

## Tymphany LAT 500 Subwoofer



Type Number: LAT500-001

### Features:

Driver Highlights: The power of two 10" subwoofers in a sleek tube-shaped transducer only 5" wide.

Note: The nominal impedance is calculated with both coils driven in parallel.



### Specs: Preliminary

#### Electrical Data

Nominal impedance	Zn	4	ohm
Minimum impedance	Zmin	3.2	ohm
Maximum impedance	Zo	46	ohm
DC resistance	Re	3.1	ohm
Voice coil inductance	Le	1.5	mH

#### T-S Parameters

Resonance Frequency	fs	28	Hz
Mechanical Q factor	Qms	9	
Electrical Q factor	Qes	0.5	
Total Q factor	Qts	0.45	
Force factor	Bl	13	Tm
Mechanical resistance	Rms	3	Kg/s
Moving mass	Mms	160	g
Suspension compliance	Cms	0.21	mm/N
Effective cone diameter	D	25.9	cm
Effective piston area	Sd	525	cm <sup>2</sup>
Equivalent volume	Vas	81	ltrs
Sensitivity (2.83V/1m)		92	dB
Ratio BL/√(Re)		7.5	
Ratio fs/Qts	F	61	

#### Power handling

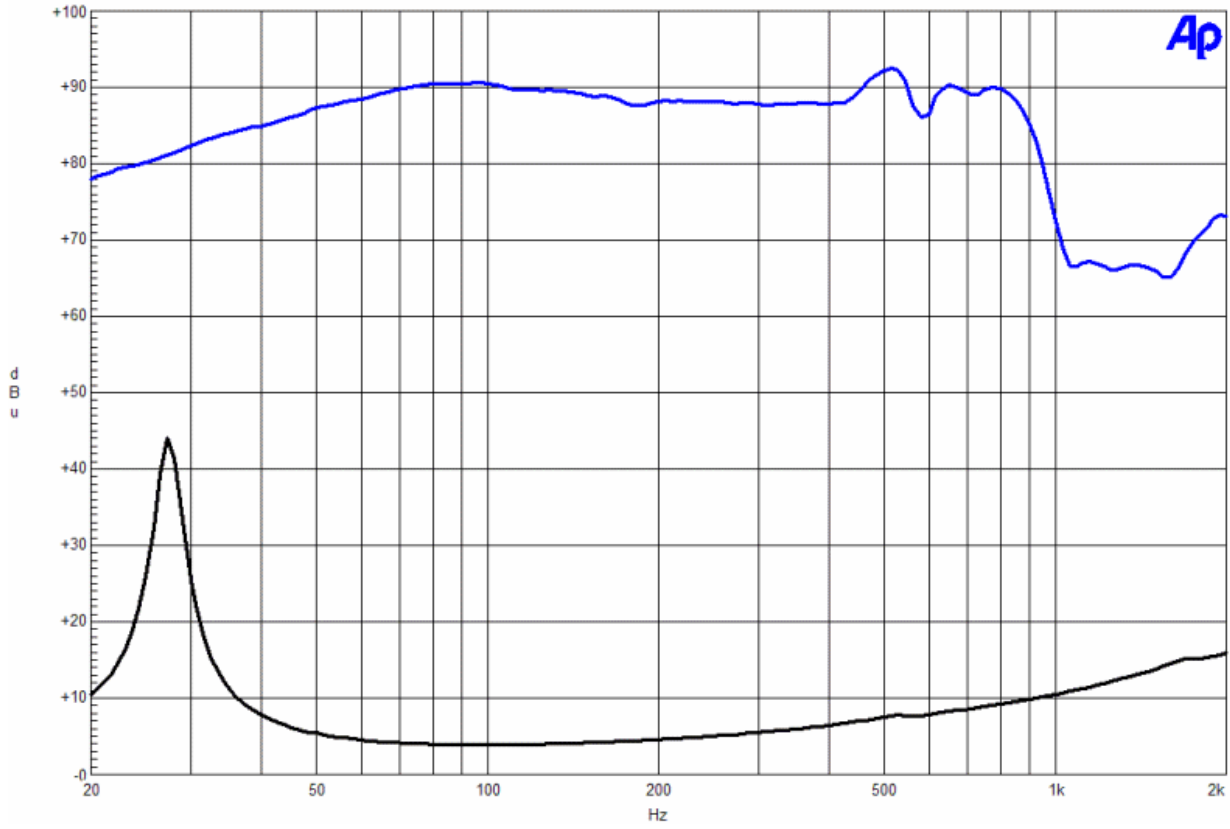
100h RMS noise test (IEC)	250	W
Long-term Max Power (IEC 18.3)	750	W

