

(540) 427-3505

S-540 LAY-IN CEILING SPEAKER

INTRODUCTION

The S-540 Lay-In Ceiling Speaker is designed to easily install into standard T-Bar suspended ceilings by replacing 1/2 of a 2' x 2' ceiling tile. The 1' x 2' perforated grille provides increased sound dispersion over conventional round speaker grilles and blends into the ceiling by providing the appearance of a standard air return.

The speaker assembly features a perforated steel grille, finished with a durable white epoxy powder paint and an 8 inch full-range speaker with a transformer that operates on 25 and 70 volt speaker lines. A 24" T-Bar is included to cover the area where the speaker assembly and ceiling tile meet.



Environment

Temperature 0 to 50 Deg. C (32 to 122 Deg. F)
Humidity 0 to 85% non-precipitating

SPECIFICATIONS

Features

- Combination 25/70V Transformer
- White perforated steel grille (housing constructed from 24 gauge material) finished with white epoxy powder paint
- 8" (20.32cm) speaker

Dimensions

24"(61 cm) L x 12"(30.5 cm) W

Technical Specifications

Power Rating 5 Watts Continuous
SPL at 1 meter w/1 watt input 100 dB
Transformer Taps (Watts) 5, 2.5, 1.25, .625, .312
Line Voltage 25 or 70V
Voice Coil 8 ohm, .75" (1.9 cm) dia.
Magnet Weight 5 oz.
Magnet Material Ceramic

Transformer Tap Color Code

25 Volt Line		70.7 Volt Line	
Color	Desig.	Color	Desig.
BLK	Common	BLK	Common
BRN	5W	GRN	5W
RED	2.5W	WHT	2.5W
ORN	1.25W	BLU	1.25W
GRN	0.625W	GRY	0.625W
WHT	0.312W	VIO	0.312W

Coverage

The area covered by the S-540 ceiling speaker is determined by the height of the ceiling. If the ceiling height is 8', the speaker will cover 250 sq.ft. With a ceiling height of 9 to 15 feet, the speaker will cover 400 sq.ft. If the ceiling is 16 to 35 feet high, the speaker will cover 850 sq.ft.

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MOUNTING

When mounting in a 2' x 2' tile ceiling, cut ceiling tile in half. Make connections and lay speaker on ceiling grid. Slide T-Bar under edge of speaker. Drop half of cut tile next to speaker.

TECHNICAL ASSISTANCE

When trouble is reported, verify the unit is turned on and there are no broken connections leading to this unit.

Assistance in troubleshooting is available from the factory. When calling, you should have a VOM available and be calling from the job site. Call 1-540-427-3505 and ask for an Applications Engineer.

CLARITY equipment is not field repairable. CLARITY maintains service facilities in Roanoke, VA. Should repairs be necessary, please call Clarity at 1-540-427-3505 for a Return Authorization Number.

LIMITED WARRANTY

Clarity warrants its products to be free from defects in materials and workmanship under conditions of normal use and service for a period of one year from the date of shipment. The obligation under this warranty shall be limited to the replacement, repair or refund of any such defective device within the warranty period, provided that:

1. Inspection by Clarity indicates the validity of the claim;
2. The defect is not the result of damage, misuse, or negligence after the original shipment;
3. The product has not been in any way repaired by others and that factory sealed units are unopened (A service charge plus parts and labor will be applied to units defaced or physically damaged);
4. Freight charges for the return of products to Clarity are prepaid,
5. All units but of warranty are subject to a service charge. The service charge will cover minor repairs (Major repairs will be subject to additional charges for parts and labor).

This warranty is in lieu of and excludes all other warranties, expressed or implied, and in no event shall Clarity be liable for any anticipated profits, consequential damages, loss of time or other losses incurred by the buyer in connection with the purchase, operation, or use of the product.

This warranty specifically excludes damage incurred in shipment. In the event a product is received in damaged condition, the carrier should be notified immediately. Claims for such damage should be filed with the carrier involved in accordance with the F.O.B. point.