

# SONANCE

## PS-P83T

### PROFESSIONAL SERIES PENDANT SPEAKER

#### PROFESSIONAL SERIES

**From Sonance, the company that created the architectural audio category comes a range of professional loudspeakers that set a new benchmark in sound quality and aesthetics for commercial environments.**

Sonance Professional Series includes a range of In-Ceiling, Pendant and Surface Mount Speakers that deliver unequalled fidelity, extremely low distortion, wide dispersion and a smooth power response. The range also shares consistent voicing, ensuring seamless sonic integration when used together throughout a space.

Sonance Professional Series PS-P83T Pendant Speaker utilizes a minimalistic design similar to pendant lighting to blend discretely into the environment, and take advantage of the same one-piece grille design as the In-Ceiling Speakers to deliver consistent sight lines when installed in the same space.

The integrated top cover hides the hanging hardware and wiring connector.

A high-excursion 8" polypropylene woofer delivers effortless low bass extension, even at high volumes, while the pivoting chambered 1" soft dome tweeter can be directed to ensure accurate coverage, when speaker positioning is compromised.

Additionally, the Sonance PS-P83T is certified for UL 1480 and UL 2239.

Available in either black or white (paintable).

#### FEATURES AND BENEFITS

##### PERFORMANCE

- Class-leading sensitivity & sonic performance
- Exceptional off-axis response
- Heavy duty voice coil for longevity and reliability
- Full-fidelity transformer for uncompromised tonality
- Consistent voicing across product range

##### AESTHETICS

- Clean elegant design inspired by pendant light fixtures
- Connector and hanger top cover to hide hardware
- Available in black or white (paintable)

##### INSTALLATION

- Magnetic grille retention for fast installation and removal
- Front-mounted finger-adjustable selector tap
- Hanging hardware supplied

#### APPLICATIONS

- Boardrooms & Corporate Offices
- Shopping Malls, Retail Spaces & Showrooms
- Restaurants, Bars & Lounges
- Galleries & Museums
- Casinos, Convention Centers & Hotels
- Houses of Worship
- Educational Facilities



BLACK OR WHITE OPTION

# SONANCE

## TECHNICAL SPECIFICATIONS

### LOUDSPEAKER

|                         |                                                                      |
|-------------------------|----------------------------------------------------------------------|
| Frequency Range (-10dB) | 41Hz - 25kHz                                                         |
| Frequency Range (-3dB)  | 55Hz - 20kHz                                                         |
| Power Capacity          | 160 Watts Continuous Program Power<br>80 Watts Continuous Pink Noise |
| Nominal Sensitivity     | 90dB                                                                 |
| Nominal Coverage Angle  | 120 degrees conical coverage                                         |
| Directivity Factor (Q)  | 7.6                                                                  |
| Directivity (DI)        | 8.1dB                                                                |
| Rated Maximum SPL       | 110dB @ 1 meter (3.3 feet) average, 116dB peak                       |
| Rated Impedance         | 8 Ohms nominal, 6 Ohms minimum                                       |
| Transformer Taps        | 70V: 60W, 30W, 15W and 7.5W<br>100V: 60W, 30W and 15W                |

|                   |                                               |
|-------------------|-----------------------------------------------|
| Crossover Point   | 2750Hz                                        |
| Overall Dimension | 11.06" Diameter x 19.7" Depth (281mm x 500mm) |
| Net Weight        | 16.26 lbs (7.38kg) each                       |
| Shipping Weight   | 46.97 lbs (21.31kg) pair                      |
| Unit of Measure   | Pair                                          |
| Color             | Black or White                                |
| Grille            | Bezel-less magnetically retained grille       |

### TRANSDUCERS

|           |                                                      |
|-----------|------------------------------------------------------|
| LF Driver | 8" (203mm) Polypropylene Cone, Butyl Rubber Surround |
| HF Driver | 1" (25mm) Cloth Dome, Pivoting, Ferrofluid cooled    |

### ENCLOSURE

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Input Connectors  | Four pin Euroblock with loop output connections |
| Safety Agency     | UL 1480, UL 2239, NFPA 70                       |
| Suspension Points | Five points, top mounted                        |



