

TB 140

INTEGRATED TUBE HYBRID AMPLIFIER

DATA SHEET



Like the entire Kora amplifier range, the TB 140 is powered by the Square Tube® operational amplifier. Equipped with 4 triodes per channel, this innovative circuitry provides very unique musical qualities to the amplifier.

The Square Tube® provides all functions of amplification and control of the audio signal. Its output voltage is that which will be applied to the speaker outputs. Complementary power transistors, audio and hyper-linear will give the current required by the speakers, but without interfering in the amplification of the signal. Technicians call it "Impedance matching". The power transistors can be seen as the output transformer.

But the Square Tube® / Transistors combination does not face the limitation usually associated with the usual output transformers:

- *There are no phase shifts in the low frequencies,*
- *There are no phase shifts in the high frequencies,*
- *There is no bad coupling in the low frequencies and above all: no current limitation!*

The combination of the high voltage capacitance of the Square Tube® and the high current of the output transistors gives you a very high definition power amplifier.

→ *The tubes give the smoothness, the transistors give the unrestrained energy.*

→ *Square Tube® brings phase accuracy and will extract a wealth of unsuspected detail from your sources with natural dynamics.*

→ *At last but not least, the amplifier is very stable, even with complex loads.*

General characteristics

Overall dimension	118 x 420 x 370 mm	Materials	Aluminium and steel
Chassis size only	100 x 420 x 340 mm	Finish	Mineral grey
Unit weight	9,5 kg	Accessories	Power chord, instructions
Manufacturer's warranty	5 years	Construction & design	Toulouse, Occitania region, France

Electronic features

Power supply	IEC 230 V AC socket +7% ~ -10% (117V AC on request)	Maximum power input (2 x 100 W / 4Ω): 310 VA Maximum power consumption (2 x 70 W / 8Ω): 210 W
Internal power supply	2 x (± 44V DC)	Dual power supply
Power supply transformer	300 VA toroidal transformer	Two 10 VA power transformers (auxiliary voltage)
Main filtering	2 x 44 000 μF	
High voltage	+ 250 V stabilised - 165 V stabilised	
Input tube heater	2 x 12V DC	Regulated and grounded voltages
Output tube heating	2 x 12V AC	Isolated regulated voltages
Output power	2 x 70 W / 8Ω 2 x 100 W / 4Ω	
Output power distribution	4 complementary highly linear power transistors "ON SEMI"® (225 W / 15 A each)	
Inputs	<ul style="list-style-type: none"> - Phono MM, input impedance: 47 kΩ - 4 line inputs, input impedance: 15 kΩ - Pre-out, output impedance: 2 kΩ 	<ul style="list-style-type: none"> - Sensitivity: 4 mV, RIAA curve - Sensitivity: 1V - After the volume setting
Bandwidth	20 Hz ~ 20 000 Hz	± 1 dB
Internal impedance	Output: < 0.08 Ω	

