



# 4670D Cinema Loudspeaker System

Professional Series

## Key Features:

- ▶ Frequency Range: 34 Hz to 20 kHz
- ▶ Sensitivity: 100 dB 1 watt, 1 meter (3.3 ft)
- ▶ Power Capacity: 600 watt continuous IEC pink noise
- ▶ Components:
  - Dual 380 mm (15 in) low frequency loudspeakers
  - 100 mm (4 in) compression driver
  - 90° x 40° Constant-Coverage Bi-Radial<sup>®</sup> horn
- ▶ Selectable crossover adjustment for the proper alignment for 2380 series Bi-Radial<sup>®</sup> horns
- ▶ Simple field assembly reduces labor costs

The JBL 4670D provides powerful, smooth and accurate reproduction of cinema soundtracks from a compact and cost effective system. The system is comprised of two parts: the 4670D-HF high frequency pack and the 4638TH low frequency system.

The 4670D-HF high frequency pack features the JBL 2446H, 100 mm (4 in) diaphragm compression driver, JBL 2380A Bi-Radial<sup>®</sup> horn and JBL 2509 adjustable bracket. Together, these elements provide clear, accurate reproduction of the mid/high frequency information. All of these components come pre-assembled to reduce field assembly time thus reducing installation costs.

The 4638TH employs the latest in JBL low frequency transducer technology offering exceptional performance benefits. The JBL 2035H 380 mm (15 in) transducer employs a copper-sleeved magnetic pole piece providing a stabilized magnetic field which provides lower 2nd and 3rd order harmonic distortion and flat power response. The copper-sleeved pole piece reduces flux modulation and acts as a shorted turn causing the impedance curve to flatten at higher frequencies. This helps in maintaining a smooth transition between the low and high frequency devices in the crossover region producing, among other things, accurate reproduction of dialog throughout the entire listening area.



## Specifications:

<b>SYSTEM ELEMENTS:</b>	
	1-JBL 4670D-HF
	1-JBL 4638TH
<b>SYSTEM SPECIFICATIONS:</b>	
Frequency range (-10 dB):	34 Hz - 20 kHz
Frequency response ( ± 3 dB):	40 Hz - 16 kHz
Power capacity:	600 W continuous pink noise
Sensitivity:	100 dB 1 W (2.83V) 1 m (3.3 ft)
Nominal impedance:	4 ohms
Crossover frequency:	800 Hz
Nominal coverage:	90° horizontal, 40° vertical
Half-space reference efficiency:	6.3%
Maximum continuous acoustical power output (sine wave input):	28 acoustic watts
System polarity:	Positive voltage to red terminal produces forward cone motion
Input connector:	Color-coded push terminals
High frequency output connector:	Color-coded push terminals
<b>4638TH LOW FREQUENCY SYSTEM:</b>	
	2-2035HPL 380 mm (15 in) low frequency transducers
	1-4508A low frequency enclosure
	1-N4638 network
Net system weight:	66.2 kg (146 lb)
Shipping weight:	68 kg (150 lb)
Dimensions:	991 mm x 648 mm x 451 mm
H x W x D	(39 in x 25½ in x 17¾ in)
<b>4670D-HF HIGH FREQUENCY SYSTEM:</b>	
	1-2380A Bi-Radial horn
	1-2446H High frequency driver
	1-2509B Adjustable bracket
Net system weight:	23.6 kg (52 lb)
Shipping weight:	26 kg (57 lb)
Dimensions:	336 mm x 445 mm x 279 mm
H x W x D	(13¼ in x 17 in x 11 in)

<sup>1</sup> Rating based on test signal of filtered random noise conforming to the international standard IEC 268-1 (pink noise with 12 dB per octave rolloff below 40 Hz and above 5000 Hz with a peak-to-average ratio of 6 dB), two hours duration

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The JBL 4638TH utilizes a new 600 watt IEC pink noise rated crossover which features Constant-Coverage horn equalization for both 2380A and 2360A Series Bi-Radial® horns. The enclosure is constructed of dense stock and is extensively braced on all panels reducing cabinet resonances. Net internal volume is 2251(8 cu ft) and the enclosure is tuned to 40 Hz with large port tubes, ensuring minimum turbulence at full power input at low frequencies.



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