CELESTION

LF Loudspeakers

POWERPROX18



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

- PowerProX speakers are built for maximum performance and reliability throughout the lifespan of each speaker
- Dynamic airflow venting delivers class-leading heat management with an average 20C lower voice coil temperature
- Polysiloxane laminated dual suspension provides greater stability and improved cone displacement symmetry
- Aluminium demodulation ring reduces harmonic and intermodulation distortion caused by voice coil displacement
- Double-sided, weatherproof cone coating for moisture protection and enhanced durability

2400W
Continuous power rating

97dB
Sensitivity

4in
Round copper voice coil

Mounting Information

Overall diameter	460mm / 18.1in
Overall depth	225mm / 8.9in
Cut-out diameter	414mm / 16.29in
Mounting hole dimensions	11x7mm / 0.43x0.28in
Number of mounting holes	8
Mounting hole PCD	441-432mm / 17.36-17.31in
Flange & gasket thickness	16.2mm / 0.64in
Unit weight	13.2kg / 29.1lb

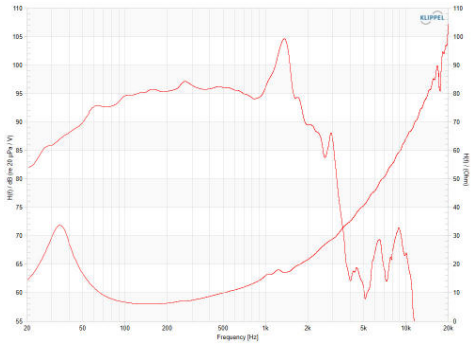
General Specifications

Nominal Diameter	457mm / 18in
Power Rating	1200W
Continuous power rating	2400W
Rated impedance	8 ohm
Sensitivity	97dB
Frequency range	35-1000Hz
Chassis type	Cast aluminium
Magnet type	Ferrite
Magnet weight	3.5kg / 124oz
Voice coil diameter	100mm / 4in
Voice coil material	Round copper
Former material	Glass fibre
Cone material	Glass loaded cellulose, water-resistant coating front & back
Surround material	Cloth-sealed
Suspension	Dual-laminated
Gap height (Hg)	11.75mm / 0.46in
VC winding height (Hvc)	25mm / 0.98in

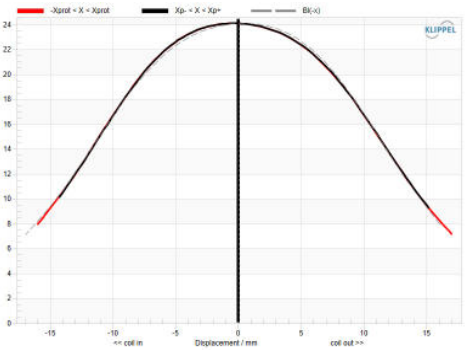
Parameters

Sd	1210.0cm^2 / 187.6in^2
Fs	34.8Hz
Mms	229.98g / 8.1oz
Qms	3.147
Qes	0.431
Qts	0.379
Re	5.1 ohm
Vas	188.9l / 6.67ft^3
Bl	24.38Tm
Cms	0.091mm/N
Rms	15.96kg/s
Le (at 1kHz)	1.61mH
Xmax	9.5mm / 0.37in
Xmech	48mm / 1.9in
Efficiency	1.8%

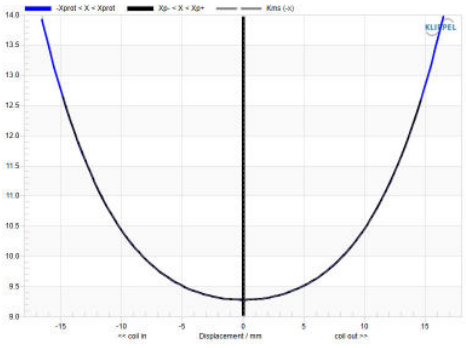
Frequency Response & Impedance



Force Factor Bl Symmetry



Stiffness K Symmetry



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? anechoic environment.
Parameters: Measured after unit subjected to pre-conditioning signal.
Xmax: 0.5*(Hvc-Hg) + 0.25*Hg
Xmech: Maximum peak-to-peak excursion before damage.

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