

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 (+/-3dB)	75Hz-18kHz	60Hz-18kHz	55Hz-18kHz	45Hz-18kHz
Frequency Range (-10 dB)	60Hz-20kHz	65Hz-20kHz	60Hz-20kHz	50Hz-20kHz
Sensitivity (2.83v/1m)	96dB	97dB	98dB	98dB
Calculated Maximum SPL @1m	124dB	126dB	129dB	129dB
System Rated Impedance	8Ω	8Ω	8Ω	8Ω
Low Frequency Transducer				
Size	203mm / 8"	254mm / 10"	305mm / 12"	381mm / 15"
Voice-Coil Size	38mm / 1.5"	38mm / 1.5"	64mm / 2.5"	64mm / 2.5"
Rated Impedance	8Ω	8Ω	8Ω	8Ω
LF Power (re:AES2-2012)	150W	200W	300W	350W
High Frequency Transducer				
HF Driver Type	Compression Driver	Compression Driver	Compression Driver	Compression Driver
Voice-Coil Size	25mm / 1"	44mm / 1.75"	44mm / 1.75"	44mm / 1.75"
Exit Size	1"	1"	1"	1"
Diaphragm Material	Polymer	Titanium	Titanium	Titanium
Rated Impedance	8Ω	8Ω	8Ω	8Ω
HF Power (re:AES2-2012)	23W	40W	40W	40W
Nominal Coverage (H x V)	90° x 60°	90° x 60°	90° x 60°	90° x 60°
Power				
System Continuous Power	150W	200W	300W	350W
System Programme Power	300W	400W	600W	700W
System Peak Power	600W	800W	1200W	1400W
Crossover frequency	2.8kHz	2.4kHz	2.2kHz	2kHz
Input Connector	2 x NL4 (speakON compatible)	2 x NL4 (speakON compatible)	2 x NL4 (speakON compatible)	2 x NL4 (speakON compatible)
Hardware:	35mm pole socket M8 x 5 1 handle on back	Dual-angle (0° or 10°) 35mm pole socket M8 x 5 1 handle on back	Dual-angle (0° or 10°) 35mm pole socket M8 x 5 2 handles on sides	Dual-angle (0° or 10°) 35mm pole socket M8 x 5 2 handles on sides
Enclosure				
Enclosure Material	12mm MDF	15mm MDF	15mm MDF	15mm MDF
Finish	Black or white	Black or white	Black or white	Black or white
Grille Material & Finish	1.2mm steel, painted	1.2mm steel, painted	1.2mm steel, painted	1.2mm steel, painted
Dimensions - Unpacked				
Height	430mm / 17"	500mm / 19.5"	537mm / 21"	635mm / 25"
Width Front	272mm / 11"	383mm / 13.3"	354mm / 14"	435mm / 17"
Width Rear	158mm / 6"	213mm / 8.4"	218mm / 8.5"	261mm / 11.7"
Depth	277mm / 13.5"	339mm / 13.35in	359mm / 14"	439mm / 17.25"
Dimensions - Packed (mm / inches):				
Height	505mm / 20"	585mm / 23"	625mm / 24.6"	720mm / 28.35"
Width Front	363mm / 14.25in	451mm / 18"	468mm / 18.4"	553mm / 21.75"
Width Rear	196mm / 7.71in	254mm / 10in	260mm / 10.2in	303mm / 12"
Depth	322mm / 12.75"	384mm / 13.3"	404mm / 15.9in	488mm / 19.2"
Weight				
Net Weight (kg / lbs)	7.8kg / 17lbs	15.4kg / 34lbs	18.2kg / 40lbs	23.4kg / 51.5lbs
Gross Weight (kg / lbs)	8.8kg / 19lbs	17.8kg / 38.5lbs	20.9kg / 45lbs	26.7kg / 58.7lbs



