



## Product Description

For very high SPL applications, the V15 delivers extended frequency response with high sound pressure levels, extremely low distortion, outstanding clarity and crystal clear intelligibility, definition and detail from its 380mm (15.00") point source, constant directivity Tannoy PowerDual™ drive unit. On top of all the features of the standard Tannoy Dual Concentric™ transducers, the PowerDual™ also uses larger high frequency and mid bass magnet assemblies and voice coils; this to increase efficiency, power handling and output SPL. The driver also has a reinforced paper mid bass cone and double rolled cambric surround, for high sensitivity, and a Tulip WaveGuide™ for the high frequency unit.

Being coincidentally aligned to a point source ensures the high frequency and mid bass sections deliver a smooth, uniform frequency response of 58Hz - 30kHz (-10dB) over a wide coverage area; unachievable with discrete two-way designs in the vertical plane, as massive cancellations appear off axis at the crossover frequency. The 75° conical dispersion of the PowerDual™ allows either vertical or horizontal mounting without compromising sound quality.

The wide dispersion, even coverage pattern and high power handling means that the V15 excels in applications as diverse as theme pubs and nightclubs, theatre front of house and effects and side fill in movie theatres and cinemas, right through to class leading audio reproduction in houses of worship, theme parks, leisure venues, audio visual installs and multi-use sports stadiums. In fact, anywhere higher output levels and lower frequency attainment are essential to deliver high quality live sound reinforcement, high quality public address or large scale music reinforcement installations. The V15 is designed to function properly without the use of any controller and can be bi-amplified for increased system flexibility. A compatible controller will equalise the system resulting in improved bass performance, enhanced HF responses as well as providing a 2-way crossover function for use with separate V Series bass systems.

Available in black or white, the rugged multi-ply birch cabinet has asymmetric profile, a convenient aspect ratio that allows installation in a variety of configurations, and comes complete with a carrying handle, blanking plate over a 35mm pole mount location and 8 x M10 bracket inserts for landscape or portrait mounting and 8 x M10 flying inserts. Tannoy's proprietary Secure-ET™ modular mounting hardware, including wall mounts, yokes, ceiling saddles, pole clamps, pole mounts and eyebolts, provides multiple hanging options

## Features

- 380mm (15.00") point source PowerDual™ driver
- 75 degree controlled conical dispersion for optimum coverage and forward gain
- Compact, versatile enclosure
- High power handling
- High efficiency and low distortion
- Rugged birch plywood construction
- Convenient aspect ratio
- Integral carrying handle
- Integral flying points
- Secure-ET™ mounting options
- Full range passive or Bi-amped powering modes

## Applications

- Large venues requiring high SPL
- High quality public address
- Live Sound reinforcement
- Theme pubs and nightclubs
- Theatre front of house and effects
- Movie theatres and cinemas
- Side fill in large-scale music reinforcement
- Theme parks and leisure venues
- Sports and multi-use stadiums
- Audio visual
- Religious facilities

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## TECHNICAL SPECIFICATIONS

System		V15	
<b>System Type</b>	Full Range - Vented		
<b>Frequency Response (-3dB) <sup>(1)</sup></b>	70Hz - 25kHz		
<b>Frequency Range (-10dB) <sup>(1)</sup></b>	58Hz - 30kHz		
<b>System Sensitivity (1W @1m) <sup>(2)</sup></b> (1W = 2.83V for 8 Ohms)			
Passive - Full Range:	100dB		
Biamp (LF)	100dB		
Biamp (HF)	107dB		
<b>Dispersion (-6dB)</b>	75 degrees conical		
<b>Driver Complement</b>	1 x 380mm (15.00") PowerDual™		
<b>Crossover</b>	Passive 1.4kHz Product can be reconfigured for bi-amped operation. Bi-amp system parameters in user manual.		
<b>Directivity Factor (Q)</b>	7.6 averaged 1kHz to 10kHz		
<b>Directivity Index (DI)</b>	8.7 averaged 1kHz to 10kHz		
<b>Rated Maximum SPL <sup>(2)</sup></b>	<b>Average</b>	<b>Peak</b>	
Passive - Full Range	126dB	132dB	
Biamp (LF)	126dB	132dB	
Biamp (HF)	125.5dB	131.5dB	
<b>Power Handling</b>	<b>Average</b>	<b>Programme</b>	<b>Peak</b>
Passive - Full Range	400W	800W	1600W
Biamp (LF)	400W	800W	1600W
Biamp (HF)	70W	140W	280W
<b>Recommended Amplifier Power</b>			
Passive - Full Range	800W @ 8 Ohms		
Biamp (LF)	800W @ 8 Ohms		
Biamp (HF)	140W @ 8 Ohms		
<b>Nominal Impedance</b>			
Passive - Full Range	8 Ohms		
Biamp (LF)	8 Ohms		
Biamp (HF)	8 Ohms		

