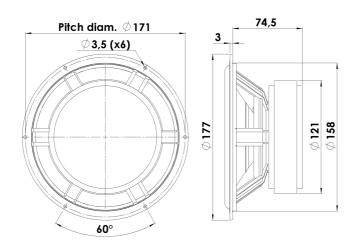


## **CLASSIC**

### **MIDWOOFER**

## 18W/4545-00

The Symmetric Drive (SD-1) concept with copper in the magnet system was invented by Scan-Speak. High-quality magnet system design has thus been a key feature of Scan-Speak design since the companys inception. The Classic woofers are highly praised, and are used in some of the worlds most exceptional high-end Loudspeakers. Some feature Kevlar cones, others have the innovative Carbon fibre paper cones.





### **KEY FEATURES:**

- · Patented Symmetrical Drive Motor Design
- · Air Dried Paper/Carbon Fibre Cone
- · 42mm Voice Coil w. Alu foil

- Low-Loss linear suspension
- Low Damping SBR Rubber Surround

#### **T-S Parameters**

Resonance frequency [fs]	35 Hz
Mechanical Q factor [Qms]	2.49
Electrical Q factor [Qes]	0.38
Total Q factor [Qts]	0.33
Force factor [BI]	6.6 Tm
Mechanical resistance [Rms]	1.91 kg/s
Moving mass [Mms]	21.6 g
Suspension compliance [Cms]	0.96 mm/N
Effective diaph. diameter [D]	136 mm
Effective piston area [Sd]	145 cm <sup>2</sup>
Equivalent volume [Vas]	28.2
Sensitivity (2.83V/1m)	90 dB
Ratio BI/√Re	3.58 N/√W
Ratio fs/Qts	106 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**

Unit weight

Nominal impedance [Zn]	4 Ω
Minimum impedance [Zmin]	4.5 Ω
Maximum impedance [Zo]	25.7 Ω
DC resistance [Re]	3.4 Ω
Voice coil inductance [Le]	0.31 mH
Power Handling	
100h RMS noise test (IEC 17.1)	80 W
Long-term max power (IEC 17.3)	- W
Voice Coil and Magnet Data	
Voice coil diameter	42 mm
Voice coil height	19 mm
Voice coil layers	2
Height of gap	6 mm
Linear excursion	± 6.5 mm
Max mech. excursion	± 10 mm

2.4 kg

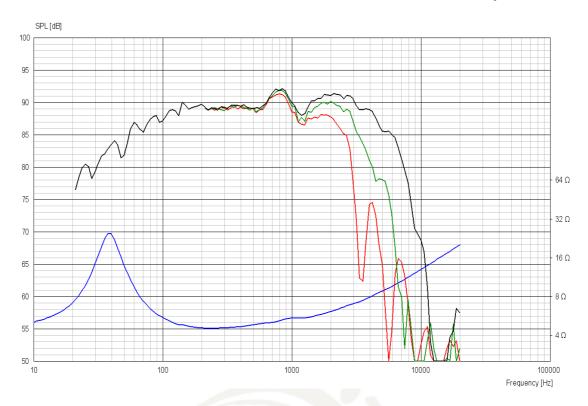




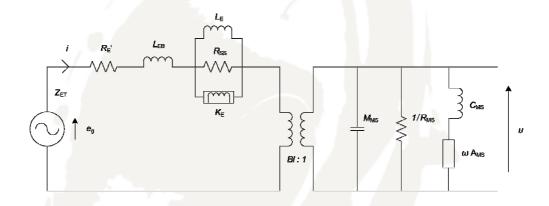
# **CLASSIC**

## **MIDWOOFER**

## 18W/4545-00



# Advanced Parameters (Preliminary)



### **Electrical data:**

Resistance [Re']	3.68 Ω
Free inductance [Leb]	0.0859 mH
Bound inductance [Le]	0.829 mH
Semi-inductance [Ke]	0.0260 SH
Shunt resistance [Rss]	2289 0

### **Mechanical Data**

Force Factor [BI]	5.98 Tm
Moving mass [Mms]	20.7 g
Compliance [Cms]	0.890 mm/N
Mechanical resistance [Rms]	1.36 kg/s
Admittance [Ams]	0.0657 mm/N