Model Name	SIGMA-V4	SIGMA-V8	SIGMA-18B
System Type	Passive	Passive	Passive
Configuration	Full Range	Full Range	Subwoofer
Frequency Response (+/-3dB)	160Hz - 17kHz	130Hz - 17kHz	35Hz-250Hz
Frequency Range (-10 dB)	150Hz - 20kHz	150Hz - 20kHz	40Hz-250Hz
Sensitivity (2.83v/1m)	95dB	97dB	100dB
Calculated Maximum SPL @1m	123dB	128dB	133dB
System Rated Impedance	8Ω	8Ω	8Ω
Low Frequency Transducer			
Size	4 x 75mm / 3"	8 x 75mm / 3"	457mm / 18"
Voice-Coil Size	33mm / 1.3"	33mm / 1.3"	64mm / 2.5"
Rated Impedance	8Ω	4Ω	8Ω
LF Power (re:AES2-2012)	40W	40W	350W
High Frequency Transducer			
HF Driver Type			
Voice-Coil Size			
Exit Size			
Diaphragm Material			
Rated Impedance			
HF Power (re:AES2-2012)			
Nominal Coverage (H x V)	160° x 40°	160° x 30°	
Power			
System Continuous Power	150W	300W	500W
System Programme Power	300W	600W	1000W
System Peak Power	600W	1200W	2000W
Crossover frequency			2.2kHz
Input Connector	1 x NL4 (speakON compatible)	1 x NL4 (speakON compatible)	2 x NL4 (speakON compatible)
Hardware:	Bracket	Bracket	35mm pole socket 4 handles on sides
Enclosure			
Enclosure Material	12mm MDF	12mm MDF	18mm MDF
Finish	Black Paint / White Paint	Black Paint / White Paint	Black or white
Grille Material & Finish	1.2mm steel, painted	1.2mm steel, painted	1.2mm steel, painted
Dimensions - Unpacked			
Height	445mm / 17.5"	805mm / 32.0m/	554mm / 21.25"
Width Front	116mm / 4.6"	116mm / 4.6"	502mm / 20"
Width Rear	85mm / 3.3in	85mm / 3.3in	502mm / 20"
Depth	115mm / 4.5"	115mm / 4.5"	780mm / 30.8"
Dimensions - Packed (mm / inches):			
Height	520mm / 20.5"	880mm / 34.5ins.	640mm / 25.5"
Width Front	220mm / 8.7"	220mm / 8.7"	588mm / 22.75"
Width Rear	220mm / 8.7"	220mm / 8.7"	588mm / 22.75"
Depth	220mm / 8.7"	220mm / 8.7"	865mm / 34"
Weight			
Net Weight (kg / lbs)	3kg / 6.6lbs	5.6kg / 12.32lbs	39.1kg / 86lbs
Gross Weight (kg / lbs)	3.6kg / 8lbs	6.6kg / 14.2lbs	46.4kg / 102lbs



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



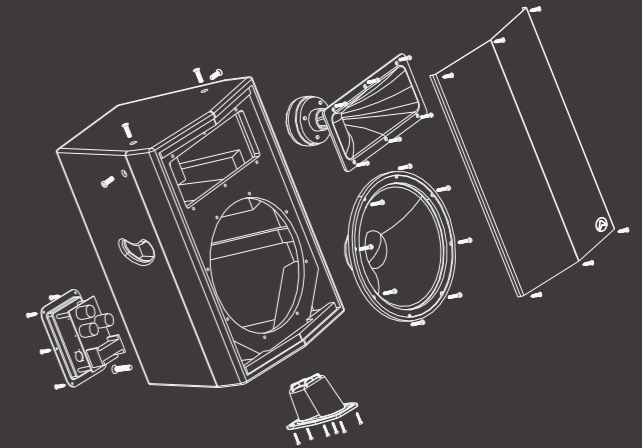
ACOUSTICALLY MATCHED CABINET

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 .

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 aluminium 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.

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.