Distortion		
10% Full Power (17.9V)	2nd Harmonic	3rd Harmonic
250Hz	1.0%	0.56%
1kHz	1.4%	1.0%
10kHz	3.9%	1.8%
1% Full Power (5.6V)	2nd Harmonic	3rd Harmonic
250Hz	0.31%	0.45%
1kHz	0.45%	0.79%
10kHz	3.16%	0.32%

Construction	
<b>Enclosure</b>	Vented and internally braced 63.5 litre, 15mm (0.62") birch plywood enclosure with 15mm (0.62") MDF front baffle.
<b>Finish</b>	Textured black or white paint (Custom colours on request). Foam covered, powder coated perforated steel grille
<b>Connectors</b>	2 x Speakon NL4MP in/out
<b>Fittings</b>	Recessed rear mounted carrying handle, blanking plate covers recess for fitting of 35mm pole-mounting socket 8 x M10 bracket inserts allowing for landscape or portrait mounting 8 x M10 flying inserts
<b>Dimensions</b>	590mm x 450mm x 420mm (H x W x D) 23.23" x 17.72" x 16.53" (H x W x D)
<b>Weight</b>	32kg (70.4lbs)

Notes:  
 (1) Average over stated bandwidth. Measured at 1 metre on axis.  
 (2) Unweighted pink noise input, measured at 1 metre in an anechoic chamber

A full range of measurements, performance data, CLF and Ease™ Data can be downloaded from [www.tannoy.com](http://www.tannoy.com)

Full independent verification of published specifications carried out by NWA Labs, California can also be obtained from the downloads section of [www.tannoy.com](http://www.tannoy.com)

Tannoy operates a policy of continuous research and development. The introduction of new materials or manufacturing methods will always equal or exceed the published specifications, which Tannoy reserves the right to alter without prior notice. Please verify the latest specifications when dealing with critical applications.

## Ordering Information

PART NUMBER	MODEL NAME	COLOUR	PACKED QUANTITY
8001 2630	V15	Black	1
8001 2670	V15	White	1

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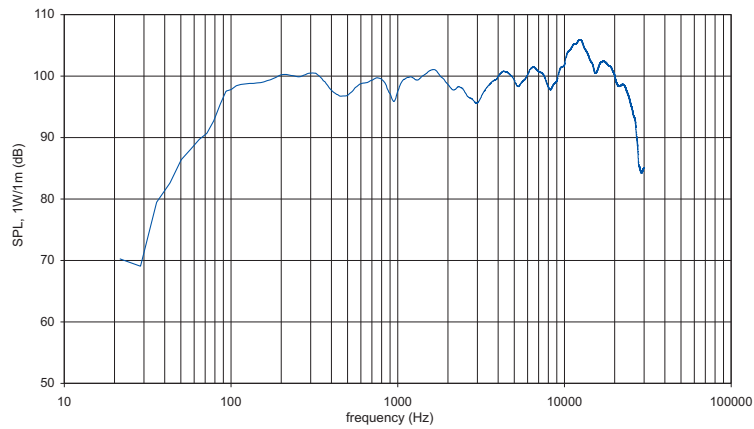
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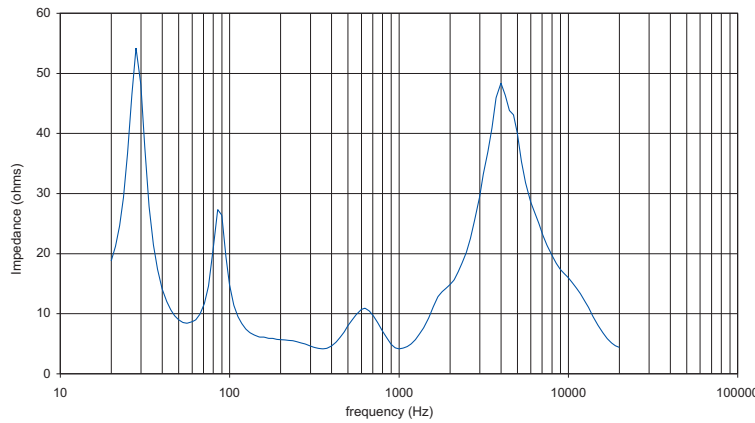
## PERFORMANCE MEASUREMENTS

