

EX26 Technical Data Sheet

Introduction

The EX26 is a unique Loudspeaker unit that provides superb vocal intelligibility and high quality musical reproduction. Its 100 x 100 degree horn provides for wide, even coverage making it ideal for audio visual presentations, churches, meeting rooms and various other applications where high quality speech reproduction is required. The EX26 makes an ideal under balcony fill speaker when used in a horizontal orientation.

Features

- Professional, Baltic birch construction with wear resistant polymer coating
- 124dB sustained output, 127dB peak with very high dynamic range and low noise floor
- 370W of total power with complete on-board speaker management system
- 350W high efficiency, current enhancing, switching low frequency amplifier
- Very high quality 20W, low IM distortion, Class AB, high frequency amplifier with transformer balanced output
- Compact low profile cabinet design allows for use as a front fill or in under balcony applications with high pass filter to adjust equalization and phase response
- Wide dispersion 100° H x 100° V horn
- New patent pending 1.75" (44 mm) Nitride Titanium diaphragm compression driver with complex geometry phase plug for higher output, exceptionally low distortion, extended frequency response and neodymium magnet structure
- Two 6" woofers feature neodymium magnetic motor structures that dramatically increase force, lower distortion and provide increased frequency response linearity
- Proprietary top handle design for simplified handling and carrying, integrates one M10 suspension point, Omnimount™ bracket point and four M6 points
- Additional side and bottom M10 points for flexible bracket, rigging and installation options
- "Top-hat" pole mount fitted at the base of the cabinet
- LED indicators for signal present and Power ON status



Application

Purposely designed as a stand-alone unit for extremely high quality vocal reproduction and output

- Church and houses of worship
- Conference and presentations
- Front of stage and balcony infill
- Full range portable PA when used with subwoofers for larger Multi-Media applications and small live music applications

System Acoustic Performance

| | |
|-------------------|---------------|
| Max SPL Long-term | 124dB |
| Max SPL Peak | 127dB |
| -3dB Response | 80Hz to 20kHz |
| -10dB Response | 65Hz to 28kHz |
| Crossover Point | 2.5kHz |

High Frequency Section

| | |
|--|------------------|
| Acoustic Design | Horn Loaded |
| High Horn Coverage Horizontal / Vertical | 100° x 100° |
| Throat Exit Diameter / Diaphragm Size | 1" / 1.75" |
| Diaphragm Material | Nitride Titanium |
| Magnet Type | Neodymium |

High Frequency Amplifier Specification

| | |
|------------------------|--------------------|
| Type | Class AB Push-Pull |
| Rated Continuous Power | 20W |
| Distortion | <0.05% |
| Operating Bandwidth | 2.5kHz to 28kHz |

Low Frequency Section

| | |
|-----------------------------------|----------------------------|
| Acoustic Design | Front Loaded, Bass Reflex |
| Woofer Size / Voice Coil Diameter | 6" / 1.75" |
| Magnet Type | Neodymium |
| Diaphragm Material | Epoxy Reinforced Cellulose |

Low Frequency Amplifier Specification

| | |
|------------------------|--|
| Type | High efficiency, Current-enhancing switch mode |
| Rated Continuous Power | 350W |
| Distortion | <0.05% |
| Operating Bandwidth | 68Hz to 2.5kHz |

Signal Input

| | |
|-------------------|--------|
| Input Sensitivity | 1V RMS |
| Input Impedance | 20 kΩ |

Power

| | |
|-------------------------|---|
| Power Connector | Neutrik PowerCon® |
| Operating Voltage Range | 100 to 120V @ 60Hz 230 to 250V @ 50Hz |
| Recommended Amperage | 3.15A 115V 1.6A 230V |

Cabinet

| | |
|------------------|---------------------------------------|
| Cabinet Material | Baltic birch |
| Handles | 1 |
| Pole Mount | 35 mm |
| Color | "Orange peeled" Matt Black or any RAL |

Physical Dimensions

| | |
|--------|-----------------|
| Height | 570 mm (22.44") |
| Width | 220 mm (8.66") |
| Depth | 274 mm (10.78") |
| Weight | 16 kg (35.2lbs) |

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Architectural Specifications

The Loudspeaker shall be a 2-way Active driven design, using SLA Technology - (Super Live Audio). Amplifier power, electronic crossovers, phase alignment, equalisation and speaker protection are integrated into the EX26's amplifier module.

