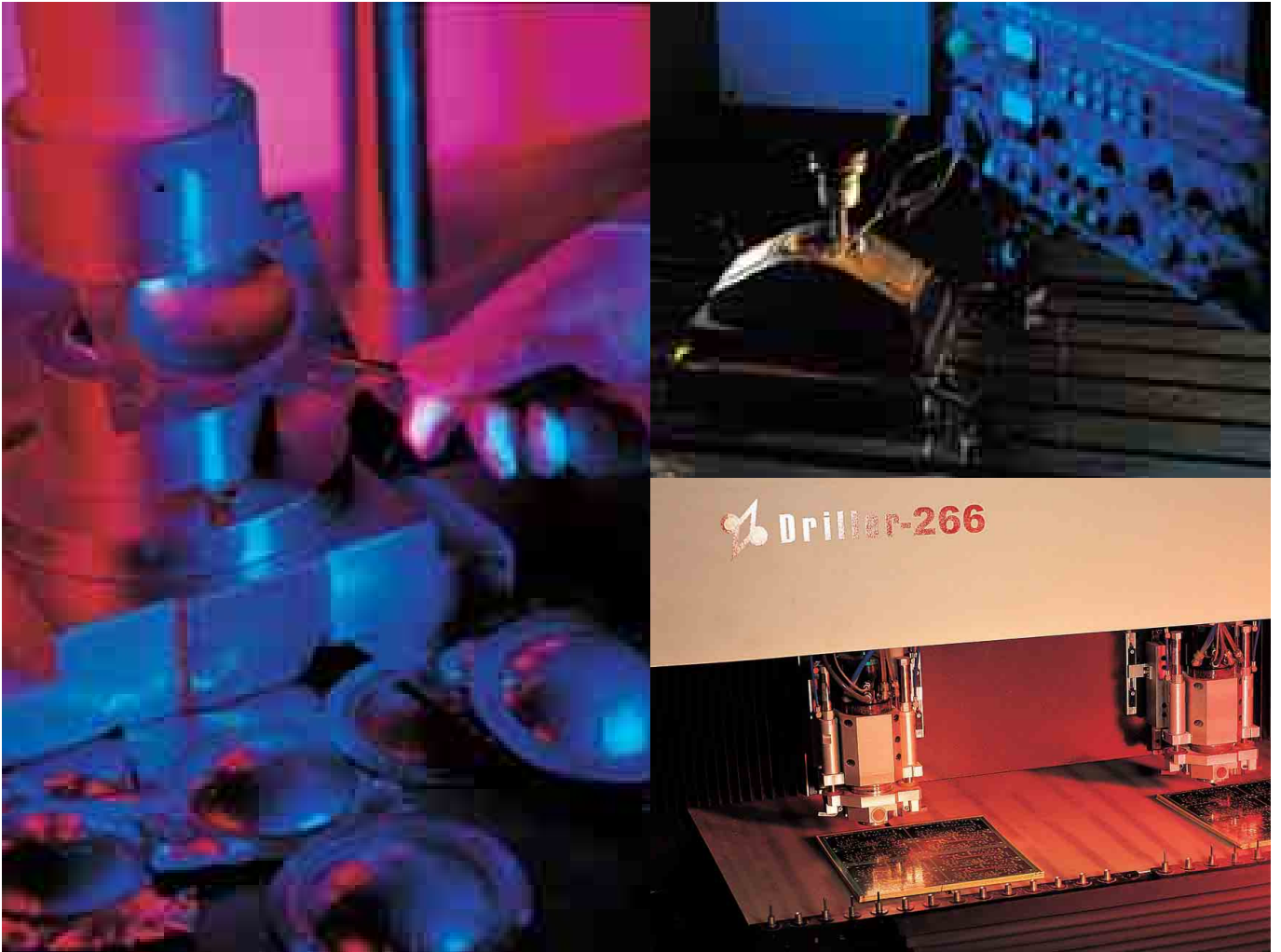


Wharfedale



Achromatic Series



IAG MANUFACTURING

Wharfedale today is part of the International Audio group – one of the largest manufacturers of audio products in the world – and certainly the most vertically integrated.

The flow through our 1.5 million square foot factory from raw material to finished product is well choreographed with quality control checkpoints at every stage throughout the process.

Our UK based design team have complete freedom to specify materials, processes, shapes and performance parameters of every component part – often working with our experienced production teams to develop new, more efficient processes.

