OPERATING MANUAL AND USER GUIDE

Delta X10 Delta X215 Delta X12 Delta X15B Delta X15 Delta X18B Delta X12M Delta X218B Delta X15M





IMPORTANT WARNINGS & SAFETY INSTRUCTIONS

- 1. READ ALL INSTRUCTIONS carefully and become familiar with the features and functions of these products before operating them.
- 2. RETAIN THESE INSTRUCTIONS for future reference.
- 3. COMPLY WITH ALL WARNINGS All warnings and instructions for this product should be adhered to.
- 4. USE WITH AMPLIFIERS In order to avoid damage to drivers and other equipment, it is advisable to establish and follow a routine for powering up and powering down a sound system. With all system components connected, turn on source equipment (mixers, signal processors, record and playback units, etc.) BEFORE powering up amplifiers. Transient voltages from powering up source equipment can damage speakers if amplifiers are already turned on. Make sure that amplifier volumes are set to their minimum settings and power up any system amplifiers LAST. It is recommended that all system components be allowed to stabilize for several seconds before any source signals are introduced or level setting adjustments are made. Similarly, when shutting systems down, turn all amplifiers off first, before powering down any other system components.
- CABLES Do not use shielded or microphone cables for connection between amplifiers and speakers. Use only approved speaker cables with proper connectors.
- 6. CAUTION These professional loudspeaker systems are capable of generating very high sound pressure levels. Use care with placement and operation to avoid exposure to excessive volume levels. Permanent hearing damage can result when operated to extreme levels.
- SERVICE There are no user serviceable parts inside this product. Users should not attempt to service this product. Warranty nullification could result if this is attempted.
- 8. RIGGING SUSPENDING MOUNTING Rigging suspending or mounting of speaker systems can expose members of the public to serious health risks and even death.

UNDER NO CIRCUMSTANCES ATTEMPT TO RIG, SUSPEND OR OTHERWISE MOUNT THESE SPEAKERS UNLESS YOU ARE FULLY QUALIFIED AND CERTIFIED TO DO SO BY RELEVANT LOCAL, STATE AND NATIONAL AUTHORITIES. ALL RELEVANT SAFETY REGULATIONS MUST BE FOLLOWED. IF YOU ARE NOT PROPERLY QUALIFIED OR DO NOT KNOW OF PERTINENT REGULATIONS, CONSULT QUALIFIED PERSONNEL FOR ADVICE.

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INTRODUCTION

Delta X builds on the global success of the Wharfedale Pro Delta series.

Constructed from 15mm plywood and covered in the highest quality Rhino Rock paint, the Delta X models are instantly recognizable by their engraved iconic Wharfedale Pro 'boomerang' logo on their cabinets. The fresh cosmetic design however is not the only improvement the engineering team have made.

Internally Delta X also has a new crossover design and construction. Using new component positioning and bracing, the sensitive crossover electronics have been re-engineered to improve long term performance and reliability – even at the highest of volumes.

With rear panel switching, Delta-X can operate in either Bi-Amp or Full range modes. This routing flexibility allows for Delta X systems to be refined using multiple amplifiers and external crossovers.

Custom Wharfedale Pro transducers have also been selected. High output, low physical distortion cast frame woofers deliver unparalleled low frequency response. With the exception of the Delta X10, 2" titanium compression drivers are coupled to 90°x45° elliptical waveguides for impressive output level and smooth HF dispersion.

With a full lineup of 9 models, ranging from the 300w RMS Delta X10 to the 1600w RMS Dual Chamber 2 \times 18" Delta X218 subwoofer, Delta X models are perfect for fixed installation and touring applications.

MODELS

- ♦ Delta X10 Passive Loudspeaker
- ♦ Delta X12 Passive Loudspeaker
- ♦ Delta X12M Passive Stage Monitor
- ♦ Delta X15 Passive Loudspeaker
- ♦ Delta X15M Passive Stage Monitor
- ♦ Delta X215 Passive Loudspeaker
- ♦ Delta X15B Passive Subwoofer
- ♦ Delta X18B Passive Subwoofer
- ♦ Delta X218B Passive Dual Chamber Subwoofer

FEATURES

- ♦ High power, low distortion cast frame woofers
- ♦ 1" exit, 1.75" titanium diaphragm compression drivers(only Delta X10)
- ♦ 1.4" exit, 2" titanium diaphragm compression drivers
- ♦ Externally switchable full range/bi-amp operation
- ♦ Externally switchable discrete/parallel operation (only X218B)
- ♦ 90°x60° elliptical waveguides (only Delta X10)
- ♦ 90°x45° elliptical waveguides
- ♦ Dual angle pole mount receptacles
- Plywood construction with internal bracing
- ♦ 4-way high impact plastic carry handles
- Rhino Rock™ texturised composite finish
- ♦ Parallel speakON compatible inputs
- ♦ Through outputs on "M" models
- ♦ High-pass outputs on X15B and X18B

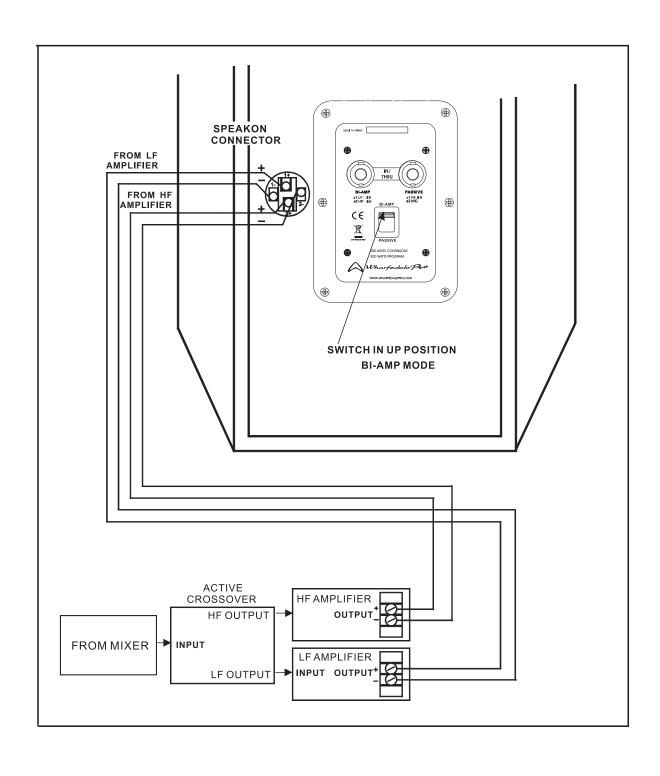
INSTALLATION

• Before attempting to install a Delta X Series loudspeaker system please refer to the important warnings and safety instructions. Only qualified personnel should install a loudspeaker system.

