

8.1 CX

INTERNAL REF. 712400

CIARE®

KEY FEATURES

- 400 Watt Max Power (LF)
- 50 Watt Max Power (HF)
- 50 mm (2 in) voice coil, aluminium wire (LF)
- 26 mm (1 in) voice coil, aluminium wire (HF)
- Interleaved sandwich voice coil (LF)
- Bakelized fabric diaphragm (HF)
- Weather protected membrane for outdoor use (LF)



GENERAL	LF	HF	
Nominal Diameter	8" - 200 mm	1" - 26 mm	
Nominal Impedance	8 Ohm	8 Ohm	
Nominal Rdc	5,6 Ohm	5,5 Ohm	±0,4 Ohm
Power handling (AES) (*)	200 Watt	25 Watt	
Max Power	400 Watt	50 Watt	
Voice Coil Diameter	50 mm	26 mm	2/1 in
S.P.L. (1w, 1m)	96 dB	100 dB	±1,5 dB
Nominal Fs	85 Hz	2600 Hz	±10/300 Hz
Flux Density	1,15 T	1,5 T	±0,08 T
Frequency Range	70-3000 Hz	2500-15000 Hz	
Sinusoidal Test Voltage	13 V	3 V	

(*) Life Test

Box Volume	25 liters
Input Signal	Pink noise
Band Pass Filter	60-2000 Hz, 12dB/oct
V on Speaker	40 V
Test duration	2 hours

MECHANICAL DATA

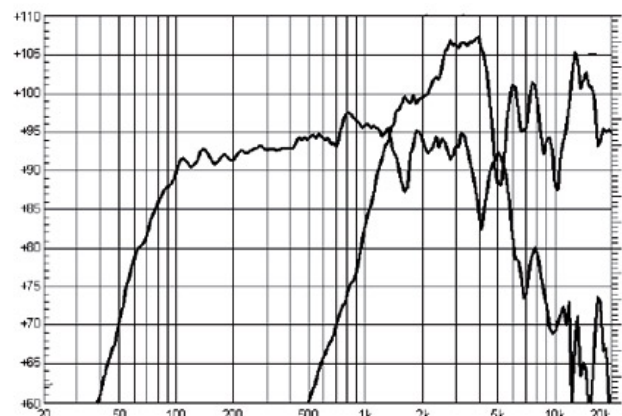
Weight	3,7 kg
Overall Diameter	208 mm
Overall Depth	127 mm
Baffle Cut Diameter	184 mm
Mounting holes number	4
Mounting holes diameter	5 mm
Mounting bolt diameter	194 mm

MATERIALS

Frame Material	Aluminium
Voice Coil Former	Kapton (LF-HF)
Voice Coil Wire	Copper
Cone Material	Doped Paper (LF), Bakelized fabric (HF)
Cone Shape	Straight (LF), Dome (HF)
Surround Material	Doped Nomex® fabric (LF), Bakelized fabric (HF)
Surround Shape	Two rolls (LF), Flat (HF)
Suspension Material	Doped Nomex® fabric (LF)
Magnet Type	Ferrite
Magnet Weight	1030 g (HF)

DIAGRAM

Frequency Response Reflex Box 24 dmc - 2,83 V - 1m
Impedance (Iac=10m A)



THIELE-SMALL PARAMETERS

Qms	5,21
Qes	0,44
Qts	0,41
Fs	88,70 Hz
Re	5,72 Ohm
Mms	20,64 g
Cms	0,16 mm/N
Bl	12,23 T*m
Sd	227,00 cm²
Vas	11,28 liter
u0	1,72 %
XMax	4,5 mm
Le	0,49 mH
Rms	2,21 Kg/s
Efficiency Bandwidth	201,64

Air gap height = mm 8
Winding height = mm 13