PRO-formance Loudspeaker System

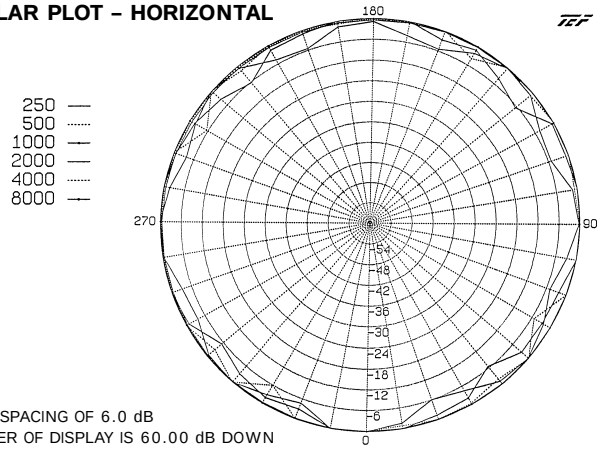
for Full-Range Wide-Angle Coverage

575 Series

- Compact high PRO-formance Loudspeaker System for concentric projection of voice and foreground / background music.
- Excellent power linearity for digitally processed material.
- 75 watts RMS, 150 watts peak power handling.
- Uniform horizontal and vertical dispersion.
- Acoustically matched and balanced:
  .... Low frequency driver and ported enclosure computer matched for full undistorted bass.
  .... High frequency drivers and extended range main driver response matched for balanced tonal performance.
- Lightweight, durable fiberglass / resin cabinet with paintable mar resistant finish.
- Easily suspended or surface mounted using standard fasteners and specially designed kits.
- Mechanical safety features:
  .... Reusable self-locking mounting bolts prevent loosening due to vibration.
  .... Redundant safety cable attachment point to independently secure cabinet and low frequency driver where required by codes.
- Integral special design low loss transformer and power tap selector switch for 25 / 70V line and 8 ohm input.
- Also available 8 ohm only model 575-8W by special order.

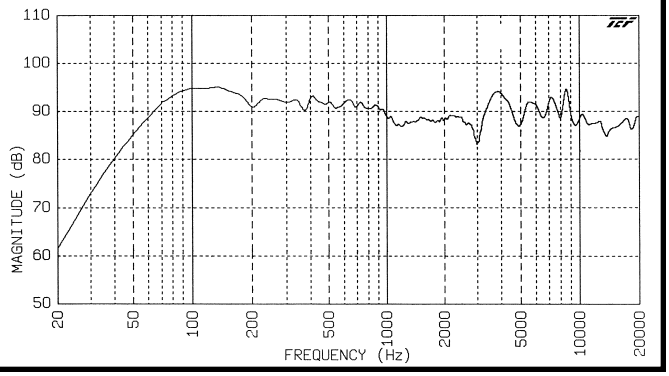
Model 575-TW — 25 & 70 Volt

POLAR PLOT – HORIZONTAL

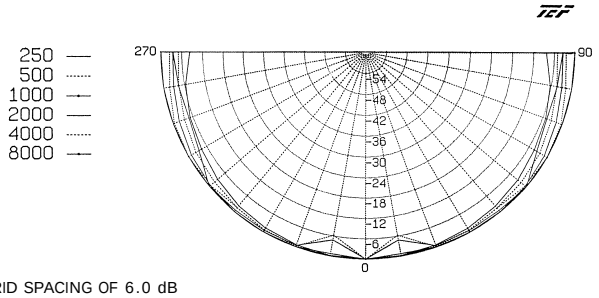


GRID SPACING OF 6.0 dB
CENTER OF DISPLAY IS 60.00 dB DOWN

RESPONSE CURVE



POLAR PLOT – VERTICAL



GRID SPACING OF 6.0 dB
CENTER OF DISPLAY IS 60.00 dB DOWN

Fourjay Quality—American Made

FOURJAY SINCE 1956
INDUSTRIES, INC.