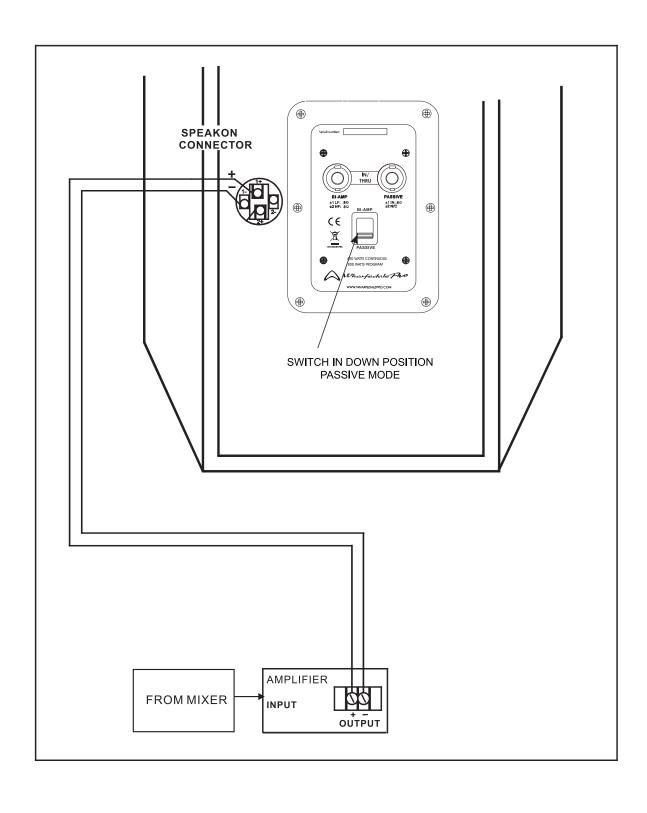
Improper installation of a loudspeaker system can cause serious harm and even death if correct procedure is not followed. Anyone attempting installation assumes all liability arising from such use.

- Bi-amp switching ensure that the internal passive network selector is in the correct position. When using an external active network select the bi-amp setting. Failiure to do his can result in damage to the drivers of your Delta X Series loudspeakers.
- Models with dual angle pole mount sockets (Delta X10, Delta X12 and Delta X15) have an angled socket that angles the cabinet down by 10°. This allows more sound to be aimed directly at the audience and less at the ceiling, reducing early reflections. Please ensure that the correct socket is used for each speaker.

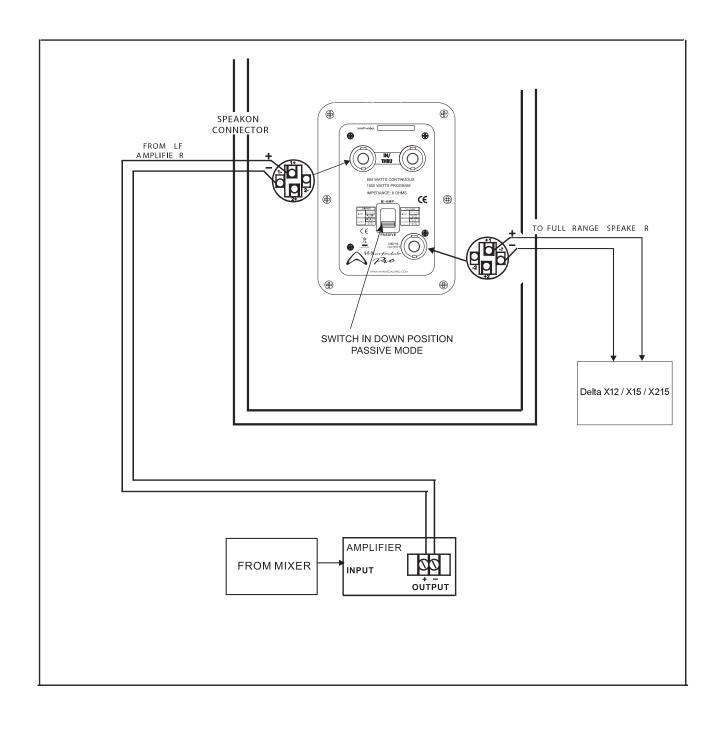
DELTA X10/X12/X12M/X15/X15M/X215 BI-AMP WIRING



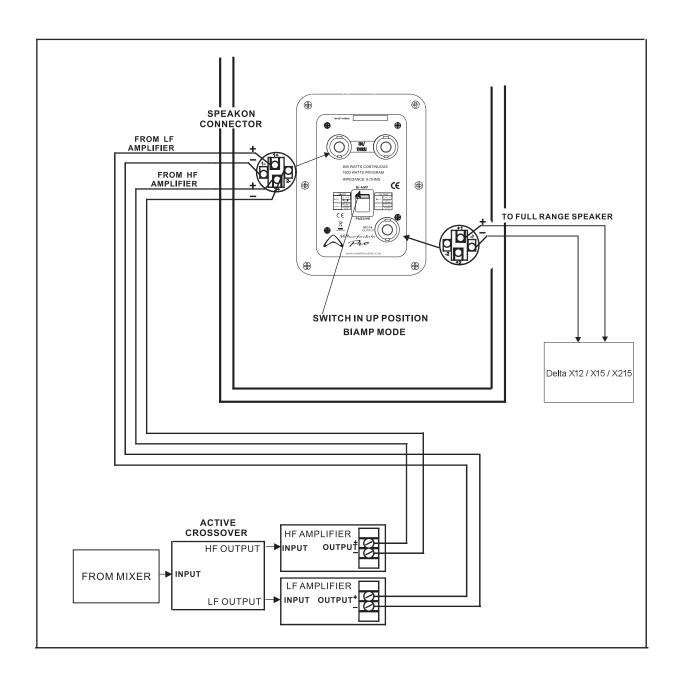
DELTA X10/X12/X12M/X15/X15M/X215 FULLRANGE WIRING



