



# VEXO112

## 12" high performance 2-way loudspeaker

### Highlights:

- DuraCoat™ texture paintwork
- High sound pressure levels with tight driver response
- Ball impact resistance
- Horizontal and vertical mounting
- User friendly mounting
- -90° to +35° inclination
- 70V/100V transformer optionally available

The VEXO series are compact high performance 2-way loudspeakers and come in 3 different models, each of them with different sizes and performances meeting the requirements of every application. The VEXO series loudspeakers consist of active and passive versions. The low-frequency transducer, which is made out of high-quality materials, is combined with a 1.7" voice coil compression driver, enabling high sound pressure levels and a tight driver response with a rotatable 90° x 70° coverage pattern for a wide range of applications.

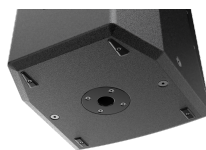
Thanks to the unique driver composition, the VEXO112 delivers a clear and natural sound with an RMS power of 400 Watts and a maximum power of 1600 Watt. The frequency response ( $\pm 3\text{dB}$ ) starts from 58Hz up to 20 kHz and the sensitivity (1W/1m) reaches 99 dB while a maximum continuous sound pressure level from 125 dB can be achieved.

When not in use, the active versions of the VEXO series devices automatically go into an energy-saving standby mode. This means that active versions can also be used in fixed installations, as there is no need to physically shut them down after each use.

Using an optional 70V/100V line transformer enables the VEXO series to be used in 70V or 100V systems. By removing the backplate and replacing it with a 70V/100V backplate on which the module is integrated, the high-performance loudspeaker is able to apply in a 70V/100V system.

The construction of the cabinets is made of 15 mm plywood with a polyurethane coating, making them resistant to any impact. The front side of the cabinet is finished with a powder-coated steel grill with acoustical foam. A recessed carry handle on the rear side makes carrying easy. Positioning and suspension of the speaker are easily achieved by using the standard 35 mm pole adapter on the bottom and the M10 rigging points. Two speaker connectors provide reliable connections with easy link-through to cabinets.

The optional Clever U bracket allows mounting the high power 2-way cabinet both horizontally and vertically. An inclination of -90° to +35° ensures an optimal positioning. The optional MBK bracket even allows mounting the VEXO series to the ceiling which gives the opportunity to install the loudspeaker cleanly in any environment.



### Impedance:



## Applications:

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- Education
- Sport facilities
- Clubs
- Concert venues

## System specifications:

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|                            |                        |   |
|----------------------------|------------------------|---|
| Speaker type               |                        | 2-way   |
| Max. Power                 |                        | 1600 W  |
| RMS Power                  |                        | 400 W   |
| Impedance                  |                        | 8 $\Omega$                                    |
| Sensitivity (1W/1m)        |                        | 99 dB   |
| Sound Pressure (Max. W/1m) |                        | 125 dB  |
| Frequency                  | Response ( $\pm$ 3 dB) | 58 Hz - 20 kHz                                |
| Crossover                  | Type                   | Passive built-in                              |
| Dispersion                 | Horizontal             | 90°   |
|                            | Vertical               | 70°   |
| Drivers                    | HF                     | Compression driver with 1.7" VC and 1" throat |
|                            | LF                     | 12" (2.5" VC)                                 |
| Connectors                 |                        | 2 x Speakon compatible (Linkthrough)          |

## Product Features:

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|                     |                   |  |
|---------------------|-------------------|--|
| Dimensions          |                   | 369 x 610 x 390 mm (W x H x D)                 |
| Weight              |                   | 22.4 kg  |
| Construction        |                   | 15 mm high-quality plywood                     |
| Finish              | Cabinet finishing | Polyurethane coating                           |
| Front finish        |                   | Powder coated steel grill with acoustical foam |
| Mounting & handling | Rigging points    | 10 x M10                                       |
|                     | Stand fitting     | 35 mm pole adapter on bottom                   |
|                     | Carry handles     | On top   |
| Powerdrive mount    |                   | Powerdrive type 100 (127 x 70 mm)              |
| Colours             |                   | Black & White                                  |
| Accessories         | Optional          | 70V/100V transformer module                    |

## Variants:

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- VEXO112/B - Black version
- VEXO112/W - White version

## Architects' and Engineers' Specifications:

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The loudspeaker cabinet must be a 12" 2-way system. The cabinet must be constructed of 15 mm high-quality plywood with a durable impact proof Polyurethane coating. The front side must be finished with a powder coated steel grill which is lined with an acoustical foam.

The cabinet must have a recessed carry handle on the rear side of the cabinet for easy handling, while a standard 35 mm pole adapter and 10 x M10 rigging points must be provided for positioning and suspension of the speaker.

The loudspeaker cabinet must have an RMS power handling of 400 Watt with a maximum power handling of 1600 Watt. The frequency response ( $\pm 3$  dB) must range from 58 Hz to 20 kHz. The sensitivity must be 99 dB when measuring with an input signal of 1 Watt at a distance of 1 meter, while the maximum continuous sound pressure level must reach 125 dB.

The loudspeaker must consist of a HF compression driver with 1.7" VC and 1" throat and a 12" low frequency loudspeaker. It must have an impedance of 8 Ohm.

The complete model is constructed of high-quality components. It must also have an integrated tweeter overload protection circuit.