3400 STOP EIGHT ROAD • P.O. BOX 13617 • DAYTON, OH 45413-0617
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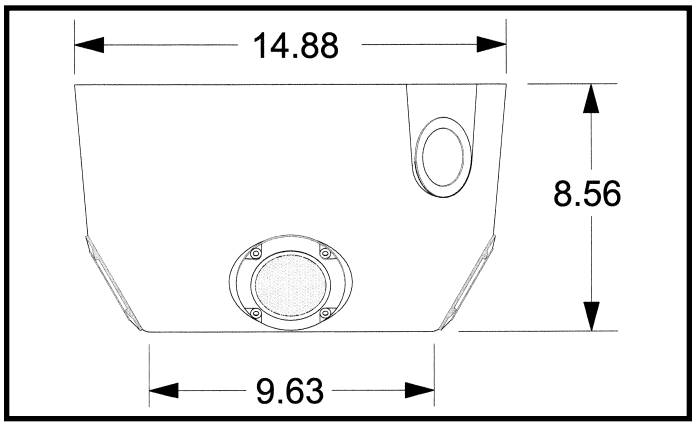
Form 380-02

PRO-formance Loudspeaker System — 575 Series

IN STOCK — **IMMEDIATE SHIPMENT**



PHYSICAL SPECIFICATIONS

Cabinet: LPMC fiberglass / resin with mar resistant low gloss finish. (Paintable)

Color: White cabinet, black driver grilles.

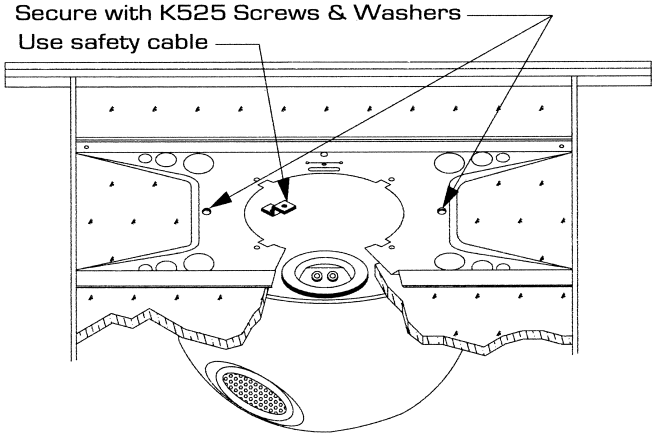
Drivers: (1) 8″ LF driver with 20 oz. magnet, 1.5″ high temp coil, carbon filled poly cone and high excursion controlled linearity suspension.
(4) 3.75″ low distortion cone type piezo HF drivers.

Wiring: All metal dual 5-way binding post terminals, accepts up to 10 gage cable.

Mounting: Four integral 1/4-20 T-nuts for balanced 3-point suspension or 2-point bracket or ceiling grid bridge mount. (4) reusable self-locking 1/4-20 x 1-1/4 phillips head bolts furnished (installed).

Safety: Mounting bolts are grade 2 plated steel with a vibration resistant thread coating. Dedicated bracket secures cabinet and bass driver shock cord for connection to a safety cable, recommended for all installations, required by some codes.

575 in Ceiling with PB8 Bridge



MODEL K525 – Screws & Washers

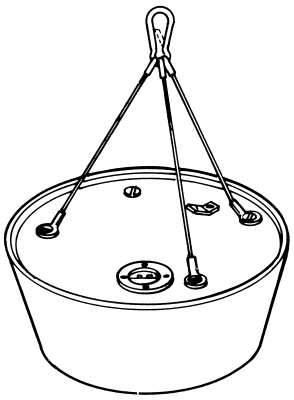
TECHNICAL SPECIFICATIONS

- **Power Handling:** 75 watts continuous duty.
- **Frequency Response:** 50 Hz-20 kHz (±6 dB)
- **Sound Pressure Level (1 Meter):**
  - 1 watt, 500-5000 Hz averaged, 90 dB
  - 75 watts, 500-5000 Hz averaged, 108.5 dB
- **Dispersion:**
  - Vertical, ±6 dB; 180° included angle
  - Horizontal, ±6 dB; 360°
- **Port Resonance:** 60 Hz typical
- **System Q:** 1.0 typical

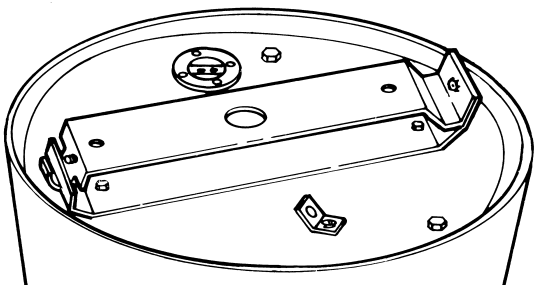
MODEL NO.	RATED INPUT	INPUT TAPS		WT. (lbs.)
		WATTS	OHMS (±10%)	
575-TW	25 V line	75, 38 19, 9	8, 16 33, 67	17
	70.7 V line	75, 38 19, 9	67, 132 263, 526	

- Also available 8 ohm only model 575-8W by special order.

MOUNTING KITS



MODEL K5H – Suspension Harness



MODEL K5SM – Surface Mount Bracket

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575 Series Installation Notes

This guideline has been developed by Fourjay to assist in planning the installation of multiple 575 Series wide-angle coverage speakers. With a few basic measurements, one can create a cost effective full-range music or paging system with excellent coverage.

PLACEMENT

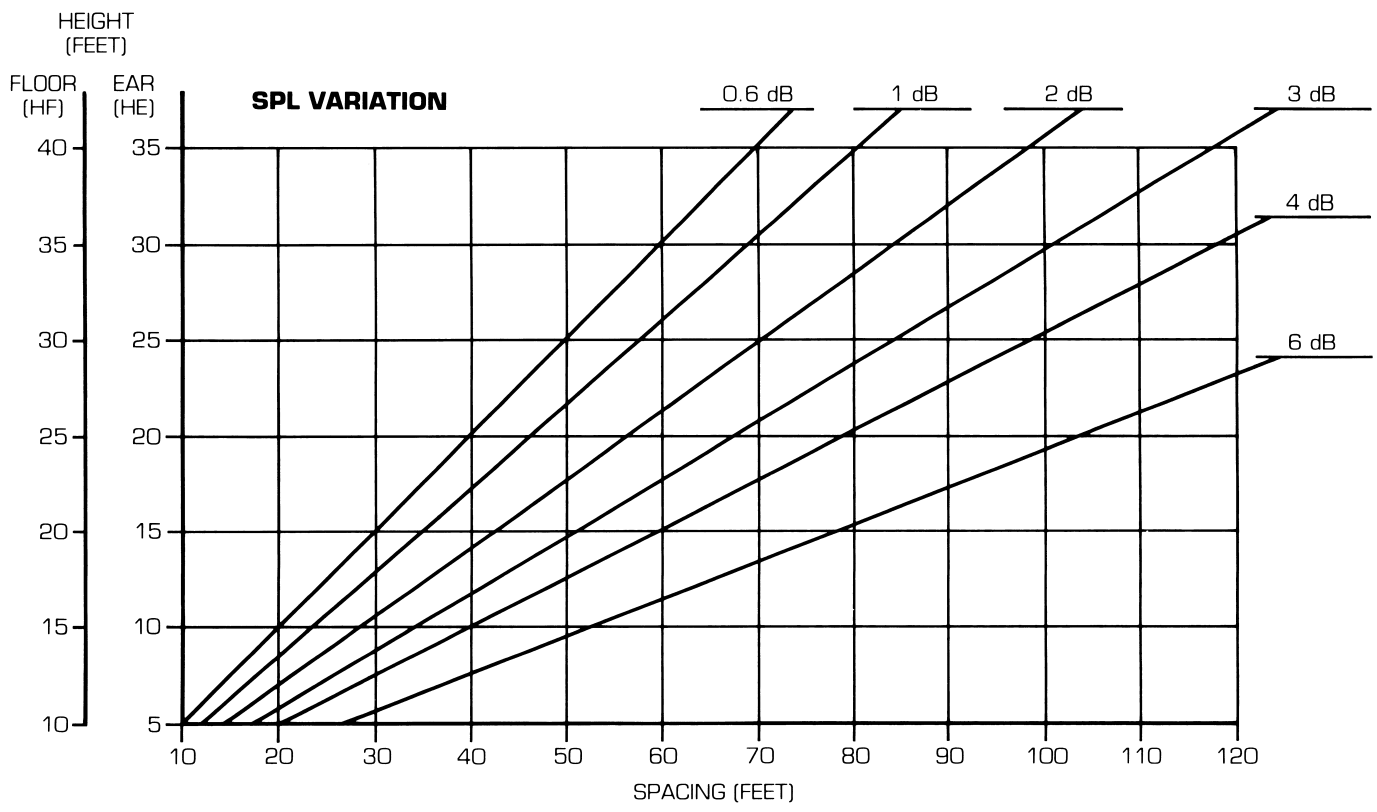
Graph A presents sound pressure level (SPL) variation in the coverage area as a function of Spacing to Height. Speakers may be in a straight line or a square pattern (2x2, 2x3, 3x3, etc).

A: Height (HF)

- Graph A has two speaker height scales:
  HF – Physical reference to floor
  HE – Acoustic distance to ear level
- Determine height of mounting positions above floor.
- Subtract one foot for size of mounted device.
- This yields a basic height dimension (HF).

B: Spacing (S)

- Locate height (HF) column on Graph A.
- Select appropriate SPL variation line according to project requirements.
- Where HF and SPL intersect, find spacing on bottom scale.
- If placement is restricted by building structure or other factors that compromise a planned layout; determine what positions are possible and use Graph A to find expected SPL variation.



