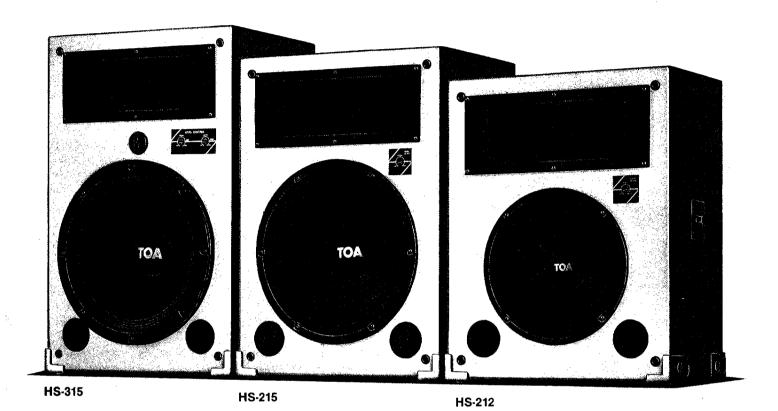
HS-315/215/212



GENERAL DESCRIPTION

The Toa HS series is made up of indoor speaker systems capable of being suspended from the ceiling or placed on the floor. A base-reflex type enclosure houses a 15" heavy-duty cone woofer, constant directivity horn and exponential horn tweeter on the 3-way HS-315, a 15" cone woofer and constant directivity horn on the 2-way HS-215, and a 12" cone woofer and constant directivity horn on the 2-way HS-212. The constant directivity horn is connected to a high-efficiency compression driver and ensures a uniform dispersion pattern of 90 degrees horizontal and 40 degrees vertical. These systems will handle 120 watts RMS of continuous pink noise and 360 watts of continuous program material.

Rear-mounted screw input terminals allow full-range or bi-amp operation of each system. High frequency (mid and high frequency for the HS-315) level controls are provided on the front of the enclosure for the added convenience of level adjustment. Hardware for a mounting bracket for ceiling suspension is provided on both sides of each system enclosure. Protective corners prevent damage to the enclosure when the system is placed on a hard floor the enclosure is finished in pale beige for repainting if required. The charcoal brown front grille is removable.

FEATURES

- 1. Three-way vented system (HS-215/212 two-way).
- 2. Extended smooth frequency response.
- High power capacity of 120 RMS watts continuous pink noise and 360 watts continuous program material.
- HS-315: 15" (38cm) heavy duty cone woofer; HS-215: 15" (38cm) cone woofer; HS-212: 12" (30cm) cone woofer.
- Constant directivity horn coupled with high-efficiency compression driver gives coverage of 90 degrees horizontal by 40 degrees vertical.
- 6. Exponential horn tweeter on HS-315.
- Mid and high frequency level controls on HS-315 and high frequency level controls on HS-215/212 are located on front of enclosure for added convenience.
- Screw type input terminals for full-range and bi-amp operation.
- Ceiling suspension hardware provided on both sides of enclosure.
- Protective enclosure bottom corners for prevention of damage to enclosure when placed on a hard floor.
- 11. Removable front grille.



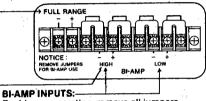
SPECIFICATIONS

MODEL NO.	HS-315	HS-215	HS-212
Enclosure	Vented (bass reflex) type	Vented (bass reflex) type	Vented (bass reflex) type
Speakers	Low: 15" Woofer Mid: CD horn plus compression driver High: Horn tweeter	Low: 15" Woofer High: CD horn plus compression driver	Low: 12" Woofer High: CD horn plus compression driver
Power Handling Capacity Continuous Pink Noise	120 watts RMS of band-limited pink noise (50Hz ~ 20 kHz) 360 watts	120 watts RMS of band-limited pink noise (50Hz ~ 20 kHz) 360 watts	120 watts RMS of band-limited pink noise (50Hz - 20 kHz) 360 watts
Continuous Program		8 ohms	8 ohms
Impedance	8 ohms		100 dB (1 W/1 m)
Sensitivity	100 dB (1 W/1 m)	100 dB (1 W/1 m)	the state of the s
Frequency Response	50Hz ~ 20 kHz	50Hz ~ 15 kHz	55Hz~15 kHz
Crossover Frequency	1 kHz, 8kHz	1 kHz	1 kHz
Level Control	Mid and high frequency 0~ - 10 dB	High Frequency 0~ − 10 dB	High Frequency 0~ - 10 dB
Input Terminals	Screw type for a fullrange and bi-amp operation	Screw type for a fullrange and bi-amp operation	Screw type for a fullrange and bi-amp operation
Finish	Beige lacquer (enclosure), charcoal brawn jersey (grille)	Beige lacquer (enclosure), charcoal brawn jersey (grille)	Beige lacquer (enclosure), charcoal brawn jersey (grille)
Dimensions	29.9(H) × 19.9(W) × 16.1(D) inches 759(H) × 506(W) × 409(D)mm	27.1(H) × 19.9(W) × 16.5(D) inches 689(H) × 506(W) × 419(D)mm	24,4(H) × 19.9(W) × 13.9(D) inches 619(H) × 506(W) × 354(D)mm
Welght	77.2 lbs (35 kg)	59.5 lbs (27 kg)	52.9 lbs (24 kg)

*Specifications are subject to change without notice.

CONNECTION

FULL RANGE INPUT: For full-range operation, connect amp output to these terminals.

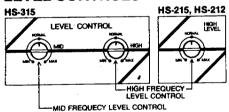


For bi-amp operation, remove all jumpers (shorting bars). Connect low frequency amp output to "LOW" and high frequency amp output to "HiGH" (MID & HIGH" on the HS-315).

'MID & HIGH on the HS-315"

"HIGH" or "MID & HIGH" TERMINALS: These terminals are directly connected to a driver unit in both the HS-215 and HS-212. In the HS-315, they are connected to the driver via an 8Hz crossover network, -3dB fixed pad and MID attenuator, and also to the tweeter via an 8Hz crossover network and HIGH attenuator.

LEVEL CONTROLS



For full-range operation, an almost flat frequency response may be obtained by setting both controls to NORMAL. For bi-amp operation, set both controls to MAX.

HS-215, HS-212

For full-range operation, an almost flat frequency response may be obtained by setting the control to NORMAL. The control does not work during bi-amp operation because an amplifier is directly connected to the driver.

CHARACTERISTIC DIAGRAMS (1/3 Octave Pink Noise)

