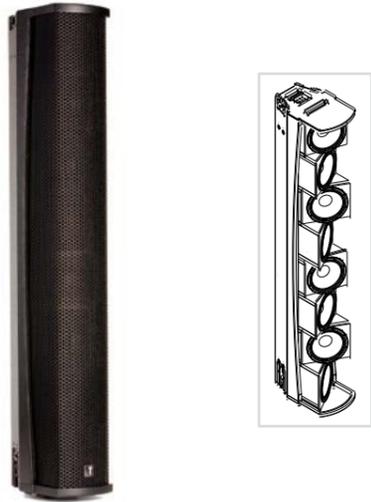


# PSUT8AE

Wide-dispersion sound column Additional Element



TECHNICAL FEATURES	
Power handling RMS	<b>400 W</b>
Power handling Music	<b>800 W</b>
Power handling Peak	<b>1600 W</b>
Frequency response (-6 dB)	<b>140 ÷ 18k Hz</b>
Axial sensitivity (1W@1m)	<b>96 dB</b>
Continuous SPL (@1m / @16m)	<b>122 dB / 99 dB</b>
Peak SPL (@1m / @16m)	<b>128 dB / 105 dB</b>
Nominal impedance	<b>16 Ohm</b>
Horizontal coverage angle (-6 dB)	<b>150° (multi-angular loudspeaker design)</b>
Vertical coverage angle (-6 dB)	<b>15° (array effect)</b>

TRANSDUCERS	
Sub system	<b>8 x 4" full range neodymium magnet</b>
Nominal impedance	<b>8 Ohm</b>
Nominal power handling (AES)	<b>50 W</b>
Sensitivity (1W@1m)	<b>92 dB</b>

## DESCRIPTION

PSUT8AE is a stackable, 98-cm long, sound column speaker, with wide sound coverage and is designed to be positioned between the base (the self-powered subwoofer PSUTBASE/A) and the top element (PSUT8TE) to create acoustic continuity between the two units. It has the same power handling capacity as the top unit (400 W RMS), but it has a shorter throw while, at the same time, a wider horizontal opening. Using this element increases the availability of the mid-low frequencies and is essential for voice and solo instrument reproduction.

## COMPONENTS

PSUT8AE models are made up of 8 x 4" full-range loudspeakers specifically designed for array installations with an optimized high-frequency efficiency. Moreover, the on-axis frequency response produced by this type of line source is nearly homogeneous thanks to a greater acoustic coupling at low frequencies.

The PSUT8AE sound column is distinguished by the mixed placement of the 8 loudspeakers (directed at 30°, 20°, 30° and 20° by sets of two, as regards the frontal axis, from the bottom). This solution (called *multi-angular loudspeaker design*) was achieved by means of accurate simulations starting with the measurement of the polar data of the individual speakers, carried out by the R&D lab of Sound Corporation.

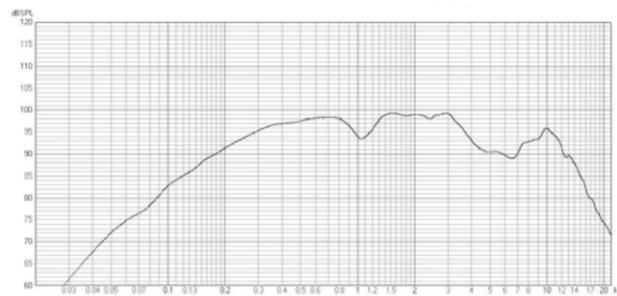
## CABINET

The cabinet, made of Finnish birch, can withstand any type of mechanical oscillations without vibrating. The water-based paint used for the cabinets contains a textured component specially thought up to withstand damages due to abrasions, scratches, bumps, or high levels of humidity. On the bottom and the top of the cabinet there is a solid hooking system and an interlocking *plug & play* connector (to receive power from the lower elements and send it to the upper ones), which excludes the need for external cables. Black and white cabinets are customizable with no extra charge.

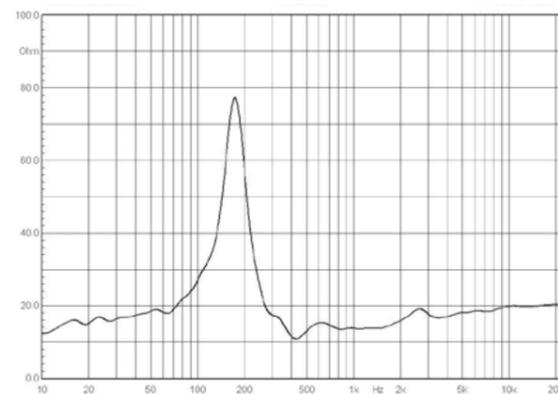
## USE

PSUT8AE sound column speakers can be used for different purposes. This model can be used together with one (or more) PSUT8TE speakers in passive stack configurations (using the PSUT8-AC *jumper-speaker* converter) or alternatively in active stack systems with the addition of the active subwoofer (PSUTBASE/A) and one PSUT8TE element. This latter configuration is particularly recommended for simultaneous use as main PA and stage fill.