GRAPH A – SOUND PRESSURE LEVEL (SPL) VARIATION AS A FUNCTION OF SPACING VERSUS HEIGHT FOR MULTIPLE 575 SERIES SPEAKERS.

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575 Series Installation Notes

SPL VARIATION:

This is the total sound pressure level variation that may be experienced as a listener moves anywhere in the field covered by the system pattern.

An undetectable 0.6 dB variation would be great for high intensity music.

A variation of 1 to 2 dB would maintain a reasonable uniform program level. Fewer speakers are needed and music coverage will be very good.

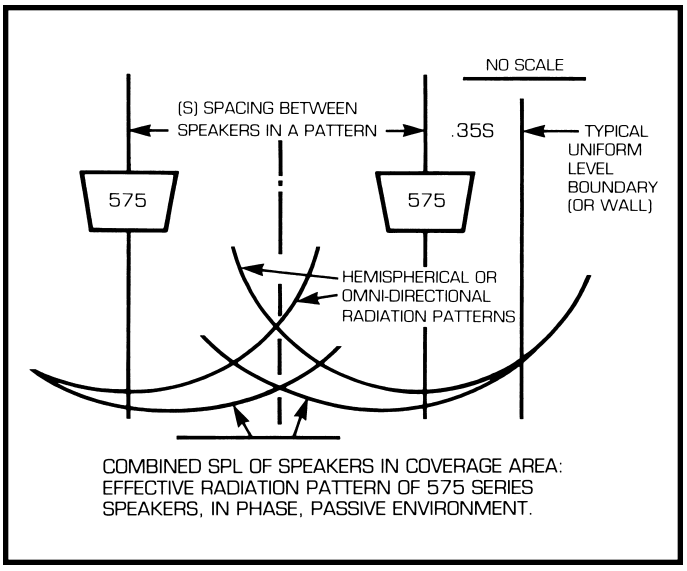
Spacing speakers for 3 dB variation will reduce cost and still provide good coverage for music and paging though program sound level will be less uniform.

An SPL variation of 6 dB would be noticeable, yet may be adequate for background music and paging.

COVERAGE:

SPL in the coverage area is a function of all 575 speakers operating in the immediate field. When a listener moves out of the coverage area, SPL will vary according to distance (Inverse-Square Law) and hemispheric radiation of the closest speaker.

To maintain planned coverage, locate speakers about 0.35S from adjacent walls (S being the spacing between speakers). A single line of speakers will provide essentially uniform coverage where room width is about 0.7S.



COMBINED SPL OF SPEAKERS IN COVERAGE AREA: EFFECTIVE RADIATION PATTERN OF 575 SERIES SPEAKERS, IN PHASE, PASSIVE ENVIRONMENT.

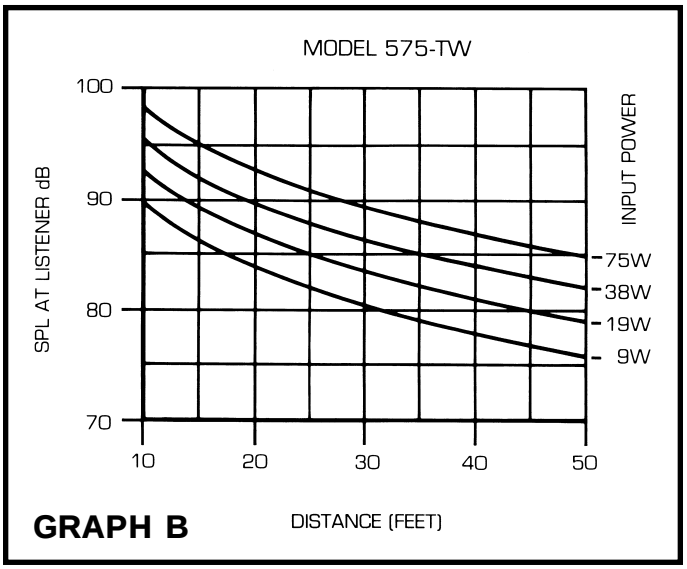
SOUND LEVEL AND POWER:

A: Total SPL requirement in dB:

- Measure or estimate ambient noise.
- To that noise level figure add —
  + 10 dB for intelligibility.
  + SPL variation from Graph A.
  + Desired headroom in dB.
  + Line loss estimate in dB.

B: With Graph B, determine input power for each Model 575 using SPL from above Step A and height (HE) as the distance.

C: Add speaker power levels to determine the minimum amplifier power needed for full coverage and intelligibility.



GRAPH B

In Stock

...Immediate Shipment