

Specifications



Model Name	SIGMA-8	SIGMA-10	SIGMA-12	SIGMA-15
System Type	Passive	Passive	Passive	Passive
Configuration	Two-way	Two-way	Two-way	Two-way
Frequency Response (+/-3 dB)	70 Hz - 18 kHz	65 Hz - 18 kHz	60 Hz - 18 kHz	50 Hz - 18 kHz
Frequency Range (-10 dB)	65 Hz - 20 kHz	60 Hz - 20 kHz	55 Hz - 20 kHz	45 Hz - 20 kHz
Sensitivity (2.83 v / 1 m)	96 dB	97 dB	98 dB	98 dB
Calculated Maximum SPL @1 m	124 dB	126 dB	129 dB	129 dB
System Rated Impedance	8 Ω	8 Ω	8 Ω	8 Ω
Low Frequency Transducer				
Size (mm / inches)	203 mm / 8"	254 mm / 10"	305 mm / 12"	381 mm / 15"
Voice Coil Size (mm / inches)	38 mm / 1.5"	38 mm / 1.5"	64 mm / 2.5"	64 mm / 2.5"
Rated Impedance	8 Ω	8 Ω	8 Ω	8 Ω
LF Power (re:AES2-2012)	150 W	200 W	300 W	350 W
High Frequency Transducer				
HF Driver Type	Compression Driver	Compression Driver	Compression Driver	Compression Driver
Coil Size (mm / inches)	25 mm / 1"	44 mm / 1.75"	44 mm / 1.75"	44 mm / 1.75"
Exit Size (mm / inches)	1"	1"	1"	1"
Diaphragm Material	Polymer	Titanium	Titanium	Titanium
Rated Impedance	8 Ω	8 Ω	8 Ω	8 Ω
HF Power (re:AES2-2012)	25 W	40 W	40 W	40 W
Nominal Coverage (H x V)	90° x 60°	90° x 60°	90° x 60°	90° x 60°
Power				
System Continuous Power	150 W	200 W	300 W	350 W
System Programme Power	300 W	400 W	600 W	700 W
System Peak Power	600 W	800 W	1200 W	1400 W
Crossover Frequency	2.8 kHz	2.4 kHz	2.2 kHz	2.2 kHz
Input Connector	2 x NL4 (speakON compatible)	2 x NL4 (speakON compatible)	2 x NL4 (speakON compatible)	2 x NL4 (speakON compatible)
Hardware:	35 mm pole socket M8 x 5 1 Handle on back	Dual-angle (0° or 10°) 35 mm pole socket M8 x 5 1 Handle on back	Dual-angle (0° or 10°) 35 mm pole socket M8 x 5 2 Handles on side	Dual-angle (0° or 10°) 35 mm pole socket M8 x 5 2 Handles on side
Enclosure				
Enclosure Material	12 mm MDF	15 mm MDF	15 mm MDF	15 mm MDF
Finish	Black Paint / White Paint	Black Paint / White Paint	Black Paint / White Paint	Black Paint / White Paint
Grille Material & Finish	1.2 mm steel, painted	1.2 mm steel, painted	1.2 mm steel, painted	1.2 mm steel, painted
Dimensions - Unpacked				
Height	430 mm / 17"	500 mm / 19.5"	537 mm / 21"	635 mm / 25"
Width Front	272 mm / 11"	383 mm / 13.3"	354 mm / 14"	435 mm / 17"
Width Rear	158 mm / 6"	213 mm / 8.4"	218 mm / 8"	261 mm / 11.7"
Depth	277 mm / 13.5"	339 mm / 13.3"	359 mm / 14"	439 mm / 17.25"
Dimensions - Packed				
Height	505 mm / 20"	585 mm / 23"	625 mm / 24.6"	720 mm / 28.35"
Width Front	363 mm / 14.25"	451 mm / 18"	468 mm / 18.4"	553 mm / 21.75"
Width Rear	196 mm / 7.71"	254 mm / 10"	260 mm / 10.2"	303 mm / 12"
Depth	322 mm / 12.75"	384 mm / 13.3"	404 mm / 15.9"	488 mm / 19.2"
Net Weight	7.8 kg / 17 lbs	15.4 kg / 34 lbs	18.2 kg / 40 lbs	23.4 kg / 51.5 lbs
Gross Weight	8.8 kg / 19 lbs	17.8 kg / 38.5 lbs	20.9 kg / 45 lbs	26.7 kg / 58.7 lbs



