The RS18 applies NEXO’s patent pending RAY SUB technology in a 2 x 18” subwoofer format. RAY SUB technology optimizes the positioning and phase relationships of radiating surfaces in vented enclosures, permitting acoustic distance from rear to front sections to always increase as frequency decreases. Consequently rear and front sections sum up efficiently over the entire subwoofer bandwidth, allowing for an average of 5db gain from the rear section in the forward direction and cancelling in the rear direction.

Utilized in a stand alone format, RAY SUB technology, allows the same cabinet to be configured for any polar pattern, omni-directional as a standard direct radiating subwoofer when speakers are facing the audience, or highly directional when a speaker cabinet is rotated sideways or upwards. With arrays, RAY SUB subwoofers can be set back to back, front to front, alternate, in vertical columns and, when column length is sufficient, to be beam-steered upwards or downwards. Comprising of two 18 inch transducers with a frequency response of 31Hz – 100Hz and a sensitivity of 107db SPL, the RS18 delivers unchallenged versatility for installations and touring requirements where large format sub-bass cabinets are required.
NEKO is one of the world’s leading sound reinforcement loudspeaker manufacturers. Founded in 1979, the company is dedicated to crafting practical solutions with solid engineering. Each new design begins with a proprietary sophisticated computer simulation process that allows every parameter to be extensively modeled and simulated, leading to breakthrough cost and performance gains. NEKO’s comprehensive product line includes loudspeakers, analogue and digital control electronics and amplification; all designed to deliver consistent sound quality and long term reliability for a broad range of applications.

RS18 PRODUCT FEATURES

- **Components**: 2 x 18" (46cm) long excursion neodymium 8Ω drivers
- **Height x Width x Depth**: 520 x 1403 x 732mm (20.46" x 55.24" x 28.81") with handles
  520 x 1236 x 732mm (20.46" x 48.92" x 28.81") without handles
- **Shape**: Rectangular
- **Weight**: Net Weight 90Kg (199 lbs)
  Net Weight with handles 105Kg (231.5 lbs)
  Net Weight with rigging system 128Kg (287 lbs)
- **Connectors**: 4 x NL4M SPEAKON 4pole on two connection plates (In & Through)
- **Construction**: Baltic Birch ply finish with structured black coating. Dark grey carpet finish also available.

RS18 WITH NX242-ES4 TDCONTROLLER OR NXAMP SYSTEM SPECIFICATION

<table>
<thead>
<tr>
<th>Omini</th>
<th>Directional</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency Response @ -3db (a)</strong></td>
<td>31Hz-100Hz</td>
</tr>
<tr>
<td><strong>Nominal Impedance</strong></td>
<td>2 x 8Ω</td>
</tr>
<tr>
<td><strong>Sensitivity 1W @ 1m (b)</strong></td>
<td>107dB SPL Nominal</td>
</tr>
<tr>
<td><strong>Peak SPL @ 1m (b)</strong></td>
<td>143–146dBPeak (2x1750W to 2 x 4000W@8Ω)</td>
</tr>
<tr>
<td><strong>Dispersion</strong></td>
<td>Omni &amp; Directional pattern over the entire usable bandwidth depending on the NX242ES4 or NXAMP TDcontrollers setup. (two channels of the NX242 or NXAMP are required to process directional setups)</td>
</tr>
<tr>
<td><strong>Directivity Index (c)</strong></td>
<td>1.5=Q=2</td>
</tr>
<tr>
<td><strong>Crossover Frequency: NX242 or NXAMP TDcontrollers preset dependent</strong></td>
<td>From 75Hz to 100Hz</td>
</tr>
<tr>
<td><strong>Nominal Weight with handles</strong></td>
<td>105Kg (231.5 lbs)</td>
</tr>
<tr>
<td><strong>Recommended Amplifiers</strong></td>
<td>1 amplifier channel is required for omni mode operation, rated at 3500 to 8000 Watts into 4Ω</td>
</tr>
</tbody>
</table>

SYSTEM OPERATION

- **Electronic Controller**: NO242ES4 Digital TDController & NXAMP Powered Digital TDController presets are precisely matched to RS18 and include sophisticated protection systems. Using RS18 without a properly connected TDController will result in poor sound quality and can damage components.
- **Speaker Cables**: 1-7/1+ = Right or Rear
  2-2+/ = Left or Front
- **Accessories**: Bumper – Flying Plates – Handles – Dolly – Front Wheel Board
- **Rigging System**: Please refer to the user manual before any operation.

SHIPPING & ORDERING

- **Packaging**: RS18s are packaged individually.
  Order RS18-C (finished grey carpeting) or RS18-P (finished black structured coating)

As part of a policy of continual improvement, NEKO reserves the right to change specifications without notice.

[a] Response curves and data: anechoic far field above 200 Hz, half-space anechoic below 200 Hz.  
[c] Directivity curves and data: 1/3 octave smoothed frequency response, normalized to on-axis response. Data obtained by computer processing of off-axis response curves.  
[d] Please refer to the RS15 user Manual.  
[1] Use adjustable range data: frequency response capability with TD crossover slopes removed.

Architectural and Engineering Specifications

The sub-bass loudspeaker system shall have two 18" long excursion 8Ω high flux neodymium 8Ω cone transducers. Nominal Sensitivity shall be 107dB. When driven by a NXAMP 4x4 or by a NO242 properly-connected to amplification capable of delivering into one channel 3500 to 8000 watts for directional mode and 2 amplifier channels are required for directional mode operation, each rated at 1750 to 4000 Watts into 8Ω per channel. The system shall be capable of 143dB to 146dB peak SPL in 0° mode and 140dB to 143dB peak SPL in directional mode, with a frequency response of 31Hz to 100Hz ±3dB[a]. The system shall be the RS18 with a NO242 x4 or NXAMP 4x4.

PACKAGING

- **Order RS18-C (finished grey carpeting) or RS18-P (finished black structured coating)**

As part of a policy of continual improvement, NEKO reserves the right to change specifications without notice.

[a] Response curves and data: anechoic far field above 200 Hz, half-space anechoic below 200 Hz.
[c] Directivity curves and data: 1/3 octave smoothed frequency response, normalized to on-axis response. Data obtained by computer processing of off-axis response curves.
[d] Please refer to the user manual before any operation.

[1] Use adjustable range data: frequency response capability with TD crossover slopes removed.

LIMITED WARRANTY

NEKO loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from the original date of purchase. At the option of NEKO the defective item will be repaired/ replaced without charge for materials/labour. The item is to be adequately packaged and dispatched, pre-paid, to a NEKO authorised distributor/service centre. Unauthorised repair shall void the warranty. The NEKO warranty does not cover cosmetics or finish and does not apply to any items which in NEKO’s opinion have failed due to used abuse, accidents, modifications or any type of misuse. All images and text herein are the property of NEXO SA, and deemed accurate, although specifications are subject to change without notice.