

Reflection



Frank Göbl

The designer of the Reference K Series

Developing loudspeakers is like living in a monastery. Strict asceticism and a focus on essentials lead to a steady improvement in virtues. For me, the new Reference K Series represents one more step towards inner maturity, outer perfection and complete sound. With its great potential it offers greater composure and more thrilling vivacity than ever before.



The Reference K Series

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dy20



Role model

The former Cistercian monastery at Eberbach was founded near the Rheingau town of Eltville in 1136. For nearly seven centuries the monks lived here in a perfectly organised community according to the strict rules of the Benedictines. This was not only extremely productive but also exceptionally successful. Their consistent and dedicated approach set new standards that endured long after their time.





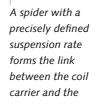






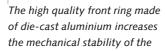


Every period has its materials



drive system, which is a particular advantage at high volumes.

basket.



manufactured in an elaborate process. Up to 20 % of the existing molecular structure of the aluminium cone is transformed into a ceramic structure and refined with tungsten particles. The result is a membrane with an optimum ratio of rigidity to

weight and improved inner damping.

Ceramic-tungsten technology

The membranes of the K Series are

Wave surround

Woofers and mid-range systems are fitted with the latest patented Canton wave surround technology. Three precisely defined wave folds provide symmetrical power, leading to perfectly balanced swing-in and swing-out behaviour, even at high volume.

Manufacturing quality

The dust cap covers the drive system and dissipates all the heat generated by the coil.

An optimised cone membrane with three dif-

ferent radii is used in the mid-range speakers

The front support of the drive system with its wave surround design allows a maximum frequency of up to 6 cm and controls the swing-in and swing-out behavior of the membran and allows maximum excursion.

of the K Series.

We develop and manufacture the loudspeaker systems of our Reference K Series in our own workshops. This is the only way we can satisfy the quality standards required, eliminate fault tolerances and achieve the high sound perfection of our premium products.





Glass fibre-reinforced polycarbonate

baskets combine the benefits of a

lightweight material with maximum

The optimised performance and design of the magnetic drive with vented pole piece enables it to hold the coil in a symmetrical field of induction.



Top performance needs optimal foundations

As the control centre of the loudspeakers, the newly developed crossovers make a vital contribution to stress-free music enjoyment at all volumes. They ensure brilliant trebles, impressive basses and optimum precision across the entire bass range.

Level adjustment

Thanks to the integrated mid-range-tweeter adjustment, the 1 K and 3 K models can be adjusted to suit the acoustics of the room and individual listening tastes. The focus is on the optimal transmission of the bass tone range in the appropriate voices.

Connection terminal

The high quality connection area with four gold-plated screwclamp terminals is suitable for cable diameters up to 10 mm² and special cable shoes. This provides secure connections with long-term stability.



Crossovers

The crossovers of the Reference 1 K and 3 K speakers discreetly separate the bass, mid-range and treble ranges. Only selected components with no tolerance are used in the manufacture of their low-resonance circuit boards. Here it is not just a matter of separating an audio signal but also of creating sounds.



Subwoofer

The powerful, 750-watt digital amplifier of the audiophile subwoofer is fitted with a high-level and low-level input. The volume, phase alignment and crossover frequency can be controlled directly from the listening position using the radio remote control. The woofer system, enclosed in a massive baffle made from strong, 50 mm multilayer laminate, works in tandem with the built-in Bass-Guide® to produce impressive bass notes up to 18 Hertz.

Exclusive cabling

Cabling is reduced to a minimum. The cables themselves are specially developed for the Reference K loudspeakers. The design, with its special core and six twisted individual conductors per phase, ensures optimum sound transmission from the connection terminal to the chassis.

Perfection begins and ends with detail

Nothing can replace volume. That is why the cabinets of the new Reference K loudspeakers are larger than before. Not in terms of height, but in terms of depth. The end result is an elegant appearance with dimensions that fit well into any living space despite the much greater internal volume.

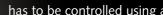
Solid cabinet design

The acoustically optimised cabinet with its organic curved baffle offers significantly improved dispersion characteristics. The solid construction of high quality 50 mm multi-layer laminate sets new standards in terms of stability. The characteristic bow shape of the cabinet is created from solid material in a special process.



Name plate

The loudspeakers of the Reference K Family are premium quality, handcrafted unique items. Before they are given a name plate complete with individual serial number, they have to pass a detailed test process with 100%.



Internal reinforcement

The enormous power generated inside a loudspeaker has to be controlled using a special, computer-optimised reinforcement. An additional, precision damping made of special fleece suppresses any vibration inside the cabinet itself.