Model Name	SIGMA-18B	SIGMA-V4	SIGMA-V8
System Type	Passive	Passive	Passive
Configuration	subwoofer	Full Range	Full Range
Frequency Response (+/-3 dB)	35 Hz-250 Hz	160 Hz - 17 KHz	130 Hz - 17 KHz
Frequency Range (-10 dB)	30 Hz-250 Hz	150 Hz - 20 KHz	120 Hz - 20 KHz
Sensitivity (2.83 v / 1 m)	100 dB	95 dB	97 dB
Calculated Maximum SPL @1 m	133 dB	123 dB	128 dB
System Rated Impedance	4 Ω	8 Ω	8 Ω
Low Frequency Transducer			
Size (mm / inches)	457 mm / 18"	4 x 75 mm / 3"	8 x 75 mm / 3"
Voice Coil Size (mm / inches)	64 mm / 2.5"	33 mm / 1.3"	33 mm / 1.3"
Rated Impedance	4 Ω	8 Ω	4 Ω
LF Power (re:AES2-2012)	500 W	40 W	40 W
High Frequency Transducer			
HF Driver Type	na	na	na
Coil Size (mm / inches)	na	na	na
Exit Size (mm / inches)	na	na	na
Diaphragm Material	na	na	na
Rated Impedance	na	na	na
HF Power (re:AES2-2012)	na	na	na
Nominal Coverage (H x V)	na	160° x 40°	160° x 30°
Power			
System Continuous Power	500 W	150 W	300 W
System Programme Power	1000 W	300 W	600 W
System Peak Power	2000 W	600 W	1200 W
Crossover Frequency	150 Hz	na	na
Input Connector	2 x NL4 (speakON compatible)	1 x NL4 (speakON compatible)	1 x NL4 (speakON compatible)
Hi Pass output connector	1 x NL4 (speakON compatible)		
Hardware:	35 mm pole socket 4 Handles on sides	Bracket	Bracket
Enclosure			
Enclosure Material	18 mm MDF	12 mm MDF	12 mm MDF
Finish	Black Paint / White Paint	Black Paint / White Paint	Black Paint / White Paint
Grille Material & Finish	1.2 mm steel, painted	1.2 mm steel, painted	1.2 mm steel, painted
Dimensions - Unpacked			
Height	554 mm / 21.25"	445 mm / 17.5"	805 mm / 31.7"
Width Front	502 mm / 20"	116 mm / 4.6"	116 mm / 4.6"
Width Rear	502 mm / 20"	85 mm / 3.3"	85 mm / 3.3"
Depth	780 mm / 30.8"	115 mm / 4.5"	115 mm / 4.5"
Dimensions - Packed			
Height	649 mm / 25.5"	520 mm / 20.5"	880 mm / 34.5"
Width Front	588 mm / 22.75"	220 mm / 8.7"	220 mm / 8.7"
Width Rear	588 mm / 22.75"	220 mm / 8.7"	220 mm / 8.7"
Depth	865 mm / 34"	220 mm / 8.7"	220 mm / 8.7"
Net Weight	39.1 kg / 86 lbs	3 kg / 6.6 lbs	5.6 kg / 12.32 lbs
Gross Weight	46.4 kg / 102 lbs	3.6 kg / 8 lbs	6.6 kg / 14.2 lbs



SIGMA SERIES

PASSIVE LOUDSPEAKERS

SPECIFICALLY ENGINEERED FOR FIXED INDOOR INSTALLATIONS



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With their discreet and unobtrusive design, the SIGMA SERIES feature the latest proprietary Wharfedale Pro driver technology. In addition, SIGMA SERIES use a newly developed angled corner port system so that the dimensions have been reduced without compromising the overall sound quality.

Available in black or white and with comprehensive rigging options SIGMA SERIES is already a versatile and favourite choice for installers.

