



# E25

PROFESSIONAL SERIES

# 3430

 8  $\Omega$ 

## 10" . 25cm

**Low Midrange Driver - Very High SPL**  
**Very High Sounding Quality**

### APPLICATIONS

Low midrange transducer dedicated to the reproduction of 60-3000Hz frequencies. Usable either for direct radiation in small volumes from 20 L or for horn loaded application. Its design gives priority to precision in the mid-range band.

### FEATURES

Power handling capacity	<b>250 W AES</b>
Reference efficiency (1W @ 1m)	<b>98 dB SPL</b>
SPL max (continuous)	<b>118 dB SPL</b>
Usable frequency range	<b>60-3000 Hz</b>
Environmental withstanding	<b>Outdoor</b>

# 3430

## 10" ■ 25 cm Low Midrange Driver

### 3430

#### TYPICAL CHARACTERISTICS

Rated impedance	Z	8	$\Omega$
Reference efficiency (1 W@1 m)	-	98	dB SPL
Usable frequency range <sup>1</sup>	-	60-3000	Hz
Power handling capacity <sup>2</sup>	(AES)	250	W
Max Sound Pressure Level <sup>3</sup>	SPLmax	118	dB SPL
Min. impedance modulus	Zmin	5.9 @ 300Hz	$\Omega$
Voice-coil inductance <sup>4</sup> @ 1 kHz	Le1k	0.77	mH
@ 10 kHz	Le10k	0.46	mH
Bl product	BL	15.6	N/A
Moving mass	Mms	0.035	Kg

#### THIELE-SMALL PARAMETERS : TYPICAL (QC LIMITS)

Resonance frequency <sup>5</sup>	Fs	57(±8)	Hz
DC resistance <sup>6</sup>	Re	5.6 (±0.6)	$\Omega$
Mechanical quality factor	Qms	4.2	1
Electrical quality factor	Qes	0.29	1
Total quality factor	Qts	0.27	1
Mechanical suspension compliance	Cms	220	10 <sup>-6</sup> m/N
Effective piston area	Sd	0.0356	m <sup>2</sup>
Equivalent Cas air load	Vas	0.041	m <sup>3</sup>
Max. linear excursion	Xmax	±4.5	mm
Linear displacement volume	Vd	0.160	10 <sup>-3</sup> m <sup>3</sup>
Half-space efficiency		2.5	%
Unity load volume	Vas Qts <sup>2</sup>	2.9	10 <sup>-3</sup> m <sup>3</sup>

#### ABSOLUTE MAXIMUM RATINGS

Short term max. input voltage <sup>7</sup>	Vmax	90	V
Max. excursion before damage	Xdam	±12	mm
Ambient operating temperature		-10 to +50	°C
Storage temperature <sup>8</sup>		-20 to +70	°C
Environmental conditions <sup>9</sup>		Outdoor	

#### APPLICATION INFORMATION

Air volume occupied by the driver <sup>10</sup>		1.5	10 <sup>-3</sup> m <sup>3</sup>
Speaker net mass		5.840	Kg
Recommended reflex box	Vb/Fb	20 / 70	L / Hz
Electrical polarity		A positive voltage applied on the red terminal produces forward cone motion.	

#### SPECIFICATION NOTES

Note 1 : Allowing for energy response, excursion capability, Power spectrum, and -3dB low freq. roll-off for standard reflex tuning.

Note 2 : Established at 20°C ambient temp, according to AES2-1984 standard using IEC268-1 simulated programme signal and a 20 liter Bass-Reflex test enclosure tuned at 70Hz.

Note 3 : Established at 1m on axis of the loudspeaker mounted in test enclosure, when driven at full AES Power Handling Capacity, including 4dB of thermal compression loss.

Note 4 : Measured at 20 mA in free air.

Note 5 : Measured at 20 mA and 20°C ambient temp. in free air conditions, after full run and rest.

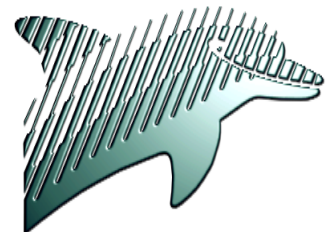
Note 6 : Measured at 20°C ambient temp. QC limits are ±10 %

Note 7 : Stated in RMS voltage according to IEC 268-5.

Note 8 : Includes shipping conditions. The lower limit prevents from demagnetization.

Note 9 : Our products are classified in three categories : Indoor, Outdoor, and Outdoor+ for permanent outdoor use or severe conditions.

Note 10 : Calculated for front mounting on to a 18 mm thick board.



**PHL**  
A U D I O

461, rue des chênes .Z.A  
77590 CHARTRETTES  
FRANCE

Tél : 33 01 64 81 29 80

Fax : 33 01 60 69 10 28

e-mail : [phaudio@phaudio.com](mailto:phaudio@phaudio.com)

<http://www.phaudio.com>