

### PRELIMINARY SPECIFICATIONS

# FC-185F01

## SUB BASS DRIVER



<b>18" / 457.2 mm</b> CHASSIS DIAMETER	<b>900 W (A.E.S.)</b> AES POWER HANDLING	<b>30 Hz - 2 kHz</b> FREQUENCY RESPONSE	<b>5.0" / 127 mm</b> COPPER VOICE COIL	<b>96 dB</b> SENSITIVITY (1W/ 1m)	<b>10.5 mm Xmax</b> MAXIMUM LINEAR EXCURSION
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- Optimised, lightweight ferrite design, only weighs 13 kg.
- New 18-inch optimised, cast aluminium chassis design.
- Long driver excursion. Peak to peak maximum excursion of 52mm.
- High Qts (0.530) for larger enclosure designs.
- Double spaced suspension system for increased linearity.
- Suitable for bass reflex or horn loaded designs.

The FC-185F01 is an efficient high power handling driver specially designed to provide powerful and accurate bass with low distortion and low power compression. The driver exhibits smooth tonal character combined with a fast response time. The FC-185F01 utilises an optimised fibre loaded cone assembly controlled by a fully optimised multi roll surround. The units spaced dual suspension configuration ensures excellent control during large excursions. A fully optimised motor structure built around a high grade Y35 magnet ensures maximum flux yield from compact design and generates the minimum amount of flux modulation. The cast chassis base venting and large motor venting ensures efficient ventilation of the unit to keep power compression to a minimum.

### ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	18" / 457.2 mm
Impedance	8 Ohm
Power Handling	900 W (A.E.S.)
Peak Power (6dB Crest Factor)	3600 W (A.E.S.)
Usable Frequency Range -6dB	30 Hz - 2 kHz
Sensitivity (1 w - 1 m)	96 dB
Moving Mass inc. Air Load	220 grams
Minimum Impedance Zmin	6.5 Ω
Effective Piston Diameter	15.68" / 398.27 mm
Magnet Weight	105.8 oz
Magnetic Gap Depth	0.35" / 9.00 mm
Flux Density	0.98 Tesla
Coil Winding Height	0.98" / 25.00 mm
Voice Coil Diameter	5.0" / 127 mm

### MOUNTING / SHIPPING INFORMATION

Overall Diameter	19.1" / 485 mm
Width Across Flats	18" / 457 mm
Flange Height	0.465" / 11.8 mm
Baffle Hole Diameter F/M	16.53" / 419.86 mm
Baffle Hole Diameter R/M	16.33" / 414.78 mm
Gasket Supplied	Front
Outer Fixing Holes	8x Ø 0.275" on 18.425" PCD / 8x Ø 7 mm on 468 mm PCD
Inner Fixing Holes	8x Ø 0.275" on 17.25" PCD / 8x Ø 7 mm on 438.15 mm PCD
Depth	7.94" / 201.55 mm
Weight	28.85 lb / 13.09 kg
Recommended Enclosure Volume	60 - 230 Litres
Shipping Weight	31.00 lb / 14.06 kg
Packing Carton Dimensions	(W) 495 (D) 495 (H) 255 mm

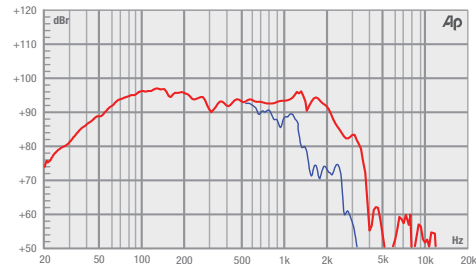
### THIELE SMALL PARAMETERS

FS Hz	36 Hz
RE Ohms	5.9 Ω
Qms	11.100
Qes	0.560
Qts	0.530
Vas Ltr	205.00 Litres
Vd Litres	1.190 Litres
CMS (mm/N)	0.110 mm/N
BL T/m	20.36 T/m
Mms (grms)	174 grams
Xmax (mm)	10.5 mm
Sd (cm²)	1134 cm²
Efficiency %	1.65 %
Le (1k Hz)	2.90 mH
EBP	64.29 Hz

### MATERIALS OF CONSTRUCTION

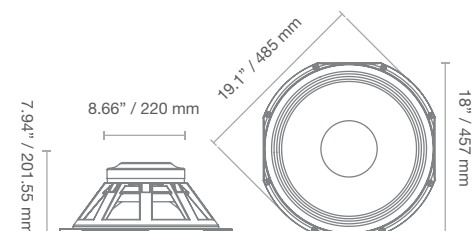
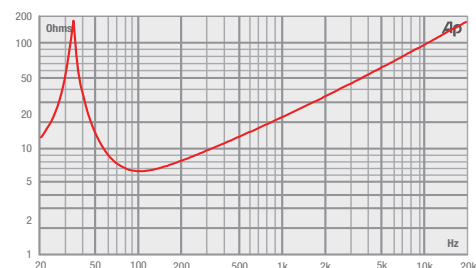
Former Material	Glass Fibre
Voice Coil	Copper
Magnet Material	Neodymium
Chassis	Die-cast Aluminium
Cone	Paper
Surround / Edge Termination	Polyvinyl Damped Multi Roll. Poly Cotton
Dust Dome	Paper
Connectors	Push-button Spring Terminals
Polarity	Positive voltage at red terminal causes forward motion of cone

### FREQUENCY RESPONSE DATA†



† Half space response measured in a 975 Litre sealed box.

### IMPEDANCE



\* Please enquire about alternative impedances.

\* A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 35 Hz and 350 Hz. Driver mounted in free air, test signal applied at rated power for two hours.

\* Please note that the frequency response measurements are supplied for comparison only and are not a measure of the low frequency performance which may be achieved in a fully optimised system.