VT4881A Compact Single 18" Arrayable Subwoofer

VERTEC® Series

Application:

The VT4881A Compact 18" Arrayable Subwoofer is designed to deliver high quality sound reinforcement of VLF (Very Low Frequency) musical information for a variety of applications including concert audio and theatrical presentations of all types. Ideal companion to VT4887A or VT4887ADP compact three-way systems.

Key Features:

- New 2269H Ultra Long Excursion 460 mm (18") Neodymium magnet transducer with 2000 watts continuous (AES), 8000 watts peak power handling capacity for low weight and high output
- Advanced construction techniques using JBL PlyMax® engineered wood materials provide rigid, lightweight enclosure
- Rugged DuraFlex™ exterior finish; Weatherized components
- Integrated S.A.F.E™ suspension system: premium heat-treated alloys provide rigid, reliable hanging arrays designed for vertical orientation at various angles
- Pre-engineered to accept optional amplified electronics package. Rear-panel mechanical attachments and electrical connections ensure upgrade path for DrivePack™ self-powered system
- For ground-stacked or suspended applications in stand-alone arrays or in combination with other VERTEC system products

The VT4881A is a compact, lightweight vented subwoofer enclosure housing JBL's exclusive new 2269H Ultra Long Excursion 18" woofer. This woofer features neodymium magnet, dual voice coils, JBL's exclusive Vented Gap Cooling™ and ultra robust composite cone for high excursion and extra long life. Woofer is capable of a peak-to-peak maximum excursion of 89 mm (3.5") while system weight is only 111 pounds.

Enclosure features: foam-back perforated steel grille; speaker cone treated with weather-resistant compound; rigging tubes and hinge bars made from premium-grade alloy aluminum; plated hinge pins; stainless steel quick-release pin restraining lanyards; and inter-locking rubber feet which allow vertical stacking of multiple units, including reverse ground-stacking for cardioid subwoofer array applications if desired. VT4881A rigging hardware (same as in the companion VT4887A compact fullrange system) relies on quick-release pins and end-mounted metal frames to couple adjacent units together in rigid but flexible arrays.

Subwoofer Line Arrays:

The VT4881A can be oriented vertically in suspended arrays or it can be ground stacked in horizontal arrays. The low-frequency capabilities of the multi-enclosure VT4881A array will be determined by the total number of units coupled together. 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 Hz - 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.

Specifications:

Arrayable Subwoofer	
Frequency Range (-10 dB):	25 – 160 Hz
Frequency Response (+/- 3 dB):	34 – 125 Hz
Recommended Bandpass:	25 – 80 Hz
System Input Power Rating:	2000 W Continuous, 8000 W Peak (AES / 2 hour)
Maximum Peak Output[1]:	136 dB SPL, 1m (2π, half-space, ground-based application) 130 dB SPL, 1m (4π, free-space, suspended application)
Recommended Amplification:	2000 – 4000 W into 8 ohms
Recommended Signal Processing	dbx® 4800, Crown® I-Tech, BSS FDS-366T, and other Digital System Controllers supported
Transducers	
Low Frequency:	One 2269H, 460 mm (18 in) dia., 100 mm (4 in) Dual Coil, neodymium Differential Drive®, Direct Cooled™
Nominal Impedance:	8 ohms
System Sensitivity:	91 dB, 1W / 1m (2.83 Vrms at 3.3 ft)
Transducer Power Rating[2]:	2000 W Continuous, 8000 W Peak (AES / 2 hour) 1200 W Continuous, 4800 W Peak (100 hour)
Enclosure	
Box Construction:	Rectangular enclosure. PlyMax® engineered wood composite structure, DuraFlex™ finish, 6 handles
Suspension System:	S.A.F.E. hardware, integral hinge bars nest in rigging tubes on box ends. Quick release pins with restraining lanyards. Set of 4 hinge bars included. Suspend with VT4887-AF or VT4887-SF Array Frame.
Grille:	Black perforated steel, foam backed
Input Connectors:	Neutrik® Speakon® NL-8 and NL-4 (2x each) Pin 1+/- for VLF
Dimensions (W x H x D):	787 mm x 569 mm x 654 mm (31 in x 22.4 in x 25.8 in)
Net Weight:	50.4 kg (111 lb)
Shipping Weight:	59.9 kg (132 lb)

