



## TUBE HYBRID AMPLIFIER

## TB140



Like the entire range of Kora amplifiers, the TB140 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.
- The amplifier is highly stable, even on complex loads.

### GENERAL FEATURES:

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| <b>Overall dimension</b>         | 118 x 420 x 370 mm                                    |
| <b>Box size only</b>             | 100 x 420 x 340 mm                                    |
| <b>Unit weight</b>               | 9,5 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<br>230 V AC<br>+7% ~ -10%<br>(117 V AC on demand)                                                                 | Maximum power consumption<br>(2 x 100 W/4 Ω) : 310 VA<br>Maximum power consumption<br>(2 x 70 W/8 Ω): 210 W |
| <b>Internal power supply</b>       | 2 x (± 44 V DC)                                                                                                            | Double power supply                                                                                         |
| <b>Power supply transformer</b>    | 300 VA toroidal transformer                                                                                                | Two 10 VA power transformers<br>(auxiliary voltages)                                                        |
| <b>Main filtering</b>              | 2 x 44 000 μF                                                                                                              |                                                                                                             |
| <b>High voltage</b>                | + 250 V stabilized<br>- 165 V stabilized                                                                                   |                                                                                                             |
| <b>Heating of the inlet tubes</b>  | 2 x 12 V DC                                                                                                                | Regulated and ground<br>referenced voltages                                                                 |
| <b>Heating of the outlet tubes</b> | 2 x 12 V AC                                                                                                                | Isolated AC regulated voltages                                                                              |
| <b>Power output</b>                | 2 x 70 W/8 Ω<br>2 x 100 W/4 Ω                                                                                              |                                                                                                             |
| <b>Power output distribution</b>   | Output power distribution made by four complementary highly linear power transistors «MOTOROLA®» (225 W/15 A each)         |                                                                                                             |
| <b>Inputs</b>                      | - Phono MM,<br>internal impedance: 47 kΩ<br>- 4 entry lines,<br>internal impedance: 15 kΩ<br>- Pre-out,<br>impedance: 2 kΩ | Sensibility: 4 mV, RIAA Correction<br><br>Sensibility: 1 V<br><br>After volume adjustment                   |
| <b>Passband</b>                    | 20 Hz ~ 20 000 Hz                                                                                                          | ± 1 dB                                                                                                      |
| <b>Internal impedance</b>          | Output: < 0.08 Ω                                                                                                           |                                                                                                             |