

# SPECIFICATIONS

## PR312WA02/03 12¼" die cast, alu cone, passive radiators

The two models PR312WA02 and PR312WA03 are identical except for cone colour. PR312WA02: Natural coloured alu cone, PR312WA03: Black alu cone.

PR312WA02/03 are passive units designed for dedicated subwoofer applications - as partners for our active subwoofer units.

Due to low mechanical losses they masters equally well low level details and extreme dynamic requirements.

For demanding sub bass applications using a passive unit is usually the only real alternative to sealed enclosures with active bass boost.

To make experimenting and individual tuning convenient and easy, PR312WA02/03 are delivered with three separate extra loads that are easily applied onto a threaded rod on the rear side of the cone.



Three exchangeable weights for custom tuning

### FEATURES

- Extremely rigid alu cone for precise transient response
- Rigid die cast chassis with extensive venting for lower air flow speed reducing audible distortion
- Low-loss suspension (high  $Q_m$ ) for better reproduction of details and dynamics
- Conex spider for better durability under extreme conditions
- Custom tunable by adding one or more of the three extra weights (included)

### NOMINAL SPECIFICATIONS

Notes	Parameter	Before burn-in	After burn-in	Unit
	Nominal size	12¼		[inch.]
	Effective radiating area, $S_d$	488		[cm <sup>2</sup> ]
1	Resonance frequency (free air, no baffle), $F_s$ - without additional mass - with additional 50 g mass - with additional 100 g mass - with additional 150 g mass - with additional 200 g mass - with additional 250 g mass - with additional 300 g mass - with additional 350 g mass	18.4 16.9 15.8 14.8 14.0 13.3 12.7 12.2		[Hz]
2	Moving mass, incl. air (free air, no baffle), $M_{ms}$ , without extra weights	278		[g]
1	Suspension compliance, $C_{ms}$	0.27		[mm/N]
1	Equivalent air volume, $V_{as}$	91		[lit.]
1	Mechanical Q, $Q_{ms}$ - without additional mass - with additional 50 g mass - with additional 100 g mass - with additional 150 g mass - with additional 200 g mass - with additional 250 g mass - with additional 300 g mass - with additional 350 g mass	27 29.3 31.4 33.5 35.4 37.2 38.9 40.5		[-]
	Maximum cone travel, mechanical limits, $X_{max}$	±25		
	Total unit net weight excl. packaging	1.8		[kg]

Note 1 The unit is not burned in before shipping.

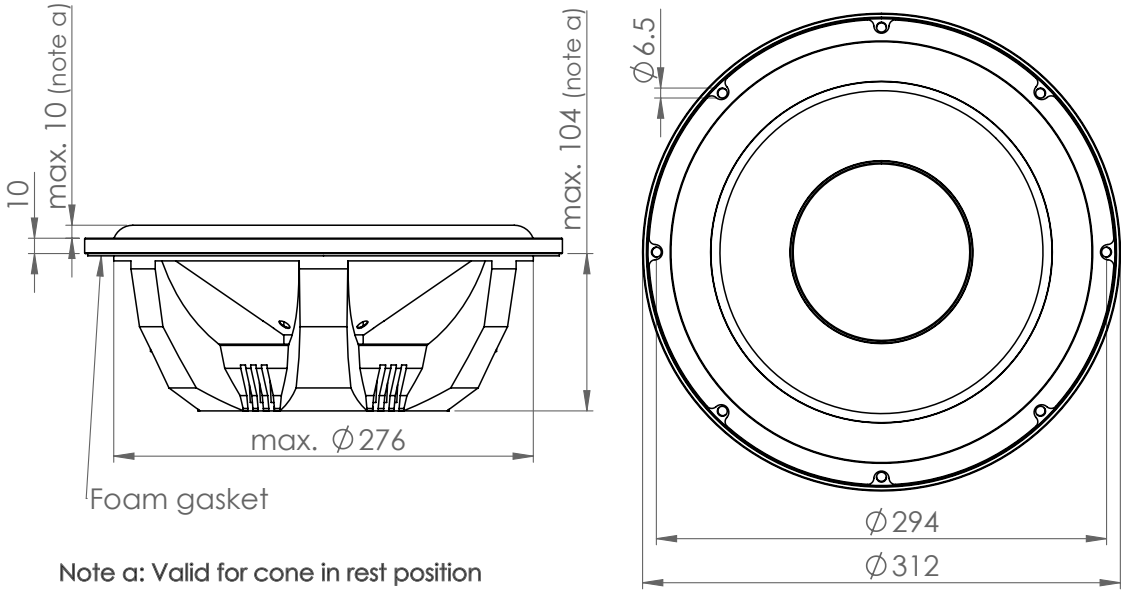
Note 2 The moving mass may be increased in 50 g steps up to a maximum of +350 g by adding one or more of the three extra weights that are included with the unit.

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### OUTLINE DRAWING (nominal dimensions)

Dimensions in mm



Note a: Valid for cone in rest position

### PACKAGING AND ORDERING INFORMATION

Part no. PR312WA02-01	Natural alu colour cone, Individual packaging (one piece per box), incl. 3 detachable weights
Part no. PR312WA03-01	Black alu cone, Individual packaging (one piece per box), incl. 3 detachable weights

Latest update: Apr. 30 2017