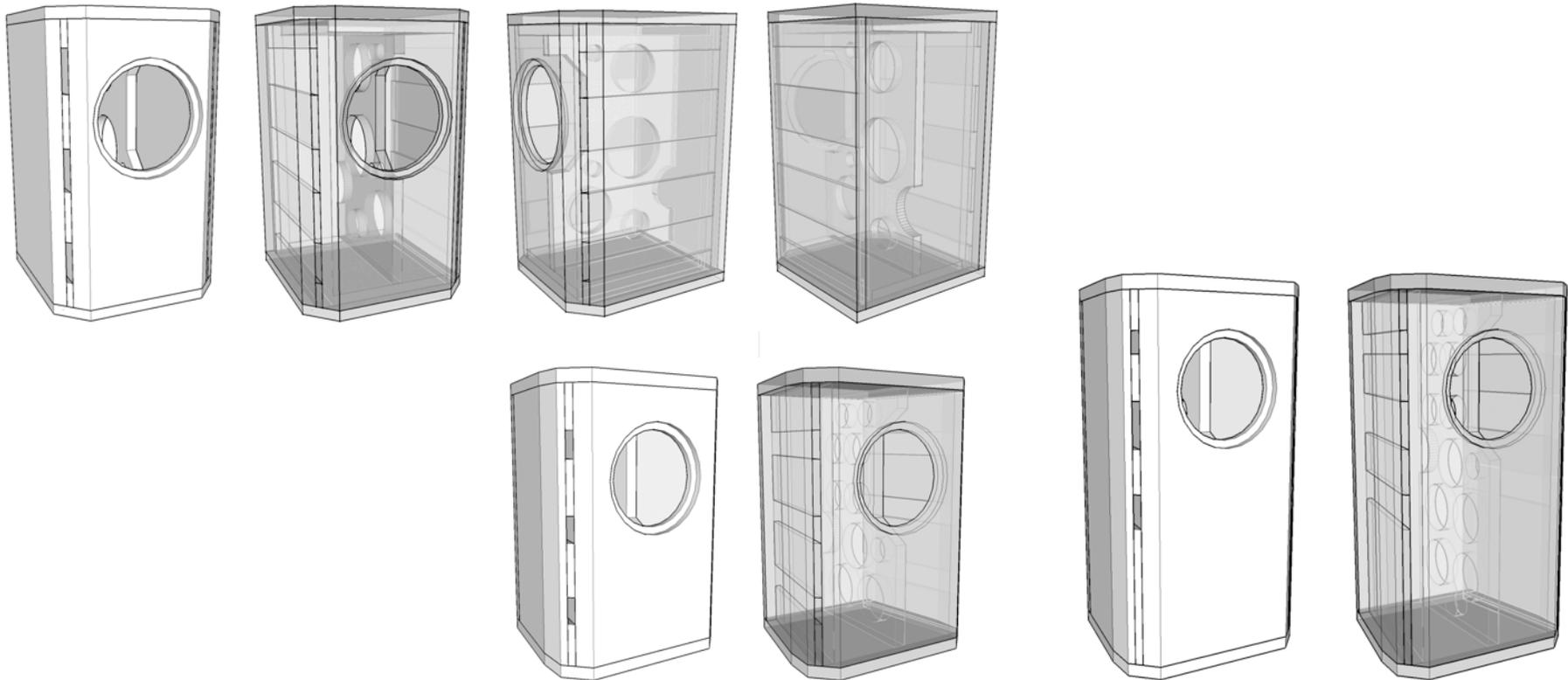




Mar-Ken10.x miniOnken for Mark Audio Alpair10.x

12-november-2017



Planet10-hifi miniOnken-style enclosures for the Mark Audio Alpair10, A10.2, A10.3, A10p 5.25" (140mm) driver. Includes advanced trapezoid variations have the postfix T (medium), wT (wide), or xwT (extra-wide) – once the chamfers are cut it is actually 8-sided. Benefits include reduced side-to-side standing waves. Fabrication is more difficult.

miniOnkens feature

- 1/ high resistance slot ports. Insensitive to dynamic changes in speaker parameters,
- 2/ rigid enclosures with low resonance characteristics
- 3/ narrow baffles with large chamfers for excellent imaging
- 4/ single driver, no crossovers, no filters required