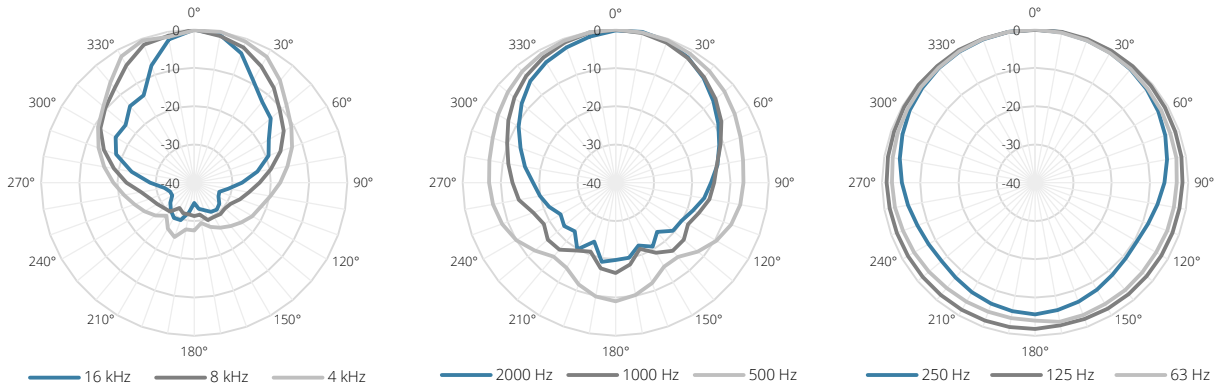
The horn mounted on the HF driver must have a horizontal dispersion of 90° and a vertical dispersion of 70° and must be rotatable, allowing both horizontal and vertical use.

Connections with the speaker must be made using 2 x speakon compatible connectors, allowing easy connection and link-through. The loudspeaker cabinet must not exceed a width of 369 mm, a height of 610 mm and a depth of 390 mm. Its weight must not exceed 22.4 kg.

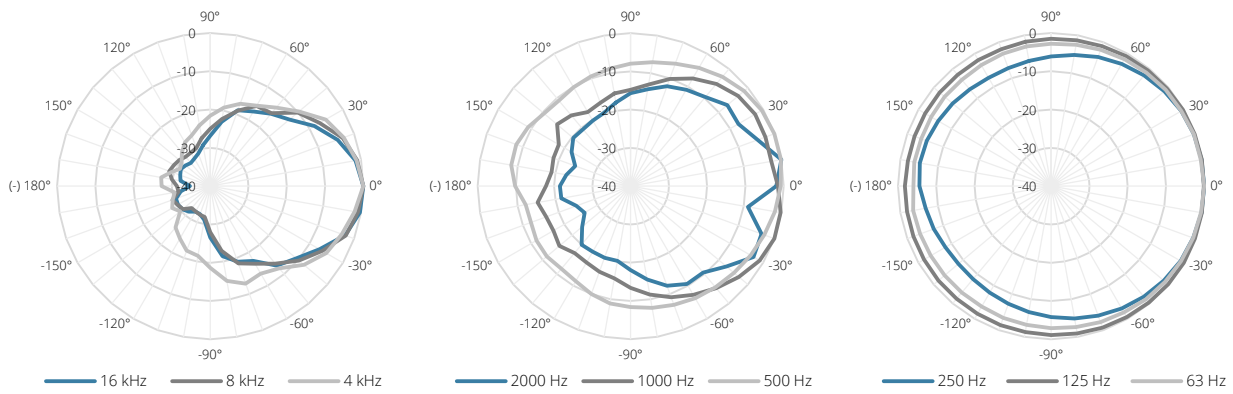
A 70V/100V transformer must be optional so the loudspeaker can be used in 70V or 100V systems.

# Acoustical data graphs:

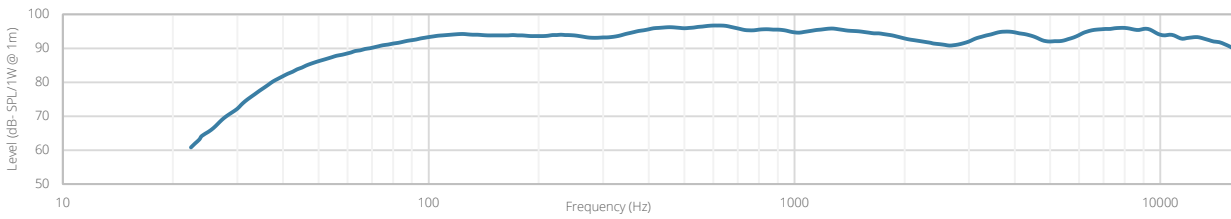
## Horizontal Polars:



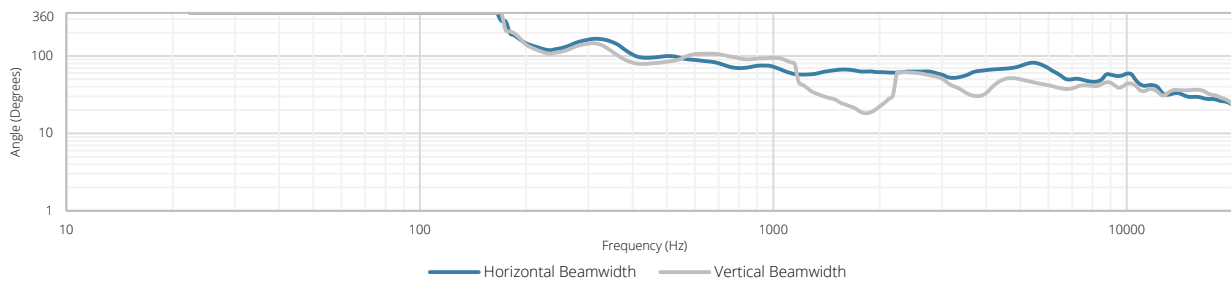
## Vertical Polars:



## Sensitivity:



## Beamwidth (-3dB):



## Directivity index:

