

C.D.L. 1815 LOW-PACK

DESCRIPTION

The C.D.L. 1815 Low-Pack is the Butterfly system's low frequency element. To all effects, it's an enclosure built with the criteria necessary for forming a real low frequency Vertical Line Array. It weighs just 46 kg and its dimensions are the same as two C.D.H. 483 Hi-Packs one above the other. Being fitted with the same flying hardware, it's therefore completely compatible and able to be perfectly combined with the latter.

CARDIOID OR HYPERCARDIOID DISPERSION

The C.D.L. 1815 Low-Pack is equipped with a 18" woofer for front emission and a 15" woofer inside the box, used to recreate the system's Cardioid or Hypercardioid dispersion. The two loudspeakers are powered by separate amplifiers. The diagram, related to the most useful cardioid configuration, shows the uniform reduction of rear emission for all frequency bands involved and the remarkable "front-to-back" ratio which, from a minimum of 12dB at 120Hz (the suggested upper cut-off frequency) gives an attenuation of over 15dB on rear emission for all the other frequency bands (100, 80, 63, 50, 40 Hz). Applications have been made for Italian and international (PCT) patents for the C.D.L. 1815 Low-Pack too, supported by frequency response polar plots and a circuit diagram to make its original operating principle more easily understood. (*)



FLIGHT-CASES FOR TRANSPORTING THE ELEMENTS

Dedicated cases fitted with sturdy smooth-running wheels have been designed and built to transport and protect the elements. A 2 or 3-unit case protects Hi-Packs and becomes a handy trolley, perfect for facilitating the raising in rapid succession of the elements of the "train" of enclosures in an array. Illustrations of assembly procedure can be seen alongside.

A 2-unit case protects the Low-Pack and transforms into a trolley designed to facilitate fast hassle-free lifting of each element.

(*) Source: Butterfly System White Paper by Guido Noselli

TECHNICAL SPECIFICATIONS:

FREQUENCY RANGE	(±3 dB)	40 Hz ÷ 120 Hz
AVERAGE DISPERSION		
Horizontal	180°	
Vertical	Depending on array height and position	
IMPEDANCE (Ω)		
Main 18" (min)	5 Ω (min. 4.9)	
Reverse 15" (min)	8 Ω (min. 7.9)	
POWER - WATT AES	Cont.	Peak
High-pass filtered front 18"	1000	4000
High-pass filtered back 15"	350	1400
MAX SPL @ 1 m (calculated)	Cont.	Peak
	132	142

CONNECTORS	2 x NL4 Speakon in parallel
Main 18" (front)	Pin 1+ pos ; Pin 1- neg
Reverse 15" (back)	Pin 2+ pos ; Pin 2- neg

LOUDSPEAKERS AND LOADING	
Main 18" (front)	1 x 18" vented high-pass loaded woofer
Reverse 15" (back)	1 x 15" vented band-pass loaded woofer

WEIGHT	Single unit	Shipping (1 unit)
	46 kg (101.4 lb)	52 kg (114.6 lb)
DIMENSIONS		
Height	48.3 cm (19")	59 cm (23.2")
Width	75.2 cm (29.6")	81 cm (31.9")
Depth	60 cm (23.6")	73 cm (28.7")

LINE ARRAY FAMILY