PROFESSIONAL GRADE MEDIUM THROW DEEP BASS SUBWOOFER OPTIMISED FOR SEALED OR PORTED ENCLOSURES

Indy EVO 10/2

UPC:	685757152372
EAN:	0685757152372
Printed:	685757152372

DETAILED TECHNICAL DATA

Power Handling (Per Driver):	1300 WRMS (@0%Thd)
Nominal Impedance:	2+2 ohm
DC Impedance :	1.8+1.8 ohm
Voice Coil:	65.5 mm
Voice Coil Layers :	8 Flat Wire
Magnet:	170 mm x 50mm
Magnet Type:	Y38 Ferrite

BOX COMPATIBILITY

Recommended Box Type:	Sealed/Ported
Recommended Box Size:	25>50Litres
Optimal Frequency Response:	30>100Hz
Recommend Port Cross Sectional Area (CSA):	15"2>30"2
Recommended Tuning Frequency:	35>45Hz

INSTALLATION POINTS

Failure to observe any of these installation points will invalidate your warranty:

- Do not run this subwoofer infinite baffle.
- Ensure your enclosure is within the specification listed.
- Only use correctly rated non-combustible cables.

TEAM TIPS

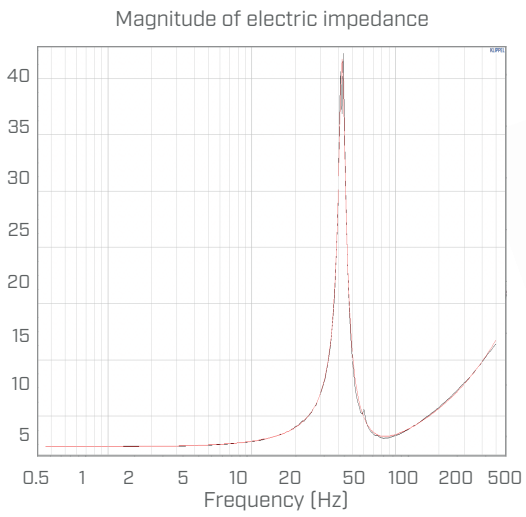
- We recommend to put all subwoofers in your system in a box with a shared air space.
- We do not recommend to run dual coil woofers from separate mono channels or amplifiers. This also applies (but less so) to single coil speakers in the same enclosure air space run from separate mono channels. We always recommend the use of a larger amplifier when possible in this case.
- For setting subwoofers it is possible to make a useful DIY clip detector. Wire an old tweeter and high voltage capacitor (we recommend a 250V 6.8uF) in line with the subwoofer. Next, play a 50Hz tone. Turn the gain up slowly until the tweeter makes a distinctive metallic rasp then back the gain off a small amount until the tweeter stops making the noise. Only use a tweeter you do not need as this can damage the tweeter.

TS PARAMETERS

Name	Value	Unit	Note
RE	3.55	OHM	Electrical voice coil resistance at DC
KRM	0.0028	OHM	Wright inductance model
ERM	0.96		Wright inductance model
KXM	0.0244	OHM	Wright inductance model
EXM	0.81		Wright inductance model
CMES	630.66	UF	Electrical capacitance representing moving mass
LCES	21.83	MH	Electrical inductance representing driver compliance
RES	59.36	OHM	Resistance due to mechanical losses
FS	42.9	HZ	Driver resonance frequency
MMS	174.426	G	Mechanical mass of driver diaphragm assembly including air load and coil
MMD	167.65	G	Mechanical mass of voice coil and diaphragm without air load
RMS	4.659	KG/S	Mechanical resistance of total driver losses
CMS	0.079	MM/N	Mechanical compliance of driver suspension
KMS	12.67	N/MM	Mechanical stiffness of driver suspension

Name	Value	Unit	Note
BL	16.631	N/A	Force factor BL product
LAMBDA	0.027		Suspension creep factor
QTP	0.664		Total Q factor considering all losses
QMS	10.089		Mechanical Q factor of driver in free air considering RMS only
QES	0.604		Electrical Q factor of driver in free air considering RE only
QTS	0.57		Total Q factor considering RE and RMS only
VAS	12.1707	|	Equivalent air volume of suspension
MQ	0.153	%	Ref. efficiency (2 PI radiation using RE)
LM	84.04	DB	Sound pressure level (SPL at 1M for 1W @ RE)
LMOM	84.56	DB	Nom. sensitivity (SPL at 1M for 1W @ ZN)
RMSE Z	7.1	%	Root mean square fitting error of driver impedance Z(F)
RMSE HX	2.85	%	Root mean square fitting error of transfer function HX(F)
SD	330.06	CM2	Diaphragm area
XMAX	25	mm	Total linear movement

FREQUENCY VS IMPEDANCE



TECHNICAL DRAWING

Total Diameter:	267 mm	Mounting Depth:	158 mm
Weight Approx. (Per a Driver):	9.3 Kg	Mounting Diameter:	230 mm