1m on-axis frequency response

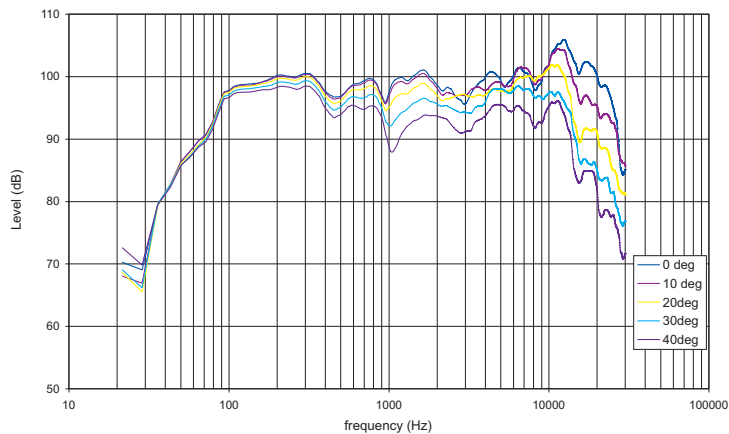


**ANECHOIC  
FREQUENCY  
RESPONSE**

Impedance vs frequency



**IMPEDANCE**



**OFF AXIS  
RESPONSE**

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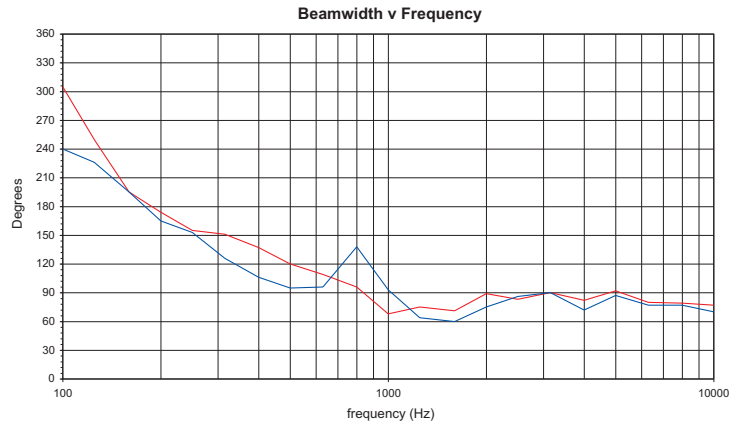
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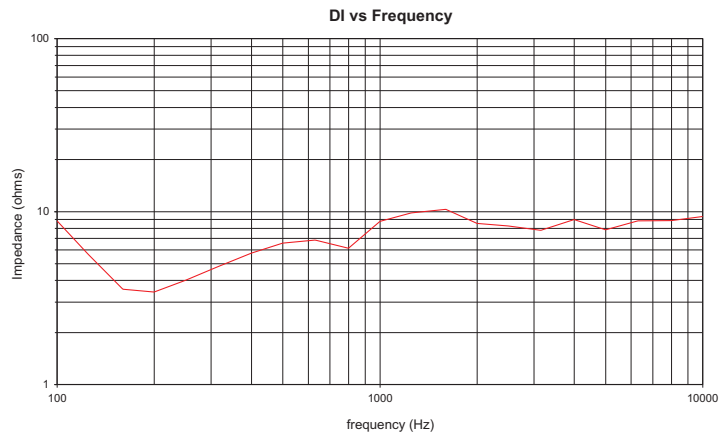
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## PERFORMANCE MEASUREMENTS