DELTA X15B/X18B FULLRANGE WIRING

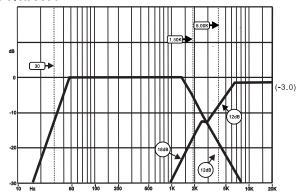


DELTA X15B/X18B BI-AMP WIRING

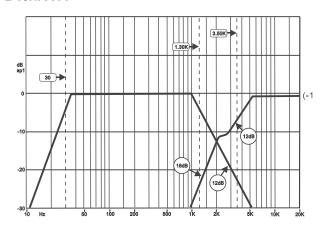


Delta X Series SUGGESTED NETWORK SETTINGS

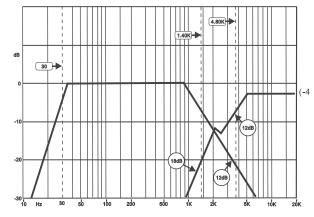
Delta X10



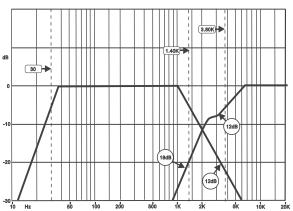
Delta X15



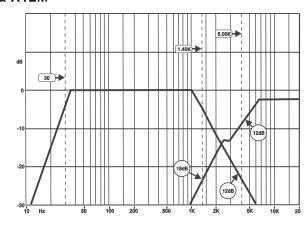
Delta X12



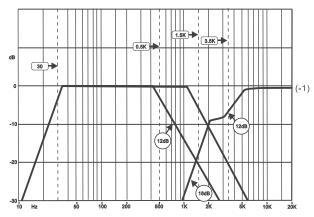
Delta X15M



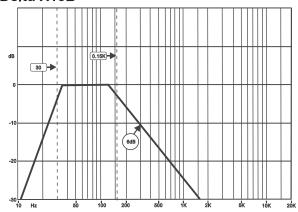
Delta X12M



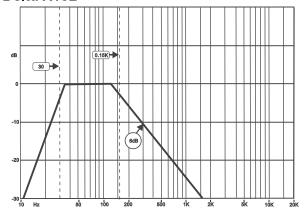
Delta X215



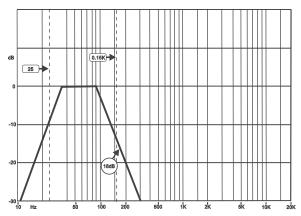
Delta X15B



Delta X18B



Delta X218B



RIGGING/SUSPENDING

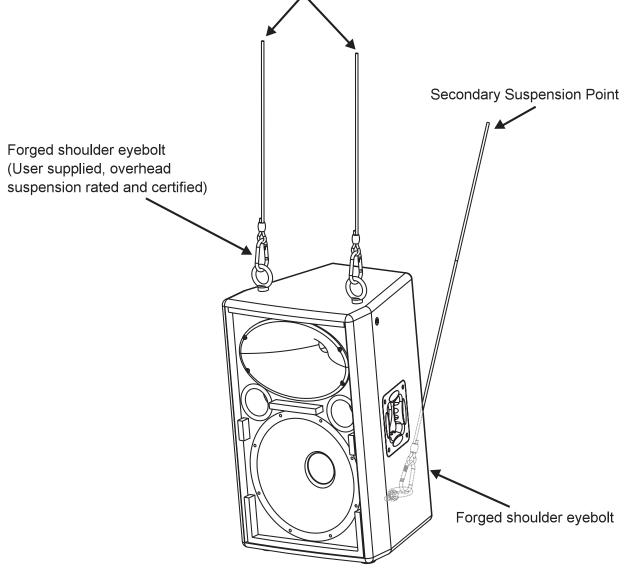
Using Shoulder Eyebolts

Always apply the load to the bolt along the plane of the eye. For long term installation use a thread-locking compound. Do not attempt to bend or otherwise deform any rigging hardware.

Please refer to the important safety warnings before you consider suspending any loudspeakers.

Each primary load bearing suspension point shall be rated for the total load.

(A minimum 5:1 Design Factor or Local Standard should be observed, whichever is greater)



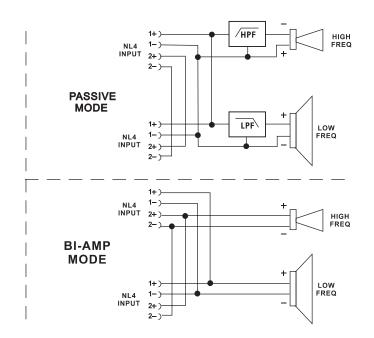
Working load limits: No more than four (4) high (vertical)
The four (4) high vertical specification represents a static ratio of 7:1