- Discreet and unobtrusive design
- Newly developed angled corner port system to reduce dimensions
- Multiple M8 rigging points and a two way speaker pole mount for easy installation
- Crossovers tailored for vocal intelligibility
- Chip resistant Rhino Rock paint
- Double roll surround LF driver for stability and power
- High performance HF driver with aluminium rear cover for maximum heat dissipation
- 2.5" voice coils on 12", 15" and 18B models
- Series includes 2 column line array models with 160° horizontal dispersion
- 7 models available in black or white in the range for maximum flexibility



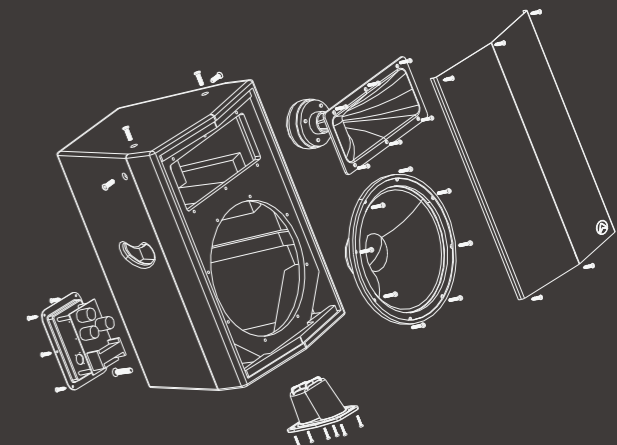
ACOUSTICALLY MATCHED CABINET

Wharfedale Pro engineers have matched the acoustic properties of the cabinet to the proprietary driver technology within, while taking physical aspects into consideration to ensure optimal positioning and size for installation.

By using a newly-developed angled-corner port system, cabinet height and overall size has been reduced – ideal for unobtrusive mounting within your venue. Additionally the angle-corner port system is fine-tuned acoustically to ensure low- end punch – just as you would expect with a larger PA speaker.

The cabinets of the SIGMA 10, 12 and 15 also feature dual-angle pole mount sockets ensuring the long-throw HF driver projects the sound directly to your audience. There are also 5 x M8 rigging points for safe and secure flying where needed.

SIGMA Series is coated in the latest generation chip-resistant, Rhino Rock paint.



SIGMA V4 AND V8, HIGH POWERED COLUMN FORMATION MODELS

Using true line array technology, the V4 and V8 are perfect for sound reinforcement installations where discreet aesthetics, high coverage angles and SPL are critical.

Both 'V' models use multiple 3" full range transducers for warm lows and crystal clear highs. Optimised transducer alignment delivers minimal anti-aliasing effects and maximum phase alignment.

With programme power ratings of 300w (V4) and 600w (V8) and their Ultra-wide horizontal dispersion, these column models have been voiced to work perfectly with other models in the Wharfedale Pro SIGMA range.

Both are supplied with swivel/tilt mounting brackets and are available in black or white finishes.



SIGMA 18B SUBWOOFER

With power ratings of 500W RMS, 1000W Program and 2000W Peak, the SIGMA 18B delivers impressive low-end punch. SIGMA 18B also features an NL4 (speakON compatible) High Pass Output connector allowing for direct connection to another model in the SIGMA series.

Wharfedale Pro designs and manufactures a wide range of power amplifiers suitable for any SIGMA series installation giving you reliability, power and system design flexibility. For more information visit www.wharfedalepro.com.

WHITE FINISH AVAILABLE

SIGMA SERIES is available in black and white finish options to fit seamlessly into all environments.



DOUBLE ROLL SURROUND & DRIVER TECHNOLOGY

SIGMA Series loudspeakers use the latest in Wharfedale Pro driver technology: For the LF drivers, engineers have incorporated a curvilinear, double-roll surround for smooth mid-high transitions and stability for low through to mid range frequencies. Combined with 2.5" voice coils (on 12, 15 and 18B models) for improved thermal dissipation, users can expect consistent delivery at the highest of volumes throughout a performance.

The 44mm diaphragm HF driver used in the 10", 12" and 15" models is equally robust in design – using a solid aluminum rear plate, the HF driver is strengthened for durability and heat is dissipated efficiently for demanding environments. Wharfedale Pro engineers have selected a 90° x 60° waveguide optimised for wide coverage for fixed installation purposes.



FINE-TUNED CROSSOVER

The crossovers ensure perfect integration between the drive units and acoustic properties of the cabinet. Electronic components are carefully selected, while over-complex networks have been avoided to maintain a pure and strong audio signal. Engineers have fine-tuned the crossover points for vocal intelligibility and tuned the high frequencies for long-throw to ensure clear coverage right to the back of your venue.

