JBL VT4880A

Ultra Long Excursion Dual 18" Subwoofer Line Array Element

VERTEC® Series

VERTEC® Series

Application:

The VT4880A Dual 18" Ultra Long Excursion Subwoofer Line Array Element is designed to deliver high fidelity sound reinforcement of sub-low frequencies for a wide variety of live music and A/V support applications. Typical uses include concert audio and multi-media presentations where extended low-frequency performance is desired.

Key Features:

▶ Advanced, Ultra Long Excursion Components: Differential Drive® Neodymium Magnet, Dual Voice Coil, Direct Cooled™ cone transducers

▶ Advanced Construction Techniques and PlyMax™ panels provide exceptionally rigid, lightweight enclosure

▶ Rugged DuraFlex™ exterior finish; weather-resistant components

▶ Integrated Suspension System: premium heat-treated alloys. Hingebars included.

The VT4880A is a versatile, centrally vented enclosure housing two 2269H 18" Ultra Long Excursion transducers. These advanced components are fitted with dual voice coils to provide a high ouput power-to-weight ratio.

This high-performance subwoofer offers extended low-frequency reproduction capabilities in the foundation octave at lowest audible frequencies. It offers benefits for both portable system users and performance-venue installations.

The enclosure features: foam-backed perforated steel grille; weather-resistant speaker cones; rigging frames and hinge bars made from premium-grade chromemoly alloy steel; plated hinge pins, stainless steel quick-release pin restraining lanyards; and protective end-caps which safeguard the rigging frames while allowing vertical stacking of multiple interlocking units.

VERTEC line array suspension systems are engineered for maximum support strength, and are flexible in design and application. The VT4880A's rigging hardware (same as in the full range VT4889) relies on quick-release pins and end-mounted metal frames to couple adjacent units together in rigid arrays. The enclosures can also be stacked vertically using the integral end-mounted scuff-resistant pads. These are keyed for aligning the end surfaces and preventing slippage.

Subwoofer Line Arrays:

The low-frequency capabilities of the multi-enclosure VT4880A array will be determined by the total number of units coupled. The directivity of a line array at any given frequency is proportional to the product of frequency and length of the array. The beamwidth will be inversely proportional to the product of the array's length and the frequency of interest, typically 20-80 Hz for subwoofer applications.

In summary, the more subwoofer elements that are used in the array the greater directivity will be at lower frequencies, enabling better pattern control. Because of line array summation, medium to large arrays can generate extreme amounts of sub-low frequency energy. (For more information refer to JBL Technical Note Vol. 1, No. 27)

Specifications:

System

Frequency Response (-3 dB):	29 Hz – 120 Hz
Frequency Range (-10 dB):	25 Hz – 160 Hz
Maximum Peak Output[1]:	142 dB SPL, 1m (2 π, half-space, gound-based application) 136 dB SPL, 1m (4 π, free-space, suspended application)
Recommended Bandpass:	26 Hz – 80 Hz
Input Power Rating:	4000 W (AES), 16,000 W Peak
Recommended Signal Processing:	dbx Drive Rack, BSS FDS-366, Crown I-tech and other Digital System Controllers supported

Transducers

Low Frequency:	Two 2269H, 460 mm (18 in) dia., 100 mm (4 in) Dual Coil, Differential Drive, Direct Cooled
Nominal Impedance:	8 Ohms each transducer
Sensitivity:	95 dB, 1 W, @ 1 m (35-120 Hz)
Transducer Power Sensitivity:	2000 W cont. / 8000W peak (AES) 1200 W cont. / 4800 W peak (100 hrs)

Enclosure

Box Construction:	Wedge frustrum 5 degree side angle enclosure including PlyMax™ wood composite panels, DuraFlex™ finish
Suspension System:	Rigid hardware, integral hinge bars nest in rigging frames on box ends. Quick release pins with restraining lanyards. Suspend with VT4889-AF or VT4889-SF Array Frame.
Grille:	Black perforated steel, Foam backed
Input Connectors:	Both NL8 and NL4, two each. Wired in parallel, speakers individually circuited.
Dimensions (H x W x D):	493 mm x 1229 mm x 860 mm (19.42 in x 48.38 in x 33.85 in)
Net Weight:	83.9 kg (185 lbs)
Shipping Weight:	92.5 kg (204 lbs)