PS-P83T (White)  
SKU# 40136



PS-P83T (Black)  
SKU# 40140

## ACCESSORIES

### INCLUDED ACCESSORIES

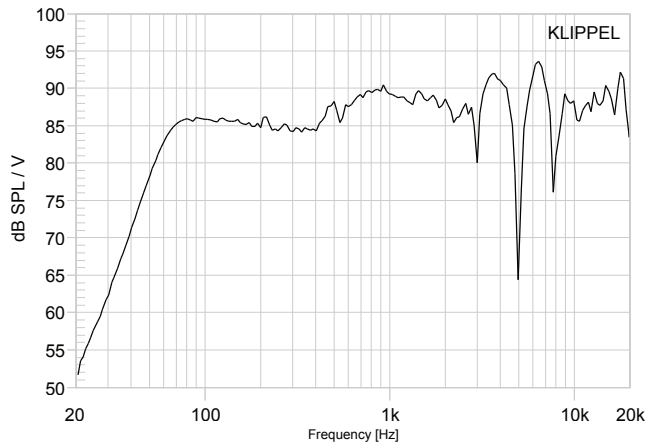
- Euroblock Connector x 2
- 16.4' (5m) Stainless Steel Cable with Snap Hook x 4
- Gripple® Hanger x 4
- Gripple® Adjustment Tool x 2
- Weather Boot x 2
- Grille x 2

### OPTIONAL ACCESSORIES

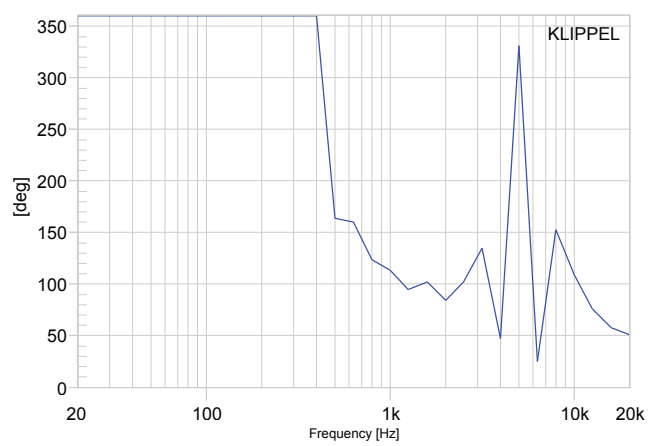
- Replacement Round Grille White (pair) | 40154
- Replacement Round Grille Black (pair) | 40157
- Replacement Hanging Hardware Kit | 40176

