

General Product Description

The EV (Electro-Voice®) **925-8B** series Duplex® loudspeaker system is a two-way loudspeaker featuring a rectangular-coverage 90° x 90° horn driven by a 1-inch compression driver coaxially mounted to a 12-inch low frequency cone and high temperature voice-coil assembly. The **925-8B** utilizes a dual section crossover network with a self-resetting protection circuit for the compression driver. In order to operate the loudspeaker from 70.7V/100V distribution lines, an aluminum plate is utilized to mount the 15732 matching transformer.

The **925-8B** Duplex loudspeaker system provides a square coverage pattern, high efficiency, high maximum output, ease of installation, and wide-range reproduction of music and voice for different venues such as churches, auditoriums, hotels and civic centers.

The **925-32T** utilizes a 15732 transformer to offer a selection of 4, 8, 16 and 32 watts to the loudspeaker system using either 70-V or 100-V lines.

Selecting a Transformer Tap for Transformer Models

The transformer tap of choice can be made by making connection between the ground lead and any of the wattage taps indicated on the transformer label. Also refer to the label to determine the appropriate wattage for the line voltage used.

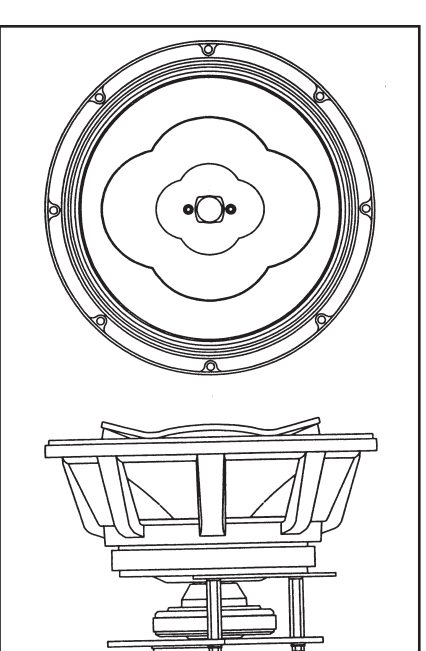
Architects' and Engineers' Specifications

The loudspeaker system shall be of the ceiling Duplex type consisting of a single highfrequency compression driver coaxially mounted to a single 305-mm (12-in.) high-power woofer using a 90° x 90° coverage pattern horn. The system shall be

925-8B 925-32T Duplex® Ceiling Loudspeaker System



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capable of using an optional transformer if so desired. The loudspeaker system shall meet the following performance criteria: Power handling shall be capable of a 250 watt shaped pink-noise signal with a 6-dB crest factor. Frequency response shall be smooth and uniformly usable from 60 Hz to 20 KHz. Pressure sensitivity shall be 97 dB SPL when measured at one meter on axis with one watt of pink noise. The loudspeaker system shall weigh 9.5 kg (21 lb).

The loudspeaker system shall be the **925-8B** with no transformer.

Specifications:

Frequency Response (see Figure 1):	60-20 KHz
Pressure Sensitivity, 60-20 KHz:	97 dB SPL
Beamwidth,	
Horizontal, 500-20 KHz:	90° (+15°, -40°)
Vertical, 500-20 KHz:	90° (+15°, -40°)
Directivity Factor, $R_b(Q)$, 500-20 KHz:	9.1 (+7.7, -4.8)
Directivity Index, D_i , 500-20 KHz:	9.6 dB (+2.7 dB, -3.3 dB)
Power Handling:	250 watts
Maximum Long-Term Output:	120 dB SPL
LF (60-20 KHz, 250 watts input):	
Impedance:	
Minimum:	7.0 ohms
Nominal:	8.0 ohms
Components,	
LF:	305-mm (12-in.), high efficiency woofer
Thiele-Small LF Driver Parameters	
f_s (free-air resonance frequency):	53 Hz
Q_{Es} (electromagnetic Q at f_s):	0.219
Q_{ms} (mechanical Q at f_s):	4.03
Q_{ts} (total Q at f_s):	0.208

