

# 18SW115

## LF Drivers - 18.0 Inches

- 3400 W continuous program power capacity
- 116 mm (4.5 in) split winding copper voice coil
- 35 - 1500 Hz response
- 97 dB sensitivity
- 60 mm peak-to-peak excursion before damage
- Neodymium magnet allows a very high force factor and linear excursion
- Double silicone spider with optimized compliance
- Ventilated voice coil gap for reduced power compression
- Aluminium demodulating ring for very low distortion



### Specifications

|  |                  |
|--|------------------|
| Nominal diameter                       | 460 mm (18.0 in) |
| Nominal impedance                      | 8 Ω              |
| Minimum impedance                      | 6.5 Ω            |
| Nominal power handling <sup>1</sup>    | 1700 W           |
| Continuous power handling <sup>2</sup> | 3400 W           |
| Sensitivity (1W/1m) <sup>3</sup>       | 97.0 dB          |
| Frequency range                        | 35 - 1500 Hz     |
| Voice coil diameter                    | 116 mm (4.5 in)  |
| Winding material                       | Copper           |
| Former material                        | Glass Fibre      |
| Winding depth                          | 34 mm (1.33 in)  |
| Magnetic gap depth                     | 14 mm (0.55 in)  |
| Flux density                           | 1.16 T           |

### Design

|                 |                       |
|-----------------|-----------------------|
| Surround shape  | Triple Roll           |
| Cone shape      | Radial                |
| Magnet material | Neodymium Inside Slug |

### Design

|                        |  |
|------------------------|--|
| Spider                 | Double Silicone                              |
| Pole design            | T-Pole                                       |
| Woofers cone treatment | TWP Waterproof Both Sides                    |
| Recommended enclosure  | 150.0 dm <sup>3</sup> (5.3 ft <sup>3</sup> ) |
| Recommended tuning     | 35 Hz  |

### Parameters<sup>4</sup>

|                  |   |
|------------------|---|
| Fs               | 32 Hz   |
| Re               | 5.3 Ω   |
| Qes              | 0.32  |
| Qms              | 5.6   |
| Qts              | 0.3   |
| Vas              | 187.0 dm <sup>3</sup> (6.5 ft <sup>3</sup> )    |
| Sd               | 1210.0 cm <sup>2</sup> (187.6 in <sup>2</sup> ) |
| η <sub>o</sub>   | 1.9 %   |
| X <sub>max</sub> | 14.0 mm   |
| X <sub>var</sub> | 16.0 mm   |
| M <sub>ms</sub>  | 275 g   |
| Bl               | 30.3 Txm  |

### Parameters

|     |        |
|-----|--------|
| Le  | 1.9 mH |
| EBP | 100 Hz |

### Mounting And Shipping Info

|                               |  |
|-------------------------------|--|
| Overall diameter              | 460 mm (18.0 in)                             |
| Bolt circle diameter          | 443 mm (17.44 in)                            |
| Baffle cutout diameter        | 422.0 mm (16.6 in)                           |
| Depth                         | 242 mm (9.5 in)                              |
| Flange and gasket thickness   | 16 mm (0.62 in)                              |
| Air volume occupied by driver | 10.5 dm <sup>3</sup> (0.37 ft <sup>3</sup> ) |
| Net weight                    | 11.9 kg (26.2 lb)                            |
| Shipping units                | 1  |
| Shipping weight               | 13.9 kg (30.6 lb)                            |
| Shipping box                  | 500x500x250 mm (19.7x19.7x9.8 in)            |

### Service Kit

|             |
|-------------|
| RCK18SW1158 |
|-------------|

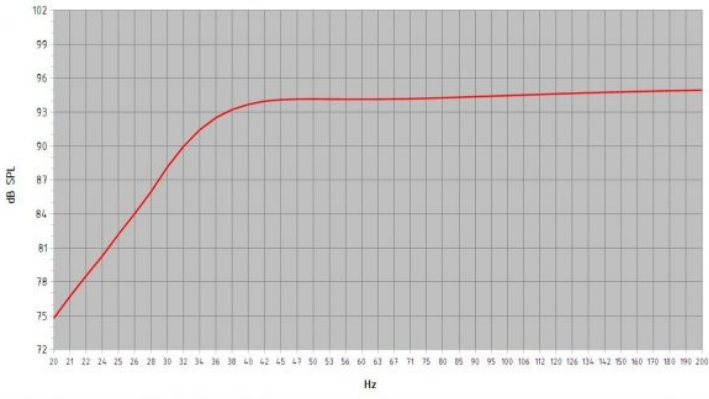
1. 2 hours test made with continuous pink noise signal (6 dB crest factor) within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.

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.

Frequency Response (2,83 Vrms/1 m)



Model: **18 SW 115**  
 Enclosure Type: **Bass Reflex**

Internal Net Volume (Liters): **150**  
 Tuning Frequency (Hz): **35** Port Area (cm<sup>2</sup>): **339.6**  
 Frequency (-3 dB) (Hz): **35.4** Port Length (cm): **37.5**

Excursion Limited Maximum SPL at 1 meter (dB): **124.9** equal to **1161.0** Watts (Bass Band Power Rating)  
 Thermal Limited Maximum SPL at 1 meter (dB): **126.6** equal to **1700.0** Watts (Mid Band Power Rating)