

## **Technical Specification LDS400**

## DESCRIPTION

LDS400 represents a new loudspeaker technology based on the principles of the Homogeneous Line Source

Each LDS 400 is equipped with four 7" drivers and four Planar-Magnetic (ribbon) Drivers.

The voice coil formers and cones of the 7" low-frequency drivers are fabricated from aluminium, while magnets are vented to optimise cooling. A special high impedance copper voice coil makes it possible to connect multiple drivers in parallel to produce a low-frequency impedance of 12 Ohms.

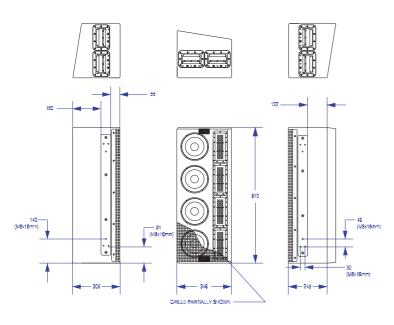
The four Planar-Magnetic (ribbon) Drivers used in the LDS 400 employ an innovative high-tech diaphragm material called Kaladex $^{\$}$ , from Dupont.

The cabinet is of the closed type to preserve the impulse response. Each cabinet is made of heavily braced Swedish MDF and plywood, and is constructed with no parallel walls to avoid standing waves. The enclosure has separate chambers for high and low frequencies, which are both optimally damped, using two different materials.

The LDS 400 cabinet are equipped with four(x3) rigging points designed to simplify set-up and installation.

The LDS 400 is ideally suited as an alternative or compliment to the larger LDS 800 where vertical space is restricted .

Each LDS 400 can also be mounted separately either horizontally or vertically.





SPECIFICATION DATA		
Operating Frequency Range (Hz)		
	60Hz to 18kHz	
Sensitivity (dB SPL/2.83Vrms/1m)		
LF	99	
HF	99	
Transducers		
LF	4 x 7" Cone Alu Drivers	
HF	4 x 8" Planar Magi	netic Transducers
Impedance (Ohms)		
LF	12	
HF	16	
Power Handling (Watts)	Programme	Peak
LF	300	900
HF	200	600
Maximum SPL (dB, @ 1m)	Continuous	Peak
	122.0	126.0
Nominal Coverage Angle /	-6 dB points (degrees)	
Horizontal	120 (150Hz-12kHz)	
Vertical	Defined by configuration	
Recommended Amplifier A	And Protection Settings	
Amplification Gain	29dB (both channels)	
Peak Limiter	Threshold +8dBu	
Recommended Crossover Settings (24dB/Oct Linkwitz-Riley)		
Highpass	60-120Hz (depending on sub bass settings)	
Lowpass	300-600Hz	
Input/link Connectors	LF	HF
2x Speacon	+1/-1	+2/-2
Dimensions	inches	millimetres
Height	34.2	870
Width	13.7	348
Depth (LF)	12.0	305
Depth (HF)	9.6	245
Weights	pounds	kilogrammes
Net Weight	83.7	38
Shipping Weight	90.3	41