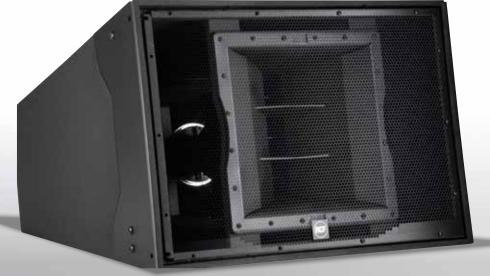
HL SYSTEM

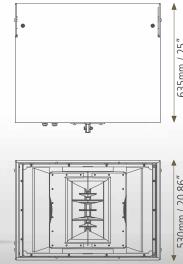
HORN LOADED ARRAY SYSTEM

The HL 2260 (2240, 2290) is a horn loaded two-way full range array system that incorporates a 2 x 12" woofer and a 2.0" exit 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 vertical dispersion of 22.5° 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 multi-pole 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 multi-ply Baltic birch marine plywood and finished in a very resistant, textured, polyurea black paint.

- Horn Loaded two-way Array System
- Fully Horn-loaded, 60° x 22.5° (40° x 22.5°, 90° x 22.5°) directivity
- 2 x 12" RCF Precision woofers with 3.5" voice coil
- RCF Precision 4.0" voice coli compression driver, titanium dome
- Horn loading on RCF waveguide
- 141 dB Max SPL
- System Power rating 1500 Watt RMS (1350 Watt LF, 150 Watt HF)
- Safe and solid variable array mechanics
- Baltic Birch Plywood enclosure with internal structural metal bracings







771mm / 30.35'

HL 2260 HORN LOADED TWO-WAY ARRAY

22.5° x 60°

HL 2240

HORN LOADED TWO-WAY ARRAY 22.5° x 40°

HL 2290 HORN LOADED TWO-WAY ARRAY 22.5° x 90°

HS 2200 ARRAY SUBWOOFER

HS 2200 p/n 130.00.406



ACOUSTICAL SPECS.	HL 2260	HL 2240	HL 2290	HS 2200
FREQ. RANGE (-10 dB):	6	60 Hz - 20 kHz		30 Hz - 200 Hz
FREQ. RANGE (-3 dB):	80 Hz - 20 kHz		35 Hz - 200 Hz	
HORIZ. COVERAGE ANGLE (-6 dB):	60°	40°	90°	-
VERTICAL COVERAGE ANGLE (-6 dB):	22.5°	22.5°	22.5°	-
DIRECTIVITY FACTOR; Q:	14	16	13	-
SYSTEM SENSITIVITY:	LF 104 dB , HF 113 1W @ 1m (1)		100 dB 1W @ 1m (1	
RATED MAXIMUM SPL:	141 dB, @ 1m		136 dB, @1m	
SYSTEM NOMINAL IMPEDANCE:	8 Ohm		8 Ohm	
SYSTEM INPUT POWER RATING RMS:	LF 1350W, HF 150W		LF 900 W	
SYSTEM INPUT POWER RATING PEAK:	LF 5400W, HF 600W		LF 3600 W	
RECOMMENDED AMPLIFIER:	LF 2700W, HF 300W		LF 1800 W	
HF PROTECTION:	-		-	
CROSSOVER:	Recommended 600 Hz		-	
TRANSDUCERS				
LOW FREQUENCY:	2 x 12" woofer, 3.5" v.c.		18" woofer 4.0" v.c.	
NOMINAL IMPEDANCE:	8 Ohm		8 Ohm	
INPUT POWER RATING:	1350 W AES		900 W AES	
SENSITIVITY:	104 dB, 1W @ 1m		100 dB, 1W @ 1m	
HIGH FREQUENCY:	1.5" throat, 4" v.c.		-	
NOMINAL IMPEDANCE:	8 Ohm		-	
INPUT POWER RATING:	150 W AES		-	
SENSITIVITY:	113	3 dB, 1W @	1 m	-
PHYSICAL				
ENCLOSURE:	Trapezoidal, 15 mm birch plywood construction			
RIGGING INSERTS:	Side and rear array rigging point			
COLOR:	Polyurea Black, weather and scratch resistant paint			
GRILLE:	Custom perforated steel grille			
INPUT CONNECTORS:	Amphenol eco/mat IP 67			
DIMENSIONS (H x W x D):	20.87"x 30.35"x 25.00" 530 x 771 x 635 mm			
WEIGHT:	60 Kg 62 Kg 62 Kg 60 Kg			

¹⁾ Measured on axis in the far field with 1 watt (2.83V RMS, 8 Ohm) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300 Hz to 3 kHz.

2) Using 20 Hz to 20 kHz, Pink Noise Spectrum, 2 hours, + 6 dB crest factor, with RMS voltage calculated on speaker minimum impedance.

3) Recommended Amplifier is a power capability value that should be taken as a guide.

HL20 WP

WEATHERPROOF PASSIVE LINE ARRAY MODULE

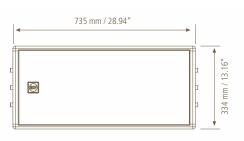
The HL 20 WP is a compact, wide dispersion, 2 way passive line array module that offers the highest performance from a small size line array. The incredible high output and dynamics, the extreme accuracy and high frequency extension plus the compact size makes the HL 20 WP the ideal tool for outdoor sound reinforcement, live performances and events as well as fixed installations in theatres, concert halls or auditoriums. Connections to the amplifier are made through a watertight multi-pole connector. The grille is in custom perforated aluminum with open-cell fibers and water repellent woven fabric backing. The cabinet is constructed of multiply baltic birch plywood and finished in a fire resistant, textured coating.