BLOCK/WIRING DIAGRAMS

Delta X10

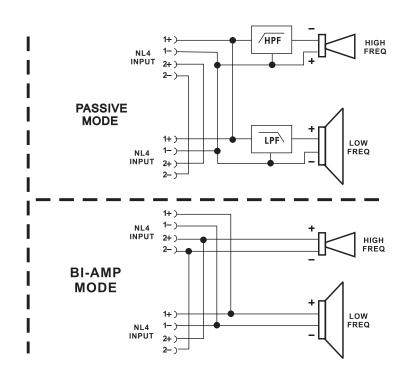
Block Diagram





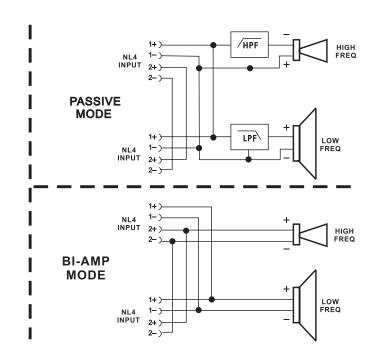
Delta X12 Crossover Block Diagram





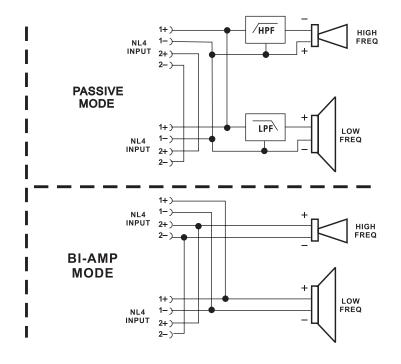
Delta X15 Crossover Block Diagram





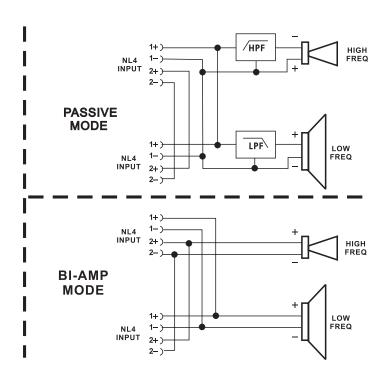
Delta X12M Crossover Block Diagram





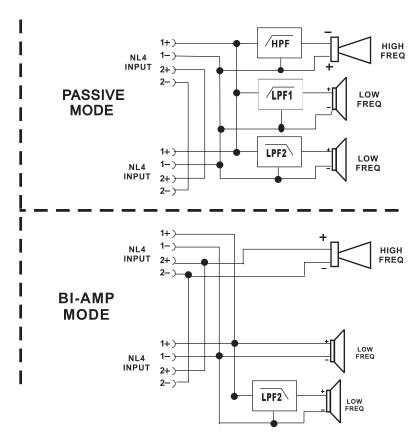
Delta X15M Crossover Block Diagram





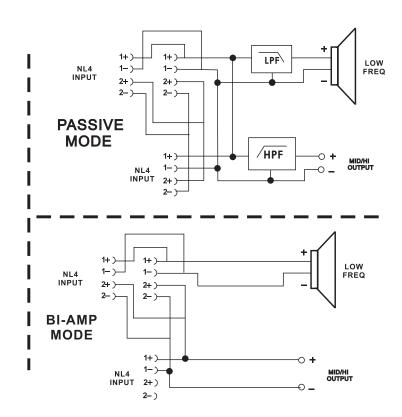
Delta X215 Crossover Block Diagram



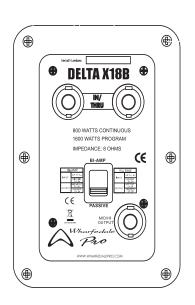


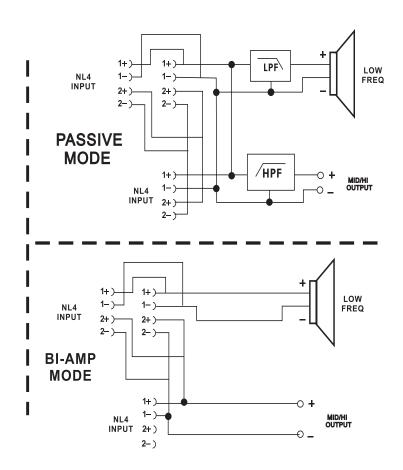
Delta X15B Crossover Block Diagram



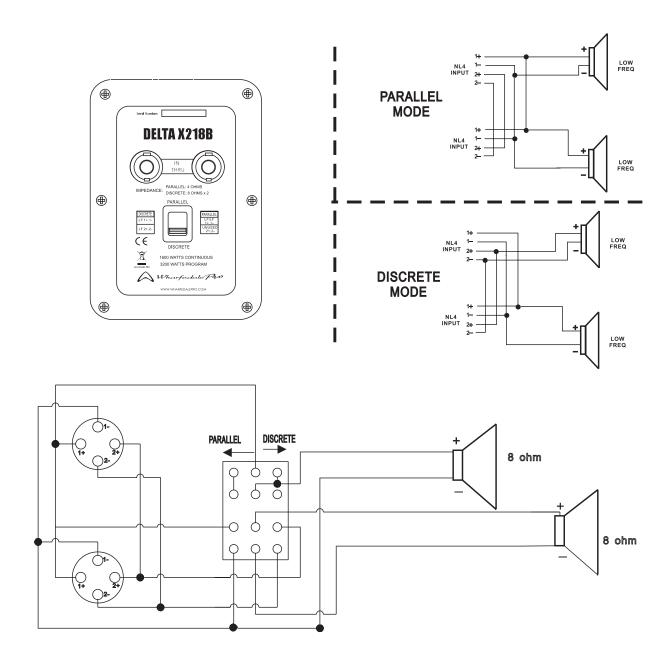


Delta X18B Crossover Block Diagram



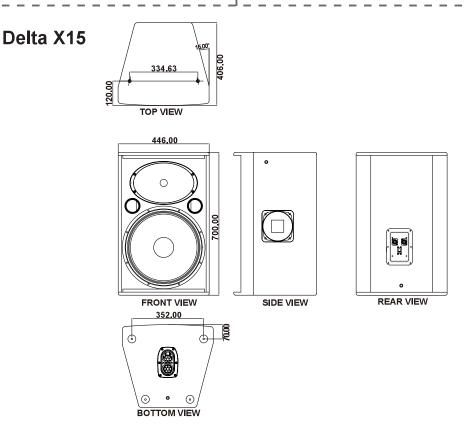


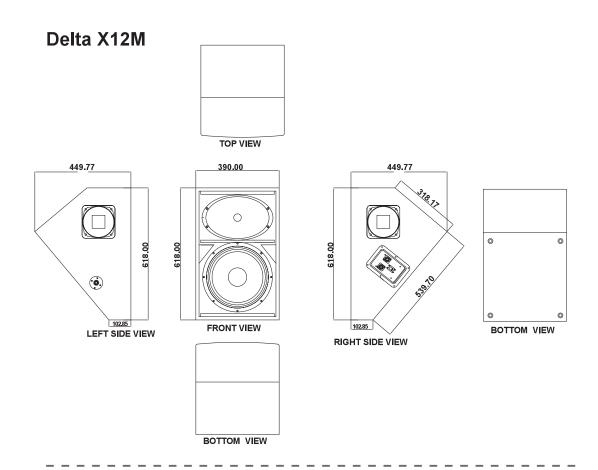
Delta X218B Crossover Block Diagram



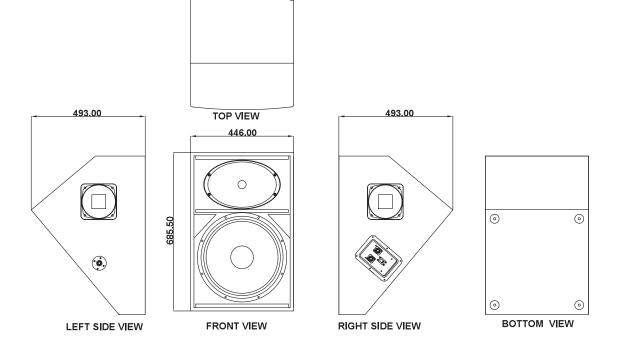
DIMENSIONAL DRAWINGS

Delta X10 Delta X12 241.49 212.4 373.00 230.7 282.59 TOP VIEW TOP VIEW 338.00 390.00 SIDE VIEW SIDE VIEW FRONT VIEW FRONT VIEW \odot \odot 296.00 REAR VIEW REAR VIEW 212.4 **BOTTOM VIEW BOTTOM VIEW**