The floorstanding loudspeakers of the Reference K Family operate with the new Bass-Guide® bass reflex system. Vibrations are directed away from the cabinet and flow noise is reduced. The usable inner volume of the loudspeaker is maximised while the external dimensions remain the same and there is greater flexibility in the set-up location. The distance from walls or corners no longer has much impact.



Technical data

Surfaces

The elegant, high gloss, "piano finish" surface is applied and polished in a 12- stage process. It gives the cabinets of the Reference K Series a sensation of extraordinary depth. Acoustically optimised, two-part fabric covers with magnetic fastenings complete the exclusive look.









High-End floorstanding speaker

	Reference 1 K	Reference 3 K	Reference 5 K
Designed as -	 High-End floorstanding speaker 	High-End floorstanding speaker	High-End floorstanding sp
Engineering principle -	- 3-way bass reflex system	3-way bass reflex system	3-way bass reflex system
Power handling (Nom/music) -	- 500/900 watts	350/600 watts	280/440 watts
Efficiency –	– 89.5 dB	89 dB	88.5 dB
Frequency response -	– 1840,000 Hz	1840,000 Hz	2040,000 Hz
Crossover frequency -	– 180/3,000 Hz	200/3,000 Hz	220/3,000 Hz
Impedance -	- 48 Ohm	48 Ohm	48 Ohm
Dimensions W x H x D -	- 18.9" x 49.2" x 27.2"	13.2" x 45.3" x 19.3"	12" x 42.3" x 17.5"
Weight –	– 134 kg	56 kg	37 kg
Special features -	 Base design with Bass-Guide®, 	Base design with Bass-Guide®,	Base design with Bass-Gui

3-way bass reflex system
3-way bass reflex system
350/600 watts
280/440 watts
170/340 watts
89 dB
88.5 dB
88.5 dB
88.5 dB
18...40,000 Hz
20...40,000 Hz
200/3,000 Hz
220/3,000 Hz
220/3,000 Hz
4...8 Ohm
4...8 Ohm
4...8 Ohm
13.2" x 45.3" x 19.3"
12" x 42.3" x 17.5"
11.4" x 39.4" x 16.5"
56 kg
37 kg
33 kg
Base design with Bass-Guide®
Base design with Bass-Guide®
Connection terminal with level adjustment





White lacquer "Piano Finish"



Connection terminal with level adjustment

Cabinet design —

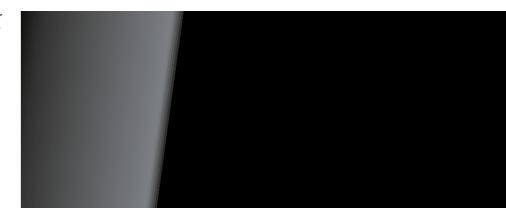




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Reference	SUB 50	K	

	Reference 9 K	Reference 30 K Center		Reference 30B 30 K
Designed as -	 High-End compact speaker 	High-End center speaker	Designed as —	High-End active subwoofer
Engineering principle -	 2-way bass reflex system 	3-way bass reflex system	Engineering principle —	Bass reflex system (Passive driver)
Power handling (Nom/music) -	- 120/200 watts	120/220 watts	Power handling (Nom/music) —	500/750 watts
Efficiency -	— 87 dB	87 dB	Frequency response —	18200 Hz
Frequency response -	- 2540,000 Hz	2640,000 Hz	Crossover frequency —	55200 Hz (adjustable)
Crossover frequency -	- 3,000 Hz	3,000 Hz	Dimensions W x H x D —	16.5" x 21.3" x 19.7"
Impedance -	- 48 Ohm	48 Ohm	Weight —	33 kg
Dimensions W x H x D -	- 9.8" x 15.7" x 15"	27.6" x 7.9" x 13.8"	Special features —	Base design with Bass-Guide®,
Weight -	– 14 kg	16.5 kg		Wireless remote control
Available accessories -	– LS 650	LS 650		
Cabinet design -			Cabinet design —	





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German loudspeaker tradition

With more than 40 years of sound experience, CANTON stands for innovative loudspeaker construction.

We offer the right sound solutions for any taste and any standard at the best possible price.

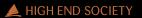
With our products we strive to give many people the opportunity to listen to music in top quality.

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Member of:



Find out more about the Reference K Series on our homepage or use the QR code.



reference.canton.de

Speaker stands are sold separately. Changes, in particular of a technical nature, and errors excepted.



