ASCENDO

C7

USER'S MANUAL

ASCENDO

Contents

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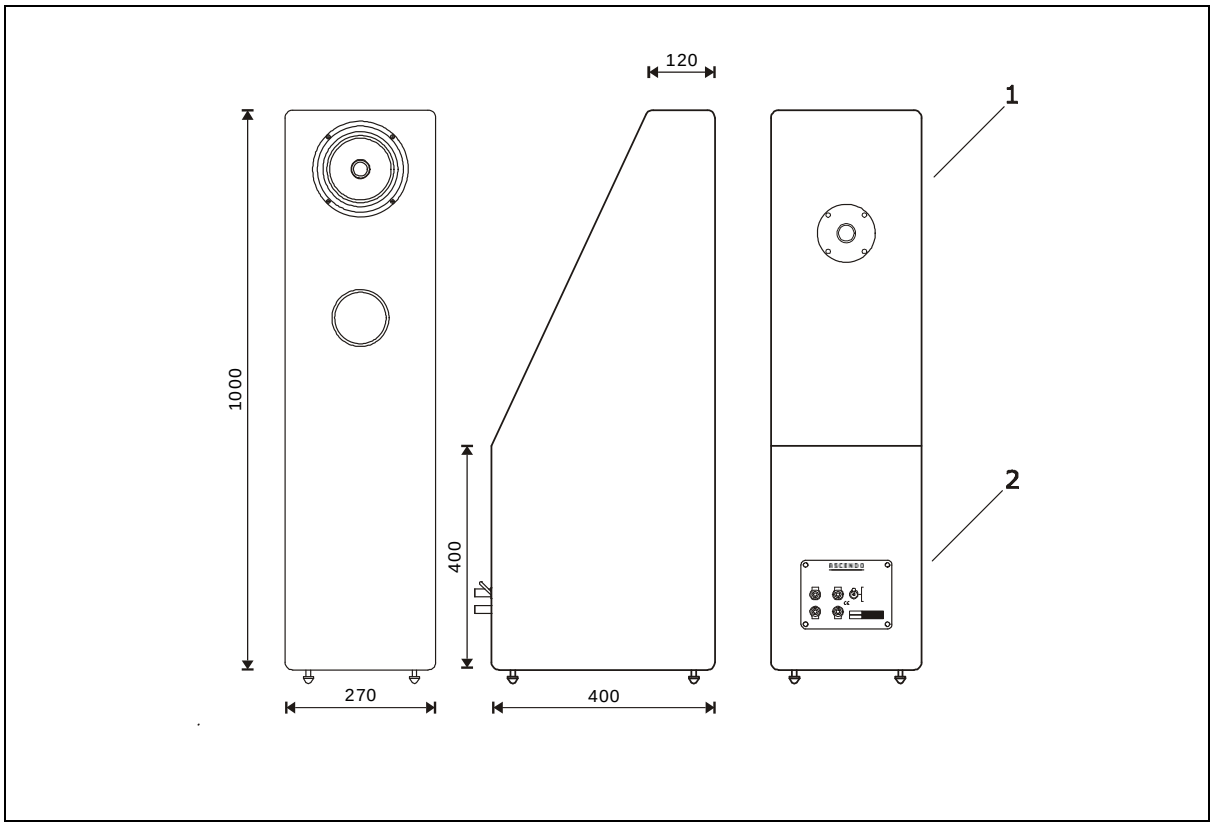
1 Overview

The ASCENDO C7 is a four-way Loudspeaker (TOS ON) constructed with ASCENDO's SASB-Technology and ASCENDO TOS-Unit.

1.1 Overall Picture



1 TOS-Unit

2 Terminal

1.2 Application

The ASCENDO Loudspeaker C7 intended for use in small to mid-size rooms (< 100 m³).

You can use the C7 with amplifiers in the power range of 10 W to 350 W.

1.2 Safety Warning

Warning

This Loudspeaker can produce high sound-levels. This may damage your ears permanently!

1.4 Operating modes

You can use the C7 a single-amp setup (one power amplifier for high- and low-frequency unit) or in a bi-amp setup (one power amplifier for the low-frequency-unit, one for the high-frequency unit).

