



Product Description

Conceived, engineered and built with precision in the United Kingdom, VX Series represents the latest evolution of Tannoy's core philosophies in professional loudspeaker design. VX 8.2 is a new type of device, adding new capabilities to the range with its exceptional acoustic clarity, precise definition and balanced acoustical performance. It provides a sonically superior solution for medium-scale performance sound reinforcement as well as high performance speech reproduction where clarity and natural vocal reproduction are paramount. The VX 8.2 has been sonically matched with the wider range of VXP Series models, this allows consistency in an installations where there is a mix of products utilised.

The VX 8.2 is built around two discrete transducers, a 200 mm (8") Dual Concentric™ driver and a 200 mm (8") bass driver for LF extension. Both are mounted in a rugged birch plywood cabinet with aesthetically profiled edges and Airtex™-backed, powder-coated steel grille. The latest high power-handling 200 mm (8") version of Tannoy's exclusive point source, constant directivity Dual Concentric drive unit technology ensures high power output with high sensitivity and exceptional efficiency. VX 8.2 is a 3-way design, with a 1.5 kHz passive crossover between the low- and high-frequency drivers and a 360 Hz low-pass filter for the bass driver to prevent midrange cancellations with the Dual Concentric driver. The VX 8.2 delivers a well defined 90 degree conical dispersion for optimum coverage, exceptional forward gain plus the added benefit of improved bass extension from the new twin driver configuration.

Audio connection is via connector strip or NL 4MP speakON located on the flush-mounted termination panel. An extensive range of high performance steel mounting hardware, custom designed for VX 8.2, includes a yoke bracket for wall and ceiling location, eyebolt location points, and a VTH top-hat for pole-mounting. For absolute security and installers' peace of mind, all hardware has been tested and certified to guarantee greater than 5:1 safety ratio.

The VX 8.2 is available in black or white textured paint finish as standard (with matching grilles), and is also available in custom matched RAL colours as an option. The optional weather protected specification (WP) includes LINE-X cabinet outer-coating, internal sealing and treated transducers with perforated Grade 316 stainless steel grilles. All steel hardware is upgraded to Grade 304 stainless steel, while all connector panel points are protected by a cover plate and weather-proof cable gland. Additional ordering lead time applies to all non-standard specifications.

Features

- 200 mm (8") Dual Concentric full-range driver and 200 mm (8") bass driver
- Well defined 90 degree dispersion for optimum coverage and forward gain
- Peak output 122 dB SPL @ 1 m, recommended amp power 400 W @ 8 ohms
- Versatile mounting via optional custom designed hardware
- Integrip™ handles ergonomically integrated
- Pole-mountable for optimum portability
- Exceptional sound and performance in a highly compact cabinet
- Rugged birch plywood enclosure
- Available in black or white textured paint finish – custom colours optional
- Available in weather protected specification (optional)
- Engineered and built in UK

Applications

- Theatres, Auditoria and Houses of Worship
- Medium scale PA.
- Bars and nightclubs
- Portable and installed corporate AV
- Theme parks and leisure venues
- Gymnasiums and small/medium sports arenas
- Cinemas

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TECHNICAL SPECIFICATIONS

System	VX 8.2	
Frequency Response (-3 dB) ⁽¹⁾	80 Hz - 35 kHz	
Frequency Range (-10 dB) ⁽¹⁾	60 Hz - 45 kHz	
System Sensitivity (1 W @ 1 m) ⁽²⁾	93 dB (1 W = 2.83 V for 8 ohms)	
Dispersion (-6 dB)	90 degrees conical	
Driver Complement	1 x 200 mm (8") constant directivity Dual Concentric 1 x 200 mm (8") bass driver	
Crossover	Passive 360 Hz and 1.5 kHz, with dynamic HF protection	
Directivity Factor (Q)	8.1 (averaged 1 kHz to 8 kHz)	
Directivity Index (DI)	9.2 dB (averaged 1 kHz to 8 kHz)	
Rated Maximum SPL ⁽²⁾	116 dB (average) 122 dB (peak)	
Power Handling		
Average	200 W	
Programme	400 W	
Peak	800 W	
Recommended Amplifier Power	400 W @ 8 ohms	
Nominal Impedance	8 ohms	
Distortion		
10% Full Power (8.94 V)	2nd Harmonic	3rd Harmonic
250 Hz	0.58%	0.34%
1 kHz	0.34%	0.69%
10 kHz	1.73%	0.15%
1% Full Power (2.83 V)	2nd Harmonic	3rd Harmonic
250 Hz	0.15%	0.15%
1 kHz	0.11%	0.37%
10 kHz	0.74%	0.22%

