

**Ventus Series**  
Bassreflex-Subwoofer

## Ventus series

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## General Safety Instructions:

Loudspeakers produce a static magnetic field even if they are not connected or are not in use. Therefore make sure when erecting and transporting loudspeakers that they are nowhere near equipment and objects which may be impaired or damaged by an external magnetic field. Persons with cardiac pacemakers must maintain a safe distance.

The minimum recommended safety clearance is 1 m.

Never stand in the immediate vicinity of loudspeakers driven at a high level. Professional loudspeaker systems are capable of causing a sound pressure level detrimental to human health. Seemingly non-critical sound levels (from approx. 90 dB SPL) can cause hearing damage if people are exposed to it over a long period.

All connected cables must be laid in such a way that they cannot be crushed by objects and that nobody can step on them! Replace damaged cables immediately and do not use them!

Use only accessory parts specified by TENNAX or original accessory parts from TENNAX. Check all cabinets and accessories regularly for wear and replace them if necessary.

Do not set up the loudspeakers in places where they are permanently exposed to moisture, dust, dirt or direct sunlight.

## Care

Wipe the surface of loudspeakers only with a damp cloth and pure water. In case of heavy pollution, repeat the above procedure several times if necessary. Do not use any chemical additives or aggressive detergents, as these may harm and damage the surfaces.

## Transport and storage

When transporting and storing the unit, it is important to ensure that the surface and front grill of the loudspeaker are not damaged. Moisture can penetrate through exposed wood surfaces and cause the wood to swell. A bent or broken front grill will no longer adequately protect the sensitive speaker membranes. In addition, appreciable dust deposits may considerably impair the functionality of a loudspeaker membrane. For this reason, the loudspeakers should be transported and stored in a safe, careful, dry and largely dust-free manner.

The following accessory parts for transport and storage are available from TENNAX:

- Transport cover for Ventus-12, 15, 18 (sp) (Item no. 5T1121000, 5T1151000, 5T1181000)
- Detachable wheelboard for Ventus-12, 15, 18 (sp) (Item no. 5T1124000, 5T1154000, 5T1184000)

**Note:** *The original packaging is unsuitable as permanent storage and transport packaging!*

## Warranty

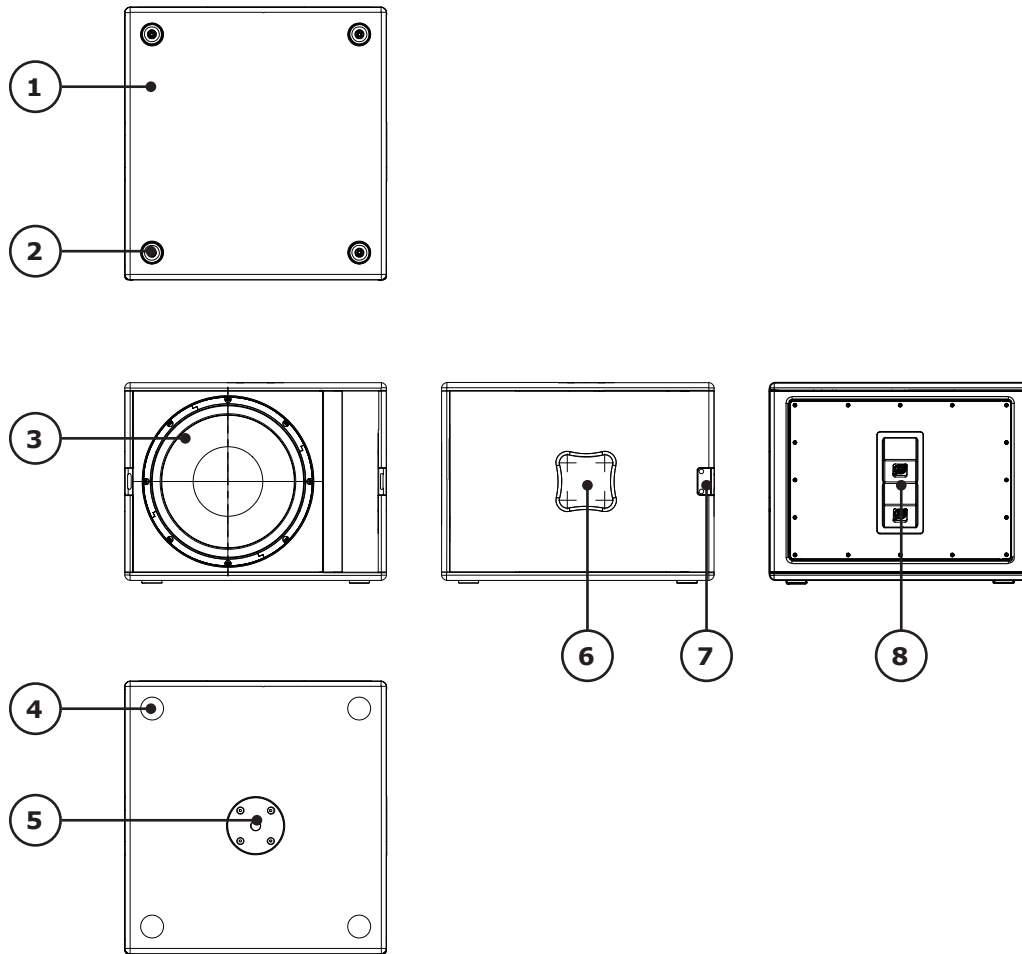
The warranty period is 24 months from date of delivery.

