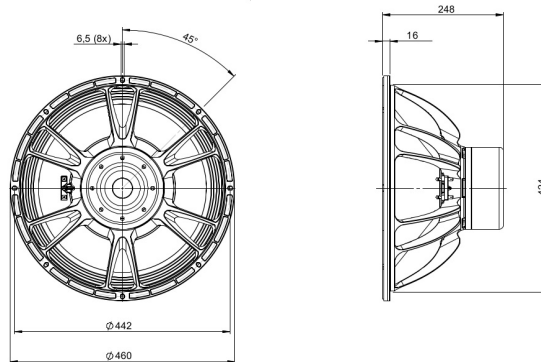


# 18DS115

**4Ω****LF Drivers - 18.0 Inches**

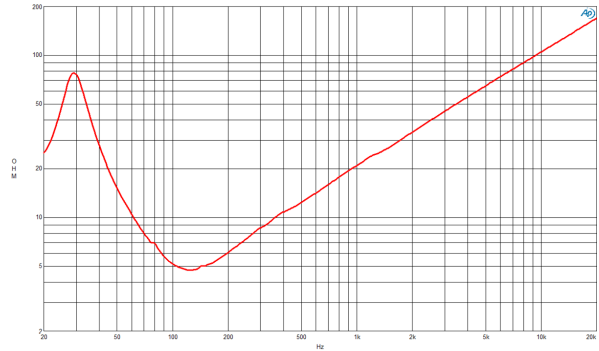
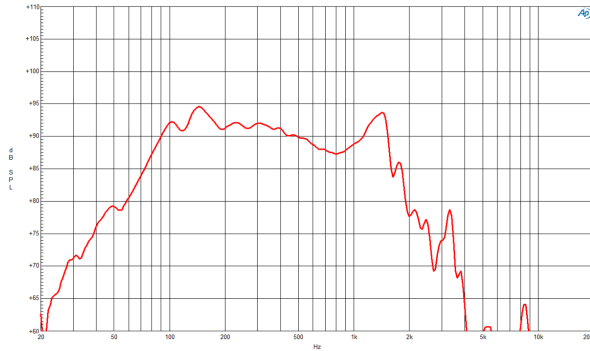
- 3400 W continuous program power capacity
- 116 mm (4.5 in) four layer aluminum voice coil
- 30 - 500 Hz response
- 97 dB sensitivity
- Double silicone spider with optimized compliance
- Ventilated voice coil gap for reduced power compression
- Aluminium demodulating ring for very low distortion



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, 97 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.

# 18DS115

LF Drivers- 18.0 Inches



## SPECIFICATIONS

|  |                   |
|--|-------------------|
| Nominal Diameter                       | 460 mm (18.0 in)  |
| Nominal Impedance                      | 4 Ω               |
| Minimum Impedance                      | 4.5 Ω             |
| Nominal Power Handling <sup>1</sup>    | 1700 W            |
| Continuous Power Handling <sup>2</sup> | 3400 W            |
| Sensitivity <sup>3</sup>               | 97.0 dB           |
| Frequency Range                        | 30 - 500 Hz       |
| Voice Coil Diameter                    | 116 mm (4.5 in)   |
| Winding Material                       | Aluminium         |
| Former Material                        | Glass Fibre       |
| Winding Depth                          | 40.0 mm (1.57 in) |
| Magnetic Gap Depth                     | 14.0 mm (0.55 in) |
| Flux Density                           | 0.8 T             |

## DESIGN

|                       |   |
|-----------------------|---|
| Surround Shape        | Triple Roll                                   |
| Cone Shape            | Radial  |
| Magnet Material       | Neodymium Inside Slug                         |
| Spider                | Double Silicone                               |
| Pole Design           | T-Pole  |
| Woofer Cone Treatment | TWP Waterproof Both Sides                     |
| Recommended Enclosure | 100.0 dm <sup>3</sup> (3.53 ft <sup>3</sup> ) |
| Recommended Tuning    | 40 Hz   |

## PARAMETERS<sup>4</sup>

|                     |  |
|---------------------|--|
| Resonance Frequency | 30 Hz  |
| Re                  | 3.3 Ω  |
| Qes                 | 0.18   |
| Qms                 | 4.75   |
| Qts                 | 0.17   |
| Vas                 | 177.0 dm <sup>3</sup> (6.25 ft <sup>3</sup> )    |
| Sd                  | 1210.0 cm <sup>2</sup> (187.55 in <sup>2</sup> ) |
| η <sub>o</sub>      | 2.3 %  |
| X <sub>max</sub>    | ± 16.5 mm  |
| X <sub>var</sub>    | ± 14.0 mm  |
| M <sub>ms</sub>     | 348.0 g  |
| Bl                  | 34.0 Txm   |
| Le                  | 2.8 mH   |
| EBP                 | 166 Hz   |

## MOUNTING AND SHIPPING INFO

|                             |  |
|-----------------------------|--|
| Overall Diameter            | 460 mm (18.11 in)                            |
| Bolt Circle Diameter        | 440 mm (17.32 in)                            |
| Baffle Cutout Diameter      | 422.0 mm (16.61 in)                          |
| Depth                       | 248 mm (9.76 in)                             |
| Flange and Gasket Thickness | 16 mm (0.63 in)                              |
| Air Volume Occupied by Horn | 10.0 dm <sup>3</sup> (0.35 ft <sup>3</sup> ) |
| Net Weight                  | 12.0 kg (26.46 lb)                           |
| Shipping Units              | 1  |
| Shipping Weight             | 13.6 kg (29.98 lb)                           |
| Shipping Box                | 500x495x275 mm (19.69x19.49x10.83 in)        |

## SERVICE KIT

|            |             |
|------------|-------------|
| Recone kit | RCK18DS1154 |
|------------|-------------|

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 V for 4 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

**B&C Speakers s.p.a.**

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