V_{as} (Volume of air having same acoustic compliance as driver suspension):	60.0 liters (2.12 ft ³)
η_0 (half-space reference efficiency):	4.12%
V_0 (peak displacement volume of diaphragm: $\frac{D}{2} \times X_{max}$):	1.04 liters (0.036 ft ³)
S_d (effective diaphragm area):	0.05 m ² (78 in. ²)
X_{max} (peak linear displacement of diaphragm):	4.06 mm (0.16 in.)
R_{es} (dc resistance of voice coil):	6.0 ohms $\pm 10\%$
HF:	25.4-mm (1-in.) exit high-frequency driver

Input Terminals:	
Dual 0.205-series spade terminals	
Replacement LF:	812-2874
Replacement HF:	833-990
Dimensions:	
Diameter:	311 mm (12.23 in.)
Depth:	243 mm (9.6 in.)
Net Weight:	9.5 kg (21 lb)
Shipping Weight:	12.2 kg (26.9 lb)
Finish:	Black enamel

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12000 Portard Ave South, Burnsville, MN 55337, Phone: 952-884-4051 FAX: 952-884-0043

Canada
705 Progress Avenue, Unit 46, Scarborough, Ontario, Canada, M1H2X1 Phone: 416-431-4975, 800-881-1895, FAX: 416-431-4588

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France
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Unit 23, Block C, Strath Business Park, Strath Avenue, Strathmore, N.S.W. 2128, Australia, Phone: 6172-2848-3425, FAX: 6172-2848-5565

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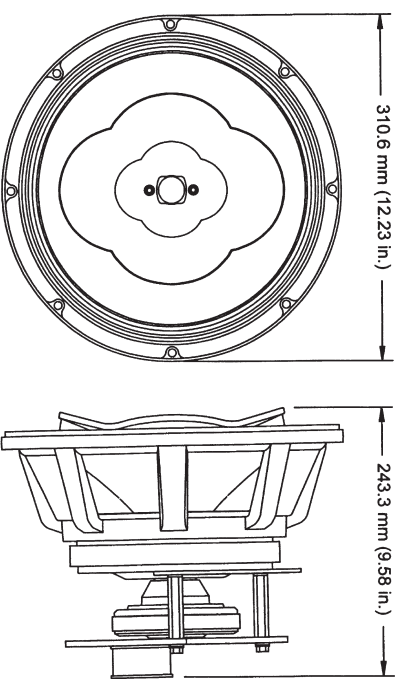
U.S.A. and Canada only,
For customer orders, contact the Customer Service
department at

800/392-3497 Fax: 800/955-8831

Repair department at 888/78 AUDIO

For technical assistance, contact Technical Support at 888/78 AUDIO
Please refer to the Engineering Data Sheet for warranty information.
Specifications subject to change without notice.