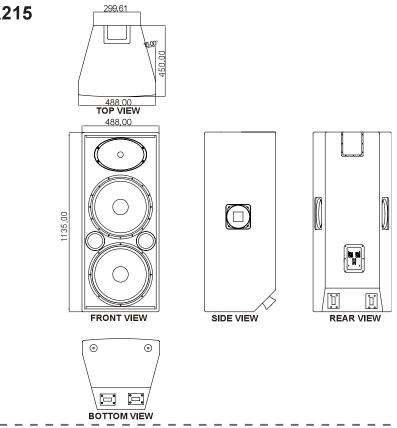




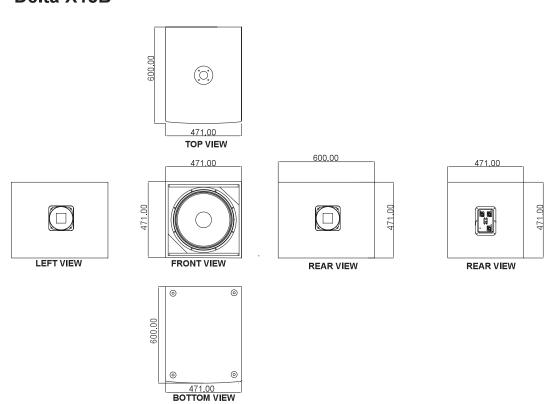
Delta X15M



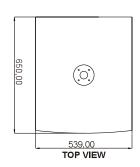
Delta X215

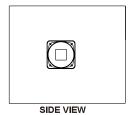


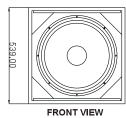
Delta X15B

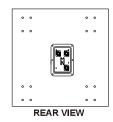


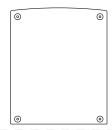
Delta X18B



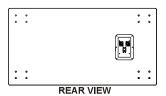




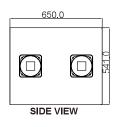


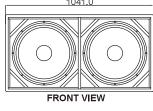


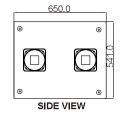
Delta X218B

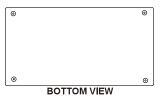












SPECIFICATIONS

System Type				
Configuration	Model Name	DELTA-X10	DELTA-X12	DELTA-X15
Frequency Response (+/-3dB) 65-20kHz 65-20kHz 55-20kHz 45-20kHz	System Type	Passive	Passive	Passive
Frequency Range (- 10 dB)	Configuration	Two-way	Two-way	Two-way
Sensitivity (2.83v/fm) 97dB 97dB 98dB 139dB 131dB	Frequency Response (+/-3dB)	65-20kHZ	60-20kHZ	50-20KHZ
Calculated Maximum SPL @1m 128dB 129dB 131dB 80 80 80 80 80 80 80 8	Frequency Range (- 10 dB)	60-20kHZ	55-20kHZ	45-20KHZ
System Rated Impedance SΩ SΩ SΩ SΩ SΩ SΩ SΩ S	Sensitivity (2.83v/1m)	97dB	97dB	98dB
Low Frequency Transducer Size 286mm / 10" Paper 332mm / 12" Paper 404mm / 15" Paper Voice-Coll Size 63.5mm / 25" 77.1mm / 3"	Calculated Maximum SPL @1m	128dB	129dB	131dB
Voice-Coil Size 63.5mm / 2.5" 77.1mm / 3" 77.1mm / 3" Rated Impedance 8Ω 8Ω 8Ω LF Power (re:AES2-2012) 300W 400W 500W High Frequency Transducer HF Driver Type Compression Driver Compression Driver Compression Driver Voice-Coil Size 44.5mm / 1.75" Titanium 50.8mm / 2" Titanium 50.8mm / 2" Titanium 50.8mm / 2" Titanium Exit Size 25.4mm / 1" 35.6mm / 1.4" 35.6mm / 1.4" 35.6mm / 1.4" Diaphragm Material Titanium Titanium Titanium Titanium Rated Impedance 8Ω 8Ω 8Ω 8Ω HF Power (re:AES2-2012) 40W 50W 50W 50W Nominal Coverage (H x V) 90" x 60" 90" x 45" 90" x 45" Power System Continuous Power 300W 400W 500W System Programme Power 600W 90 w 40W 500W System Programme Power 100W 200W 100W 200W Crossover frequency 2.8kHz 1.	System Rated Impedance	8Ω	8Ω	8Ω
Rated Impedance 8Ω 8Ω 8Ω 8Ω 8Ω LF Power (re:AES2-2012) 300W 400W 500W High Frequency Transducer HF Driver Type Compression Driver Compression Driver Compression Driver Voice-Coil Size 44.5mm / 1.75° Titanium 50.8mm / 2° Titanium 50.8mm / 2° Titanium Exit Size 25.4mm / 1° 35.6mm / 1.4° 35.6mm / 1.4° Diaphragm Material Titanium Titanium Titanium Titanium Rated Impedance 8Ω 8Ω 8Ω HF Power (re:AES2-2012) 40W 50N 50W Nominal Coverage (Hx V) 90° x 60° 90° x 45° 90° x 45° Power System Continuous Power 500W 300W 1000W System Peak Power 1200W 1600W 2000W Crossover frequency 2,8Hz 1,8Hz 1,8Hz 1,8Hz Input Connector 2 x NL4 (speakON Compatible) 2 x NL4 (speakON Compatible) 2 x NL4 (speakON Compatible) Hardware Pole Mount Dual Angle (0° or 10°) 35mm Pole Socket Dual Angle (0° or 10°) 35mm Pole Socket Handles 2 on Sides 2 on Sides 2 on Sides 2 on Sides Enclosure Enclosure 15mm Plywood 15mm Plywood 15mm Plywood Finish black paint 1,5 mm Seel Black Grille Material & Finish 1,5 mm Seel Black or White 1,5 mm Seel Black 1,5 mm Seel Black Grille Material & 50mm / 19.7° 630mm / 24.8° 700mm / 27.8° Width Front 330mm / 13.3° 390mm / 15.3° 281.4mm / 11.1° Depth 330mm / 13.9° 373mm / 14.7° 406mm / 15° Depth 330mm / 13.9° 373mm / 14.7° 406mm / 15.7° Width Front 400mm / 15.7° 566mm / 22.3° 638mm / 25.1° Width Front 400mm / 15.7° 566mm / 22.3° 638mm / 25.1° Width Front 400mm / 15.7° 566mm / 22.3° 638mm / 25.1° Width Front 400mm / 15.7° 566mm / 22.3° 638mm / 25.1° Width Front 400mm / 15.7° 566mm / 22.3° 638mm / 25.1° Width Front 400mm / 15.7° 566mm / 22.3° 638mm / 25.1° Width Front 400mm / 15.7° 566mm / 22.3° 638mm / 25.1° Wid	Low Frequency Transducer Size	288mm / 10" Paper	332mm / 12" Paper	404mm / 15" Paper
LF Power (re:AES2-2012)	Voice-Coil Size	63.5mm / 2.5"	77.1mm / 3"	77.1mm / 3"
High Frequency Transducer	Rated Impedance	8Ω	8Ω	8Ω
HF Driver Type	LF Power (re:AES2-2012)	300W	400W	500W
Voice-Coil Size 44.5mm / 1.75" Titanium 50.8mm / 2" Titanium 50.8mm / 2" Titanium Exit Size 25.4mm / 1" 35.6mm / 1.4" 35.6mm / 1.4" Diaphragm Material Titanium Titanium Titanium Rated Impedance 8Ω 8Ω 8Ω HF Power (re:AES2-2012) 40W 50W 50W Nominal Coverage (H x V) 90" x 60" 90" x 45" 90" x 45" Power Power 50W 400W 500W System Pogramme Power 500W 800W 1000W System Peak Power 1200W 1600W 2000W Crossover frequency 2,8kHz 1,8kHz 1,8kHz Input Connector 2 x NL4 (speakON Compatible) 2 x NL4 (speakON Compatible) 2 x NL4 (speakON Compatible) Hardware Pole Mount Dual Angle (0" or 10") 35mm Pole Socket Dual Angle (0" or 10") 35mm Pole Socket Dual Angle (0" or 10") 35mm Pole Socket Handles 2 on Sides 2 on Sides 2 on Sides 2 on Sides Enclosure Enclosure Enclosure Material 15mm Plywood	High Frequency Transducer			
Exit Size 25.4mm / 1" 35.6mm / 1.4" 35.6mm / 1.4" Diaphragm Material Tianium Ti	HF Driver Type	Compression Driver	Compression Driver	Compression Driver
Diaphragm Material Titanium Titanium Titanium Titanium Titanium Titanium Rated Impedance 8Ω 8Ω 8Ω 8Ω 8Ω 8Ω 8Ω 8	Voice-Coil Size	44.5mm / 1.75" Titanium	50.8mm / 2" Titanium	50.8mm / 2" Titanium
Rated impedance 8Ω 8Ω 8Ω HF Power (re:AES2-2012) 40W 50W 50W Nominal Coverage (H x V) 90° x 60° 90° x 45° 90° x 45° Power Power Power Power System Continuous Power 300W 400W 500W System Programme Power 600W 800W 1000W System Peak Power 1200W 1600W 2000W Crossover frequency 2.8kHz 1.8kHz 1.8kHz Input Connector 2 x NL4 (speakON Compatible) 2 x NL4 (speakON Compatible) 2 x NL4 (speakON Compatible) Hardware Pole Mount Dual Angle (0° or 10°) 35mm Pole Socket	Exit Size	25.4mm / 1"	35.6mm / 1.4"	35.6mm / 1.4"
HF Power (re:AES2-2012)	Diaphragm Material	Titanium	Titanium	Titanium
Nominal Coverage (H x V) 90° x 60° 90° x 45° 90° x 45° 90° x 45°	Rated Impedance	8Ω	8Ω	8Ω
Power System Continuous Power 300W 400W 500W 500W 500W System Programme Power 600W 800W 1000W 1000W 2000W Crossover frequency 2.8kHz 1.8kHz	HF Power (re:AES2-2012)	40W	50W	50W
System Continuous Power 300W 400W 500W	Nominal Coverage (H x V)	90° x 60°	90° x 45°	90° x 45°
System Programme Power 600W 800W 1000W	Power			
System Peak Power 1200W 1600W 2000W	System Continuous Power	300W	400W	500W
Crossover frequency	System Programme Power	600W	800W	1000W
Input Connector	System Peak Power	1200W	1600W	2000W
Hardware	Crossover frequency	2.8kHz	1.8kHz	1.8kHz
