



Product Description

Conceived, engineered and built with precision in the United Kingdom, VXP Series represents a brand new evolution in Tannoy's core philosophies in self-powered loudspeaker design. Tannoy VXP 15HP combines the technological refinement of the passive VX 15HP with the brand new IDEEA™ integrated power module from Lab.gruppen. The result is an ultra-reliable and efficient, self-powered loudspeaker offering a punchy and sonically superior solution for medium to large scale sound reinforcement. The VXP 15HP has also been acoustically matched with the wider range of VXP Series models, making it a perfectly capable component within much larger installations.

The VXP 15HP is built around a single 380 mm (15") PowerDual™ driver mounted within a rugged birch plywood cabinet with aesthetically profiled edges and airnet-backed, powder-coated steel grille. The latest version of Tannoy's exclusive point source, constant directivity Dual Concentric drive unit ensures high sensitivity and exceptional efficiency. This unique configuration delivers optimum coverage, exceptional forward gain and excellent acoustic performance. The dispersion characteristics of the Dual also enhance speaker placement flexibility; allowing vertical or horizontal mounting of single or multi-cabinet arrays without any compromise to sound quality.

The perfectly matched integrated Lab.gruppen IDEEA (IntelliDrive Energy Efficient Amplifier) modules are designed to handle the demands of fixed installation audio, with the inherent extended duty cycles of around-the-clock operation and very high performance demands, while offering the durability, unmatched power output and clarity required by portable applications. To ensure a long and trouble-free service life, IDEEA modules incorporate extensive features to safeguard internal circuits and driver compliance.

At the heart of the IDEEA module is a patented Class D output stage capable of high power levels with very low distortion and minimal current draw – all with a net operating efficiency in excess of 80%. A universal switching power supply accepts any mains voltage from 70 – 265 V (+/- 10%) at 50 Hz or 60 Hz through the appropriate IEC cord. In Auto mode, the speaker turns on with signal present and switches to standby mode after 20 minutes of no input, in doing so reducing power consumption to less than 1 W (while in standby). Manual control mode allows the speaker to be turned on and off as required. Also provided is a switchable 90 Hz high-pass filter for use when adding a subwoofer.

Audio connection is via XLR Input and power via PowerCON (included) on rear panel. VXP 15HP 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.

Features

- 380 mm (15") PowerDual™ full-range driver
- Tightly controlled 90 degree dispersion for optimum coverage and forward gain
- Peak output 131 dB
- Integrated Lab.gruppen IDEEA electronics providing ultra-reliable Class D amplification
- Versatile mounting via optional custom designed hardware
- Pole-mountable for medium-large scale portable PA applications
- Exceptional clarity and SPL for a cabinet of this size
- Rugged and highly compact birch plywood enclosure
- Available in black or white textured paint finish – custom colours optional
- XLR input and link, PowerCON mains (included)

Applications

- Performance Arts Spaces
- Theatres & Auditoria
- Bars, pubs and nightclubs
- Medium-large scale live PA
- Theme parks and leisure venues
- Gymnasiums and small/medium sports arenas
- Portable corporate AV
- Conference rooms
- Houses of worship
- Cinemas

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VXP 15HP

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TECHNICAL SPECIFICATIONS

System	VXP 15HP	
Frequency Response (-3 dB) ⁽¹⁾ Full range mode	60Hz - 25kHz	
Frequency Range (-10 dB) ⁽¹⁾ Full range mode	47Hz - 30kHz	
Frequency Response (-3 dB) ⁽¹⁾ Hi-Pass mode	100Hz - 25kHz	
Frequency Range (-10 dB) ⁽¹⁾ Hi-Pass mode	80Hz - 30kHz	
Dispersion (-6 dB)	75 degrees conical	
Driver Complement	1 x 380mm (15.00") constant directivity PowerDual™	
Crossover	Passive 1.3kHz	
Directivity Factor (Q)	9.7 (averaged 1kHz to 8kHz)	
Directivity Index (DI)	9.9dB (averaged 1kHz to 8kHz)	
Rated Maximum SPL ⁽²⁾	125 dB (average) 131 dB (peak)	
Distortion		
10% Full Power (17.9 V)	2nd Harmonic	3rd Harmonic
250 Hz	1.0%	0.56%
1 kHz	1.4%	1.0%
10 kHz	3.9%	1.8%
1% Full Power (5.6 V)	2nd Harmonic	3rd Harmonic
250 Hz	0.31%	0.45%
1 kHz	0.45%	0.79%
10 kHz	3.16%	0.32%

Construction

Enclosure	54.9 litre, 18 mm 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	1 x female XLR (input), 1 male XLR (link), 1 x Neutrik Powercon
Controls & Indicators	Level Control Power LED (Blue) Signal LED (Green) Limit/Protect LED (Red) Full Range / HighPass Switch (110Hz) Power Mode Switch Power Switch
Fittings	8 x M10 Flying inserts (portrait or landscape mounting), 8 x M10 yoke bracket inserts. 2 x Integrip carrying handles. Blanking plate for optional VTH pole mount
Dimensions	590 x 450 x 420 mm (HxWxD) 23.2 x 17.7 x 16.5" (HxWxD)

Ordering Information

PART NUMBER	MODEL NAME	COLOUR	PACKED QUANTITY
8001 6570	VXP 15HP	BLACK	1
8001 6571	VXP 15HP	WHITE	1

Net Weight	TBA
Shipped weight	TBA
Packed quantity	1
Electronics	
Maximum signal input for clip	Input attenuator at Maximum: +4.5 dBu (Hard clip will occur at +14.5 dBu input signal)
Dynamic Range	106 dB
Efficiency	>90%
Damping Factor	>400 ref 8 ohms at 1 kHz
Distortion	<0.05% @ 1 kHz -3 dB output (22 kHz bandwidth)
Input Impedance	10 kohms unbalanced, 20 kohms balanced
Damping Factor	>400 ref 8 ohms at 1 kHz
Distortion	<0.05% @ 1 kHz -3 dB output (22 kHz bandwidth)
Protection systems	
Over Current	Output current limiter, always active
Clip limiter	Output voltage clip limiter, always active
Temperature	Over temperature causes protective mute
Brownout	Automatic protection & recovery
Mains	Inrush current limiter
Indicators	1x Power LED, 1x signal LED, 1x Limit LED (Power LED: Red = StandBy, Green = On, Yellow = Temperature protection active)
Amplifier Type	Inherently bridged, globally modulated, high performance single channel class D.

PSU Specifications

Input Connector	Locking Neutrik Powercon
Voltage Selection	Universal mains input
Type	High efficiency, regulated switch mode power supply
Efficiency	>85% typical
Input voltage	100 Vac-240 Vac +/- 10%, 50-60 Hz +/-10%
Mains fuse	Internal
Fuse type	3,15AT
Other features	Inrush current limiter
StandBy power consumption	<1 W
Idle power consumption	<15 W
Maximum power consumption	300 W

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 from 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.

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