LF Loudspeakers

CF1840H

18-inch, cast aluminium chassis, ferrite magnet LF driver

- Rigid lightweight carbon fibre loaded cone
- Balanced airflow venting provides enhanced cooling
- Twin demodulation rings
- Low mass coil reinforcement

2000W
Continuous power rating

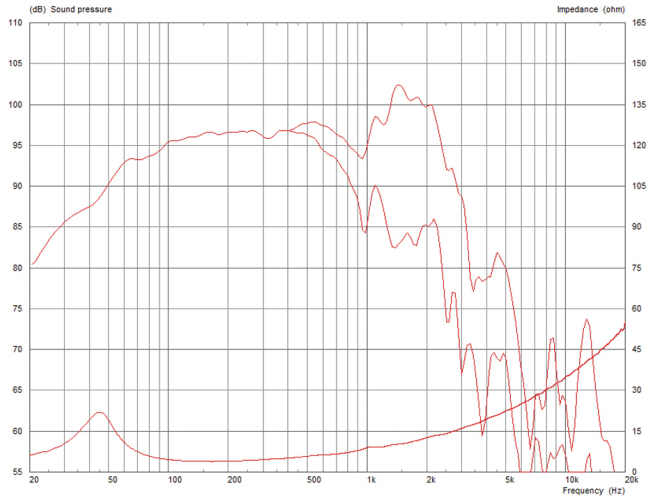
97dB
sensitivity

4in
Round copper voice coil

Mounting Information

Overall diameter	460mm / 18.11in
Overall depth	220mm / 8.7in
Cut-out diameter	414mm / 16.24in
Mounting hole dimensions	11x7mm / 0.43x0.28in
Number of mounting holes	8
Mounting hole PCD	441-432mm / 17.36-17.01in
Unit weight	11.6kg / 25.5lb

Frequency Response and Impedance Curves



General Specifications

Nominal Diameter	457mm / 18in
Power Rating	1000W
Continuous power rating	2000W
Rated impedance	4 ohm
Sensitivity	97dB
Frequency range	30-2500Hz
Chassis type	Cast aluminium
Magnet type	Ferrite
Magnet weight	3.18kg / 112oz
Voice coil diameter	100mm / 4in
Voice coil material	Round copper
Former material	Glass fibre
Cone material	Carbon fibre loaded paper
Suspension	Single
Gap height (Hg)	9.5mm / 0.37in
VC winding height (Hvc)	25mm / 0.99in

Parameters

Sd	1134.12cm^2 / 175.79in^2
Fs	38.50Hz
Mms	158.70g / 5.60oz
Qms	3.921
Qes	0.385
Qts	0.351
Re	3.04 ohm
Vas	196.7l / 6.95ft^3
Bi	17.41Tm
Cms	0.11mm/N
Rms	9.76kg/s
Le (at 1kHz)	0.95mH
Xmax	8mm / 0.31in

Packed Dimensions & Weight

Single pack size W x D x H	500mm x 500mm x 255mm / x 19.7in 19.7in x 11in
Single pack weight	13kg / 28.6lb

Power rating: Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
Continuous power rating: Defined as 3dB greater than the AES rating.
Sensitivity: Measured on axis at 1W, 1m in 2 pi anechoic environment.
Parameters: Measured after unit subjected to pre-conditioning signal.
Xmax: Hvc-Hg/2

Celestion, Claydon Business Park, Great Blakenham, Ipswich, IP6 0NL United Kingdom