Pole Mount Dual Angle (0° or 10°) 35mm Pole Socket Dual Angle (0° or 10°) 35mm Pole Socket Dual Angle (0° or 10°) 35mm Pole Socket Handles 2 on Sides 2 on Sides 2 on Sides Enclosure Enclosure Material 15mm Plywood 15mm Plywood 15mm Plywood Finish black paint black paint black paint Grille Material & Finish 1.5 mm Steel Black or White 1.5 mm Steel Black 1.5 mm Steel Black Dimensions - Unpacked) Height 500mm / 19.7" 630mm / 24.8" 700mm / 27.6" Width Front 338mm / 13.3" 390mm / 15.3" 446mm / 17.6" Width Rear 212.4mm / 8.4" 241.2mm / 9.5" 281.4mm / 11.1" Depth 330mm / 13" 373mm / 14.7" 406mm / 16" Dimensions - Packed (mm / inches): Height 575mm / 22.6" 745mm / 29.3" 803mm / 31.6" Width Front 400mm / 15.7" 566mm / 22.3" 638mm / 25.1" Width Rear 300mm / 11.8" 328mm / 12.9" <	Input Connector	2 x NL4 (speakON Compatible)	2 x NL4 (speakON Compatible)	2 x NL4 (speakON Compatible)
Handles 2 on Sides 2 on Sides 2 on Sides	Hardware			
Enclosure Enclosure Material 15mm Plywood 15mm Plack 15mm Plywood 15mm Plack 15mm Plywood 15mm Plywood 15mm Plack 1	Pole Mount	Dual Angle (0° or 10°) 35mm Pole Socket	Dual Angle (0° or 10°) 35mm Pole Socket	Dual Angle (0° or 10°) 35mm Pole Socket
Enclosure Material 15mm Plywood 15mm Plywood Finish black paint black paint black paint Grille Material & Finish 1.5 mm Steel Black or White 1.5 mm Steel Black Dimensions - Unpacked) Height 500mm / 19.7" 630mm / 24.8" 700mm / 27.6" Width Front 338mm / 13.3" 390mm / 15.3" 446mm / 17.6" Width Rear 212.4mm / 8.4" 241.2mm / 9.5" 281.4mm / 11.1" Depth 330mm / 13" 373mm / 14.7" 406mm / 16" Dimensions - Packed (mm / inches): Height 575mm / 22.6" 745mm / 29.3" 803mm / 31.6" Width Front 400mm / 15.7" 566mm / 22.3" 638mm / 25.1" Width Rear 300mm / 11.8" 328mm / 12.9" 366mm / 14.4" Depth 386mm / 15.2" 464mm / 18.3" 498mm / 19.6" Weight Net Weight (kg / lbs) 16.58kg / 36.5lbs 24.7kg / 54.5lbs 29.9kg / 65.9lbs	Handles	2 on Sides	2 on Sides	2 on Sides
Enclosure Material 15mm Plywood 15mm Plywood Finish black paint black paint black paint Grille Material & Finish 1.5 mm Steel Black or White 1.5 mm Steel Black Dimensions - Unpacked) Height 500mm / 19.7" 630mm / 24.8" 700mm / 27.6" Width Front 338mm / 13.3" 390mm / 15.3" 446mm / 17.6" Width Rear 212.4mm / 8.4" 241.2mm / 9.5" 281.4mm / 11.1" Depth 330mm / 13" 373mm / 14.7" 406mm / 16" Dimensions - Packed (mm / inches): Height 575mm / 22.6" 745mm / 29.3" 803mm / 31.6" Width Front 400mm / 15.7" 566mm / 22.3" 638mm / 25.1" Width Rear 300mm / 11.8" 328mm / 12.9" 366mm / 14.4" Depth 386mm / 15.2" 464mm / 18.3" 498mm / 19.6" Weight Net Weight (kg / lbs) 16.58kg / 36.5lbs 24.7kg / 54.5lbs 29.9kg / 65.9lbs				
Finish black paint black paint black paint black paint Grille Material & Finish 1.5 mm Steel Black or White 1.5 mm Steel Black 1.5 mm Steel Black Dimensions - Unpacked) Height 500mm / 19.7" 630mm / 24.8" 700mm / 27.6" Width Front 338mm / 13.3" 390mm / 15.3" 446mm / 17.6" Width Rear 212.4mm / 8.4" 241.2mm / 9.5" 281.4mm / 11.1" Depth 330mm / 13" 373mm / 14.7" 406mm / 16" Dimensions - Packed (mm / inches): Height 575mm / 22.6" 745 mm / 29.3" 803mm / 31.6" Width Front 400mm / 15.7" 566mm / 22.3" 638mm / 25.1" Width Rear 300mm / 11.8" 328mm / 12.9" 366mm / 14.4" Depth 386mm / 15.2" 464mm / 18.3" 498mm / 19.6" Weight Net Weight (kg / lbs) 16.58kg / 36.5lbs 24.7kg / 54.5lbs 29.9kg / 65.9lbs				
Second Nation		15mm Plywood	15mm Plywood	15mm Plywood
Dimensions - Unpacked) Height 500mm / 19.7" 630mm / 24.8" 700mm / 27.6" Width Front 338mm / 13.3" 390mm / 15.3" 446mm / 17.6" Width Rear 212.4mm / 8.4" 241.2mm / 9.5" 281.4mm / 11.1" Depth 330mm / 13" 373mm / 14.7" 406mm / 16" Dimensions - Packed (mm / inches): Height 575mm / 22.6" 745 mm / 29.3" 803mm / 31.6" Width Front 400mm / 15.7" 566mm / 22.3" 638mm / 25.1" Width Rear 300mm / 11.8" 328mm / 12.9" 366mm / 14.4" Depth 386mm / 15.2" 464mm / 18.3" 498mm / 19.6" Weight Net Weight (kg / lbs) 16.58kg / 36.5lbs 24.7kg / 54.5lbs 29.9kg / 65.9lbs		black paint	<u> </u>	black paint
Height 500mm / 19.7" 630mm / 24.8" 700mm / 27.6" Width Front 338mm / 13.3" 390mm / 15.3" 446mm / 17.6" Width Rear 212.4mm / 8.4" 241.2mm / 9.5" 281.4mm / 11.1" Depth 330mm / 13" 373mm / 14.7" 406mm / 16" Dimensions - Packed (mm / inches): Height 575mm / 22.6" 745 mm / 29.3" 803mm / 31.6" Width Front 400mm / 15.7" 566mm / 22.3" 638mm / 25.1" Width Rear 300mm / 11.8" 328mm / 12.9" 366mm / 14.4" Depth 386mm / 15.2" 464mm / 18.3" 498mm / 19.6" Weight Weight (kg / lbs) 16.58kg / 36.5lbs 24.7kg / 54.5lbs 29.9kg / 65.9lbs		1.5 mm Steel Black or White	1.5 mm Steel Black	1.5 mm Steel Black
Width Front 338mm / 13.3" 390mm / 15.3" 446mm / 17.6" Width Rear 212.4mm / 8.4" 241.2mm / 9.5" 281.4mm / 11.1" Depth 330mm / 13" 373mm / 14.7" 406mm / 16" Dimensions - Packed (mm / inches): Height 575mm / 22.6" 745 mm / 29.3" 803mm / 31.6" Width Front 400mm / 15.7" 566mm / 22.3" 638mm / 25.1" Width Rear 300mm / 11.8" 328mm / 12.9" 366mm / 14.4" Depth 386mm / 15.2" 464mm / 18.3" 498mm / 19.6" Weight Net Weight (kg / lbs) 16.58kg / 36.5lbs 24.7kg / 54.5lbs 29.9kg / 65.9lbs	· · · · · · · · · · · · · · · · · · ·			
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Dimensions - Packed (mm / inches): Height 575mm / 22.6" 745 mm / 29.3" 803mm / 31.6" Width Front 400mm / 15.7" 566mm / 22.3" 638mm / 25.1" Width Rear 300mm / 11.8" 328mm / 12.9" 366mm / 14.4" Depth 386mm / 15.2" 464mm / 18.3" 498mm / 19.6" Weight Net Weight (kg / lbs) 16.58kg / 36.5lbs 24.7kg / 54.5lbs 29.9kg / 65.9lbs	-	212.4mm / 8.4"	241.2mm / 9.5"	281.4mm / 11.1"
Height 575mm / 22.6" 745 mm / 29.3" 803mm / 31.6" Width Front 400mm / 15.7" 566mm / 22.3" 638mm / 25.1" Width Rear 300mm / 11.8" 328mm / 12.9" 366mm / 14.4" Depth 386mm / 15.2" 464mm / 18.3" 498mm / 19.6" Weight Net Weight (kg / lbs) 16.58kg / 36.5lbs 24.7kg / 54.5lbs 29.9kg / 65.9lbs	<u></u>	330mm / 13"	373mm / 14.7"	406mm / 16"
Width Front 400mm / 15.7" 566mm / 22.3" 638mm / 25.1" Width Rear 300mm / 11.8" 328mm / 12.9" 366mm / 14.4" Depth 386mm / 15.2" 464mm / 18.3" 498mm / 19.6" Weight Net Weight (kg / lbs) 16.58kg / 36.5lbs 24.7kg / 54.5lbs 29.9kg / 65.9lbs				
Width Rear 300mm / 11.8" 328mm / 12.9" 366mm / 14.4" Depth 386mm / 15.2" 464mm / 18.3" 498mm / 19.6" Weight Net Weight (kg / lbs) 16.58kg / 36.5lbs 24.7kg / 54.5lbs 29.9kg / 65.9lbs	<u>_</u>	575mm / 22.6"	745 mm / 29.3"	
Depth 386mm / 15.2" 464mm / 18.3" 498mm / 19.6" Weight Net Weight (kg / lbs) 16.58kg / 36.5lbs 24.7kg / 54.5lbs 29.9kg / 65.9lbs	Width Front	400mm / 15.7"	566mm / 22.3"	638mm / 25.1"
Weight Net Weight (kg / lbs) 16.58kg / 36.5lbs 24.7kg / 54.5lbs 29.9kg / 65.9lbs		300mm / 11.8"	328mm / 12.9"	366mm /14.4"
Net Weight (kg / lbs) 16.58kg / 36.5lbs 24.7kg / 54.5lbs 29.9kg / 65.9lbs	_ 	386mm / 15.2"	464mm / 18.3"	498mm / 19.6"
Gross Weight (kg / lbs) 19.6kg / 43lbs 29kg / 63.8lbs 35.5kg / 78.1lbs				*
	Gross Weight (kg / lbs)	19.6kg / 43lbs	29kg / 63.8lbs	35.5kg / 78.1lbs