The Loudspeaker enclosure shall consist of two 6" Neodymium magnet structure Mid Bass drivers and one 1" Nitride Titanium Compression high frequency driver mounted to a low compression, constant directivity horn assembly. The cabinet enclosure shall be made from re-enforced Baltic Birch Ply, with toughened impact and wear resistant paint finish. The Loudspeaker woofer components shall be protected by an acoustically full size transparent rigid metal grille. The enclosure is a very compact design. The enclosure shall incorporate one ergonomically designed recessed handle on the top of the enclosure. The handle provides a M10 hang point as well as four additional M6 bracket points, a similar M10 point is on the bottom of the box when utilising an EX26 Horizontal Bracket with M10 holder.

There are two side-mounted M10 hang points that can be used with the EX26 Vertical Bracket or eyebolts. For pole mount application there is a 35 mm pole mount.

The EX26 Amplifier provides a 350W high efficiency amplifier for low-mid and a 20W low distortion amplifier for high frequency.

The EX26 Amplifier features a control panel featuring AC power in, XLR connector audio input and output, level control potentiometer +/- 6dB, LED status light (power, limit/thermal signal input indicator) and a 90Hz high pass filter switch.

The EX26 amplifier shall have an input Impedance of 20Kohm. The input sensitivity shall be 1.0V RMS.

The EX26 Amplifier shall have a Neutrik PowerCon connector for mains supply, with an operating voltage range of 100 to 120V @ 60Hz or 230 to 250V @ 50Hz.

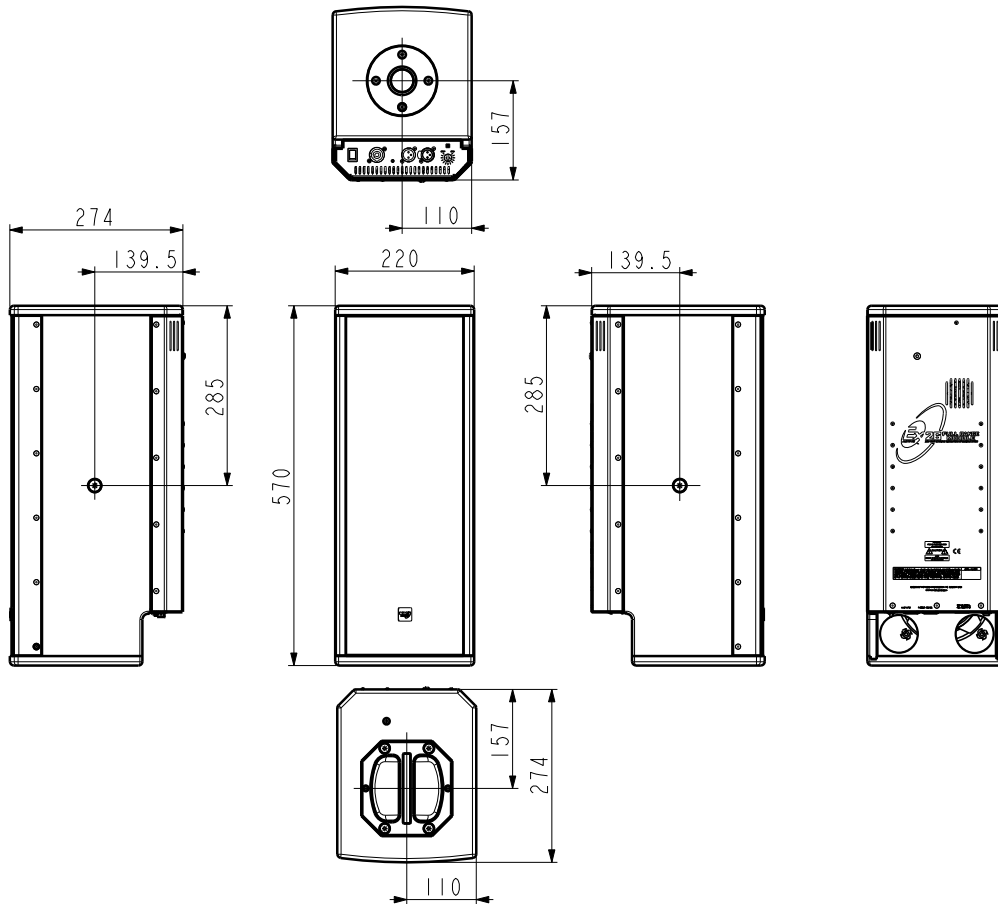
The power amplifier shall have recommended amperage of 3.15A @115V, 1.6A @230V.

Temperature controlled variable speed fan will assist internal convection cooling systems.

The system acoustic performance shall be -3dB 87Hz -20kHz. The system maximal long term SPL shall be 124dB.

The Speaker shall have dimensions of: Height 570 mm / 22.44", Width 220 mm / 8.66", Depth 274 mm / 10.78", The weight shall not exceed 16 kg (35.2lbs).

Dimensional Drawings



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