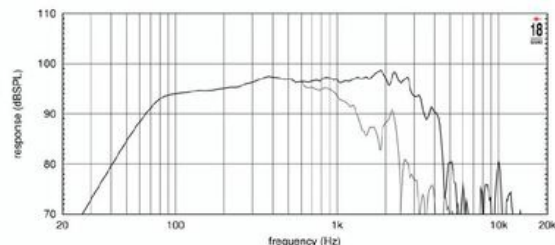




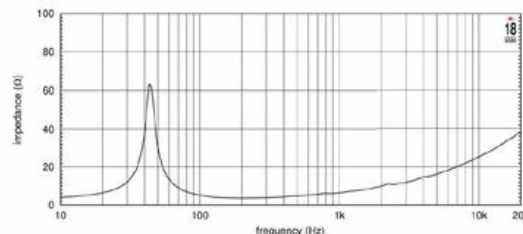
- 98 dB SPL 1W / 1m average sensitivity
- 75 mm (3 in) edgewound voice coil (ISV)
- 450 WAES power handling
- Neodymium magnet assembly
- Weather protected cone for outdoor usage
- Ideal for compact reflex subwoofer and reflex multiway systems

The 15ND830 is a high power, high output, low frequency woofer meeting the most stringent requirements in high quality professional transducers. Thanks to its versatility, the 15ND830 can be used in 2-way compact reflex enclosures and reflex / band pass subwoofers. The neodymium magnet assembly assures high flux concentration, low power compression and excellent heat exchange, since the external magnet configuration is considerably more efficient than traditional under-pole magnet topology. This results in high levels of force factor and power handling with an optimum power to weight ratio. The direct contact between the heat sink and basket, together with the magnetic structure, represents a fundamental improvement in thermal connection and heat dissipation. Hence, power handling capabilities are increased and power compression lowered. The deep profile curvilinear cone, created from a special high strength wood pulp, has been designed to achieve the best possible linearity within its frequency range. The cone surround made from a linen material is highly resistant to aging and fatigue. The in-house developed cone treatment is fully water repellent and also gives a significant degree of rigidity to the cone. The 75mm Interleaved Sandwich Voice coil (ISV) assembly is wound on a strong fiberglass former which improves force transmission and thermal power handling. A special coating applied to both the top and back plates makes the 15ND830 far more resistant to the corrosive effects of salts and oxidization.

FREQUENCY RESPONSE MADE IN 125 L.T. ENCLOSURE TUNED AT 50 Hz IN FREE FIELD (H) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER, THE THIN LINE REPRESENTS 45° OFF AXIS FREQUENCY RESPONSE.



FREE AIR IMPEDANCE CURVE



### SPECIFICATIONS

|                                        |                |
|----------------------------------------|----------------|
| Nominal Diameter                       | 380 mm ( in)   |
| Nominal Impedance                      | 4 Ω            |
| Minimum Impedance                      | 3.6 Ω          |
| Nominal Power Handling <sup>1</sup>    | 450 W          |
| Continuous Power Handling <sup>2</sup> | 700 W          |
| Sensitivity <sup>3</sup>               | 98.0 dB        |
| Frequency Range                        | 42 - 4500 Hz   |
| Voice Coil Diameter                    | 75 mm (3.0 in) |
| Winding Material                       | aluminum       |

### DESIGN

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Surround Shape        | M-roll                                        |
| Cone Shape            | Curvilinear                                   |
| Magnet Material       | Neo                                           |
| Woofer Cone Treatment | Weather protected                             |
| Recommended Enclosure | 110.0 dm <sup>3</sup> (3.88 ft <sup>3</sup> ) |
| Recommended Tuning    | 45 Hz                                         |

### PARAMETERS<sup>4</sup>

|                     |                                                 |
|---------------------|-------------------------------------------------|
| Resonance Frequency | 42 Hz                                           |
| Re                  | 3.0 Ω                                           |
| Qes                 | 0.36                                            |
| Qms                 | 7.2                                             |
| Qts                 | 0.34                                            |
| Vas                 | 157.0 dm <sup>3</sup> (5.54 ft <sup>3</sup> )   |
| Sd                  | 850.0 cm <sup>2</sup> (131.75 in <sup>2</sup> ) |
| Xmax                | 6.5 mm                                          |
| Mms                 | 85.0 g                                          |
| Bl                  | 14.0 Txm                                        |
| Le                  | 0.62 mH                                         |
| EBP                 | 116 Hz                                          |

### MOUNTING AND SHIPPING INFO

|                             |                                          |
|-----------------------------|------------------------------------------|
| Overall Diameter            | 387 mm (15.24 in)                        |
| Bolt Circle Diameter        | 370 mm (14.57 in)                        |
| Baffle Cutout Diameter      | 353.0 mm (13.9 in)                       |
| Depth                       | 177 mm (6.97 in)                         |
| Flange and Gasket Thickness | 11 mm (0.43 in)                          |
| Net Weight                  | 4.6 kg (10.14 lb)                        |
| Shipping Weight             | 5.6 kg (12.35 lb)                        |
| Shipping Box                | 405 x 405 x 214 mm (15.94x15.94x8.43 in) |

1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.