## PERFORMANCE MEASUREMENTS

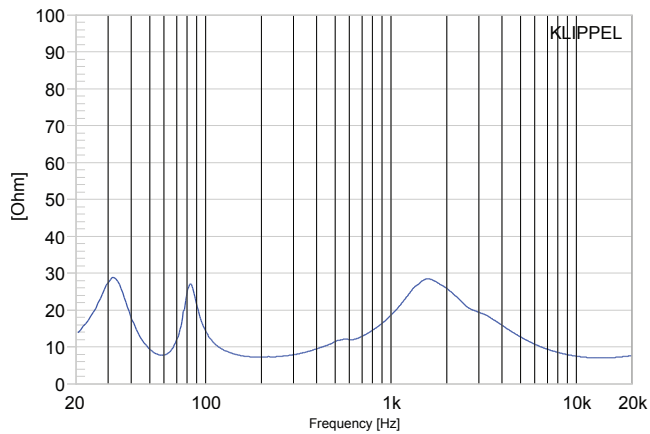
1 METER ON AXIS FREQUENCY RESPONSE



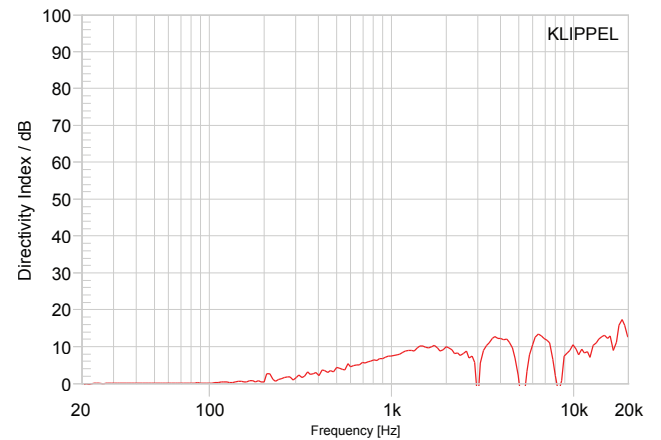
BEAMWIDTH VS FREQUENCY



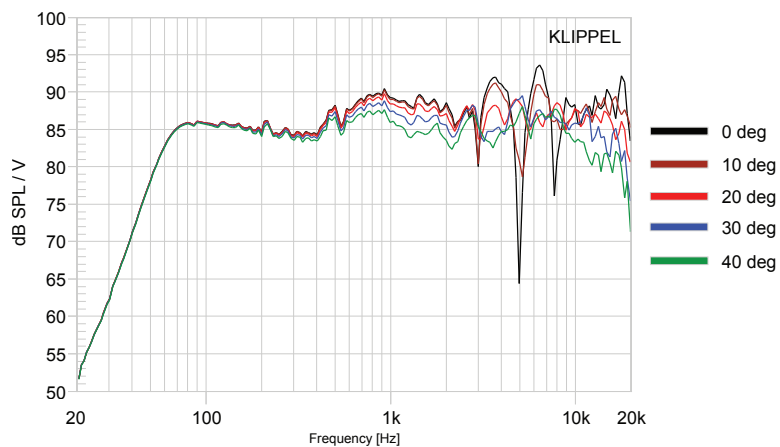
IMPEDANCE VS FREQUENCY



DIRECTIVITY INDEX VS FREQUENCY



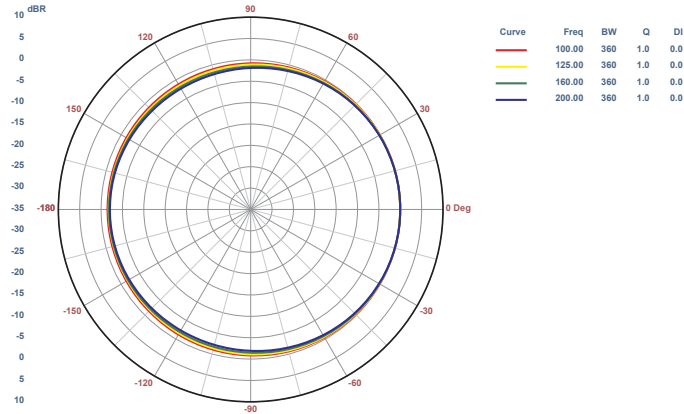
1 METER HORIZONTAL FREQUENCY RESPONSE



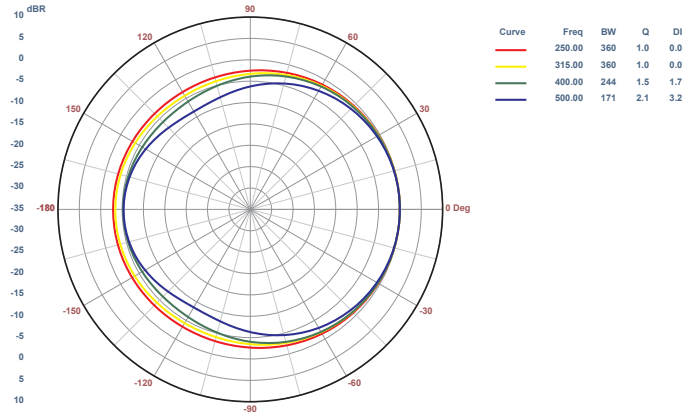
# SONANCE

## POLAR PLOTS (1/3 OCTAVE)

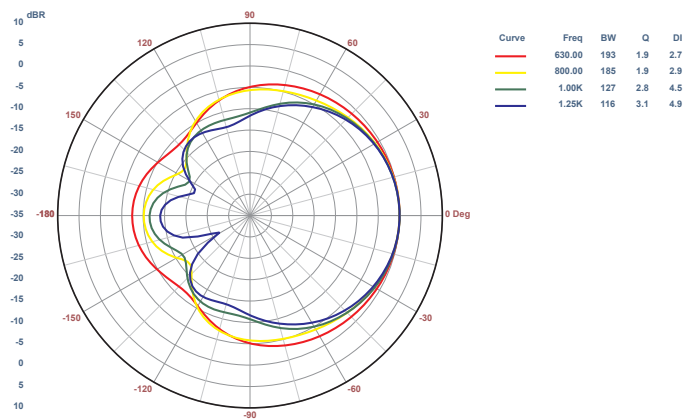
RATIO VS ANGLE



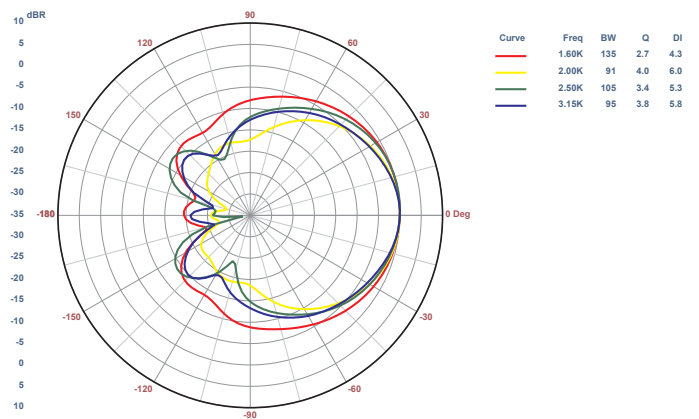
RATIO VS ANGLE



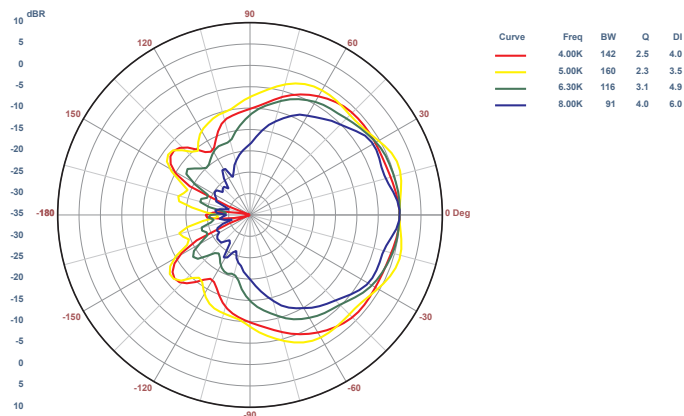
RATIO VS ANGLE



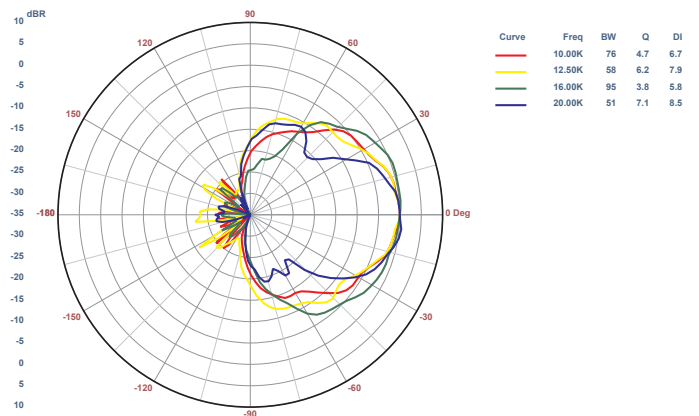
RATIO VS ANGLE



RATIO VS ANGLE



RATIO VS ANGLE



## DIMENSIONAL SKETCHES SPECIFICATIONS

### PS-P83T Loudspeaker

#### Diameter

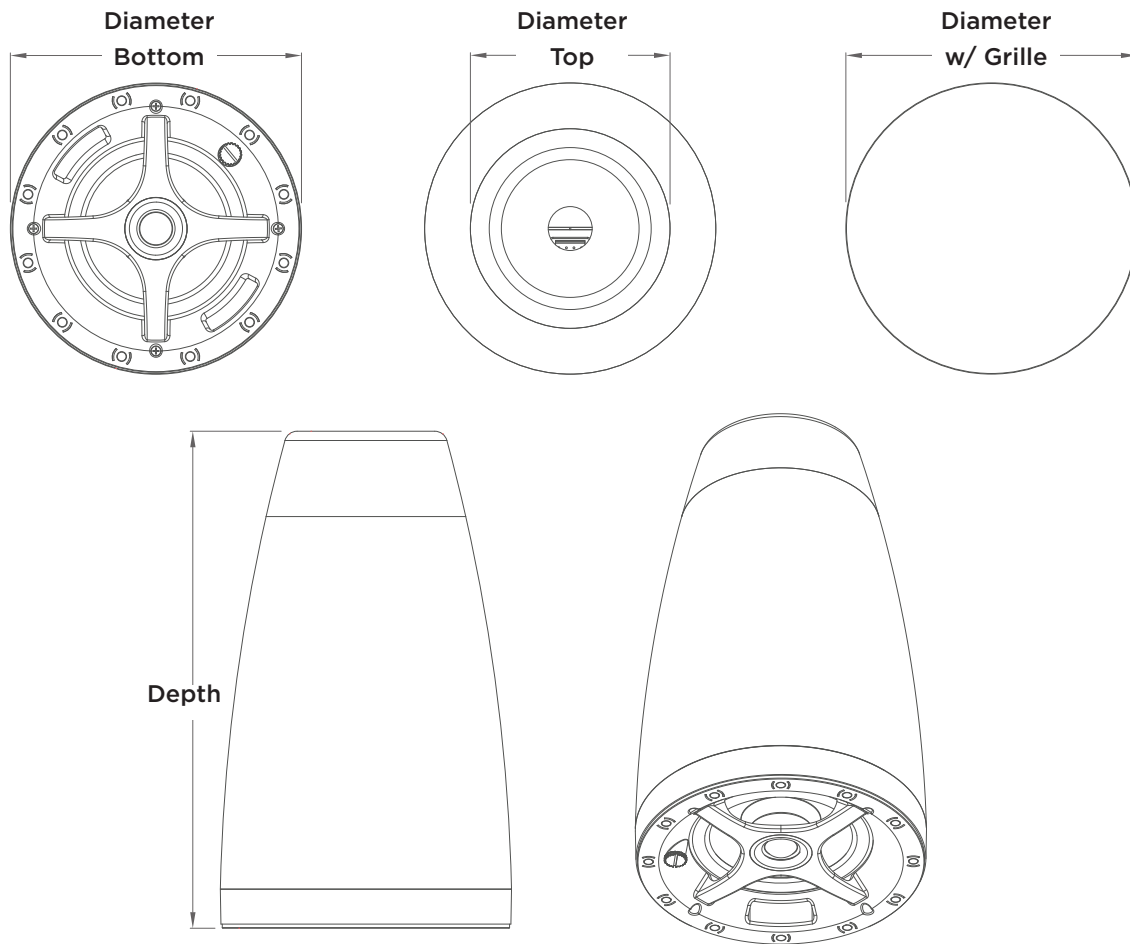
