

**18DS115** 8 Ω**Subwoofer**

- 3400 W continuous program power capacity
- 116 mm (4.5 in) four layer aluminum voice coil
- 30 - 500 Hz response
- 98 dB sensitivity
- Excursion optimized lead wires (woven through spider)
- Double silicone spider with optimized compliance
- Ventilated voice coil gap for reduced power compression
- Aluminium demodulating ring for very low distortion

This next evolution subwoofer uses a new, longer, four layer aluminum voice coil. The result is more energy in the gap, less heat, higher sensitivity, higher power handling, lower distortion and better overall performance. The 18DS115 features a 40mm long, 4.5 inch diameter (116mm) Copper Clad Aluminum Wire voice coil. With a 1700watt AES power rating, 98 dB sensitivity, and over 14.0mm of Xvar, this high energy subwoofer is a significant step forward from similar models in the B&C range.



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# Subwoofer

## SPECIFICATIONS

|                                                                                                                                                     |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Nominal Diameter                                                                                                                                    | <b>460 mm (18 in)</b>            |
| Nominal Impedance                                                                                                                                   | <b>8 Ω</b>                       |
| Minimum Impedance                                                                                                                                   | <b>7 Ω</b>                       |
| Nominal Power Handling                                                                                                                              | <b>1700 W</b>                    |
| 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air. |                                  |
| Continuous Power Handling                                                                                                                           | <b>3400 W</b>                    |
| Power on Continuous Program is defined as 3 dB greater than the Nominal rating.                                                                     |                                  |
| Sensitivity                                                                                                                                         | <b>98 dB</b>                     |
| Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.                                                                                  |                                  |
| Frequency Range                                                                                                                                     | <b>30 Hz - 500 Hz</b>            |
| Voice Coil Diameter                                                                                                                                 | <b>116 mm (4.5 in)</b>           |
| Winding Material                                                                                                                                    | <b>Aluminium</b>                 |
| Former Material                                                                                                                                     | <b>Glass Fibre</b>               |
| Winding Depth                                                                                                                                       | <b>40 mm (1.57 in)</b>           |
| Magnetic Gap Depth                                                                                                                                  | <b>14 mm (0.55 in)</b>           |
| Flux Density                                                                                                                                        | <b>0.8 T</b>                     |
| Woofer Cone Treatment                                                                                                                               | <b>TWP Waterproof Both Sides</b> |

## PARAMETERS

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

|                  |                                                    |
|------------------|----------------------------------------------------|
| Fs               | <b>30 Hz</b>                                       |
| Re               | <b>5 Ω</b>                                         |
| Qes              | <b>0.21</b>                                        |
| Qms              | <b>4.3</b>                                         |
| Qts              | <b>0.2</b>                                         |
| Vas              | <b>168 dm<sup>3</sup> (5.93 ft<sup>3</sup>)</b>    |
| Sd               | <b>1210 cm<sup>2</sup> (187.55 in<sup>2</sup>)</b> |
| η <sub>0</sub>   | <b>2.2 %</b>                                       |
| X <sub>max</sub> | <b>16.5 mm</b>                                     |
| X <sub>var</sub> | <b>14 mm</b>                                       |
| M <sub>ms</sub>  | <b>330 g</b>                                       |
| Bl               | <b>39 Tm</b>                                       |
| Le               | <b>3.85 mH</b>                                     |
| EBP              | <b>143 Hz</b>                                      |

## DESIGN

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Surround Shape        | <b>Triple Roll</b>                              |
| Cone Shape            | <b>Radial</b>                                   |
| Magnet Material       | <b>Neodymium Inside Slug</b>                    |
| Spider                | <b>Double Silicone</b>                          |
| Pole Design           | <b>T-Pole</b>                                   |
| Woofer Cone Treatment | <b>TWP Waterproof Both Sides</b>                |
| Recommended Enclosure | <b>100 dm<sup>3</sup> (3.53 ft<sup>3</sup>)</b> |
| Recommended Tuning    | <b>40 Hz</b>                                    |

