FOCAL tweeters of the latest generation are all fitted with a diaphragm in the shape of a inverted dome made of KEVLAR fiber. The dome, 30 mm in diameter, is coupled with a 20 mm voice coil, fastened in its center. This original lay-out is the only one to guarantee an excellent mechanical coupling as well as outstanding space distribution. FOCAL tweeters exhibit a quasi-constant acoustic energy over a radiating semi-circle, at every frequency. Moreover, the response curve is kept when one switches from 1 to 3 m distance, quite an uncommon feature for conventional domes. The KEVLAR cap is associated with an ultrathin surround made of coated foam for a perfect decoupling of the frame. The thickness of the front panel, out of antivibratory material, is no less than 4.5 mm. It is necessary to embed these tweeters in the box using a 5 mm rabbot.

All FOCAL tweeters exhibit a high output and are animated by enormous magnets (total weight from 0.5 to 1.9 kg), providing fantastic accelerations. The 90K and 120K differ by their respective outputs and by a lower limitation of use fixed at 2 kHz and 3 kHz respectively. The 122K differs from the 120K by a decompression of the pole piece and the inner cavity of the magnet, as well as a damper at the rear of the dome. The 122K can be used at a very low frequency, as from 1.5 kHz.

Finally, the 130K is basically a 122K with its inner decompressions, which has been added a second magnet at the rear and, at the front, two acoustic impedance regulating units in the shape of a quarter sphere. The power handling is enhanced and the response curve becomes ultra-linear as from 4 kHz.

| SPECIFICATIONS                  | T 90 K | T 120 K | T 122 K | T 130 K | PARAMETERS                  | T 90 K | T 120 K | T 122 K | T 130 K |
|---------------------------------|--------|---------|---------|---------|-----------------------------|--------|---------|---------|---------|-----------------------------|--------|---------|---------|---------|
| Rated power handling            | 10 / 75 | 10 / 100 | 10 / 100 | 10 / 100 | Fs (Hz)                    | 896    | 647    | 412    | 600    |
| Nominal / program (W)           |        |         |         |         | Vos (m³)                    | -      | -      | -      | -      |
| Voice coil                      |        |         |         |         | Qts                         | 0.88   | 0.47   | 0.29   | 0.43   |
| Diameter / length (mm)          | 20 / 2.2 | 20 / 2.2 | 20 / 2.2 | 20 / 2.2 | Qes                         | 1.16   | 0.57   | 0.36   | 0.55   |
| Nominal / mini impedance (Ω)    | 8 / 7.5 | 8 / 7.5 | 8 / 7.5 | 8 / 7.5 | Qms                         | 3.70   | 2.65   | 1.56   | 2.29   |
| DC resistance (Ω)               | 6       | 6       | 6       | 6       | Zmax (Ω)                    | 31     | 32     | 20.2   | 25     |
| Inductance (mH)                 | 0.08    | 0.09    | 0.09    | 0.09    | Xmax (mm)                   | -      | -      | -      | -      |
| Former                          | Aluminium | Aluminium | Aluminium | Aluminium | Sd (m²)                     | -      | -      | -      | -      |
| Layers                          | 2       | 2       | 2       | 2       | Vd (cm²)                    | -      | -      | -      | -      |
| Wire                            | Copper  | Copper  | Copper  | Copper  | Cms (m/N) x 10⁻⁶            | 0.27   | 0.27   | 0.27   | 0.27   |
| Cone                            | Kevlar  | Kevlar  | Kevlar  | Kevlar  | Mms (kg)                    | -      | -      | -      | -      |
| Surround                        | Coat foam | Coat foam | Coat foam | Coat foam | Rms (kg/s)                  | -      | -      | -      | -      |
| Magnet                          | 72      | 96      | 96      | 96      | Bi (N/A)                    | 2.8    | 3.4    | 3.4    | 3.4    |
| Diameter (mm)                   |         |         |         |         | T (mS² A⁻¹)                 | 10340  | 12690  | 12690  | 12690  |
| Weight (g)                      | 250     | 700     | 700     | 1000    | N (%)                       | -      | -      | -      | -      |
| Flux density (T)                | 1.45    | 1.85    | 1.85    | 1.88    | NO (dB/W/1m)                | -      | -      | -      | -      |
| Air gap volume (cm³)            | 0.084   | 0.084   | 0.084   | 0.084   | -                           | -      | -      | -      | -      |
| Sensitivity                     | 92      | 93      | 93.5    | 95      | -                           | -      | -      | -      | -      |
| Nominal / > 200 Hz (dB)         | 0.55    | 1.33    | 1.31    | 1.85    | -                           | -      | -      | -      | -      |
| Net weight (kg)                 |        |         |         |         | -                           | -      | -      | -      | -      |