Wharfedale’s drive unit development programme works in partnership with our loudspeaker research programme.

New materials and processes have revolutionised the process of driver design, although the basic principles of developing moving-coil speakers has been virtually unchanged for seventy years.

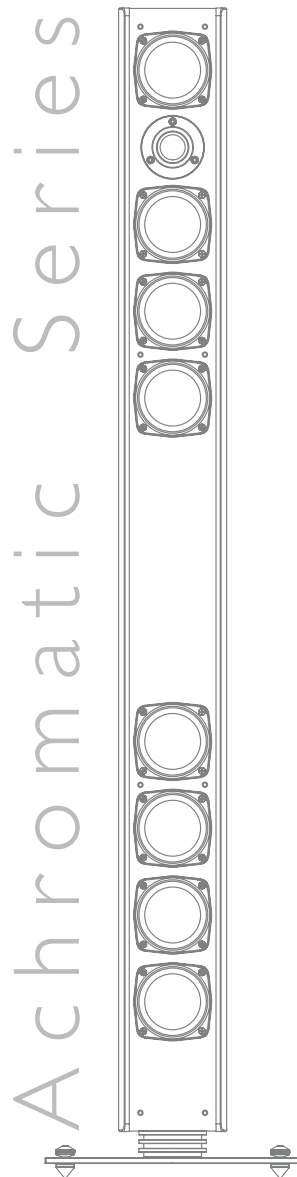
Wharfedale is one of a very few companies that has the resource to develop drive units in-house - partly this is due to our large manufacturing scale and our degree of vertical integration, allowing our engineers to experiment with materials and techniques that would normally be out-of-reach.

Because of our synergy throughout the design and manufacture process, we are able to very closely match drive units to their cabinets and intended frequency responses. As a consequence, very little is required in the way of electrical correction through the crossover

components and we can make them very simple. This has significant additional benefits.

An ideal crossover preserves complete phase linearity through the crossover region. Most crossovers, however, fall some way short of this ideal. Whilst a perfect crossover is a virtual impossibility, we can get much closer to the ideal by using far fewer and higher-quality components. By preserving the signal path intact, the bass driver and treble units can move in unison. Herein lies the secret to Wharfedale’s famously fluid and smooth mid-range.





'Achromatic' means without colouration or added intonation – In hi-fi terms this means purity and preservation of the original music signal – something we at Wharfedale strive for in our pursuit of audio excellence.

Many very good home-cinema systems are unnecessarily compromised by the use of the poor loudspeakers that are so often form part of dealer packages. Even many aftermarket replacement products fail to deliver the kind of quality in performance that the rest of the equipment can deliver.

The role of a high-performance loudspeaker system is to faithfully reproduce the audio signal – and that's something that Wharfedale has

over 75 years experience in doing. From deep, sub-bass frequencies right through to inaudible high-frequencies, the sound needs to be smooth and unbroken – without colouration.

The Achromatic system is designed as such and therefore just as refined and well poised with music as it is with fast, dynamic movie soundtracks.

The Achromatic is a premier loudspeaker system in four basic configurations which are all capable of reproducing the widest possible frequency range and most importantly – with an unbroken frequency response. Choosing the larger front speakers can improve the dynamic performance of your system, yet all work

exceptionally well combined with the dedicated subwoofer.

The slim, low-profile cabinets are modelled using advanced CAD techniques to provide a uniform and neutral tone characteristic with excellent dispersion characteristics. Manufactured using a high-quality fibre composite, the cabinet itself exhibits superb acoustic qualities with a high degree of self-damping and resonance control.

The use of multiple driver line arrays allows an extended bass response without the need to resort to larger driver units. The narrow profile of the speaker can hence be retained – even for the larger floorstanding models.



DRIVE UNIT TECHNOLOGY

A brand new aluminium inverted dome drive unit has been developed specifically for the Achromatic series. The high-sensitivity voice-coil, mounted on a Kapton former is directly coupled to the edge of the inverted dome with a stabilised butyl rubber half-roll surround. An audiophile standard suspension unit provides damping and a large, high gauss ferrite magnet system provides exceptional drive – plenty to produce the long cone excursions required to reproduce even the most dynamic transients.

By using line-arrays of these excellent 3" drivers, bass extension is further improved. Each drive unit is actively driven, resulting in a full, powerful and well integrated sound.