## MOUNTING AND SHIPPING INFO

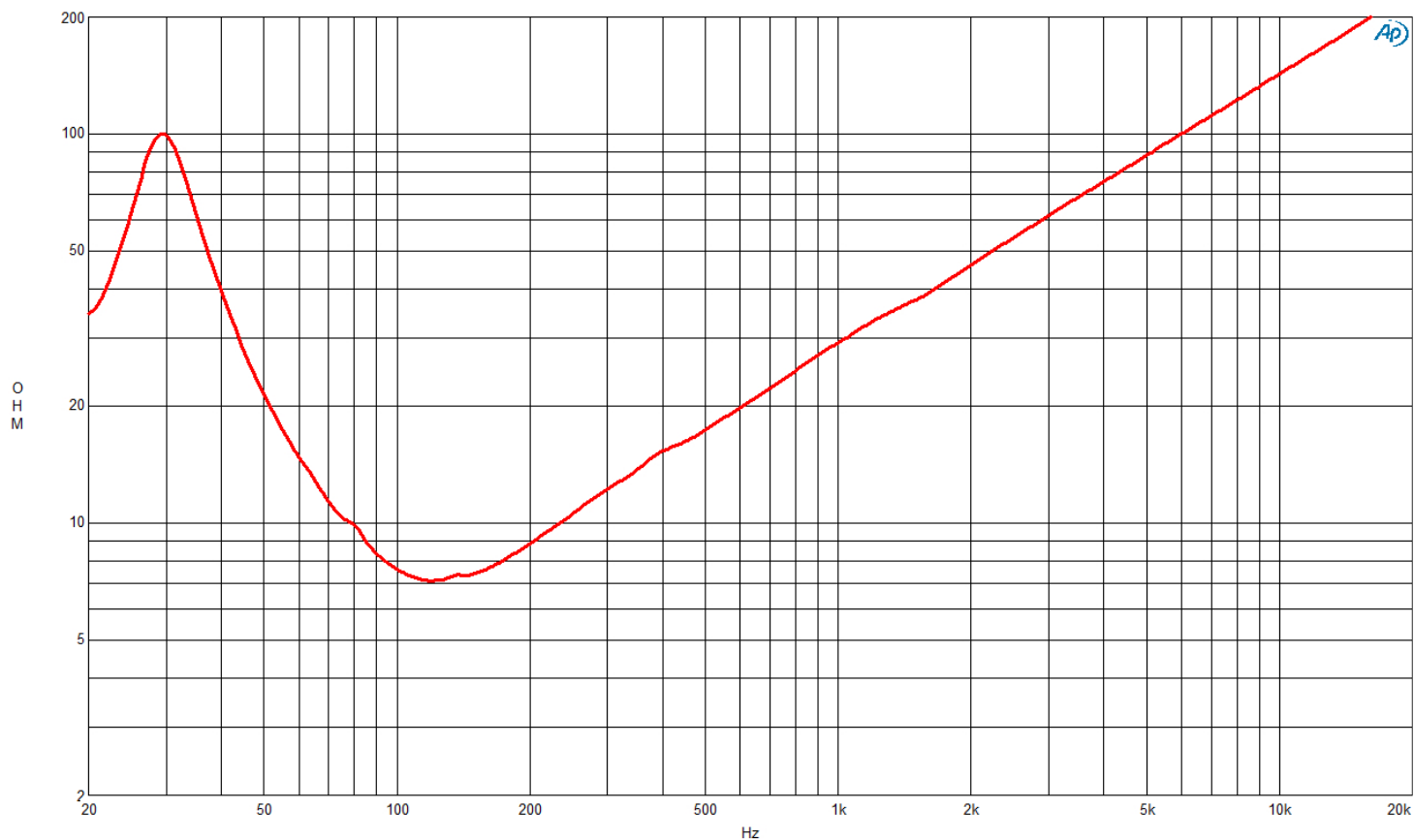
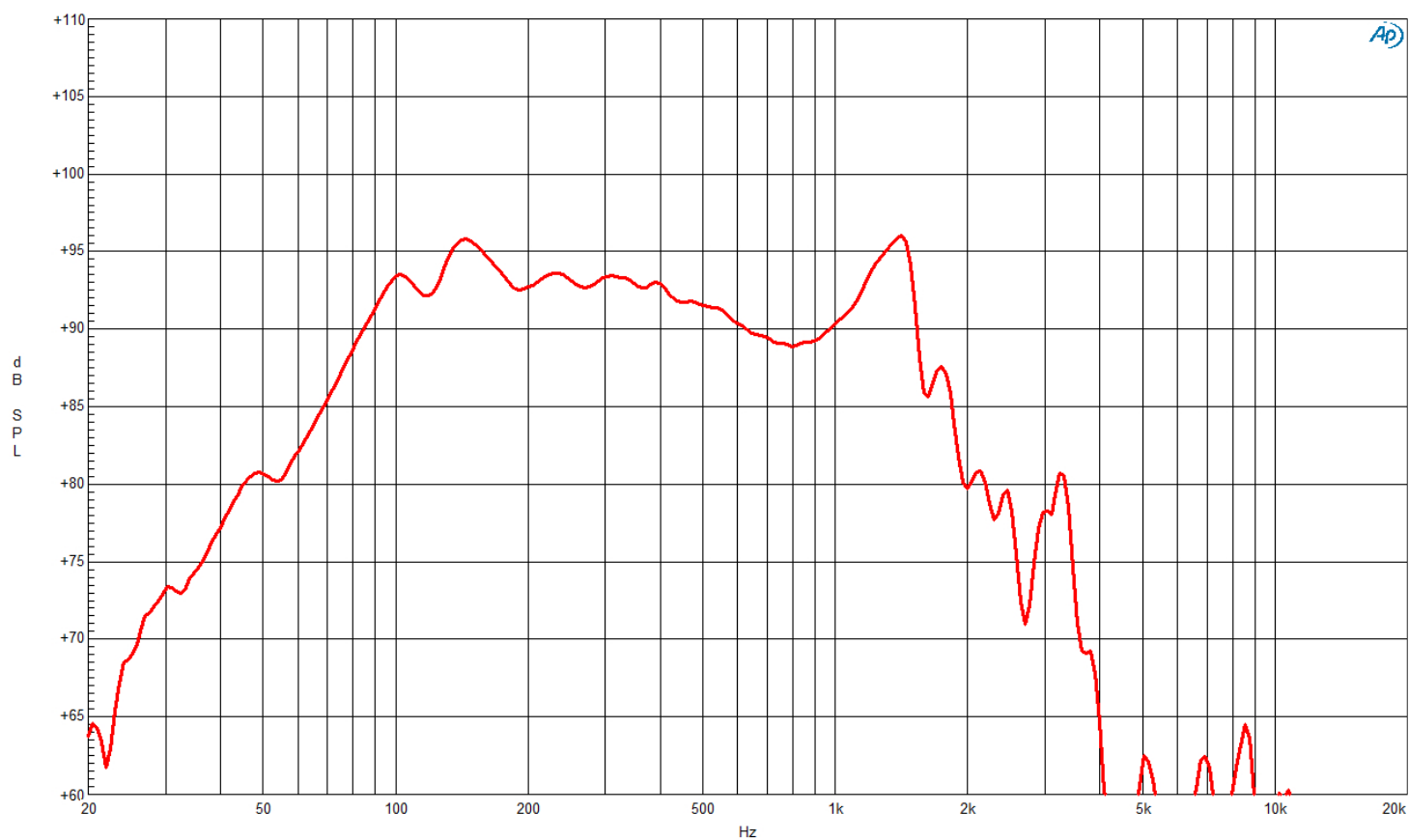
|                               |                                                |
|-------------------------------|------------------------------------------------|
| Overall Diameter              | <b>460 mm (18 in)</b>                          |
| Bolt Circle Diameter          | <b>442 mm (17.4 in)</b>                        |
| Baffle Cutout Diameter        | <b>425 mm (16.73 in)</b>                       |
| Depth                         | <b>248 mm (9.76 in)</b>                        |
| Flange and Gasket Thickness   | <b>16 mm (0.63 in)</b>                         |
| Air Volume Occupied by Driver | <b>10 dm<sup>3</sup> (0.35 ft<sup>3</sup>)</b> |
| Net Weight                    | <b>12.55 kg (27.67 lb)</b>                     |
| Shipping Units                | <b>1 pcs</b>                                   |
| Shipping Weight               | <b>14.15 kg (31.2 lb)</b>                      |
| Shipping Box                  | <b>500x495x275 mm (19.69x19.49x10.83 in)</b>   |