- Outdoor sound reinforcement
- Touring sound reinforcement for mid-sized venues
- High quality reinforcement of music and speech
- Medium to large theatres and night clubs
- Stadiums, arenas, concert halls
- Corporate A/V presentation



- Maximum output per size available on the market
- Wide, constant directivity, horizontal coverage angle
- Minimum weight
- Watertight multi-pole connector IP67
- Baltic birch cabinet



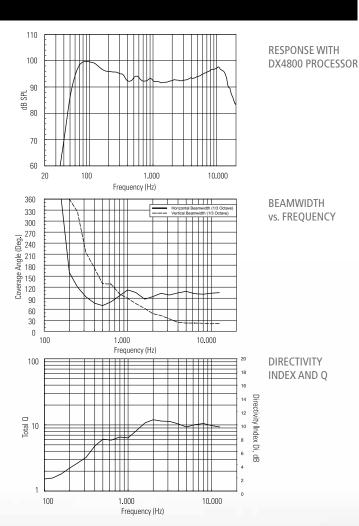




CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS")

The following are "Part 2 Products" CSI-type specifications. It is assumed that "Part 1 General – Administrative and Procedures" and "Part 3 Execution – Installation and Maintenance" are part of an overall audio system or project specification.

PART 2 PRODUCTS
2.01 Approved Manufacturer/Product
A. RCF, Via Raffaello 13, 42124 , Reggio Emilia, Italy. B. Model number: HL20-WP
2.02 Design
Configuration: Compact 2 way speaker. LF Sub-section 2x10", 2.5" voice coil. , HF Sub-section
1.5" , 3" voice coil.
2.03 Acoustical Proprieties
Nominal dispersion angle: Horizontal: 100° - Vertical: 15°. Axial frequency range: 55 Hz - 20
kHz Axial sensitivity: 98 dB LF, 109 dB HF, 1W @ 1m. Power handling: Applicable power 600 W
RMS LF, 110 Watt RMS HF. Applicable power 700W, Musical power 1400 W , Peak power 2800
W. Nominal impedance: 16 Ohm LF, 16 Ohm MF/HF.
2.04 Physical Properties
Enclosure: Trapezoidal, 21 mm birch plywood construction. Rigging inserts: 6 x Side M10
rigging points. Color: White, Custom color. Grille: Custom perfored stel grill with open cell poly
fiber and waterproof cloth backing. Input Connectors: Amphenol eco/mat IP 67. Dimensions (H
x W x D): 334 x 735 x 450 mm.



ACOUSTICAL SPECIFICATIONS

ACCOUNTED FOR TOWN	7110
FREQ. RANGE (-10 dB)	55 Hz - 20 kHz
FREQ. RANGE (-3 dB)	65 Hz - 20 kHz
HORIZ. COVERAGE ANGLE (-6 dB)	100°
VERTICAL COVERAGE ANGLE (-6 dB)	15°
DIRECTIVITY FACTOR; Q	16
SYSTEM SENSITIVITY	102 dB,1W @ 1m $^{(1)}$
RATED MAXIMUM SPL	135 dB, @ 1m
SYSTEM NOMINAL IMPEDANCE	16 Ohm
SYSTEM INPUT POWER RATING RMS	LF 900 W, HF/MF 400W (2)
SYSTEM INPUT POWER RATING PEAK	LF 3600 W, HF/MF 1600W (2)
RECOMMENDED AMPLIFIER	LF 1800 W, HF/MF 800W (2)
HF PROTECTION	Active Mosfet compression driver
CROSSOVER	Recommended 800 Hz

TRANSDUCERS

LOW FREQUENCY	2 x 10" (254 mm) woofer 3" (76 mm) coil
NOMINAL IMPEDANCE	16 Ohm
INPUT POWER RATING	600 W AES
SENSITIVITY	98 dB, 1W @ 1m

HIGH FREQUENCY neo 1,5" (38mm) throat, 3" (75mm) coil NOMINAL IMPEDANCE 16 Ohm

INPUT POWER RATING 110 W AES **SENSITIVITY** 109 dB, 1W @ 1m

DHYSICAL

 $(H \times W \times D)$:

WEIGHT:

FIIISICAL	
ENCLOSURE:	Double Trapezoidal, 21 mm birch plywood construction
	2 i illili bilcii piywood colistiaction
RIGGING INSERTS:	6 x Side M10 rigging points
COLOR:	White, Custom color, scratch resistant paint
GRILLE:	Custom perfored stel grill with open cell poly fiber and waterproof cloth backing
INPUT CONNECTORS:	Amphenol eco/mat IP 67
DIMENSIONS	13.14"x 28.93"x 17.71"

334 x 735 x 450 mm

74.95 lb - 34 Kg

¹⁾ Measured on axis in the far field with 1 watt (2.83V RMS, 8 Ohm) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300 Hz to 3 kHz.

2) Using 20 Hz to 20 kHz, Pink Noise Spectrum, 2 hours, + 6 dB crest factor, with RMS voltage calculated on

speaker minimum impedance.

3) Recommended Amplifier is a power capability value that should be taken as a guide.