Bottom: 11.06" (281mm)

Top: 5.791" (147mm)

Depth: 19.7" (500mm)

#### With Grille

Diameter: 11.06" (281mm)



# SONANCE

## ASSOCIATED PRODUCTS

### IN-CEILING SPEAKERS

|                              |       |
|------------------------------|-------|
| PS-C43RT In-Ceiling Speaker  | 40130 |
| PS-C63RT In-Ceiling Speaker  | 40131 |
| PS-C83RT In-Ceiling Speaker  | 40132 |
| PS-C83RWT In-Ceiling Speaker | 40133 |

### PENDANT SPEAKERS

|                                |       |
|--------------------------------|-------|
| PS-P43T Pendant Speaker White  | 40134 |
| PS-P63T Pendant Speaker White  | 40135 |
| PS-P83WT Pendant Speaker White | 40137 |
| PS-P43T Pendant Speaker Black  | 40138 |
| PS-P63T Pendant Speaker Black  | 40139 |
| PS-P83WT Pendant Speaker Black | 40141 |

### SURFACE MOUNT SPEAKER

|                                      |       |
|--------------------------------------|-------|
| PS-S43T Surface Mount Speaker White  | 40142 |
| PS-S53T Surface Mount Speaker White  | 40143 |
| PS-S63T Surface Mount Speaker White  | 40144 |
| PS-S83T Surface Mount Speaker White  | 40145 |
| PS-S83WT Surface Mount Speaker White | 40146 |
| PS-S43T Surface Mount Speaker Black  | 40147 |
| PS-S53T Surface Mount Speaker Black  | 40148 |
| PS-S63T Surface Mount Speaker Black  | 40149 |
| PS-S83T Surface Mount Speaker Black  | 40150 |
| PS-S83WT Surface Mount Speaker Black | 40151 |

### DSP AMPLIFIER

|                            |       |
|----------------------------|-------|
| Sonamp DSP 2-750 Amplifier | 93095 |
|----------------------------|-------|