The tweeter unit is a refined 25mm soft-dome driver with a copper-coated aluminium voice coil. Cooled with ferro-fluid, to maintain a constant operating temperature and avoid thermal compression, the tweeter is capable of a resolution well beyond 20kHz – and far above the upper threshold of human hearing.

Arrays of long-throw 3" drivers are used for the bass and mid-range frequencies of all the satellite speakers.



<<MICRO>> AV System

- 2 x WA-S1
- 1 x WA-C2
- 2 x WA-T4
- 1 x WA-8SB



SPECIFICATIONS

	WA-S1	WA-C2	WA-T4	WA-8SB
Format	surround small	centre small	tower	subwoofer
Enclosure type	sealed	sealed	sealed	reflex
Bass	1 x 80mm	2 x 80mm	4 x 80mm	200mm 8"
Tweeter	25mm	25mm	25mm	-
rec amplifier	10 -100w	10 - 120 w	10 - 150 w	100 watts
Nom. Imp	8ohm	8ohm	8ohm	250mv for 75 w
Sens. 1W @ 1M	84 db	87 db	88 db	107 db
Freq Range at -6 dB	130 - 20k	120hz -20khz	120hz -20khz	40 - 130 hz
Xover Freq	4.0 khz	3.5 khz	3.5 khz	35 - 85 hz
volume cab	0.74 L	1.1 L	3.75 L	18 L
Freq Fb	140hz	160hz	130hz	-
AV shielding	no	yes	yes	no
Dimensions (Hx W xD) mm	201 x 115 x 76	115 x 289 x 76	115 x 76 x 945	310 x 400 x 180
WxD plinth	-	-	270 x 240	variable xover,35-85hz,10db steps phase reverse, auto power, defeat
finishes	hi gloss black / soft leatherette	hi gloss black / soft leatherette	hi gloss black / soft leatherette	hi gloss black / soft leatherette
net weight	1.1kg	2.2kg	6.0kg	tbc



<<BASIK>>

AV System

2 x WA-S1
1 x WA-C2
2 x WA-T4
1 x WA-12SB



SPECIFICATIONS

	WA-S1	WA-C2	WA-T4	WA-12SB
Format	surround small	centre small	tower	subwoofer
Enclosure type	sealed	sealed	sealed	reflex
Bass	1 x 80mm	2 x 80mm	4 x 80mm	300mm 12"
Tweeter	25mm	25mm	25mm	-
rec amplifier	10 -100w	10 - 120 w	10 - 150 w	100 watts
Nom. Imp	8ohm	8ohm	8ohm	200mv for 75 w
Sens. 1W @ 1M	84 db	87 db	88 db	112 db
Freq Range at -6 dB	130 - 20k	120hz -20khz	120hz -20khz	38 -130 hz
Xover Freq	4.0 khz	3.5 khz	3.5 khz	35 - 85 hz
volume cab	0.74 L	1.1 L	3.75 L	27 L
Freq Fb	140hz	160hz	130hz	-
AV shielding	no	yes	yes	no
Dimensions (Hx W xD) mm	201 x 115 x 76	115 x 289 x 76	115 x 76 x 945	445 x 600 x 250
WxD plinth	-	-	270 x 240	variable xover,35-85hz,10db steps phase reverse, auto power, defeat
finishes	hi gloss black / soft leatherette	hi gloss black / soft leatherette	hi gloss black / soft leatherette	hi gloss black / soft leatherette
net weight	1.1kg	2.2kg	6.0kg	20.7kg





The Achromatic subwoofer, as the keystone of the range, is nothing short of exceptional. Although modest in proportion, it can deliver a thunderous response. The built-in 100WRMS power amplifier and advanced filtering system means the sub can be tuned to work perfectly in any room or with any combination of the products. An advanced 8" composite cone bass driver is enclosed in a reflex ported enclosure for the optimum transfer of energy. Again, styled to match modern consumer electronics, it will transform your listening experience.

Our acoustic engineers have dedicated a lifetime of knowledge and experience to bringing the most natural, dramatic, absorbing and accurate sound to the achromatic

series. Although small in size, their sublime performance is a testament to their heritage and roots.

The Achromatic system from Wharfedale comprises four options of satellite speaker, two options of centre speakers, and a powerful, low-profile subwoofer. These can be configured in any number of ways to build a stylish yet discrete home cinema system in the finest traditions of Wharfedale loudspeakers.