Construction

Enclosure	25.3 litre, 15 mm (0.62") birch plywood, vented and internally braced.
Finish	Textured black or white paint, with custom colours on request. Powder-coated perforated steel grille, Airnet cloth behind.
Connectors	2 x speakON NL 4MP and Barrier strip
Fittings	4 x M10 Flying inserts, 2 x M10 yoke bracket inserts 2 x Integrip carrying handles Blanking plate for optional VTH pole mount
Dimensions (HxWxD)	590 x 280 x 275 mm (23.2 x 11.0 x 10.8")
Net weight	15.5 kg (34.2 lbs)
Shipped weight	17.5 kg (38.6 lbs)
Packed quantity	1

Notes

(1) Average over stated bandwidth. Measured at 1 metre on axis in an anechoic chamber

(2) Unweighted pink noise input, measured at 1 metre in an anechoic chamber. A full range of measurements, performance data, and Ease™ Data can be downloaded at www.tannoy.com.

Tannoy is committed to a policy of continuous improvement through research and development. Though performance will equal or exceed published specifications, new materials or manufacturing processes could introduce variances. All figures are subject to change without notice. For critical applications, please confirm current specifications with your supplier or visit the Tannoy website at www.tannoy.com.

Ordering Information

PART NUMBER	MODEL NAME	COLOUR	PACKED QUANTITY
8001 6340	VX 8.2	BLACK	1
8001 6341	VX 8.2	WHITE	1

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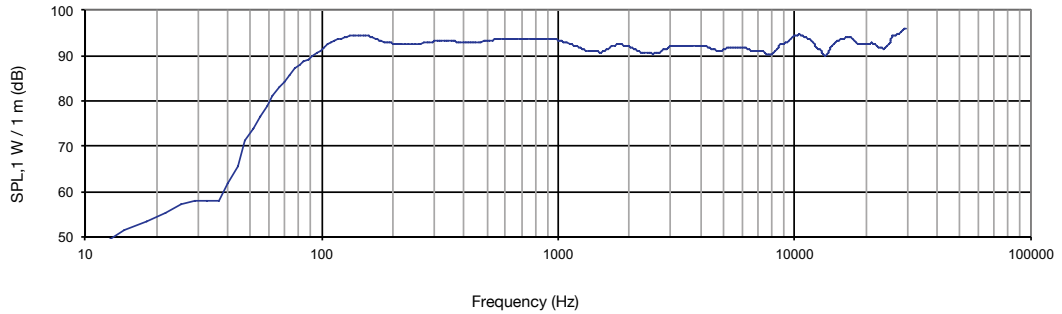
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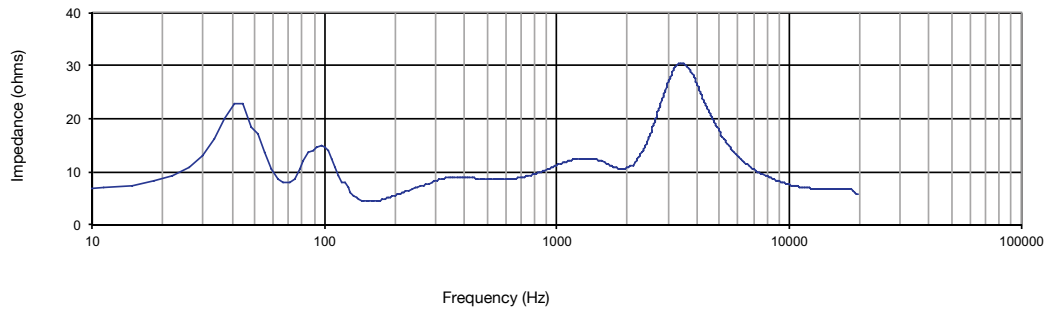
PERFORMANCE MEASUREMENTS

