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

Indy EVO 12/2

UPC:	685757152792
EAN:	0685757152792
Printed:	685757152792

DETAILED TECHNICAL DATA

Power Handling (Per Driver):	1500 WRMS (@0%Thd)
Nominal Impedance:	2+2 ohm
DC Impedance :	2.1+2.1 ohm
Voice Coil:	76.5 mm
Voice Coil Layers :	8 Flat Wire
Magnet:	180 mm x 50 mm
Magnet Type:	Y38 Ferrite

BOX COMPATIBILITY

Recommended Box Type:	Sealed/Ported
Recommended Box Size:	50>75Litres
Optimal Frequency Response:	25>80Hz
Recommend Port Cross Sectional Area (CSA):	20"2>40"2
Recommended Tuning Frequency:	30>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

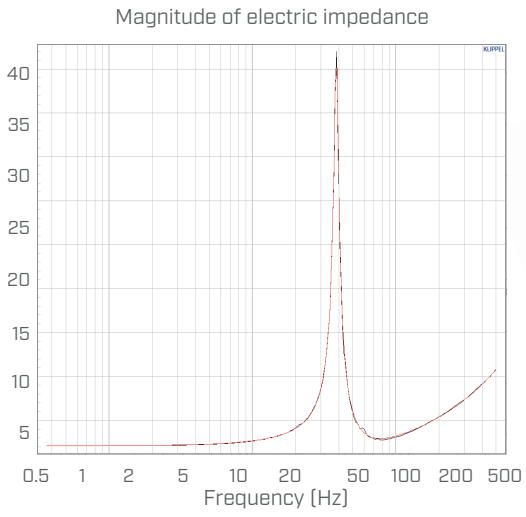
- We recommend to put all subwoofers in your system in a box with a shared air space.
- We do not recommend to run dual coil woofers from separate mono channels or amplifiers. This also applies (but less so) to single coil speakers in the same enclosure air space run from separate mono channels. We always 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	4.2	OHM	Electrical voice coil resistance at DC
KRM	0.0055	OHM	Wright inductance model
ERM	0.89		Wright inductance model
KXM	0.032	OHM	Wright inductance model
EXM	0.79		Wright inductance model
CMES	602.62	UF	Electrical capacitance representing moving mass
LCES	28.44	MH	Electrical inductance representing driver compliance
RES	88.53	OHM	Resistance due to mechanical losses
FS	38.4	HZ	Driver resonance frequency
MMS	243.392	G	Mechanical mass of driver diaphragm assembly including air load and coil
MMD	229.568	G	Mechanical mass of voice coil and diaphragm without air load
RMS	4.562	KG/S	Mechanical resistance of total driver losses
CMS	0.07	MM/N	Mechanical compliance of driver suspension
KMS	14.2	N/MM	Mechanical stiffness of driver suspension

Name	Value	Unit	Note
BL	20.096	N/A	Force factor BL product
LAMBDA	0.079		Suspension creep factor
QTP	0.682		Total Q factor considering all losses
QMS	12.889		Mechanical Q factor of driver in free air considering RMS only
QES	0.612		Electrical Q factor of driver in free air considering RE only
QTS	0.584		Total Q factor considering RE and RMS only
VAS	28.0884	|	Equivalent air volume of suspension
MQ	0.251	%	Ref. efficiency (2 PI radiation using RE)
LM	86.19	DB	Sound pressure level (SPL at 1M for 1W @ RE)
LMOM	85.97	DB	Nom. sensitivity (SPL at 1M for 1W @ ZN)
RMSE Z	3.9	%	Root mean square fitting error of driver impedance Z(F)
RMSE HX	3.38	%	Root mean square fitting error of transfer function HX(F)
SD	530.93	CM2	Diaphragm area
XMAX	26	mm	Total linear movement

Frequency VS impedance



TECHNICAL DRAWING

Total Diameter:	325 mm	Mounting Depth:	173 mm
Weight Approx. (Per a Driver):	11 Kg	Mounting Diameter:	285 mm