#### Voice Coil and Magnet Parameters

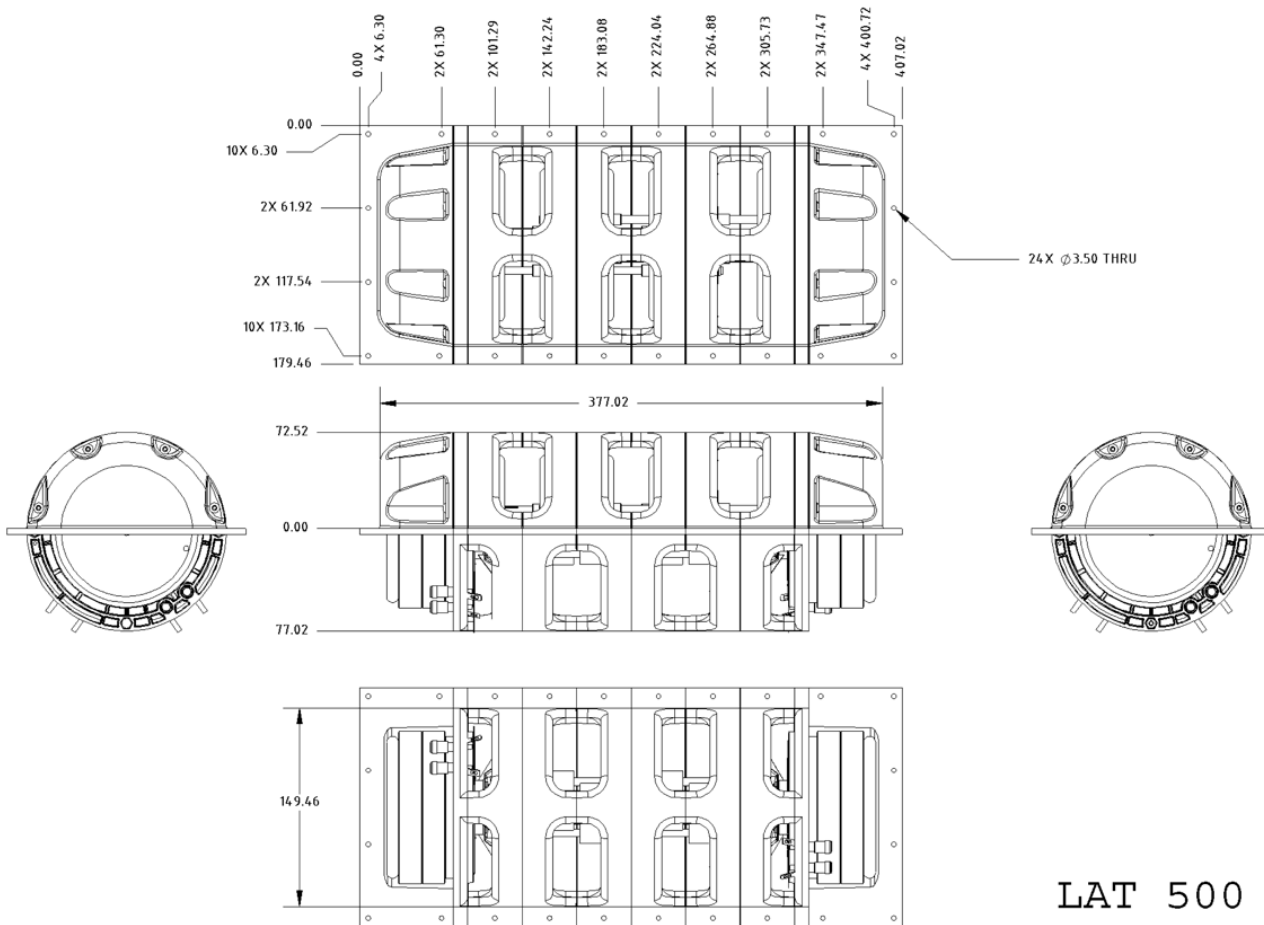
Voice coil diameter	38	mm
Voice coil height	21.3	mm
Voice coil layers	4	
Height of the gap	8	mm
Linear excursion +/-	6.7	mm
Max mech. excursion +/-	10	mm
Diameter of magnet	115	mm
Height of magnet	17.5	mm
Weight of magnet	2.72	Kg

Notes:  
IEC specs refer to IEC 60268-5 third edition.  
All Tymphany products are RoHS compliant.

Frequency: Preliminary LAT500-001



Mechanical Dimensions: LAT500-001



LAT 500