Additional variations based on the prime enclosure include compact enclosures for use as Centre channels, midTweeters, and a floorstander

* miniOnken nomenclature is explained here: <http://www.diyaudio.com/forums/planet-10-hifi/160747-minionken-nomenclature-what-those-names.html>

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Drawings: Mar-Ken10.x

11-november-2017

Drawings/Contents (provisional)

io/ Intro
i1 / List of drawings (black are present in the current doc, grey are planned*)
i1/ Pictures
i2/ Notes
i3/ Visualizations

Rectangular prime boxes with 9mm spacers

Mar-Ken10p Plan 15mm / 9 (18mm baffle)
Mar-Ken10p Plan 18mm / 9
Mar-Ken10.3 Plan 15mm / 9 (18mm baffle)
Mar-Ken10.3 Plan 18mm / 9
Mar-Ken10.2 Plan 15mm / 9 (18mm baffle)
Mar-Ken10.2 Plan 18mm / 9

Trapezoidal prime boxes with 9mm spacers

Trapezoid Intro
Mar-Ken10pT Plan 18mm / 9
Mar-Ken10pwT Plan 18mm / 9
Mar-Ken10.3T Plan 18mm / 9
Mar-Ken10.3wT Plan 18mm / 9
Mar-Ken10.2T Plan 18mm / 9
Mar-Ken10.2wT Plan 18mm / 9
Mar-Ken10pTT Plan 18mm / 9
Mar-Ken10.2TT Plan 18mm / 9
Mar-Ken10pwTT Plan 18mm / 9
Mar-Ken10.2wTT Plan 18mm / 9
Mar-Ken10xT Detail 18mm / 9

Trapezoidal prime boxes with 12mm spacers

Mar-Ken10pxwT Plan 18mm / 12
Mar-Ken10pxwT Detail 18mm / 12

Twins (2 drivers)

Twin Mar-Kem10p Plan 18mm / 9
Twin Mar-Ken10.2 Plan 18mm / 9
Twin Mar-Ken10.2TT intro
Twin Mar-Kem10.2TT Plan 18mm / 9
Twin Mar-Ken10pTT Plan 18mm / 9
Twin Mar-Ken10.2TT Detail 18mm / 9

Classic Golden Ratio

Classic GR A10.3/p 18mm
Classic GR A10.2 18mm

Bonus Designs

Mar-Ken10.2 CentreA
Mar-Ken10p CentreA
Mar-Ken10p CentreCb
Mar-Ken10.3 CentreA
Mar-Ken10.2 minimum Baffle
Mar-Ken10.2 Compact Floorstander 15mm/18mm baffle
Mar-Ken10.3 Compact Floorstander 15mm/18mm baffle
Mar-Ken10p Compact Floorstander 15mm/18mm baffle
Mar-Ken10p Compact Floorstander 18mm
Roach-Ken10.2 (large, low profile variation)
Mar-Ken10.2 SGR Baffle
SZ10.2-13 Relex (simplified MK10.2 with rear vent)
A10.2 sealed (10 litres/small face)
dMarS10.2 (18mm)
dMarS10.2 in-wall (18mm)
A10p 7 litre vented (15mm)

Suggested Cut Plans

5'x5' cut MK10.x 15mm /9
5'x5' cut MK10.x 18mm /9
5'x5' cut MK10.2T 18mm /9
4'x8' cut MK10.2T 18mm /9
5'x5' cut MK10.2TT 18mm /9
4'x8' cut MK10.2TT 18mm /9
5'x5' cut MK10.2wT 18mm /9
4'x8' cut MK10.2wT 18mm /9
5'x5' cut MK10.2wTT 18mm /9
4'x8' cut MK10.2wTT 18mm /9
4'x8' cut MK10p Compact Floorstander 18mm
5'x5' cut Twin MK10.2wTT 18mm /9
5'x5' cut CGR MK10.2
5'x5' cut CGR MK10.3/p

cut plans for other designs (on request)

A0/ MK10.x generic damping plan (for 12mm (1/2") cotton or wool felt)

other danping plans (on request)

Alpair 10.x dimension drawings

** as a subscriber please ask if you need any of the uncompleted drawings or even one that i didn't think of*

please email me <david@planet10-hifi.com> with corrections & suggestions to make this document more useful

please email <david@planet10-hifi.com> with corrections & suggestions to improve this document
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