On our choice we will eliminate any lack of conformity with repair or with replacement of the faulty goods. The place of performance for warranty services is TENNAX headquarters in Dörverden. In case of remedy of defects, the buyer shall bear all costs resulting from transportation of the goods to TENNAX headquarters in Dörverden.

The ordering party is not entitled to remedy the defect by itself or to organise a replacement and to charge such activities to TENNAX. In case of self remedy by the ordering party the warranty given by TENNAX becomes void.

Warranty doesn't apply to parts of wear and tear, such as threaded points, such as threaded points, flying tracks, tilting pole socket, rubber feet and the SpeakON® connectors.

## Components



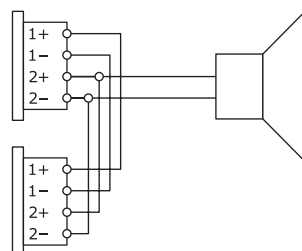
Technical drawing from Ventus-12

01. 15 mm multiplex housing, surface polyurea coating.
02. 4 x rubber feet on the underside.
03. 12", 15" or 18" woofer.
04. 4 x stacking troughs in the upper side.
05. M20 Mounting flange for spacer rod.
06. Handles on both sides in the side walls.
07. Butterfly holders on both sides for front wheelboard.
08. Connector panel with two SpeakON® connectors and Type plate with serial number.

Without illustration: Front grille 1 mm with 10 mm acoustic foam.

## Connections

The loudspeaker has two loop-through Neutrik NL4 SpeakON® IN/OUT connectors. They use the 2+/2- connection pins. Additional loudspeakers can be looped through via the second connector.



## Technical data

### Ventus-12/12sp

<b>Components</b>	1 x 12" woofer (LF) with 4" voice coil
<b>Lower cut-off frequency</b>	37 Hz (- 10 dB) 46 Hz (+/- 3 dB)
<b>Coverage range (h x v)</b>	Omnidirektional
<b>Powerhandling</b>	1.000 W AES / 2.000 W program / 4.000 W peak at 8 Ω
<b>Sound pressure</b>	126 dB SPL AES / 129 dB SPL program / 132 dB SPL peak
<b>Dimensions / Weight</b>	368 (h) x 480 (w) x 500 (d) mm / 30,2 kg
<b>Finish</b>	Polyurea coating in RAL 9005

### Ventus-15/15sp

<b>Components</b>	1 x 15" woofer (LF) with 4" voice coil
<b>Lower cut-off frequency</b>	34 Hz (- 10 dB) 43 Hz (+/- 3 dB)
<b>Coverage range (h x v)</b>	Omnidirektional
<b>Powerhandling</b>	1.000 W AES / 2.000 W program / 4.000 W peak at 8 Ω
<b>Sound pressure</b>	127 dB SPL AES / 130 dB SPL program / 133 dB SPL peak
<b>Dimensions / Weight</b>	438 (h) x 580 (w) x 540 (d) mm / 33,6 kg
<b>Finish</b>	Polyurea coating in RAL 9005

### Ventus-15/15sp

<b>Components</b>	1 x 18" woofer (LF) with 4" voice coil
<b>Lower cut-off frequency</b>	28 Hz (- 10 dB) 34 Hz (- 3 dB)
<b>Coverage range (h x v)</b>	Omnidirektional
<b>Powerhandling</b>	1.200 W AES / 2.400 W program / 4.800 W peak at 8 Ω
<b>Sound pressure</b>	130 dB SPL AES / 133 dB SPL program / 136 dB SPL peak
<b>Dimensions / Weight</b>	580 (h) x 580 (w) x 780 (d) mm / 50,0 kg
<b>Finish</b>	Polyurea coating in RAL 9005

## Setup

The Ventus self-powered series is designed for standing operation. Ensure that the loudspeakers are securely attached to prevent personal injury and damage of property.