SPECIFICATIONS

Model Name	DELTA-X12M	DELTA-X15M	DELTA-X215
System Type	Passive	Passive	Passive
Configuration	Two-way	Two-way	Quassi Three-way
Frequency Response (+/-3dB)	60-20kHZ	55-20KHZ	45-20KHZ
Frequency Range (- 10 dB)	55-20kHZ	50-20KHZ	45-20KHZ
Sensitivity (2.83v/1m)	97dB	98dB	101dB
Calculated Maximum SPL @1m	129dB	131dB	137dB
System Rated Impedance	8Ω	8Ω	4Ω
Low Frequency Transducer Size			
Voice-Coil Size	332mm / 12" Paper	404mm / 15" Paper	2 x 404mm / 15"
Rated Impedance	77.1mm / 3"	77.1mm / 3"	77.1mm / 3"
LF Power (re:AES2-2012)	8Ω	8Ω	2x8Ω
High Frequency Transducer	400W	500W	2x500W
HF Driver Type			
Voice-Coil Size	Compression Driver	Compression Driver	Compression Driver
Exit Size	50.8mm / 2" Titanium	50.8mm / 2" Titanium	50.8mm / 2"
Diaphragm Material	35.6mm / 1.4"	35.6mm / 1.4"	35.6mm / 1.4"
Rated Impedance	Titanium	Titanium	Titanium
HF Power (re:AES2-2012)	8Ω	8Ω	8Ω
Nominal Coverage (H x V)	50W	50W	50W
Power	90° x 45°	90° x 45°	90° x 45°
System Continuous Power			
System Programme Power	400W	500W	1000W
System Peak Power	800W	1000W	2000W
Crossover frequency	1600W	2000W	4000W
Input Connector	1.8kHz	1.8kHz	1.8Hz
Hardware	2 x NL4 (speakON Compatible)	2 x NL4 (speakON Compatible)	2 x NL4 (speakON Compatible)
Pole Mount			
Handles	2 on Sides	2 on Sides	2 on Sides / 1 on Back
Enclosure			
Enclosure Material	15mm Plywood	15mm Plywood	15mm Plywood
Finish	black paint	black paint	black paint
Grille Material & Finish	1.5 mm Steel Black	1.5 mm Steel Black	1.5 mm Steel Black
Dimensions - Unpacked)			
Height	449(SITU)mm/17.7"	493(SITU)19.4"	1135mm / 44.7"
Width Front	390mm/15.4"	446mm/17.6"	488mm / 19.2"
Width Rear	390mm/15.4"	446mm/17.6"	299.6mm / 11.8"
Depth	618mm/24.3"	685mm/27"	450mm / 17.7'
Dimensions - Packed (mm / inches):			
Height	462mm/18.2"	518mm/20.4"	1218mm / 48"
Width Front	690mm/27.2"	757mm/29.8"	558mm / 22'
Width Rear	690mm/27.2"	757mm/29.8"	558mm / 22'
Depth	522mm/20.6"	565mm/22.2"	522mm / 20.6"
Weight			
Net Weight (kg / lbs)	23.18kg/50.9lbs	27.24kg59.9lbs	52.9kg / 116.6lbs
Gross Weight (kg / lbs)	28.5kg/62.7lbs	33.96kg/74.7lbs	59kg / 130lbs

