

12 IT 800 MID

SWETON®



When voice clarity and punchy mids define the performance, the **12 IT 800 MID** stands unmatched. Engineered as a dedicated midrange transducer, this driver delivers high SPL vocal projection, tight transient response, and low distortion, making it ideal for professional reinforcement systems.

With an impressive 800W AES power handling and a high motor strength ($Bl = 26.76$ N/A), this driver produces clear, articulate mids even at extreme volume levels. Its low Qts of 0.26 and X_{max} of 5.77 mm ensures tight response with excellent control, making it perfect for line arrays, vocal monitors, and 3-way PA cabinets.

Validated using Klippel Analyzer System and CLIO 12.5, every 12 IT 800 MID unit is tuned for real-world performance and engineering precision.

Recommended Enclosure

Type	Volume (Litres)	Tuning (Hz)	Port
Vented Mid Box	40–50 L	80–90 Hz	Ø100 mm 120 mm
Sealed Vocal Cab	30–35 L	–	–

Recommended HF Driver

Parameter	Recommendation
Power Rating	80–120W AES
Sensitivity	107–110 dB SPL
Diaphragm	Titanium
Exit Size	1.4" Compression Driver

Recommended Crossover Points

Role	Frequency	Slope
High Pass	120–150 Hz	18 dB/oct
Low Pass	3.2–3.5 kHz	12–18 dB/oct

Applications

- Vocal PA systems
- Line array mid section
- 3-way stage cabinets
- Procession speakers
- Outdoor Pandal & Puja Systems

☑ Why Choose 12 IT 800 MID?

- Crystal-clear midrange delivery
- Rugged 800W AES for high SPL conditions
- Strong magnetic motor for punchy transients
- Versatile enclosure compatibility
- Tested on Klippel & CLIO for high-quality assurance

SPECIFICATIONS & PARAMETERS

Specifications

Nominal Diameter	315 mm
Nominal Impedance	8 Ω
Nominal Power Handling (AES)	800 W
Program Power	1600 W
Sensitivity (1W/1m)	96 dB
Frequency Range	50-4500 Hz
Magnet Material	Ferrite
Voice Coil Diameter	99.3 mm (4 in)
Winding Material	CCAR
Former Material	GLASS FIBRE
Winding Type	OUTSIDE

Mounting Info

Overall Diameter	315 mm
Bolt Circle Diameter	298 mm
Baffle Cutout Diameter	277 mm
Depth	156 mm
Flange and Gasket Thickness	10 mm
Gross Weight	13.80 Kgs

Parameters

Resonant Frequency	Fs	63 Hz
DC Resistance	Re	5.4 Ω
Electrical Q	Qes	0.26
Mechanical Q	Qms	13.17
Total Q	Qts	0.26
Compliance Equivalent Volume	Vas	28.22 Ltrs
Peak Diaphragm Displacement Volume	Vd	0.15 Ltrs
Effective Surface Area of Cone	Sd	522.79 cm ²
Reference Efficiency	η_0	2.59%
Moving Mass including air load	Mms	87.0 gms
Motor Strength	Bl	26.76 T-m
Voice Coil Inductance	Le	0.63 mH
Efficiency Bandwidth Product	EBP	242 Hz
Voice Coil Overhang	Xmax	± 5.77 mm

Recone Kit

Recone Kit Number	REC12IT800MID
-------------------	---------------

Z(f,x=0) Impedance

