

CORVETTE M2



A 3-way system in such a small volume will surprise you. First by the innovative technology of its three domes: • rigid diaphragms for the mid-range and tweeter, • honeycomb structure diaphragm for the 17 cm woofer. This gives exceptional performance, power handling of 120 efficient watts and a surprising acoustical adaptation in bass frequencies provided by the active compensator. Furthermore, this speaker is the ideal basic element for a sub-woofer system.

As for all Cabasse speakers, the ideal crossover has been defined and the front panel stepping has been precisely calculated. In this way, Corvette M2 fully lives up to the performance of its speakers with perfect linearity of the power spectrum. An original measurement protocol has made it possible.

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THE CABASSE MEASUREMENT PROTOCOL.

The fundamental importance of acoustics for sound reproduction should enter into the scientific measurement of a speaker. Bearing this essential fact in mind, the Cabasse laboratory uses 3 complementary measuring enclosures:

- **Anechoic chamber:** this totally absorbant 2000 m³ volume enables exceedingly precise measurements to be made, with no influence from external surroundings or from the room itself, under conditions which can be exactly reproduced. The essential characteristics of a speaker, response, distortion and phase curves and transient response are revealed from pure frequencies or very complex signals.
- **Echo chamber:** a set of loud-speakers not only has a frontal diffusion, but radiates in all directions. The "total radiated power" of your speaker consists of this radiation, spherical in the bass and variable in other registers, added to the direct sound. Cabasse measures it at every frequency in an echo chamber with total reverberation.

• **Semi-reverberating chamber:** your listening room is neither an anechoic chamber nor an echo chamber. It is a "semi-reverberating" room whose resonance curve will vary depending on its volume, dimensions and acoustic properties of its furnishings. Therefore, the speaker will be tested in a third chamber which is semi-reverberating and has variable acoustics.

This measurement protocol converges effectively with the design of Cabasse speakers so that your listening room's acoustical influences are kept to a minimum.

MEASUREMENT PROTOCOL ADVANTAGES.

This new Corvette version benefits from the evolution of the Cabasse measurement protocol, which has allowed:

- response, power and phase curves to be integrally respected for each drive unit,
- the production of filters as close as possible to the ideal theoretical filter and the modification of the front panel architecture and speaker

stepping, to harmonize the phase curve and correct diffraction on speaker edges.

As well as the absolute definition of sound imaging and perfect reproduction of transient response, two main advantages result from this: • the extremely regular response curve, • the homogeneous total radiated power.

COMPONENTS OF CORVETTE M2

Woofer:
17 cm, 1,9 kg
honeycomb dome
Ref: 17 NDB

Midrange:
5,5 cm, 1,1 kg
rigid dome
Ref: DOM 12

Tweeter:
2,5 cm, 1,4 kg
rigid dome
Ref: DOM 4

Passive filter:
Crossover frequencies:
900 and 3500 Hz

CHARACTERISTICS AND RESPONSE CURVES

Frequency response (with compensator):

65 - 20000 Hz \pm 3 dB.

Efficiency (pink noise 1 kHz to 20 kHz):

91 dB for 1 W at 1 m.

Impedance: 8 Ω .

Power handling: 120 W (DIN 45573).

Peak power: 850 W.

Measuring amplifier's power: 350 W.

Directivity: the use of Cabasse dome drivers guarantees a total absence of directivity at 30° and just a trace at 45° as shown by these curves.

Bass response: the response curves shown opposite are based on measurements made in an anechoic chamber. In a normal room the average bass level will be greater and the pass band will depend on the acoustic properties of the room (size and sound proofing) together with the positioning of the speakers.

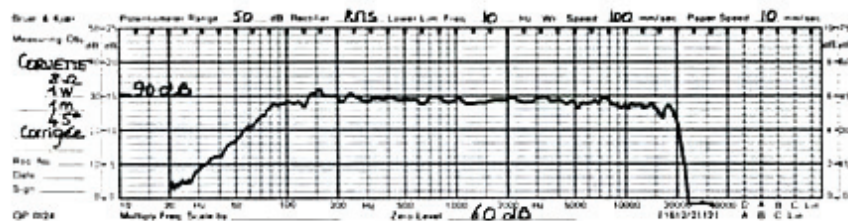
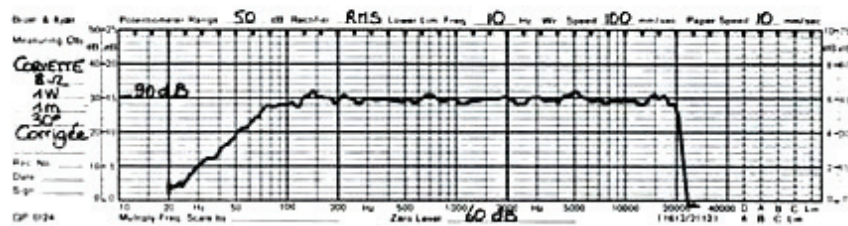
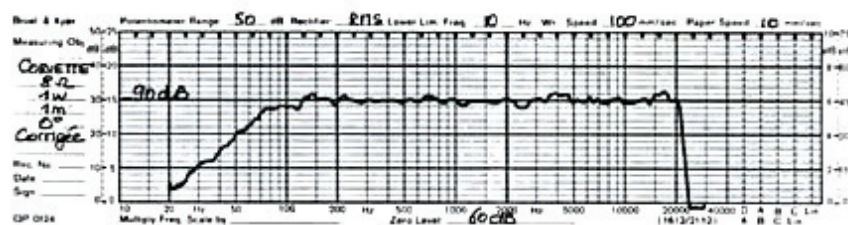
Utilization: this speaker is built to perform vertically.

Dimensions and weight:

48 x 25 x 27,1 cm - 12 kg.

WARRANTY

The lifetime warranty for the first buyer covers all drive units and crossovers, provided that the specified power levels are not exceeded.



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All Cabasse speaker systems are equipped with drivers designed and manufactured by Cabasse. Because of technical improvements already under way in our constant search for optimum quality, Cabasse reserves the right to modify all models presented in specification sheets or advertising materials without prior notice.
Cabasse, Kergonan, F 29287 Brest Cedex - Tel. 98 41 56 56 - Telex: 940 587 - Fax: 98 02 76 18.
Cabasse, 22 bd Louise Michel, F 92230 Gennevilliers - Tel. (1) 47 90 55 78 - Fax: (1) 47 90 65 35.