SPECIFICATIONS

System Type Pissake				
Configuration Subwoofer Subwoofer Dual Chamber Subwoofer	Model Name	DELTA-X15B	DELTA-X18B	DELTA-X218B
Frequency Rasponse (+7-8dB)	System Type	Passive	Passive	Passive
Frequency Range (-1 0 dB)	Configuration	Subwoofer	Subwoofer	Dual Chamber Subwoofer
Sensitivity (2.83v/stm) 98dB 99dB 100dB	Frequency Response (+/-3dB)	42-2kHZ(BI-AMP)	38-1.5kHZ(BI-AMP)	30-1.5KHZ
Calculated Maximum SPL @1m 132dB 134dB 138dB 138dB System Rated Impedance 30 or 4Q 80 or 4Q Parallel-4Q Discrete 80 x2 Low Frequency Transducer Size 470mm / 18" 470mm / 18" LP Power (Fex.ESE2-2012) 30 or 4Q 80 or 4Q 2x8Q High Frequency Transducer 700W 800W 800W HF Driver Type Voice-Coil Size - - Voice-Coil Size - - - Exit Size - - - Payman Material - - - Rated Impedance - - - HP Power (rex.AES2-2012) - - - Nominal Coverage (H x V) - - - System Power 700W 800W 1500W Parallel / 800W Discrete System Power 2800W 3200W Parallel / 800W Discrete System Power 2800W 3200W Parallel / 800W Discrete System Power 2800W 3200W Parallel / 800W Discrete System Power 2800W	Frequency Range (- 10 dB)	38-150HZ	30-1.5KHZ	30-1.5KHZ
System Rated Impedance 80 or 4Ω 80 or 4Ω Parallel 4Ω Discrete 8Ω v2	Sensitivity (2.83v/1m)	98dB	99dB	100dB
Low Frequency Transducer Size	Calculated Maximum SPL @1m	132dB	134dB	138dB
Voice-Coil Size	System Rated Impedance	8Ω or 4Ω	8Ω or 4Ω	Parallel:4Ω Discrete:8Ω x2
Rated Impedance	Low Frequency Transducer Size			
LF Power (re:AES2-2012)	Voice-Coil Size	404mm / 15"	470mm / 18"	470mm / 18"
High Frequency Transducer 700W 800W 800W	Rated Impedance	102mm / 4"	102mm / 4"	102mm / 4"
HF Driver Type	LF Power (re:AES2-2012)	8Ω or 4Ω	8Ω or 4Ω	2x8Ω
Voice-Coil Size	High Frequency Transducer	700W	800W	800W
Exit Size - - - - - -	HF Driver Type			
Diaphragm Material -	Voice-Coil Size	-	-	-
Rated Impedance	Exit Size	-	-	-
HF Power (re:AES2-2012)	Diaphragm Material	-	-	-
Nominal Coverage (H x V) -	Rated Impedance	-	-	-
Power - - - -	HF Power (re:AES2-2012)	-	-	-
System Continuous Power 700W 800W 1600W Parallel / 800W Discrete	Nominal Coverage (H x V)	-	-	-
System Programme Power	Power	-	-	-
System Peak Power 2800W 3200W 6400W Parallel / 3200W Discrete	System Continuous Power	700W	800W	1600W Parallel / 800W Discrete
Crossover frequency	System Programme Power	1400W	1600W	3200W Parallel / 1600W Discrete
Input Connector	System Peak Power	2800W	3200W	6400W Parallel / 3200W Discrete
Hardware	Crossover frequency	-	-	-
Pole Mount 35mm 35mm 35mm	Input Connector	2 x NL4 (speakON Compatible)	2 x NL4 (speakON Compatible)	2 x NL4 (speakON Compatible)
Handles 2 on Sides 2 on Sides 4 on Sides	Hardware			
Enclosure Enclosure Material 15mm Plywood 15mm Plywood 18mm Plywood Finish black paint black paint black paint Grille Material & Finish 1.5 mm Steel Black 1.5 mm Steel Black 1.5 mm Steel Black Dimensions - Unpacked) Height 471mm / 18.5" 539mm / 21.2" 541mm / 21.3" Width Front 471mm / 18.5" 539mm / 21.2" 1041mm / 41" Width Rear 471mm / 18.5" 539mm / 21.2" 1041mm / 41" Depth 600mm / 23.6" 650mm / 25.6" 650mm / 25.6" Dimensions - Packed (mm / inches): Height 556mm / 21.9" 624mm / 24.6" 626mm / 25.6" Width Front 672mm / 26.5" 722mm / 28.4" 1126mm / 44.3" Width Rear 672mm / 26.5" 722mm / 28.4" 1126mm / 44.3" Depth 543mm / 21.4" 611mm / 24.1" 722mm / 28.4" Weight Net Weight (kg / lbs) 31.5kg / 69.4lbs 37.3kg / 82.06lbs 78.9kg / 173.9lbs	Pole Mount	35mm	35mm	
Enclosure Material 15mm Plywood 15mm Plywood 18mm Plywood Finish black paint black paint black paint Grille Material & Finish 1.5 mm Steel Black 1.5 mm Steel Black Dimensions - Unpacked) 541mm / 21.3" Height 471mm / 18.5" 539mm / 21.2" 541mm / 21.3" Width Front 471mm / 18.5" 539mm / 21.2" 1041mm / 41" Width Rear 471mm / 18.5" 539mm / 21.2" 1041mm / 41" Depth 600mm / 23.6" 650mm / 25.6" 650mm / 25.6" Dimensions - Packed (mm / inches): - Packed (mm / inches): Height 556mm / 21.9" 624mm / 24.6" 626mm / 25.6" Width Front 672mm / 26.5" 722mm / 28.4" 1126mm / 44.3" Width Rear 672mm / 26.5" 722mm / 28.4" 1126mm / 44.3" Depth 543mm / 21.4" 611mm / 24.1" 722mm / 28.4" Weight Net Weight (kg / lbs) 31.5kg / 69.4lbs 37.3kg / 82.06lbs 78.9kg / 173.9lbs	Handles	2 on Sides	2 on Sides	4 on Sides
Enclosure Material 15mm Plywood 15mm Plywood 18mm Plywood Finish black paint black paint black paint Grille Material & Finish 1.5 mm Steel Black 1.5 mm Steel Black Dimensions - Unpacked) 541mm / 21.3" Height 471mm / 18.5" 539mm / 21.2" 541mm / 21.3" Width Front 471mm / 18.5" 539mm / 21.2" 1041mm / 41" Width Rear 471mm / 18.5" 539mm / 21.2" 1041mm / 41" Depth 600mm / 23.6" 650mm / 25.6" 650mm / 25.6" Dimensions - Packed (mm / inches): - Packed (mm / inches): Height 556mm / 21.9" 624mm / 24.6" 626mm / 25.6" Width Front 672mm / 26.5" 722mm / 28.4" 1126mm / 44.3" Width Rear 672mm / 26.5" 722mm / 28.4" 1126mm / 44.3" Depth 543mm / 21.4" 611mm / 24.1" 722mm / 28.4" Weight Net Weight (kg / lbs) 31.5kg / 69.4lbs 37.3kg / 82.06lbs 78.9kg / 173.9lbs				
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Story part Sto		15mm Plywood	15mm Plywood	18mm Plywood
Dimensions - Unpacked		black paint		·
Height 471mm / 18.5" 539mm / 21.2" 541mm / 21.3" Width Front 471mm / 18.5" 539mm / 21.2" 1041mm / 41" Width Rear 471mm / 18.5" 539mm / 21.2" 1041mm / 41" Depth 600mm / 23.6" 650mm / 25.6" 650mm / 25.6" Dimensions - Packed (mm / inches): Height 556mm / 21.9" 624mm / 24.6" 626mm / 25.6" Width Front 672mm / 26.5" 722mm / 28.4" 1126mm / 44.3" Width Rear 672mm / 26.5" 722mm / 28.4" 1126mm / 44.3" Depth 543mm / 21.4" 611mm / 24.1" 722mm / 28.4" Weight Net Weight (kg / lbs) 31.5kg / 69.4lbs 37.3kg / 82.06lbs 78.9kg / 173.9lbs		1.5 mm Steel Black	1.5 mm Steel Black	1.5 mm Steel Black
Width Front 471mm / 18.5" 539mm / 21.2" 1041mm / 41" Width Rear 471mm / 18.5" 539mm / 21.2" 1041mm / 41" Depth 600mm / 23.6" 650mm / 25.6" 650mm / 25.6" Dimensions - Packed (mm / inches): Height 556mm / 21.9" 624mm / 24.6" 626mm / 25.6" Width Front 672mm / 26.5" 722mm / 28.4" 1126mm / 44.3" Width Rear 672mm / 26.5" 722mm / 28.4" 1126mm / 44.3" Depth 543mm / 21.4" 611mm / 24.1" 722mm / 28.4" Weight Net Weight (kg / lbs) 31.5kg / 69.4lbs 37.3kg / 82.06lbs 78.9kg / 173.9lbs				
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Width Front 672mm / 26.5" 722mm / 28.4" 1126mm / 44.3" Width Rear 672mm / 26.5" 722mm / 28.4" 1126mm / 44.3" Depth 543mm / 21.4" 611mm / 24.1" 722mm / 28.4" Weight Net Weight (kg / lbs) 31.5kg / 69.4lbs 37.3kg / 82.06lbs 78.9kg / 173.9lbs	·			
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Net Weight (kg / lbs) 31.5kg / 69.4lbs 37.3kg / 82.06lbs 78.9kg / 173.9lbs	<u>.</u>	543mm / 21.4"	611mm / 24.1"	722mm / 28.4"
Gross Weight (kg / lbs) 35.12kg / 77.4lbs 43.2kg / 95.04lbs 86kg / 189.6lbs				
	Gross Weight (kg / lbs)	35.12kg / 77.4lbs	43.2kg / 95.04lbs	86kg / 189.6lbs

WHARFEDALE PRO LIMITED WARRANTY

Wharfedale Pro products are warranted of manufacturing or material defects for a period of one year from the original date of purchase. In the event of malfunction, contact your authorized Wharfedale Pro dealer or distributor for information.

*Be aware that warranty details may differ from country to country. Contact your dealers or distributor for information. These terms do not infringe your statutory rights.



Wharfedale Professional

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