## ARCHITECTURAL SPECIFICATIONS

The loudspeaker shall be of the two-way type comprising a pendant-style injection-molded ABS enclosure containing one 8" (203mm) polypropylene cone, butyl rubber surround low frequency transducer and one coaxially mounted 1" (25mm) cloth dome, chambered and pivoting, ferrofluid cooled high frequency transducer. It shall utilize a powder coated steel, bezel-less grille that is retained magnetically. Frequency range shall be 55Hz - 20KHz (-3dB). Total power handling shall be 80 Watts continuous pink noise and 160 Watts program. Sensitivity measured with 2.83 volts input at 1 meter on axis averaged between 55Hz - 20KHz shall be 90dB. The unit shall be supplied with a line-matching transformer suitable for 100 volt or 70 volt with a front-mounted control allowing user selectable power taps of 60W, 30W, 15W, and 7.5W (70V) and an 8 Ohm bypass. The top of the enclosure shall include a 5-point hanging mount and four-pin Euroblock connector with loop-through, both of which shall be hidden by a removable integrated top cover. The system shall be certified for UL 1480 (UEAY) and UL 2239 and include UL listed hanging hardware and secondary hardware for safety redundancy, Euroblock connector and weather-resistant terminal boot. External dimensions shall be 11.06" Diameter x 19.7" Depth (281mm x 500mm). The total enclosure shall weigh 10 lbs. (4.53 kg) per unit. It shall share consistent voicing with other form factors and sizes within its product family so as to provide continuity of sonic signature when combined within a project. The loudspeaker shall be the Sonance Professional Series PS-P83T. No other system shall be acceptable unless the above combined performance specifications are equaled or exceeded.

# SONANCE

## SAFETY AGENCY COMPLIANCE

Sonance Professional Series Pendant Speaker are compliant with:

### UL 1480

Standard For Safety For Speakers for Fire Alarm, Emergency, and Commercial and Professional Use.

### UL 2239

Standard For Safety Hardware for the Support of Conduit, Tubing, and Cable

### NFPA 70

2002 National Electrical Code



## TECHNICAL ASSISTANCE AND SERVICE

The Technical Assistance Department at Sonance is available at (949) 492-7777 to answer any questions concerning the operation and installation of your speakers between the hours of 7:00 AM and 5:00 PM Pacific time, Monday through Friday, except holidays.

In the event your unit should need repair or service, you may return the unit to your authorized dealer or use the following guidelines:

### PLEASE KEEP ORIGINAL PACKAGING WHEN POSSIBLE.

1. Be prepared to state the model number and / or serial number, date of purchase, and dealer's name and address when calling.
2. Contact Sonance directly at (949) 492-7777 or at [www.sonance.com](http://www.sonance.com). **YOU MUST HAVE PRIOR AUTHORIZATION TO RETURN YOUR UNIT.**
3. If you are returning the product directly to Sonance, call us to obtain a return authorization number before shipping.
4. Ship the product via United Parcel Service, Federal Express, or other package delivery service. Please do not use the U.S. Postal Service.
5. Include the return authorization number on the shipping label.
6. Ship to:

Attn: Quality Assurance Department,  
RMA#(include RMA number here)  
Sonance  
11016 Mulberry Ave.  
Suite B  
Fontana, CA 92337

# SONANCE

## WARRANTY, REMEDY, EXCLUSIONS AND LIMITATIONS

### LIMITED WARRANTY

Sonance warrants this product to the original purchaser to be free from defects in material and workmanship, under normal use and conditions, for a period of five (5) years from the date of original purchase as shown on the invoice. The foregoing exclusive warranty gives you specific legal rights, and you may have other rights, which vary from state to state. This warranty applies exclusively to the original purchaser.

The exclusive warranty does not apply and is ineffective if:

1. The invoice fails to establish that the product was purchased from an authorized Sonance dealer or distributor;
2. The product was subjected to misuse, neglect, accident, or improper installation.  
(Damage to the product was caused by accident, abuse or misuse);
3. The product was modified, altered, or repaired by unauthorized personnel; or
4. The unit was not used as described in the installation and operating instructions.

### EXCLUSIVE REMEDY

Sonance agrees, at its option during the five (5) year warranty period, to repair any defect in material or workmanship or to furnish an equal product in exchange without charge to the purchaser, subject to the verification of the defect and proof of the date of purchase.

### WARRANTY EXCLUSIONS AND DAMAGE LIMITATIONS

The exclusive warranty set forth above is in lieu of all other warranties, express or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose, which are expressly disclaimed. In no event, and under no circumstances or legal or equitable theory, shall Sonance be liable or responsible for any direct or indirect damages, consequential damages, loss, or injury, including without limitation, personal injury, bodily injury, property damage, emotional distress, death, real property or personal property damage, business interruption, costs of delay or lost profits arising from the product, whether based upon warranty, contract, negligence, strict product liability or other theory.

# SONANCE

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