VT4880A-ACC (Available Accessory Kit)

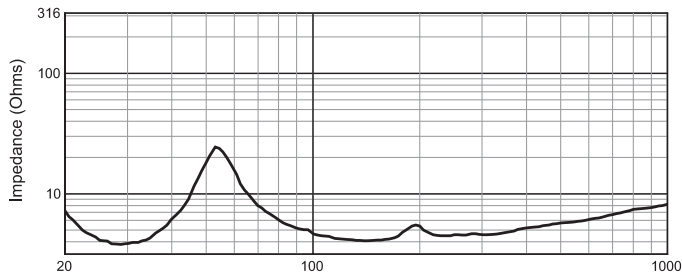|	
Contents:	(1) Dolly with heavy duty castors, (1) Rugged Soft Cover Padded Bag. Order Separately. Ships Separately.
Dimensions (H x W X D):	127 mm x 1346.2 mm x 609.6 mm (5 in x 53 in x 24 in)
Net Weight:	16.3 kg (36 lb)
Shipping Weight:	19.5 kg (43 lb)

[1] Calculated maximum SPL based on rated peak power and measured sensitivity

JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

► VT4880A Ultra Long Excursion Dual 18" Subwoofer Line Array Element
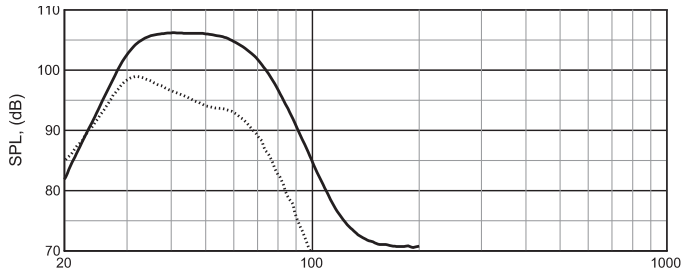
Frequency Response (solid line) of a single VT4880A with
Recommended Signal Processing (dashed line)


VT4880A Impedance

1229
(48.38)

860
(33.85)

493
(19.42)

346.2
(13.63)

**(H x W x D): 493 mm x 1229 mm x 860 mm
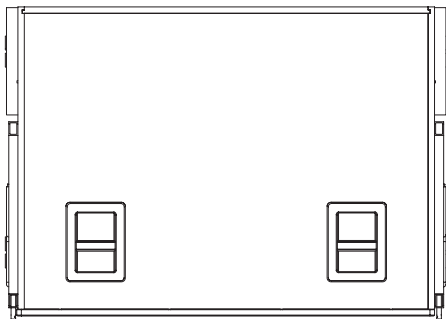(19.42 in x 48.38 in x 33.85 in)**

2269H Ultra Long Excursion 460 mm (18") Transducer

- Dual Neodymium Magnets
- Vented Gap Cooling™
- Ultra Robust Composite Cone
- Thermoset Composite Voice Coil Former
- Edge-wound Aluminum Voice Coils
- Heavy Suspension Elements for High Excursion and Extra Long Life
- 89 mm (3.5") Peak-to-Peak Maximum Excursion
- 2000W AES/8000W Peak Power Handling, each transducer

VT4880A-ACC

The VT4880A-ACC Accessory kit includes items necessary for the proper transport of the VT4880A. This accessories kit includes: (1) VT4880-DOLLY, & (1) VT4880A-COVER. *Important note:* the VT4880A-ACC is sold as a separate item. One VT4880A-ACC should be ordered with each VT4880A to ensure proper materials for the safe, reliable transport of each system in portable use.
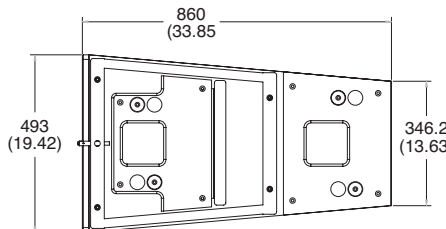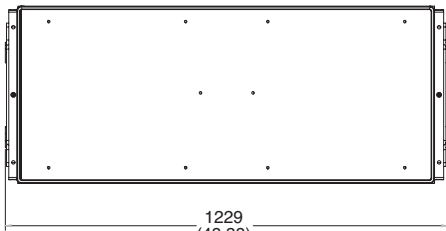
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