BEAMWIDTH



DIRECTIVITY INDEX

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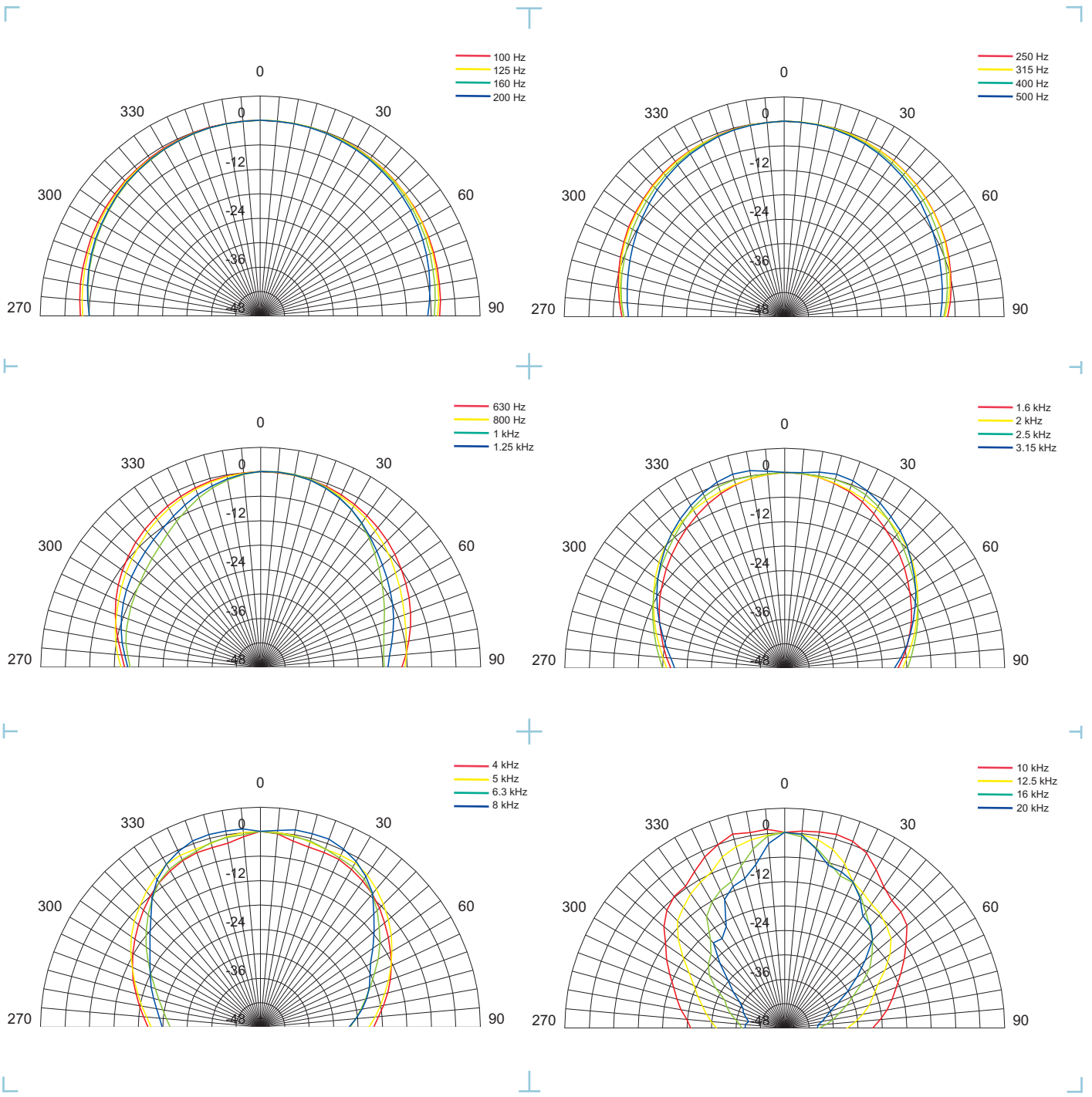
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## PERFORMANCE MEASUREMENTS POLAR PLOTS (1/3 OCTAVE)