1 m on-axis Frequency Response



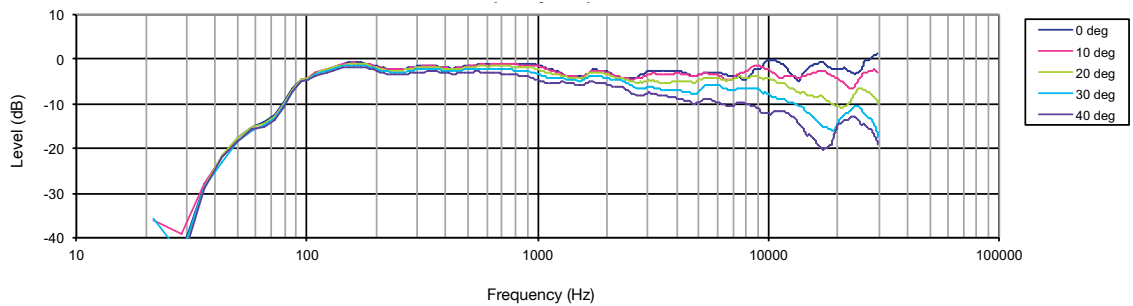
ANECHOIC FREQUENCY RESPONSE

Impedance vs frequency



IMPEDANCE

Horizontal off-axis Frequency Response Off-axis



HORIZONTAL OFF-AXIS RESPONSE

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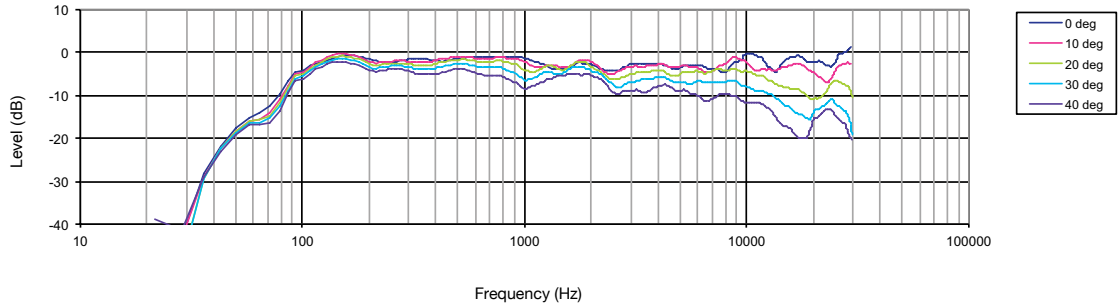
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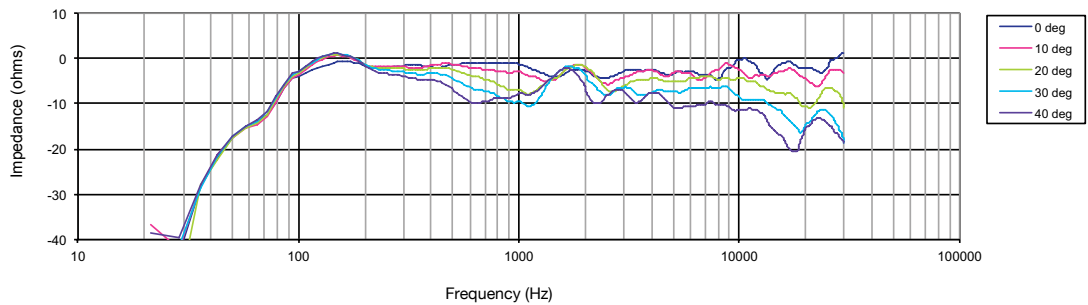
PERFORMANCE MEASUREMENTS