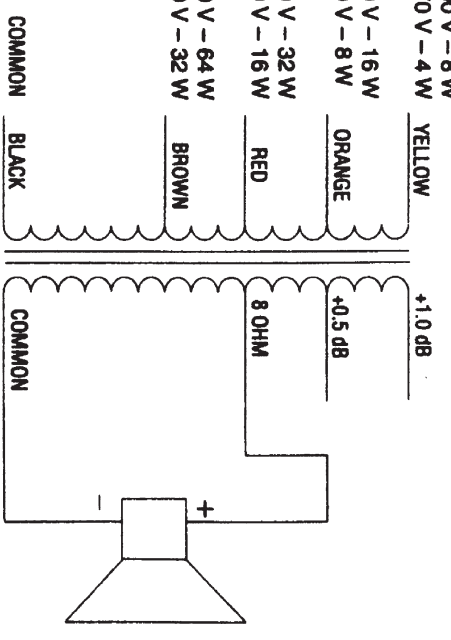
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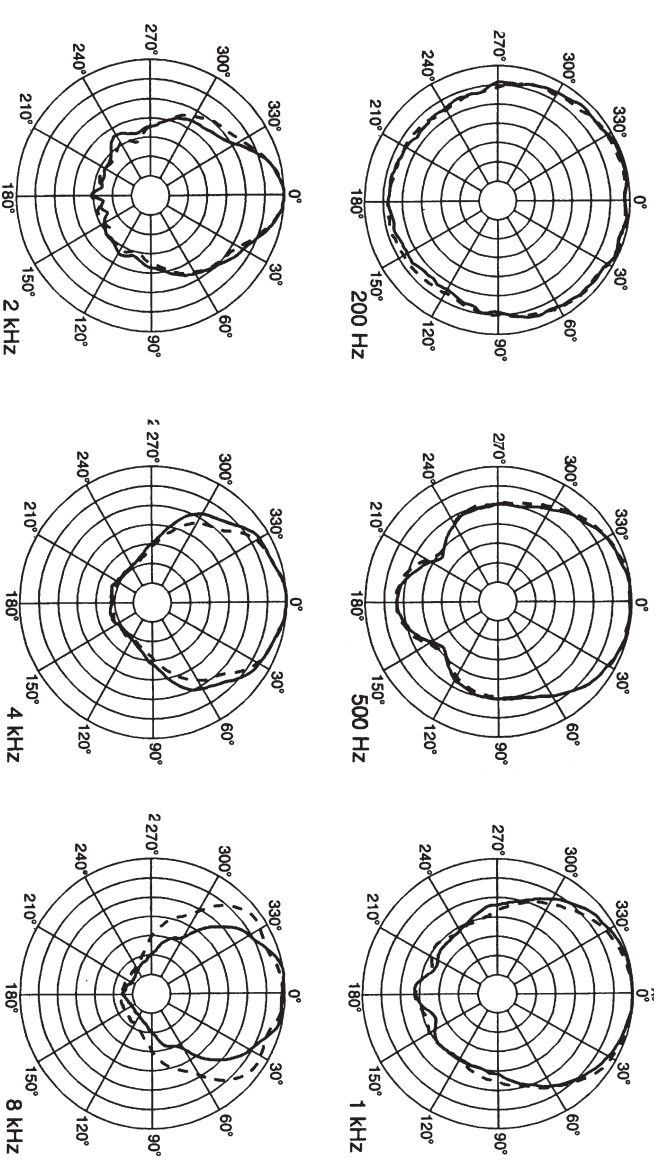
Dimensions

15732

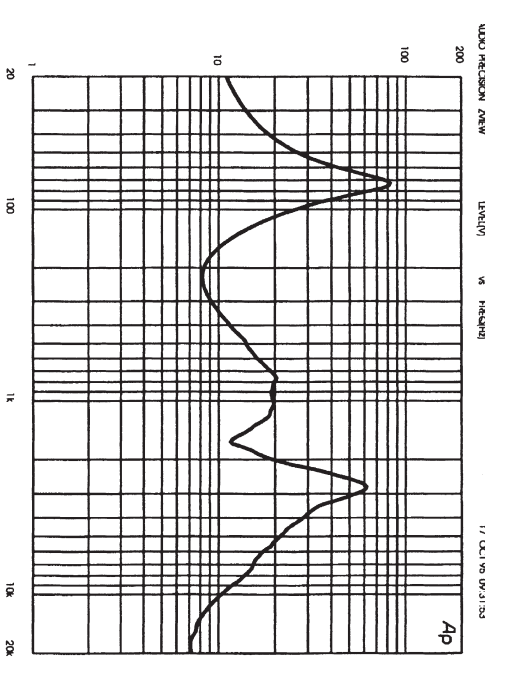
- 100 V - 8 W
- 70 V - 4 W
- 100 V - 16 W
- 70 V - 8 W
- 100 V - 32 W
- 70 V - 16 W
- 100 V - 64 W
- 70 V - 32 W



