



4671



4673



4670A



4675

# SOUND REINFORCEMENT/THEATER SYSTEMS

## Direct-Radiator Low Frequency Systems

Systems with direct radiator low frequency sections provide the flattest possible response to the lowest usable octave. These systems, while less efficient than the traditional horn-loaded low frequency designs, will require less equalization and will provide the smoothest response throughout the entire listening environment.

**4670A** The 4670A offers outstanding performance in a very compact package. The specially designed slim profile enclosure is perfectly matched with two 380 mm (15 in) low frequency loudspeakers, an externally mounted compression driver, and a flat-front Bi-Radial\* horn. The result is a system that delivers wide bandwidth, high efficiency, wide horizontal dispersion, and excellent dynamic range.

**4671** The 4671 is ideally suited for use in smaller halls, due to its compact size. A two-way direct radiator system, the 4671 offers smooth frequency response to the lowest octaves, uniform coverage, and natural, uncolored sound quality. System components, housed in an optimally tuned enclosure, include the 2225H 380 mm (15 in) low frequency loudspeaker, the 2425J high frequency compression driver, the 2370 flat-front Bi-Radial\* horn, and the 3110A frequency dividing network.

**4673** Designed for the medium-sized hall, the direct radiator 4673 system delivers smooth, deep and accurate full range sound reproduction with uniform coverage. The low frequency loudspeaker is identical to that of the 4671. It is complemented, however, by the larger, externally mounted, 2445J compression driver and 2380 flat-front Bi-Radial\* horn. The 4673 is perfectly suited for those applications that require high acoustic output from a moderately-sized system.

**4675** The 4675 provides smooth, clean sound with uniform coverage throughout the listening area. It consists of a powerful direct radiator low frequency enclosure (a 4508 cabinet with two 380 mm (15 in) 2225J low frequency loudspeakers) and an externally mounted 2360 Bi-Radial\* constant coverage horn and 2445J compression driver. This design results in more uniform frequency response throughout the entire operating frequency range, constant directivity and uniform coverage within the included angle, a significant improvement in output capability, and a corresponding reduction in distortion. The addition of the 500 Hz crossover enables the 4675 system to avoid low frequency beaming effects. Delivering extremely high sound pressure levels throughout even the largest halls, the 4675 system is recommended when the ultimate in sound reproduction is required.

\*U.S. Patent #4,308,932. Foreign patents pending.

### Specifications Direct Radiator Systems

Model	Frequency Range	Power Capacity		Sensitivity 1W, 1 m (3.3 ft)	Crossover Frequency <sup>2</sup>	Horizontal Beamwidth	Nominal Impedance	Exterior Dimensions (Height x Width x Depth)	Net Weight
		(Continuous Pink Noise) <sup>1</sup>	(Continuous Program)						
4670A	35 Hz-20 kHz	300 W	600 W	100 dB SPL	500 Hz	90°	8 Ω	1289 mm x 673 mm x 438 mm 50 3/8 in x 26 1/2 in x 17 1/4 in	92 kg 203 lb
4671	40 Hz-20 kHz	150 W	300 W	97 dB SPL	800 Hz	90°	8 Ω	546 mm x 948 mm x 448 mm 21 1/2 in x 37 3/8 in x 17 3/8 in	39 kg 85 lb
4673	40 Hz-20 kHz	150 W	300 W	97 dB SPL	500 Hz	90°	8 Ω	546 mm x 1054 mm x 448 mm 21 1/2 in x 41 1/2 in x 17 3/8 in	50 kg 110 lb
4675	35 Hz-20 kHz	300 W	600 W	100 dB SPL	500 Hz	90°	8 Ω	1797 mm x 770 mm x 949 mm 70 3/4 in x 30 3/8 in x 37 3/8 in	98 kg 215 lb

### Components Direct Radiator Systems

Model	Low Frequency Drivers	High Frequency Drivers	High Frequency Horn	Frequency Dividing Network <sup>2</sup>	Accessories	Enclosure
4670A	2225J (2)	2445J (1)	2380 (1)	3152A	—	4508 (1)
4671	2225H (1)	2425J (1)	2370 (1)	3110A	—	4507 (1)
4673	2225H (1)	2445J (1)	2380 (1)	3115A	—	4507 (1)
4675	2225J (2)	2445J (1)	2360 (1)	3152A	2506 (1)	4508 (1)

1. Rating based on test signal of filtered random noise conforming to international standard IEC 268-5 (pink noise with 12 dB per octave rolloff below 40 Hz and above 5,000 Hz with a peak-to-average ratio of 6 dB), two hours duration.

2. Due to standard motion picture industry recommendations, theater systems with large compression drivers are specified with 500 Hz crossovers. For high-power sound reinforcement applications, bi-amplification at 800 Hz is recommended.