Upper Vertical off-axis Frequency Response



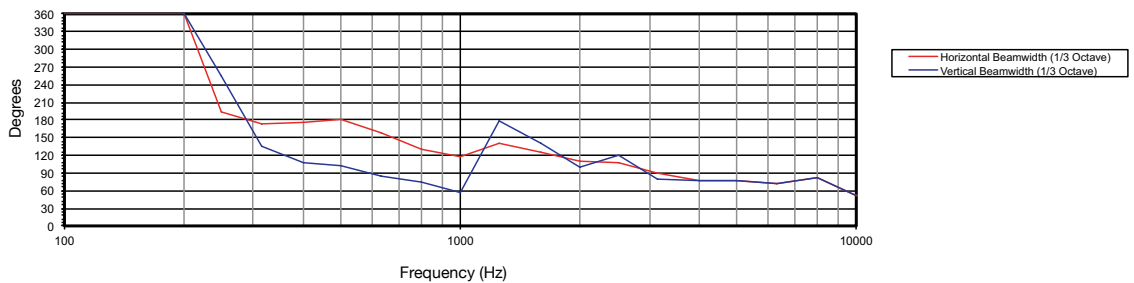
UPPER VERTICAL OFF-AXIS RESPONSE

Lower Vertical Off-axis Frequency Response



LOWER VERTICAL OFF-AXIS RESPONSE

Beamwidth vs Frequency



BEAMWIDTH

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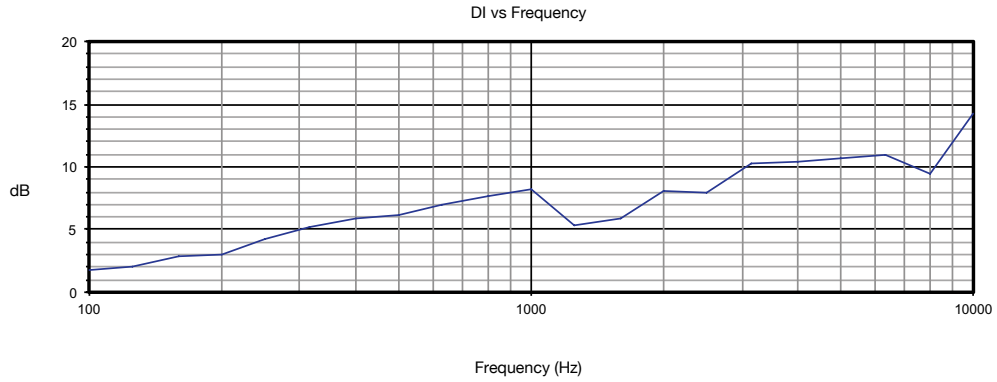
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VX 8.2

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PERFORMANCE MEASUREMENTS



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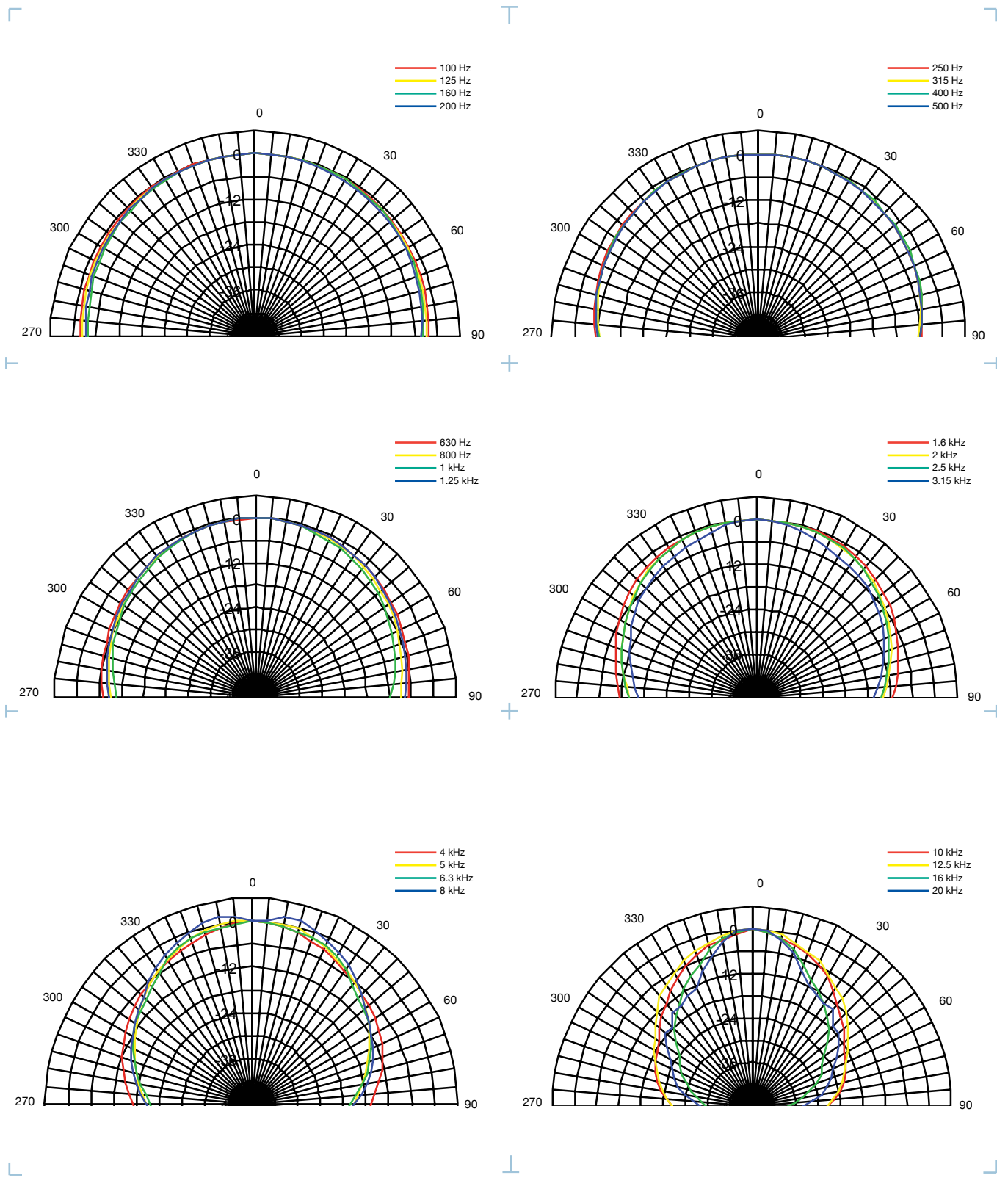
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PERFORMANCE MEASUREMENTS POLAR PLOTS (1/3 OCTAVE)



