



## TUBE HYBRID AMPLIFIER

## TB400



Like the entire range of Kora amplifiers, the TB400 is powered by the Square Tube® operational amplifier. Equipped with 4 triodes per channel, this innovative assembling gives all its qualities to the amplifier.

SquareTube® provides every amplification functions. Its output voltage is the one that will be applied to the speaker outputs. Audio power transistors, exceptionally linear, are the only ones to provide what technicians call "impedance matching". The transistors will give the speakers the required current, without amplifying the signal. Their role is somewhat the same as the one generally assigned to the output transformer.

However, the SquareTube® / Transistors combination does not know the difficulties associated with the usual transformers:

- no phase shifts on low frequencies,
- no phase shifts on high frequencies,
- no bad coupling on low end,
- and above all: no current limitation!

The combination of SquareTube®'s high voltage capacity and the high current of the output transistors gives you an unmatched high definition power amplifier.

- The tubes give you softness, the transistors offer you unrestrained energy
- SquareTube® offers phase accuracy and will reveal an abundance of unsuspected details from your sources with natural dynamics.

### GENERAL FEATURES:

<b>Overall dimension</b>	168 x 420 x 450 mm
<b>Box size only</b>	150 x 420 x 420 mm
<b>Unit weight</b>	23,6 kg
<b>Manufacturer warranty</b>	5 years
<b>Materiel</b>	Aluminium & steel
<b>Colour</b>	Mineral grey
<b>Accessoires</b>	Remote control, power supply cord, instruction manual
<b>Construction &amp; design</b>	Toulouse, Occitanie region, France

**ELECTRONIC FEATURES:**

<b>Power source</b>	CEI plug 230 V AC +7% ~ -10% (117 V AC on demand)	Maximum power consumption (2 x 360 W/4 Ω): 1010 VA Maximum power consumption (2 x 200 W/8 Ω): 610 W
<b>Internal power supply</b>	2 x (± 58 V DC)	Double power supply
<b>Power supply transformer</b>	2 x 500 VA	Additional voltage provided by 5 DC/DC modules and two linear controllers
<b>Main filtering</b>	2x 100 000 μF	
<b>High voltage</b>	+ 300 V stabilized - 200 V stabilized	
<b>Heating of the inlet tubes</b>	2 x 12 V DC	Regulated and ground referenced voltages
<b>Heating of the outlet tubes</b>	2 x 12 V DC	Isolated DC regulated voltages
<b>Power output</b>	2 x 200 W/8 Ω 2 x 360 W/4 Ω	
<b>Power output distribution</b>	Output power distribution made by twenty complementary highly linear - power transistors «MOTOROLA®» (225 W/15 A each)	
<b>inputs</b>	- 4 entry lines, internal impedance: 15 kΩ	Sensibility : 1 V
<b>Passband</b>	20 Hz ~ 20 000 Hz	± 1 dB
<b>Internal impedance</b>	Output: < 0.08 Ω	