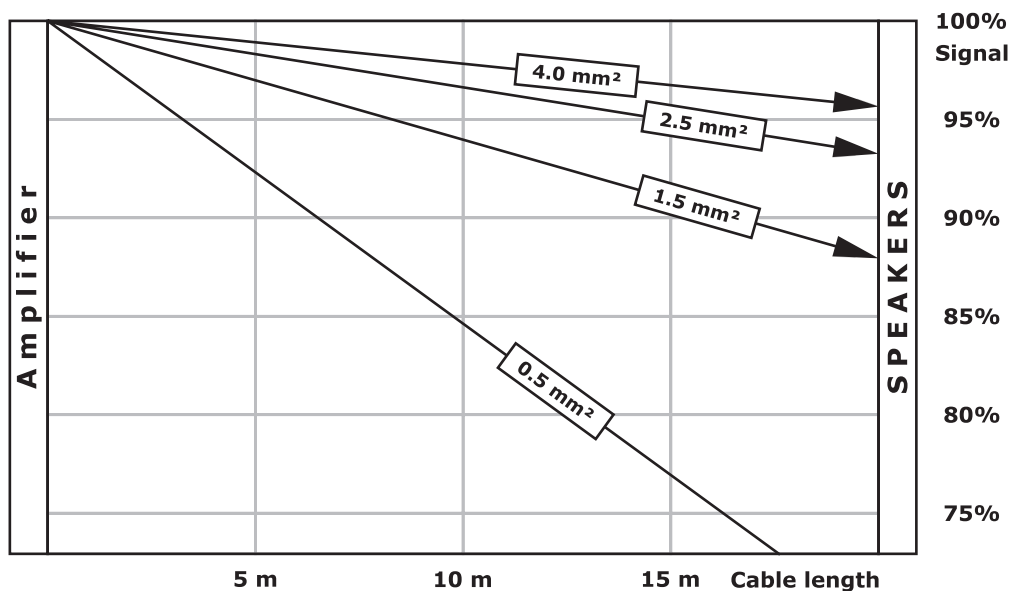
## Connecting cables

When connecting the cables to the loudspeaker, ensure that the polarity (+/-) and pin assignment (1/2) is correct. Incorrect connection results in a significant change in the loudspeaker sound characteristics and may damage the compression driver.

The two connection sockets on the back of the loudspeaker can be used to link multiple loudspeakers on a single amplifier. Note that parallel connection reduces the total impedance ( $\Omega$ ) seen by the amplifier. The total impedance of loudspeakers connected in parallel must not drop below the minimum operating impedance of the amplifier.

TENNAX recommends to use the available 4 x 4 mm<sup>2</sup> Speakon cables for mobile use.

We recommend wiring the basses with at least 4 mm<sup>2</sup> in installations. The cables of the tops in installations must be sufficiently dimensioned according to impedance, power and cable length.



Simplified display without consideration of loudspeaker impedances

## Operation

The 12", 15" and 18" chassis of the Ventus-self-powered series are powered by one channel (2.600 W/ 8  $\Omega$ ) of the internal power amplifier module. 2 x 1,000 W/ 4  $\Omega$  are available for satellites or monitors.

The woofers are designed in 8  $\Omega$ .

A second Ventus and up to 4 additional loudspeakers can be fed from one Ventus-sp.

## **Imprint**

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All specifications in this manual are based on information available at the time of publishing for the features and safety guidelines of the described products. Technical specifications, measurements, weights and properties are not guaranteed.

The manufacturer reserves the right to make technical modifications according to legal regulations stipulating the continual improvement of product features. For the safe operation of the unit, this manual and all other required information must be available to all users at the time of assembly and disassembly of the unit, and during operation. Assemble or operate the unit only after reading and understanding this manual, and keeping it at hand at all times at the site.

We are happy to receive your suggestions and proposals for the enhancement of this manual.

Please send us your ideas to the following address:

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