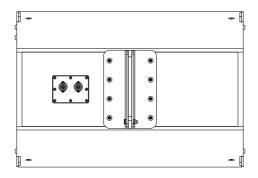
· 13000405

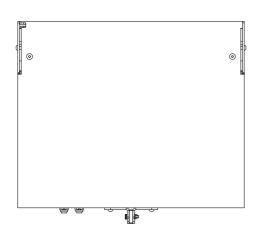
HL 2290

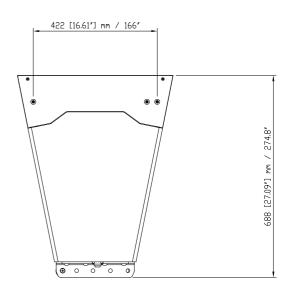
EAN 8024530011604

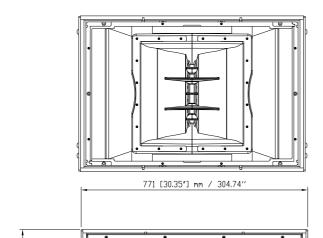
530 [20.87"] mm / 208.66"





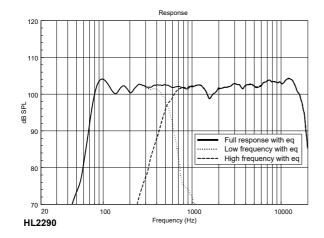


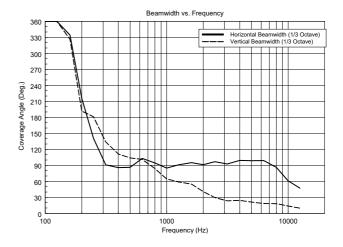


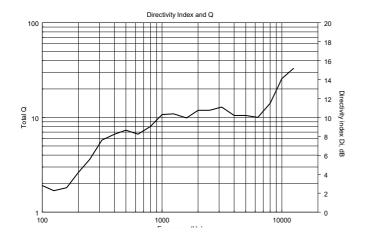


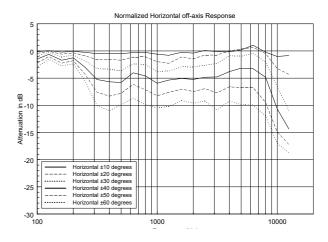


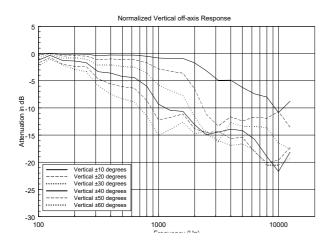




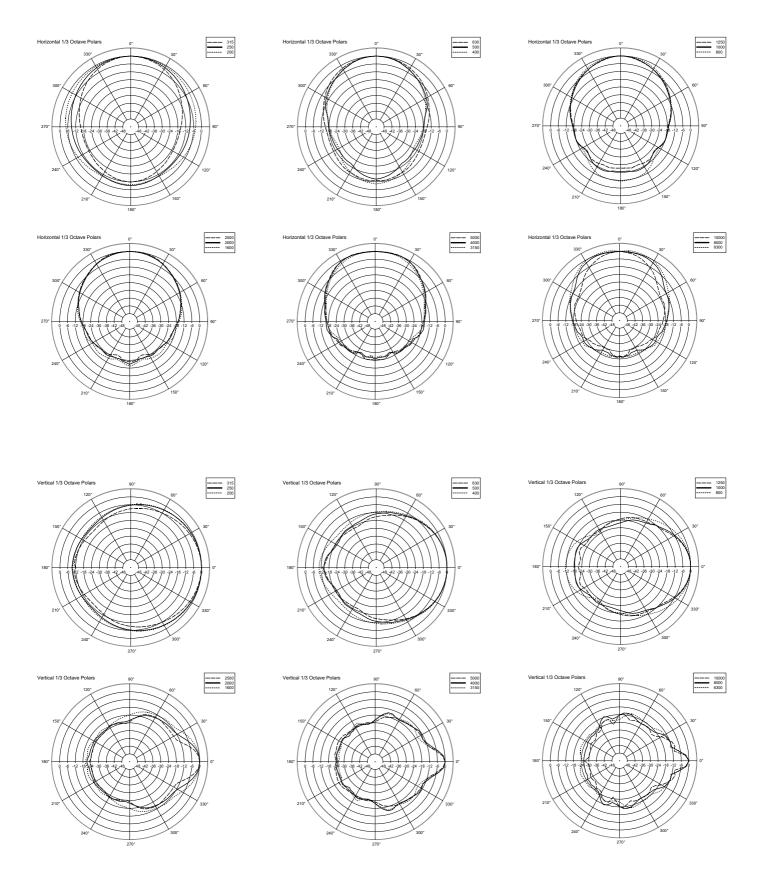














ACCESSORIES



FLY BAR FL-B HL

PART NUMBER

13360282

EAN:

8024530011734



A&E SPECIFICATIONS

The product shall be is a horn loaded two-way bi-amped array system that incorporates 2 x 12" woofer and a titanium dome 4.0" voice coil compression driver for mid distance and long throw applications. The system shall be compact and provide very high output and accurate voice and sound reproduction. The system shall have a 90° x 22.5° constant directivity to be ideally used in point source configuration for mid distance applications or clustered with narrower angles for long throw applications. The loudspeaker enclosure shape shall be trapezoidal and offer a 22.5° coupling angle each side. Connections to the amplifier shall be made through a watertight Amphenol multi-pole connector. The grille shall be in perforated steel, epoxy coated, with open-cell fibres and water repellent woven fabric backing. The cabinet shall be constructed of Baltic birch marine plywood and finished in a very resistant, textured, polyurea black paint. The product shall be weatherproof with protection code IP 55.