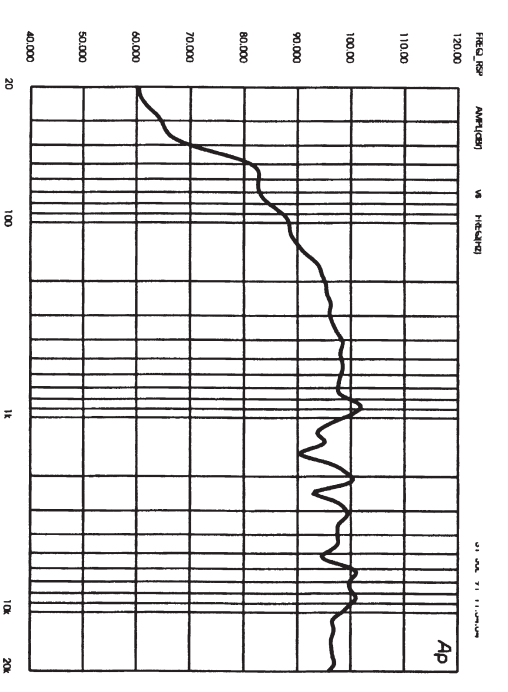
Wiring Diagram



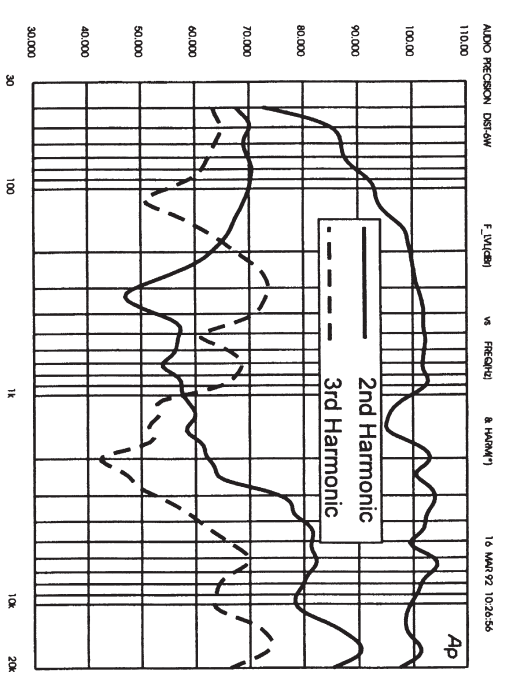
Polar Response Charts



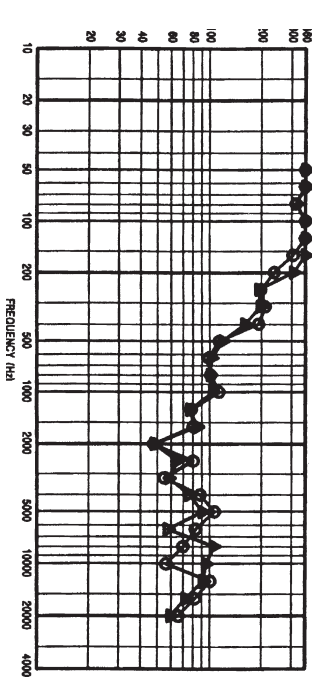
925-8B Impedance (log scale)



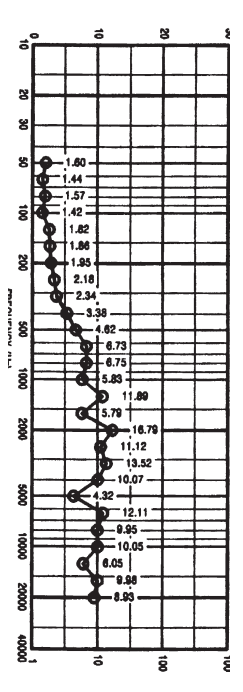
925-8B Frequency Response
(On axis, 1 watt/1 meter, anechoic environment)



925-8B Harmonic Distortion
at 0.1 rated power (25W_R)



925-8B Beamwidth



925-8B Directivity