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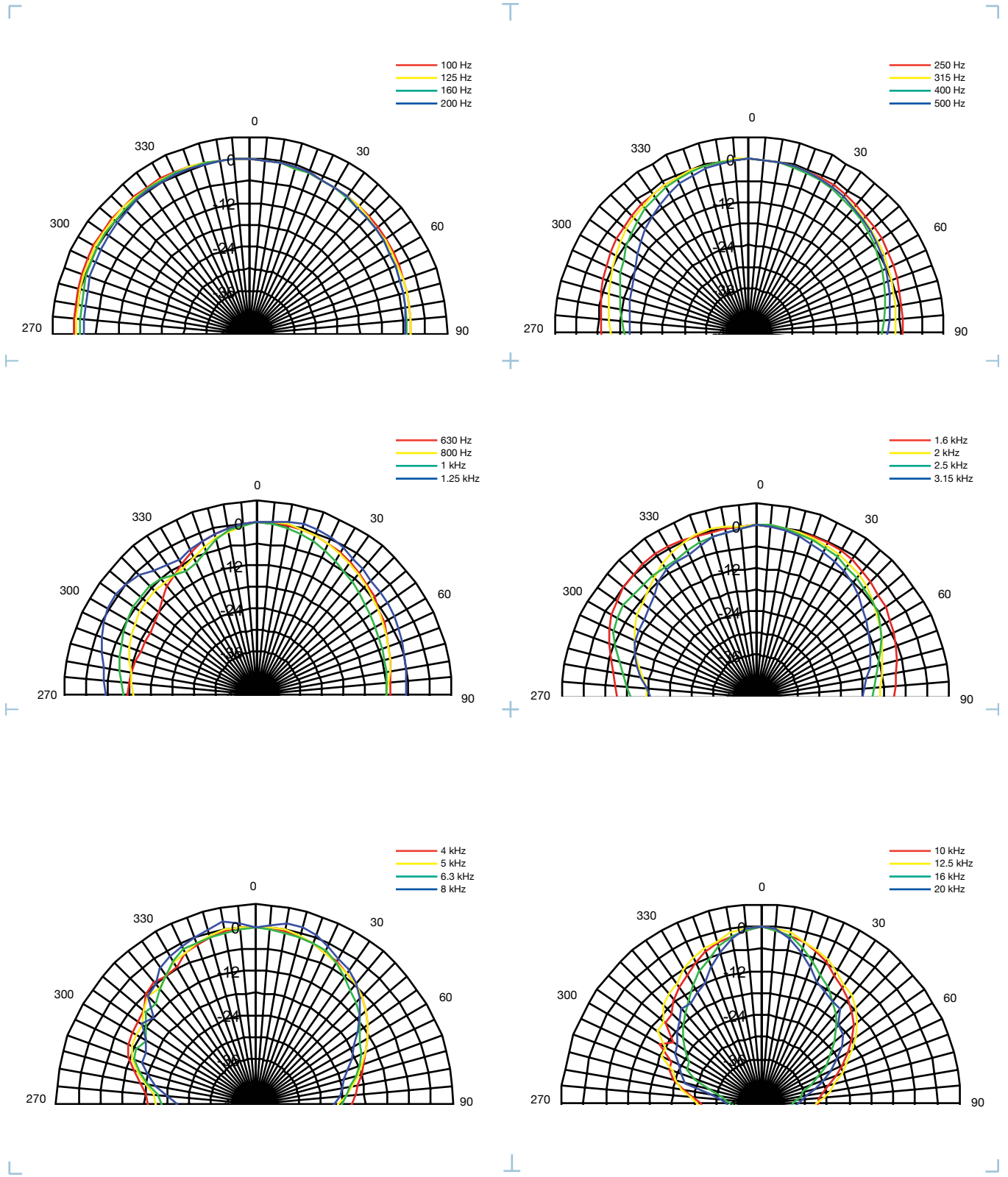
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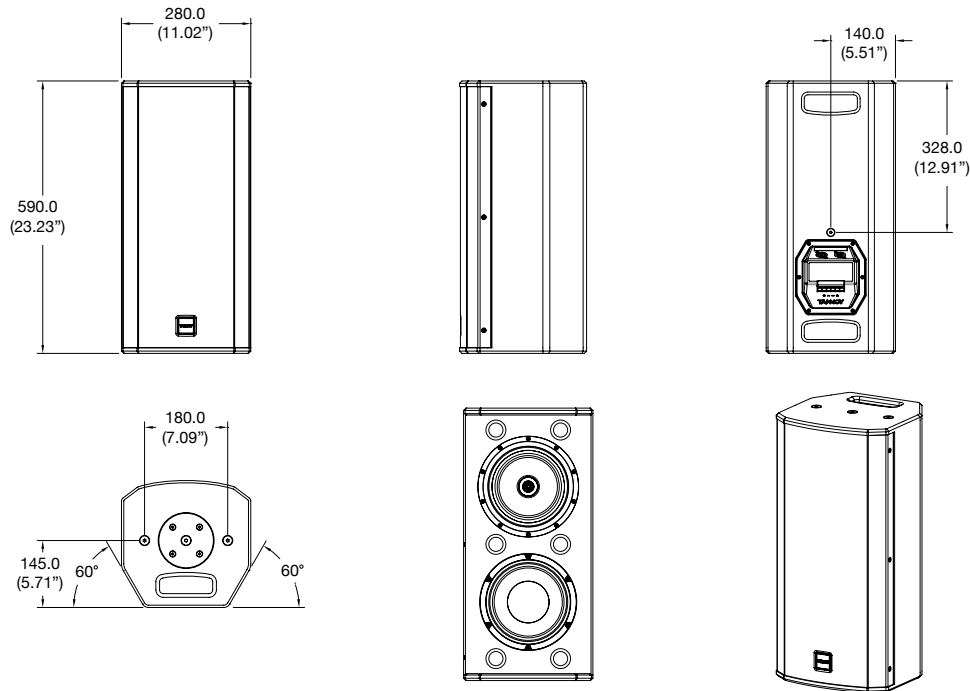
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DIMENSIONAL SKETCHES