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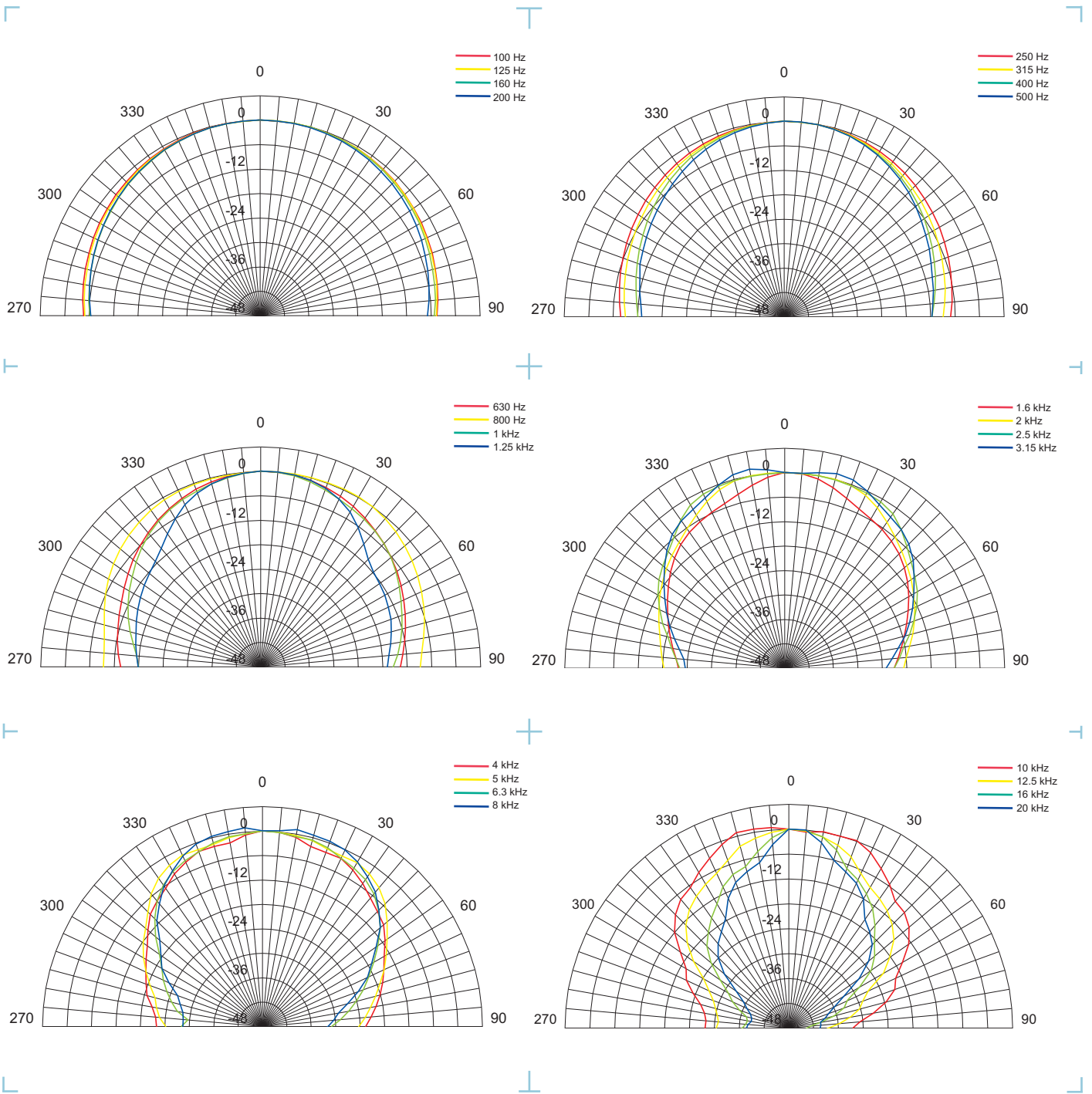
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## PERFORMANCE MEASUREMENTS



