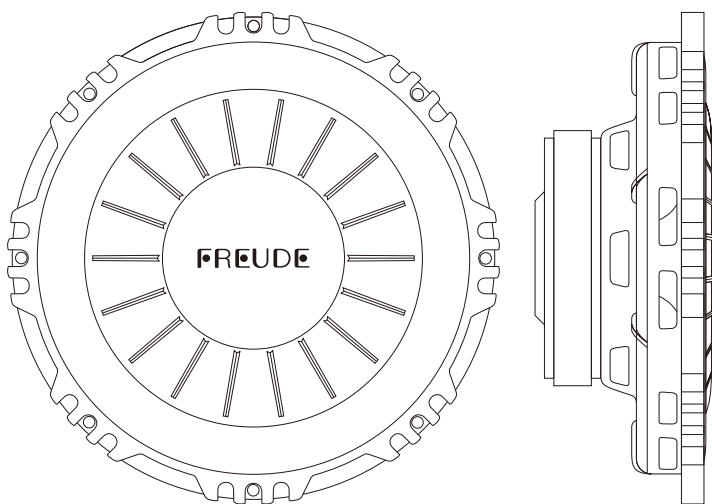


FREUDE

OWNER'S MANUAL



FW-25AS

10" SUBWOOFER

WARNING

PLEASE READ CAREFULLY BEFORE INSTALLING OR OPERATING THIS UNIT!

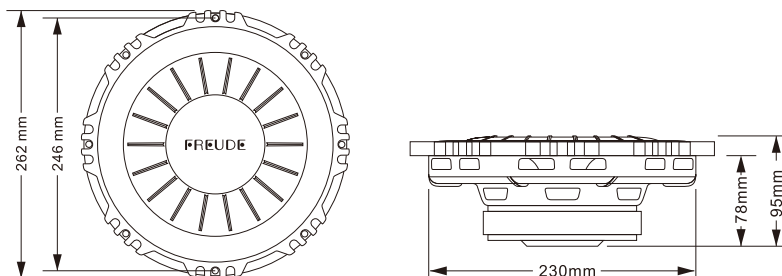
Product Specifications

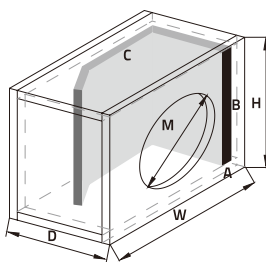
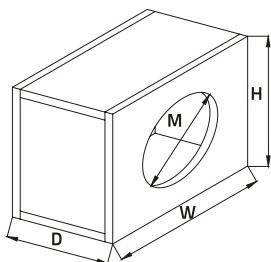
· Max Power:	· 500W
· RMS Power:	· 250W
· Impedance:	· 4ohm
· Sensitivity(2.83V/1M):	· 89dB
· Frequency Response:	· 27-400Hz
· Basket:	· 10" Steel With Black Painting
· Cone:	· Polystyrene With Rubber Surround
· Voice Coil:	· 2"(51mm)
· Magnet:	· Ferrite 40.5Oz(135x20mm)

Parameters

· Resonant Frequency Fms (Hz):	· 27
· Mechanical Q Factor Qms:	· 4.81
· Electrical Q Factor Qes:	· 0.47
· Total Q Factor Qts:	· 0.43
· Mech. Resistance Rms(kg/s):	· 3.4
· Suspension Compliance Cms(mm/N):	· 0.36
· Moving Mass Mms(gr):	· 97.2
· BL Product/BXL(N/A):	· 11.2
· Equiv. Can Air Load Vas(L):	· 62.6
· DC Resistance(ohms):	· 3.6
· Voice Coil Induct. @1 KHz(mH):	· 1.4
· Effective Piston Area Sd(sq.cm):	· 350

Product Dimensions





Recommended Sealed Enclosures

Volume (net int.)	External Dimensions W x H x D	Mounting Hole - M	MDF Thickness	F3	Qtc
• 19 L	465x345x180mm	230mm	18 mm	48Hz	0.82

Recommended Ported Enclosures

Volume (net int.)	External Dimensions W x H x D	Slot Port Internal Dimensions - A x B x C	Mounting Hole - M	MDF Thickness	F3	FB
• 27 L	480x310x260mm	35x274x585mm	230mm	18mm	44Hz	47Hz

- The enclosure recommendations listed are external dimensions which assume the use of 18mm thick material. If you are using 15mm thick material, subtract 6mm from each dimension. Do not use any material with a thickness of less than 15mm as this may compromise the rigidity of the enclosure.
- All enclosure volumes listed are net internal volumes! Box volume displacement, port displacement and brace displacement must be added to obtain the final gross internal volume. All enclosure dimensions listed have already taken this into account.
- When using two subwoofers in a common enclosure simply double the required volume and, in the case of a ported enclosure, use two times the recommended port(s).
- We recommend the use of this speaker in a bi-amplified system using high-quality satellite speakers and amplifiers. We do not recommend the use of this subwoofer with a passive crossover (coil), as this type of device will adversely affect performance.

⚠ CAUTION ⚠

- Prolonged exposure to sound pressure levels in excess of 100dB can cause permanent hearing loss. This high-performance speaker can exceed this level. Please exercise restraint in its operation in order to preserve your ability to enjoy its fidelity.
- When installing a subwoofer in your vehicle, it is extremely important to secure the enclosure firmly. We recommend bolting the enclosure through the metal of the floorpan or the frame of the vehicle with large diameter washers for reinforcement. If an enclosure is not firmly attached, it can become a projectile in a collision. This is particularly important in a hatchback, station wagon, sports utility vehicle, or van.



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The contents of this manual and the specifications of this product are subject to change without notice.
SICHERHEIT Company reserves the right to make changes to the specifications and materials contained therein without notice.