Architectural specifications

The loudspeaker shall consist of a 200 mm (8") full range, single point source Dual Concentric transducer and a 200 mm (8") bass transducer. The low and the high frequency elements of the Dual Concentric shall be combined by an internal passive crossover network operating at 1.5 kHz. An internal passive low-pass filter operating at 360 Hz shall limit midrange response of the bass transducer to prevent destructive cancellation.

Performance of the loudspeaker, without any external electronic control, shall meet or exceed the following criteria: Frequency response measured at 1 metre on axis with swept sine wave shall be 80 Hz – 35 kHz (-3 dB). Sensitivity shall be at least 93 dB (anechoic) 1 watt @ 1 metre and the loudspeaker shall be capable of producing a peak output level of 122 dB (anechoic) on axis at 1 metre. Dispersion shall be 90 degrees conical (-6 dB). The system shall have a nominal impedance of 8 ohms. Long-term power handling (EIA-426B) shall be 200 watts and recommended amplifier power shall be 400 watts.

The enclosure shall be an optimally tuned 25.3 litre vented enclosure of birch plywood construction. The enclosure shall be fitted with dual integral carrying handles, blanked off recess for optional pole-mount socket installation, 4 x M10 bracket inserts for landscape or portrait mounting, and 2 x M10 mounting points for yoke bracket inserts. The enclosure shall not exceed the following dimensions: 590 x 280 x 275 mm or 23.2 x 11 x 10.8" (H x W x D). The loudspeaker shall be the Tannoy VX 8.2.