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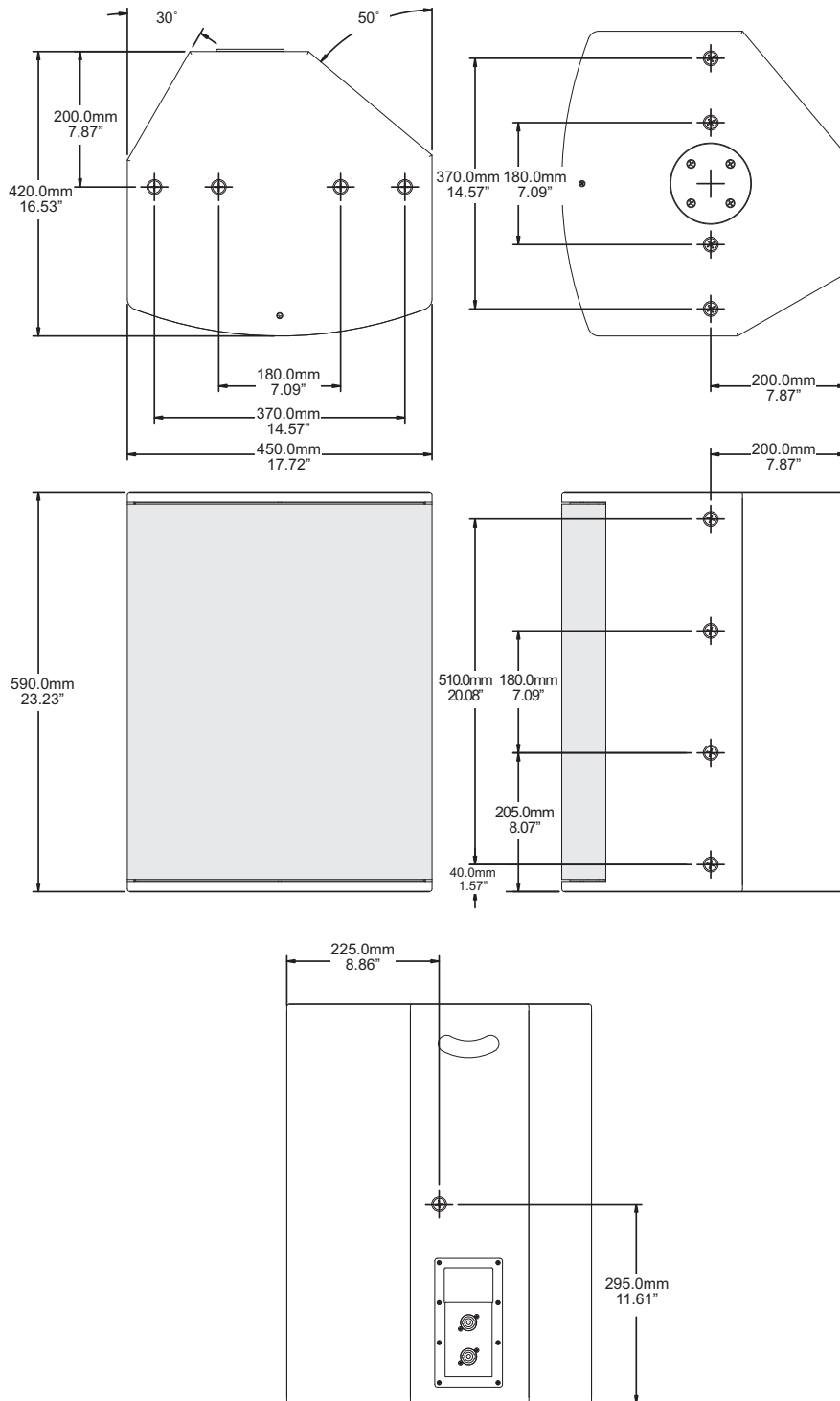
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## DIMENSIONAL SKETCHES