If your setup is single-amp you must bridge the high- and low-frequency unit with a high quality speaker cable.

1.5 Technical Data

Principle	Three-Way with SASB bass unit (TOS Off) (current damped outer driver with semi symmetrical band pass) Four-Way with SASB bass unit (TOS ON)
Dimensions (W/H/D)	27 / 100 / (40-12)
Weight	30 Kg
Frequency Range	28 Hz (-3 dB) – 25.000 Hz
Power	350 W Program (min.)
Impedance	6 Ohm
Sensivity	88 db / 1W/m
Outer Chassis (Coax)	COAX • 25 mm Neodymium-fabric-tweeter • 17 cm Woofer with XP cone
Inner Chassis	21 cm Chassis, Kevlar cone
TOS Chassis	27 mm Magnesium tweeter no Ferrofluid
TOS function	switch able An: TOS Unit / Dipole On Aus: TOS Unit / Dipole Off
Sockets	Bi-Wiring

Technical data may change without notice

2. Setting up and Transport

2.1 Demands of speaker location

- Use the C7 in closed rooms only. Do not expose the speaker to high humidity, direct water and direct sunbeam.
- Take care of a minimum distance of 2 m of the speaker to monitors (TV, computer) and magnetic devices (audio/video-cassettes, floppy-disks, etc.).

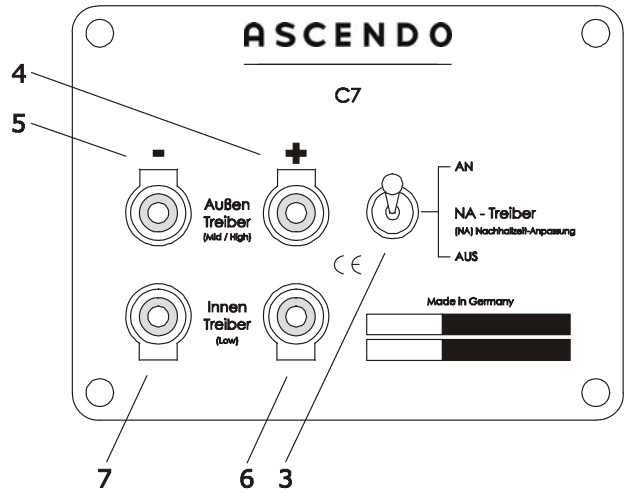
WARNING
There may be a slight permanent imprint in soft floor-material.

2.2 Transport

Before any movement of the speaker switch of the power amplifiers and disconnect all cables of the C7.

WARNING
Don`t try to move or transport the C7 alone! The weight affords at least two persons.

4. Connection



4	Plus	Outer Chas (Coax)	Mid / High
5	Minus	Outer Chassis (Coax)	Mid / High
6	Plus	Inner Chassis	Low
7	Minus	Inner Chassis	Low
3	Switch	TOS Unit / Dipole On - Off	

The high- and low-frequency unit can be connected as follows:

- **single-wired:** one cable-pair from power-amp to low-frequency unit, one cable-pair from low-frequency unit to high-frequency unit.
- **bi-wired:** one cable-pair from power amp to low-frequency unit, one from the power amp to high-frequency unit. This is recommended by ASCENDO.
- **bi-amped:** one cable-pair from separate amps for low- and high-frequency unit.

Take care of connecting always the plus (red) terminal of your power amp with the plus (4 + 6 / red) terminal of the speaker.

5. TOS-Unit

The conception of C7 utilizes a switch-able backfiring TOS-Unit. This Unit optimizes spectral inhomogeneous decay times.

The system offers two complementary modes of operation:

Switch (8) in position **AN** (Dipole)

- 4-way dipole diversity with TOS - Unit

Switch (8) in position **AUS** (Hemisphere)

- One-Point-Source with homogenous hemisphere diversity

6. Cleaning

Clean the enclosure and stand of the ASCENDO C7 with a dry and soft cloth.
Don't use water or other chemicals. Don't touch the tweeter and the woofer.