As with all Wharfedale loudspeakers, they are hand-built and finished with a high-gloss piano black finish to a superlative standard. Each drive unit is engineered entirely within our own factory.



<<SUPRO>>

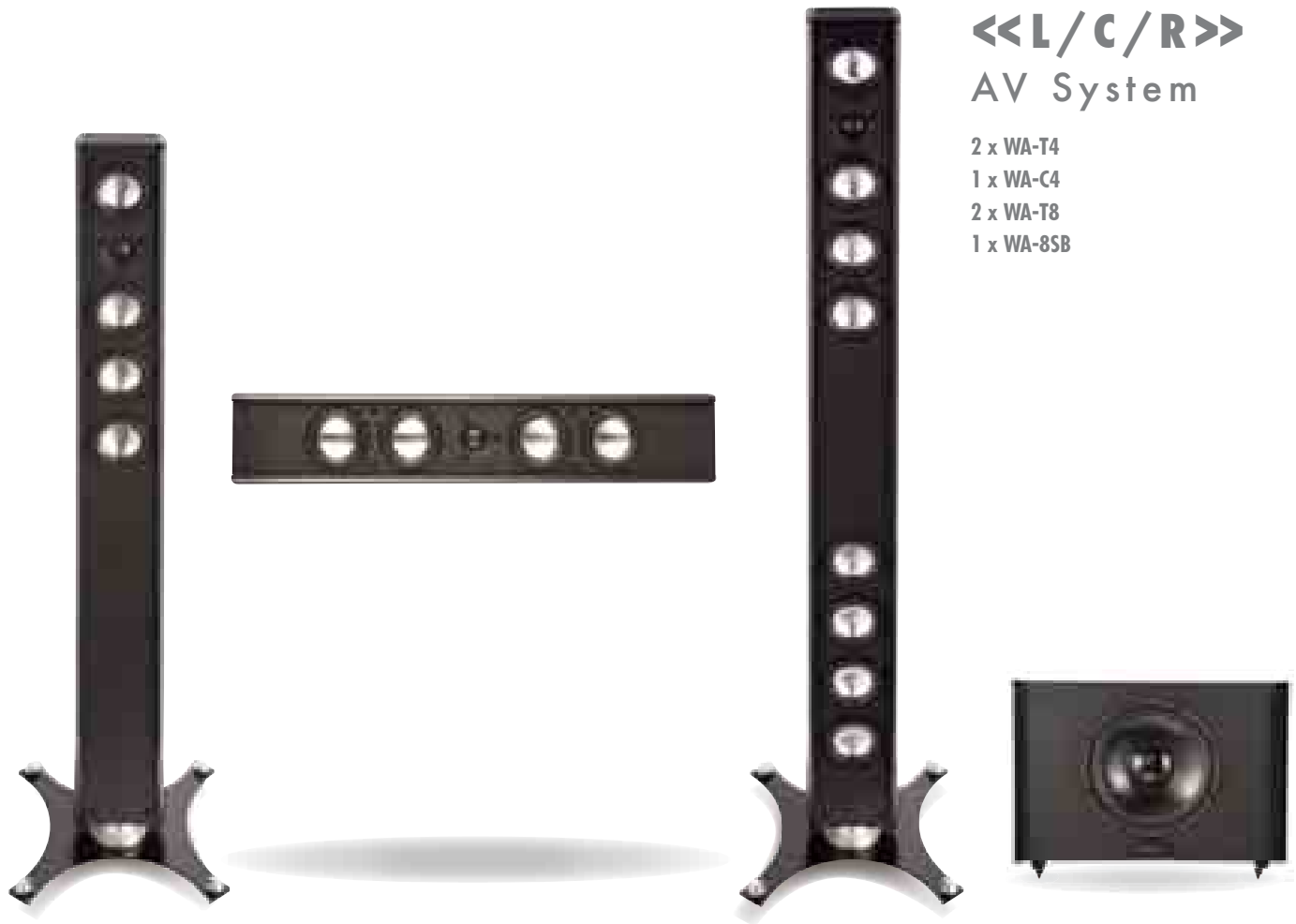
AV System

- 2 x WA-S2
- 1 x WA-C4
- 2 x WA-T8
- 1 x WA-12SB



SPECIFICATIONS

	WA-S2	WA-C4	WA-T8	WA-12SB
Format	surround large	centre large	tower grand	subwoofer
Enclosure type	sealed	sealed	sealed	reflex
Bass	2 x 80mm	4 x 80mm	8 x 80mm	300mm 12"
Tweeter	25mm	25mm	25mm	-
rec amplifier	10 - 120w	10 - 150 w	10 - 175 w	100 watts
Nom. Imp	8ohm	8ohm	8ohm	200mv for 75 w
Sens. 1W @ 1M	87 db	90 db	90 db	112 db
Freq Range at -6 dB	120 - 20k	110hz - 20khz	80hz - 20khz	38 - 130 hz
Xover Freq	4.0 khz	3.5 khz	4.5khz	35 - 85 hz
volume cab	1.1 L	2.35 L	4.65 L	27 L
Freq Fb	160hz	150hz	90hz	-
AV shielding	no	yes	yes	no
Dimensions (Hx W xD) mm	289 x 115 x 76	115 x 600 x 76	1165 x 115 x 76	445 x 600 x 250
WxD plinth	-	-	270 x 240	variable xover, 35-85hz, 10db steps phase reverse, auto power, defeat
finishes	hi gloss black / soft leatherette	hi gloss black / soft leatherette	hi gloss black / soft leatherette	hi gloss black / soft leatherette
net weight	1.7kg	4.2kg	7.88kg	20.7kg



<<L/C/R>> AV System

2 x WA-T4
1 x WA-C4
2 x WA-T8
1 x WA-8SB

SPECIFICATIONS

	WA-T4	WA-C4	WA-T8	WA-8SB
Format	tower	centre large	tower grand	subwoofer
Enclosure type	sealed	sealed	sealed	reflex
Bass	4 x 80mm	4 x 80mm	8 x 80mm	200mm 8"
Tweeter	25mm	25mm	25mm	-
rec amplifier	10 - 150 w	10 - 150 w	10 - 175 w	100 watts
Nom. Imp	8ohm	8ohm	8ohm	250mv for 75 w
Sens. 1W @ 1M	88 db	90 db	90 db	107 db