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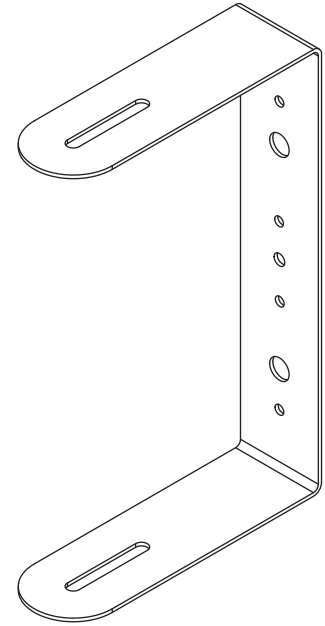
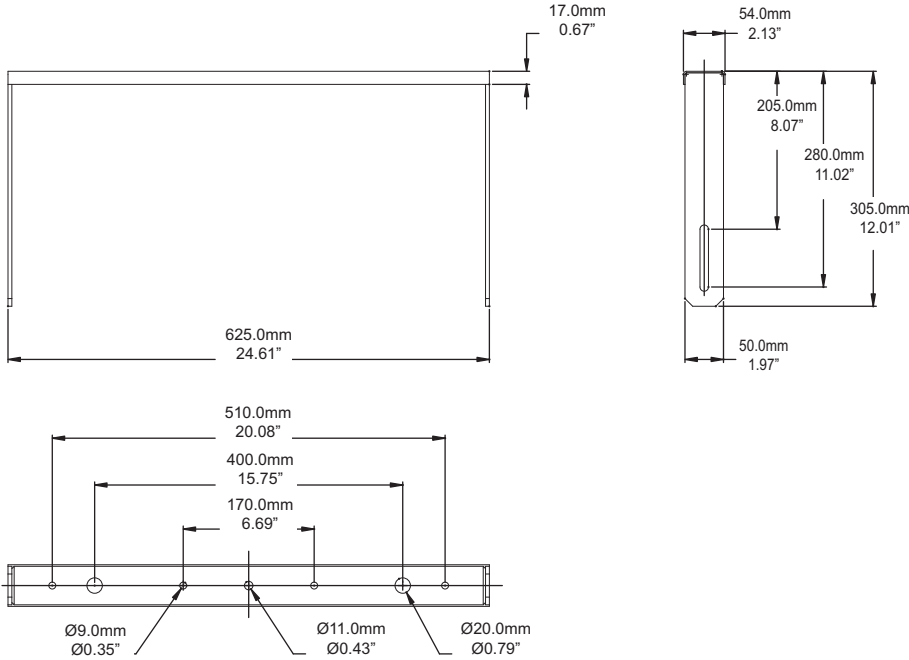


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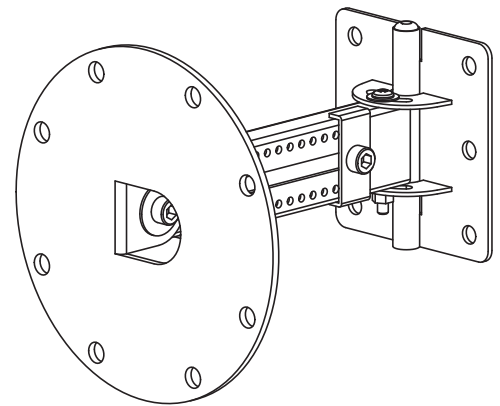
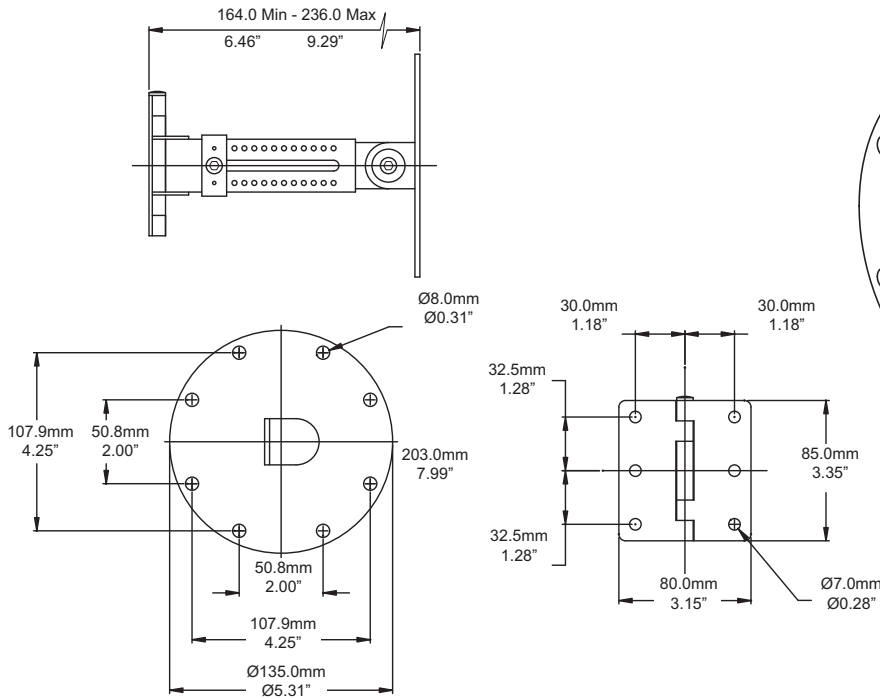
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## MOUNTING OPTIONS & HARDWARE

