

Alpair 10P Gen. 1 Extended Full-Range emitter Paper-GRF cone model



This Alpair 10P Gen.1 represents a significant development of Markaudio Full-range drivers. The production history of the Alpair 10 series is well known inside purist audiophile circles. However this is the first time that a paper cone version has appeared in the 10 series.

The cone is the most radical shallow design Markaudio has produced so far this size of driver. To maintain its stability, the materials used include an arrangement of glass-reinforced fibres. The dispersion characteristic is ultra wide. The 10P is frequency range capable to +25-kHz with an efficiency of 89.5dB. These efficiencies were achieved by considerable design efforts to reduce mass. The 10P's power train under moving mass conditions is less 5.2g while retaining Markaudio's "long throw" design feature. The coil winding is "high stress" type forming the tight band arrangement on its body. The result is one of the lightest coils deployed in this size class, weighing under 2.2g.

The power-train suspension compliance is extremely sensitive. Capable of large extension for this class of Full-Range audio driver (7-mm 1 way, limited by the Arrestor).

The Alpair 10P is "purist" technical driver. Its purpose is to serve the audiophile and experimental markets. Due to the highly emittance sensitive power-train, this driver will need users to take note of the need for high quality lower power amplification and audiophile level source. The Alpair 10P should not be considered as a "general purpose" emitter.

T/S Anechoic: 2.2/30g spider final version: 10P Gen.1

Revc= 6.200 Ohm

Fo= 42.398 Hz

Sd= 88.250 cm

Vas= 29.995 Ltr

Cms= 2.712m M/N

Mmd= 4.719 g

Mms= 5.196 g

BL= 4.741 TM

Qms= 2.425

Qes= 0.382

Qts= 0.330

Levc= 50.196u H

No= 0.579 %

SPLo= 89.645 dB

Xmax = 7mm (1 way) limited by Arrestor

Power = 30 watts Nom.