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

[2]AES Standard, one decade pink noise with 6 dB crest factor within device's operational band, free air. Standard AES 2 hr rating plus long term 100 hr rating are specified for cone transducers

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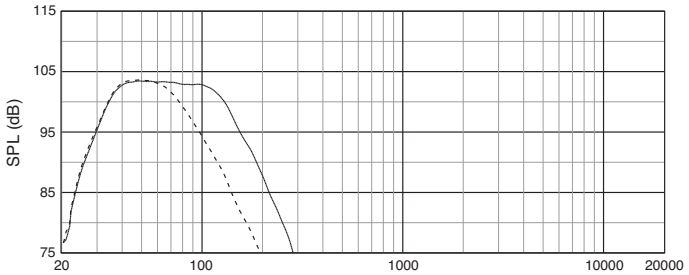
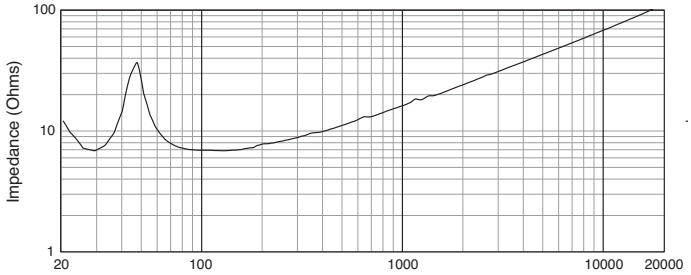
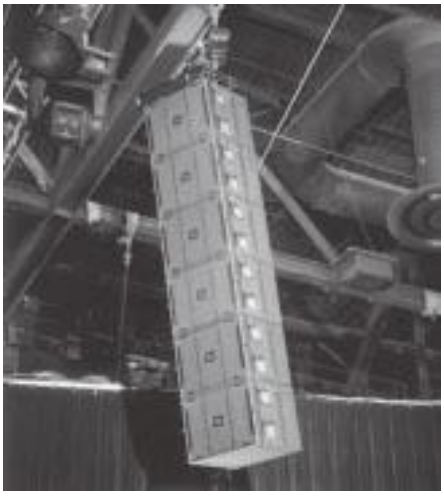


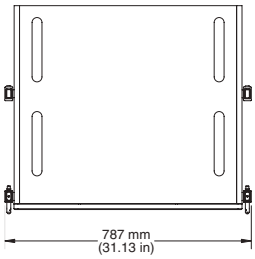
Frequency response of a single VT4881A with 120 Hz (solid line) and 80 Hz (dashed line) low pass filtering including recommended equalization

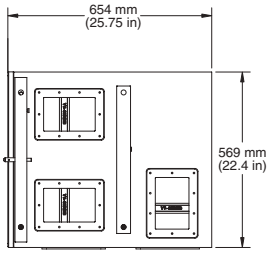


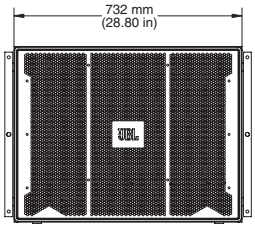
VT4881A Impedance



6-enclosure array, VT4881A, suspended application with VT4887-AF array frame







System Dimensions (WxHxD):
787 mm x 569 mm x 654 mm including attached suspension hardware

VT4881-ACC:

The VT4881-ACC includes items necessary for the proper transport and protection of the VT4881A. This accessory kit includes: (1) VT4881-DOLLY & (1) VT4881-COVER.

Important Note: VT4881-ACC is sold as a separate item. One kit should be ordered with each VT4881A to ensure safe and reliable transport of each system in portable use.

VERTEC® Series

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