### V15Y Yoke



### V8B Bracket



SPEAKER END OF MOUNTING BRACKET

WALL END OF MOUNTING BRACKET

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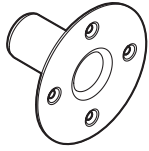




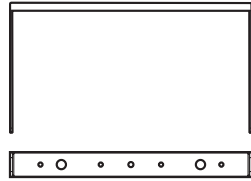
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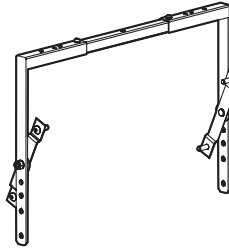
## MOUNTING OPTIONS & HARDWARE



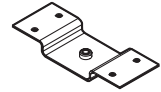
VTH



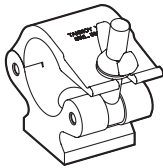
V15Y



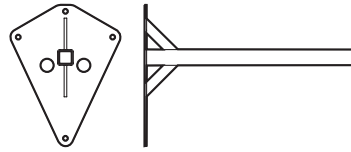
VMY



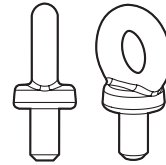
VCS



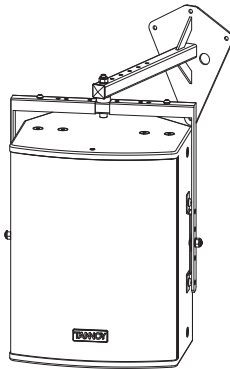
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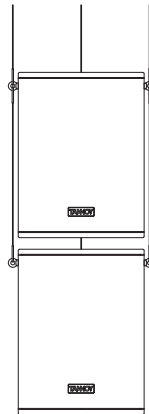
VMB



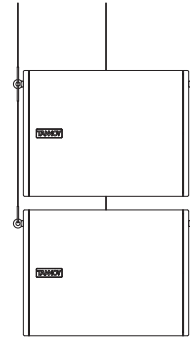
VEB



V15 - VMY - VMB



FLYING MOUNT VERTICAL



FLYING MOUNT HORIZONTAL

### Ordering Information

PART NUMBER	MODEL NAME	COLOUR	PACKED QUANTITY
8001 3190	V15Y	Black	1
8001 3191	V15Y	White	1
8001 2780	VMY	Black	1
8001 2790	VMY	White	1
8001 2800	VMB	Black	1
8001 2810	VMB	White	1
8001 2820	VEB	-	1
8001 2830	VCS	Black	1
8001 2840	VCS	White	1
8001 2860	VTH	Black	1
8001 2870	VTH	White	1
8001 2850	VPC	Black	1
8001 3290	Grille V15	White	1
8001 3291	Grille V15	Black	1

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## Architectural specifications

The loudspeaker shall consist of a 380mm (15.00") full range, single point source PowerDual™ transducer. The low and the high frequency elements shall be combined by an internal passive crossover network operating at 1.4kHz, with 2nd order high pass, 2nd order low pass. A configurable switching arrangement on the input panel allows the user to select between full range passive or bi-amped two way powering modes.

Performance of the loudspeaker, without any electronic control shall meet or exceed the following criteria: Frequency response measured at 1 metre on axis with swept sine wave shall be 70Hz - 25kHz (+/-3dB). Sensitivity shall be at least 100dB (anechoic) for 2.83 Volts @ 1 metre and shall be capable of producing a peak output level of 132dB (anechoic) on axis at 1 metre.

The dispersion of the loudspeaker shall be 75 degrees conical (-6dB). The system shall have a nominal impedance of 8 Ohms, maximum power handling shall be 800 Watts (programme). The enclosure shall be an optimally tuned 63.5 litre vented enclosure of birch plywood construction. The enclosure shall be fitted with an integral carrying handle, blanked off recess for optional pole-mount socket installation, 8 x M10 bracket inserts for landscape or portrait mounting and 8 x M10 mounting points for flying hardware.

The enclosure shall not exceed the following dimensions (H x W x D): 590 x 450 x 420mm (23.23 x 17.72 x 16.53")

The loudspeaker shall be the Tannoy...V15.

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NOTES

Large grid area for notes

Horizontal lines for notes

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## NOTES

A large rectangular area filled with a light blue grid pattern, intended for taking notes or calculations.A series of horizontal blue lines for taking notes, located below the grid area.

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