HDL-XC62-KV/HDL-NS83-KV/
HDL-NW82-KV/HDL-SIW82
Rhythmus Speaker XC62/NS83/NW82/SIW82

Datasheet
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Overview

Rhythmus speakers (See Figure 1- 4) are manufactured with high quality components and engineered to deliver top quality sound performance. These high performance flush mounting loudspeakers have been designed to give you many years of trouble free listening enjoyment. They comes with an easy to install mounting system, with frame and grilles that can be painted to match your room decoration.

Features

- 2-way full-frequency sound design
- Has tweeter (except HDL-SIW82)
- Has woofer (except HDL-NS83-KV)
- Supports high tone protection
- Contemporary low profile grille design



Figure 1. HDL-XC62-KV

Important Notes

- Be certain that there are no electrical wires, water pipes, or heating ducts in the planned installation area before you start drilling or cutting into the ceiling. If there is an electrical outlet nearby, turn off the circuit breaker to avoid possible injury.
- If no insulation is present, you may want to consider loosely filling the cavity with dacron, or fiber-glass insulation to provide some acoustic dampening, improving overall sound quality especially in the low or bass frequencies.
- Do not over-tighten the screws as damage can result to the speaker's frame. Place grille on speak-ers to complete the installation.



Figure 2. HDL-NS83-KV

Safety Precautions

- The installation and commissioning of the device must be carried out by HDL or the organization designated by HDL. For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- HDL does not take responsibility for all the consequences caused by installation and wire connection that are not in accordance with this specification.
- Please do not privately disassemble the device or change components, otherwise it may cause mechanical failure, electric shock, fire or body injury.
- Please resort to our customer service department or designated agencies for maintenance service. The warranty is not applicable for the product fault caused by private disassembly.



Figure 3. HDL-NW82-KV

Package Contents

HDL-XC62-KV(with grille)*2 / Datasheet*1
HDL-NS83-KV(with grille)*1 / Datasheet*1
HDL-NW82-KV(with grille)*2 / Datasheet*1
HDL-SIW82(with grille)*1 / Datasheet*1



Figure 4. HDL-SIW82

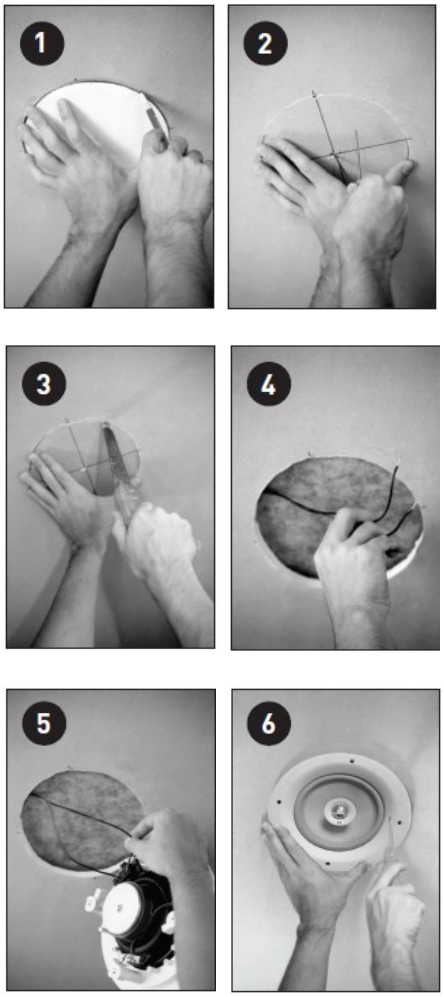


Figure 5. Installation

Installation

Tools:

- Jig saw or wall board saw
- Star shaped screwdriver
- Level
- Coat hanger or about 1.5 feet (40cm) of solid core wire
- Speaker cable
- Drill
- Measuring tape
- Wire strippers
- Wire snake (fish)
- Electronic stud finder (Optional)

Installation - See Figure 5

1. Check for obstructions. Once you have determined the ideal location, tap the wall or ceiling with your knuckles or use an electronic stud finder to check for studs or beams to be avoided.
2. Drill a hole in the center of the traced outline. Cut approximately 1' (30cm) of coat hanger wire and bend it to a right angle in the middle. Insert in the hole and rotate to check for wires, pipes, studs or other obstructions.
3. Carefully cut out the speaker hole with a fine toothed key hole saw or drywall saw. Remove the cutaway and compress the insulation if any.

4. & 5. Drag the speaker cable from the receiver or power amplifier behind the wall or ceiling and out of the speaker hole, allowing 2' (60cm) of slack to protrude. Strip about 3/8"(1cm) off the ends of the speaker wires and connect to the speaker terminals.

6. Ensure the "Dog Ears" are fully extended and insert the speaker in the wall or ceiling. Level and tighten the screws on the speaker frame to fix the speaker in place.

Technical Data

Basic Parameters

Model	HDL-XC62-KV	HDL-NS83-KV	HDL-NW82-KV	HDL-SIW82
Product name	Rhythmus Ceiling Speaker XC62	Rhythmus Ceiling Speaker NS83	Rhythmus Wall Speaker NW82	Rhythmus Wall Speaker SIW82
Woofer	6.5" Kevlar	8" Kevlar	8" Kevlar	8" Paper
Tweeter	1" Ferrofluid cooled silk dome in swivel mount	Dual 3/4"Ferrofluid cooled silk dome	1"Ferrofluid cooled silk dome in swivel mount, +/- 3dB Treble Switch	-
Impedance	8 Ω	8 Ω	8 Ω	8 Ω
Sensitivity	87dB@1W/1M	89dB@1W/1M	87dB@1W/1M	89dB@1W/1M
Power handling	120W	150W	150W	240W
Frequency response	50-20kHz	30-20kHz	30-20kHz	45-500Hz

External Environment

Working temperature	-5℃~45℃
Working relative humidity	≤90%
Storage temperature	-20℃~60℃
Storage relative humidity	≤93%

Specifications

Dimensions	250x144(mm)	278x100mm	262x355x91.5mm	290x480x103mm
Cutout dimensions	210mm	252mm	332x240mm	260x450mm
Mounting depth	135mm	97mm	88mm	91mm
Net weight	1.9 kg	2.9 kg	3.18kg	4.53kg
Housing material	Kevlar, silk dome	Kevlar, silk dome	Kevlar, silk dome	Paper, silk dome
Installation	In-ceiling mounting	In-ceiling mounting	In-wall mounting	In-wall mounting
Protection rating (Compliant with EN 60529)	IP20			

Name and Content of Hazardous Substances in Products

Components	Hazardous substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium VI (Cr (VI))	Poly-brominated biphenyls (PBB)	Poly-brominated diphenyl ethers (PBDE)
Plastic	o	o	o	o	o	o
Hardware	o	o	o	o	-	-
Screw	o	o	o	×	-	-
Solder	×	o	o	o	-	-
PCB	×	o	o	o	o	o

The symbol "-" indicates that the hazardous substance is not contained.
The symbol "o" indicates that the content of the hazardous substances in all the homogeneous materials of the component is below the limit requirement specified in the Standard IEC62321-2015.
The symbol "×" indicates that the content of the hazardous substance in at least one of the homogeneous materials of the part exceeds the limit requirement specified in the Standard IEC62321-2015.