## FREQUENCY RESPONSE

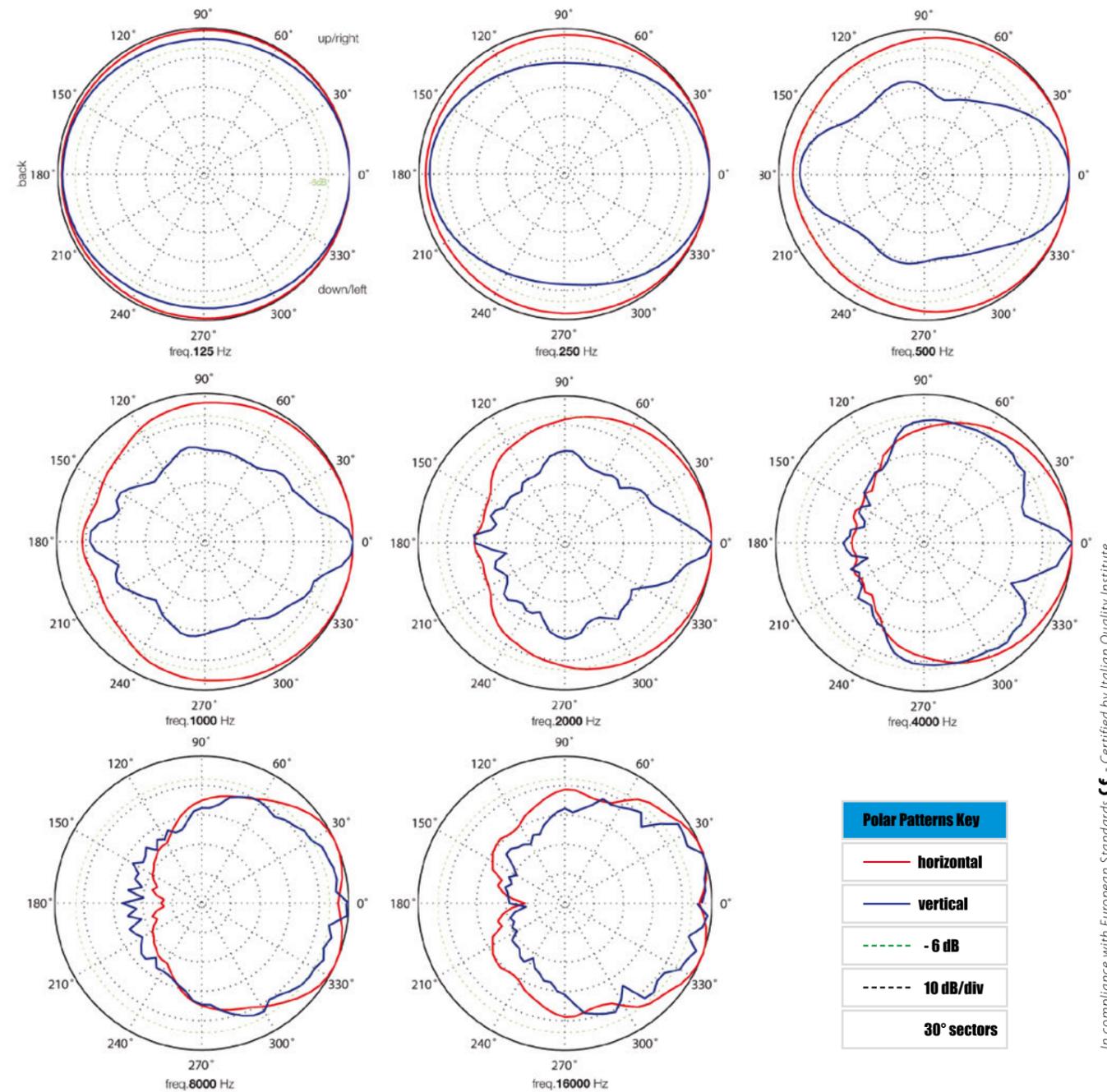


## IMPEDANCE RESPONSE



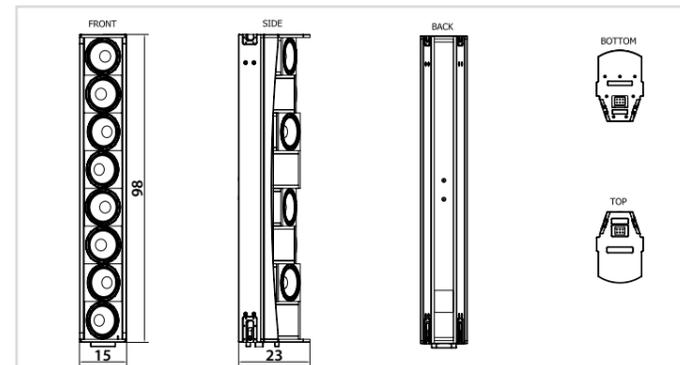
All measurements have been taken in Sound Corporation R&D laboratories

## PSUT8AE POLAR PATTERNS (normalized, ref on axis)



### Polar Patterns Key

- horizontal
- vertical
- - - - -6 dB
- - - - 10 dB/div
- 30° sectors**



PHYSICAL	
Cabinet	<b>birch plywood</b>
Colour	<b>black or white</b>
Input connectors	<b>direct connection to another UT element</b>
Finish	<b>water-based polyurethane varnish</b>
Grille	<b>black or white, perforated steel (Ø 6 mm) with acoustically transparent foam</b>
Suspension accessories	<b>STD-WUT8</b>
Dimensions (WxHxD)	<b>15 x 98 x 23 cm</b>
Net weight (kg)	<b>10</b>

In compliance with European Standards - Certified by Italian Quality Institute

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