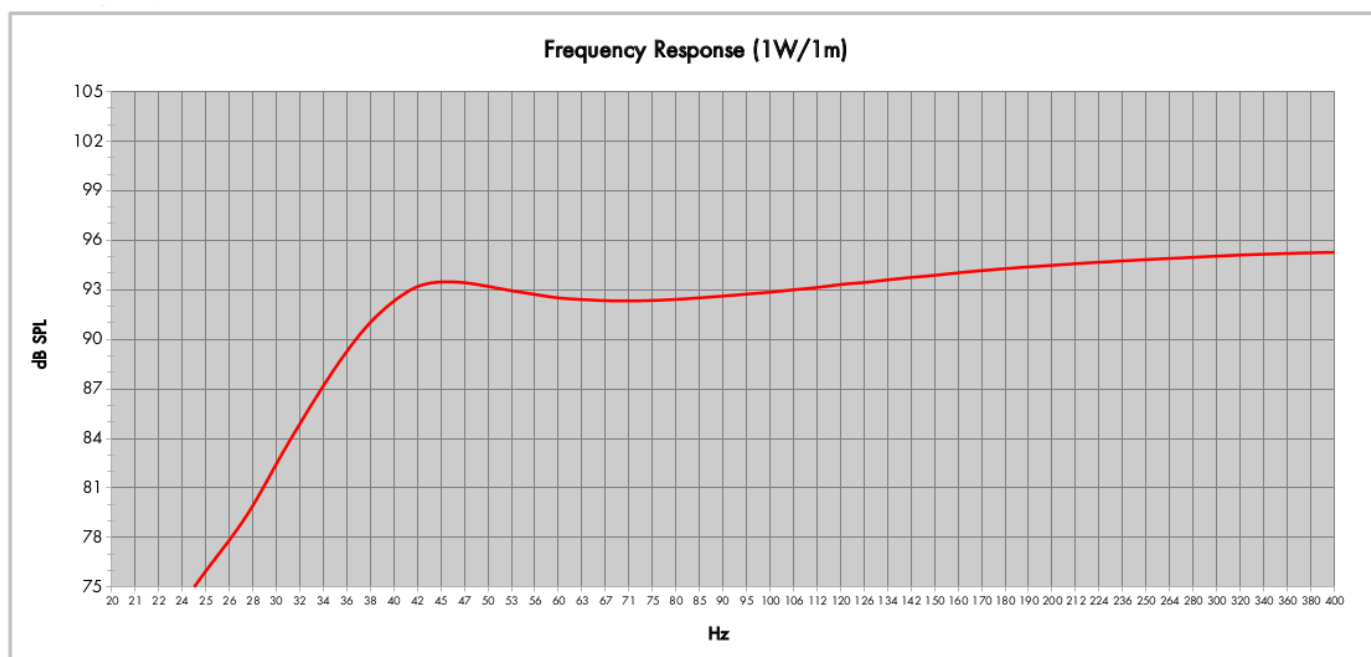
## SERVICE KITS

|                |                    |
|----------------|--------------------|
| LF recone-kits | <b>RCK18DS1158</b> |
|----------------|--------------------|

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|                               |                    |                               |                   |
|-------------------------------|--------------------|-------------------------------|-------------------|
| Model:                        | <b>18DS115</b>     |                               |                   |
| Enclosure Type:               | <b>Bass Reflex</b> | Configuration:                | <b>One Driver</b> |
| Internal Net Volume (Litres): | <b>100</b>         | QB:                           | <b>7</b>          |
| Tuning Frequency (Hz):        | <b>40</b>          | Port Area (cm <sup>2</sup> ): | <b>200,0</b>      |
| Frequency (-3 dB) (Hz):       | <b>40,8</b>        | Port Length (cm):             | <b>23,7</b>       |
| Frequency (-10 dB) (Hz):      | <b>32,6</b>        |                               |                   |

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