



# H 297

## 25 TNF/T H 297, 1" High Fidelity Dome Tweeter

*Chassis: magnesium, injection moulded, black.*

*Decoration insert: foam, dark grey.*

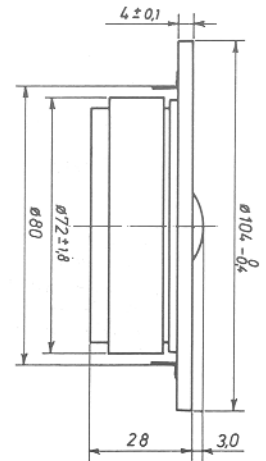
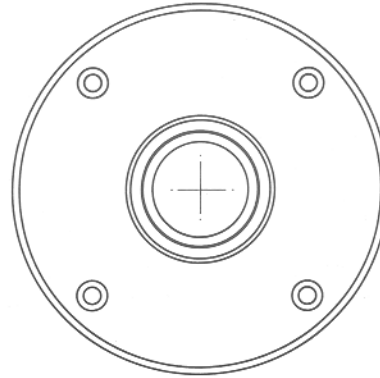
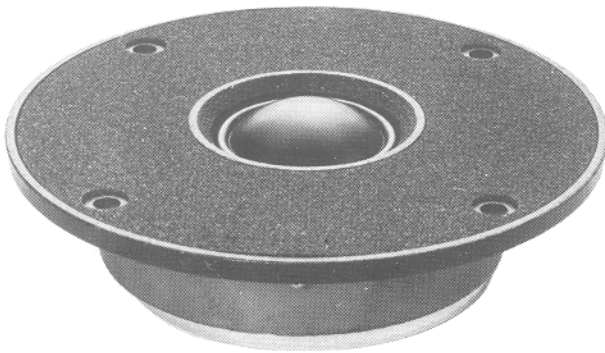
*Diaphragm: soft dome, polyamide, black.*

*Mounting holes: 4 x 4 mm, equispaced on PCD 88 mm*

The H 297 is a 1" dome tweeter featuring high efficiency and smooth response in its operating range. With proper filtering the H 297 can be used in two way systems with more than 80 W power handling capacity. The soft diaphragm is vacuum formed from a high loss plastic foil with a shape optimized for the high frequency range.

The addition of magnetic oil (ferro fluid) to the voice coil gap, measurably improves the performance. The short term power handling capacity is considerably in-

creased, the Q value at resonance is significantly reduced simplifying crossover design and the compression at high power levels is reduced. The sturdy moulded magnesium alloy chassis and custom foam trim ring not only contribute to the attractive appearance, but actually improve the overall performance. The chassis is available in black or silver finish and the foam trim is readily customized with your choice of colour and printing.



### Technical data:

**6 ohms**

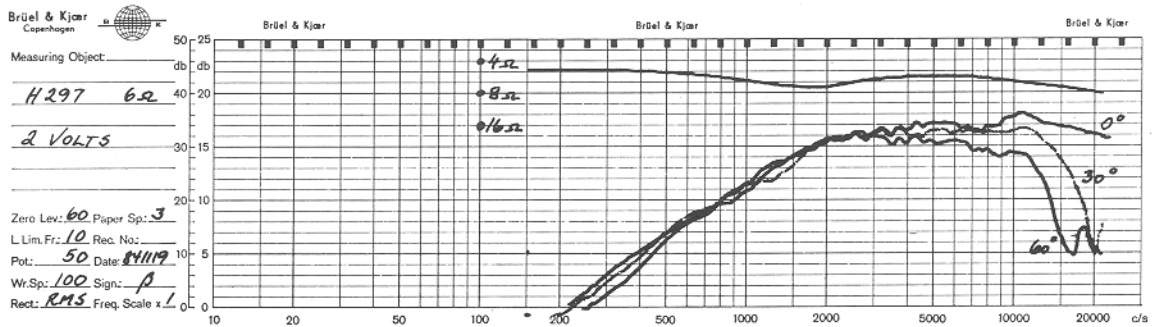
|   |             |        |                          |      |                 |
|---|-------------|--------|--------------------------|------|-----------------|
| Recommended frequency range                                   | 3000-25 000 | Hz     | Voice coil resistance:   | 4,8  | ohms            |
| Nominal power (DIN 45573)                                     | 80          | W 1)   | Effective diaphragm area | 7    | cm <sup>2</sup> |
| Music power (DIN 45500)                                       | -           | W      | Moving mass              | 0,3  | g               |
| Characteristic sensitivity (I <sub>m</sub> , I <sub>w</sub> ) | 90          | dB SPL | Free air resonance       | 1400 | Hz              |
| Operating power (DIN 45500):                                  | 4,0         | W      | Weight                   | 0,56 | kg              |
| Voice coil diameter   | 26          | mm     | Magnet weight            | 0,25 | kg              |
| Voice coil height   | 1,5         | mm     |                          |      |                 |
| Air gap height  | 2,0         | mm     |                          |      |                 |
| Flux density:   | 1,8         | T      |                          |      |                 |
| Force factor  | 3,5         | Wb/m   |                          |      |                 |

1) Crossover frequency 3500 Hz, 12 dB/oct.

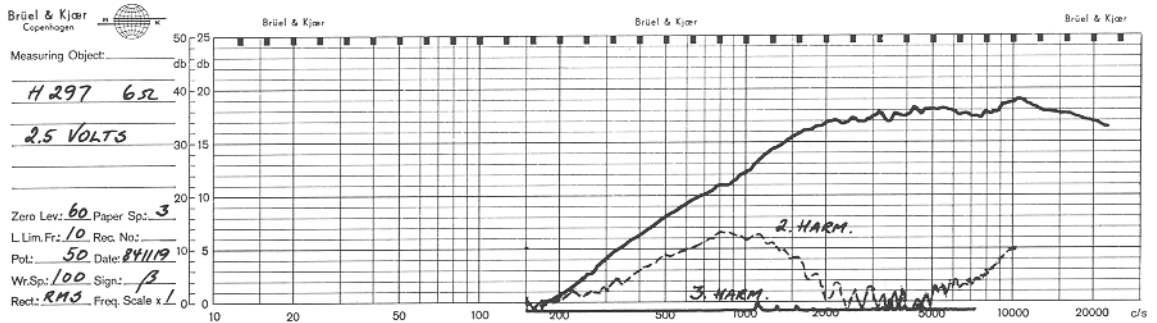
### NOTES:

Response curves recorded in anechoic chamber (Free-Field,  $4\pi$ -radiation) with 0.5 m microphone distance. The loudspeaker is mounted in a 0.6 m by 0.8 m baffle:

A Sound pressure on and off axis, and impedance:

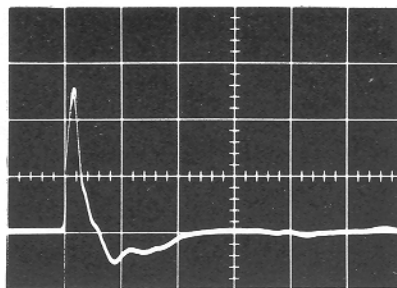


B Sound pressure and distortion on axis. The distortion components are raised by 20 dB:



C Sound pressure response to 4 Volts step function:

Sound  
pressure  
0.56 Pa/div



0.2 ms/div Time →

**seas**

Seas Fabrikker a.s  
P.O.Box 600, Høyden, N-1501 Moss, Norway  
Phone +47-32-65 811  
Telex N 18419

Note: New telex no. 78419 SEAS N from June 20. 1985