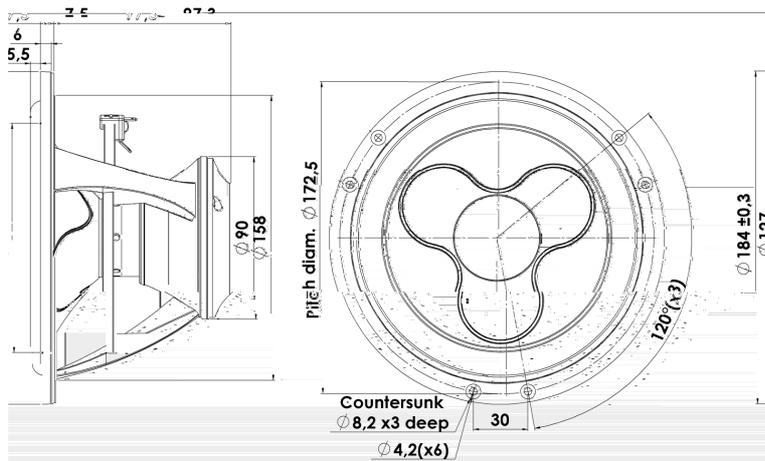




## WOOFER

## 18WU/8747T00

The Illuminator woofers are in every aspect unusual designs with the open construction, the extremely long linear excursion and patented under-hung SD-3 (Symmetrical Drive) neodymium motor system, which due to copper caps and its construction ensures very low distortion, adding the unique patented cones, low-loss linear suspension the result is: "The Very Best Money Can Buy"!



### KEY FEATURES:

- Under-Hung Neodymium Motor Design
- Black Anodized Alu. Cone
- Low-Loss linear suspension
- Patented Symmetrical Drive (SD-3)
- Exceptionally Long Linear Excursion
- Patented Design

#### T-S Parameters

|                               |                     |
|-------------------------------|---------------------|
| Resonance frequency [fs]      | 33 Hz               |
| Mechanical Q factor [Qms]     | 3.31                |
| Electrical Q factor [Qes]     | 0.35                |
| Total Q factor [Qts]          | 0.32                |
| Force factor [Bl]             | 7.5 Tm              |
| Mechanical resistance [Rms]   | 1.00 kg/s           |
| Moving mass [Mms]             | 16 g                |
| Suspension compliance [Cms]   | 1.45 mm/N           |
| Effective diaph. diameter [D] | 140 mm              |
| Effective piston area [Sd]    | 154 cm <sup>2</sup> |
| Equivalent volume [Vas]       | 48.3 l              |
| Sensitivity (2.83V/1m)        | 85.5 dB             |
| Ratio Bl/√Re                  | 3.09 N/√W           |
| Ratio fs/Qts                  | 104 Hz              |

#### Notes:

IEC specs. refer to IEC 60268-5 third edition.  
All Scan-Speak products are RoHS compliant.  
Data are subject to change without notice.  
Datasheet updated: February 22, 2011.

#### Electrical Data

|                            |         |
|----------------------------|---------|
| Nominal impedance [Zn]     | 8 Ω     |
| Minimum impedance [Zmin]   | 7.7 Ω   |
| Maximum impedance [Zo]     | 61.7 Ω  |
| DC resistance [Re]         | 5.9 Ω   |
| Voice coil inductance [Le] | 0.41 mH |

#### Power Handling

|                                |       |
|--------------------------------|-------|
| 100h RMS noise test (IEC 17.1) | 80 W  |
| Long-term max power (IEC 17.3) | 150 W |

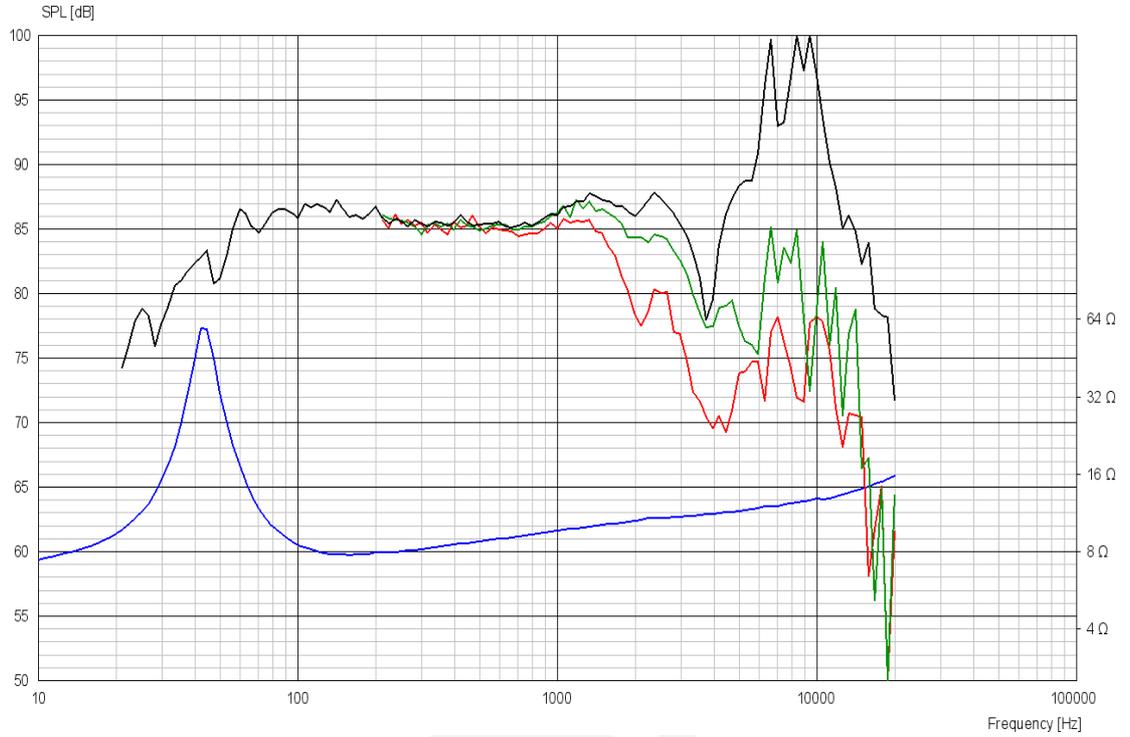
#### Voice Coil and Magnet Data

|                     |         |
|---------------------|---------|
| Voice coil diameter | 42 mm   |
| Voice coil height   | 8 mm    |
| Voice coil layers   | 4       |
| Height of gap       | 20 mm   |
| Linear excursion    | ± 9 mm  |
| Max mech. excursion | ± 16 mm |
| Unit weight         | 1.7 kg  |



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## Advanced Parameters (Preliminary)