Freq Range at -6 dB	120hz -20khz	110hz -20khz	80hz -20khz	40 - 130 hz
Xover Freq	3.5 khz	3.5 khz	4.5khz	35 - 85 hz
volume cab	3.75 L	2.35 L	4.65 L	18 L
Freq Fb	130hz	150hz	90hz	-
AV shielding	yes	yes	yes	no
Dimensions (Hx W xD) mm	115 x 76 x 945	115 x 600 x 76	1165 x 115 x 76	310 x 400 x 180
WxD plinth	270 x 240	-	270 x 240	variable xover,35-85hz,10db steps phase reverse, auto power, defeat
finishes	hi gloss black / soft leatherette	hi gloss black / soft leatherette	hi gloss black / soft leatherette	hi gloss black / soft leatherette
net weight	6.0kg	4.2kg	7.88kg	tbc

<<ULTIMO>>

AV System

2 x WA-T4

1 x WA-C4

2 x WA-T8

1 x WA-12SB



SPECIFICATIONS

	WA-T4	WA-C4	WA-T8	WA-12SB
Format	tower	centre large	tower grand	subwoofer
Enclosure type	sealed	sealed	sealed	reflex
Bass	4 x 80mm	4 x 80mm	8 x 80mm	300mm 12"
Tweeter	25mm	25mm	25mm	-
rec amplifier	10 - 150 w	10 - 150 w	10 - 175 w	100 watts
Nom. Imp	8ohm	8ohm	8ohm	200mv for 75 w
Sens. 1W @ 1M	88 db	90 db	90 db	112 db
Freq Range at -6 dB	120hz -20khz	110hz -20khz	80hz -20khz	38 - 130 hz
Xover Freq	3.5 khz	3.5 khz	4.5khz	35 - 85 hz
volume cab	3.75 L	2.35 L	4.65 L	27 L
Freq Fb	130hz	150hz	90hz	-
AV shielding	yes	yes	yes	no
Dimensions (Hx W xD) mm	115 x 76 x 945	115 x 600 x 76	1165 x 115 x 76	445 x 600 x 250
WxD plinth	270 x 240	-	270 x 240	variable xover,35-85hz,10db steps phase reverse, auto power, defeat
finishes	hi gloss black / soft leatherette	hi gloss black / soft leatherette	hi gloss black / soft leatherette	hi gloss black / soft leatherette
net weight	6.0kg	4 .2kg	7.88kg	20.7kg

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