



iPaul

ANALOG AUDIOKRAFTWERK



IQ-LINE

DREAMLINE

SOUND LINE

GERMANIUM LINE

PROFI LINE

VANADIUM LINE

PLATIUNUM LINE

REFERENCE LINE



HAMMER

AMBOSS

PROFI

VANADIUM



ENCLOSURE SUBWOOFERS



WATERPROOF

INSTALLER CORNER



The steadily increasing power provided by modern car audio technology is simply too much to handle for the acoustics systems available in most of today's vehicles. Crystal-clear reproduction of complex sound passages and wide frequency ranges is something that only top-quality speaker systems can give you. And this is precisely the challenge that our engineers and technicians at rainbow have taken on-car audio technology consistent and systematic down to the very last detail.

Anyone wishing to really listen to music in the car as more than just incidental background noise needs a speaker system that, even at high volume and under difficult conditions, provides the extended linear quality and the necessary dynamics to properly handle car audio.

rainbow's engineers have taken developments a step further and, with their IQ Line, provide systems that are at once car-specific and capable of meeting the most exacting audio demands. The different crossovers for the left-hand and right-hand sides help correct, precisely where needed, the phase and level of the axes radiating from the mid-ranges and tweeters, thus ensuring optimal car acoustics-tuned perfectly for your auto. And these systems can be fitted precisely into your car's original factory audio system location – just PLUG AND PLAY – no ifs, ands, or buts.

The development and manufacturing of rainbow's car speaker systems is performed solely in Germany – ensuring high-quality components, a reasonable price/performance ratio, and state-of-the-art technical know-how.

Just sit back and enjoy the next few pages. Here, you can believe what you read.

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iPaul 2.400

- 2 x 130 Watt RMS at 4 Ohm
- 2 x 200 Watt RMS at 2 Ohm
- 1 x 400 Watt RMS at 4 Ohm
- Frequency Response: 10 Hz – 35 kHz
- 12 dB High-Pass: 15 Hz – 500 Hz
- 12 dB Low-Pass: 50 Hz – 5 kHz
- 12 dB Band-Pass: 15 Hz – 5 kHz
- Phase Shifter 0° to 180°
- Gain and Phase control via Remote control with 5m cable
- Signal Noise Ratio: > 95 dBA
- Total Harmonic Distortions: < 0.05 % @ 1W / 4 Ohm
- Damping Factor: > 200
- Operating Voltage: 11 V – 16 V
- Connector for external fan module (optional)
- Connector for temperature-sense and display module (optional)
- Connector for peak power doubling module (optional)
- Output stage 2 Ohm stable, bridge and tri-mode capable
- Integrated flat fuse 2 x 25 A in accordance with DIN-standard, replaceable from outside
- Part.-No: 271050
- Part.-No: 271060 White Edition



iPaul 4.300

- 4 x 90 Watt RMS at 4 Ohm
- 4 x 140 Watt RMS at 2 Ohm
- 2 x 270 Watt RMS at 4 Ohm
- Frequency Response: 10 Hz – 35 KHz
- 12 dB High-Pass: 15 Hz – 5 kHz (FRONT)
- 12 dB High-Pass: 15 Hz – 500 Hz (REAR)
- 12 dB Low-Pass: 50 Hz – 5 kHz (REAR)
- 12 dB Band-Pass: 15 Hz – 5 kHz (REAR)
- Phase shifter 0° to 180° (REAR)
- Gain and Phase control via Remote control with 5m cable (REAR)
- Signal Noise Ratio: > 95 dBA
- Total Harmonic Distortions: < 0.05 % @ 1W / 4 Ohm
- Damping Factor: > 200
- Operating Voltage: 11 V – 16 V
- Connector for external fan module (optional)
- Connector for temperature-sense and display module (optional)
- Connector for peak power doubling module (optional)
- Output stage 2 Ohm stable, bridge and tri-mode capable
- Integrated flat fuse 2 x 40 A in accordance with DIN-standard, replaceable from outside
- Part.-No: 271051
- Part.-No: 271061 White Edition



Phase + gain control via remote control

Power terminals for up 35 mm²/AWG 2 cables

Active crossover

Connector for external fan and temperature sensor

Black Power Module connector

Illuminated logo

Its purist design is a genuine highlight in the realm of amplifiers. The Rainbow iPaul series will make fans of functional car HiFi aesthetics hearts beat a little faster. The iPaul is remarkable in its sound, performance, reliability and design as well as its well thought-out remote control concept. An innovative cooling concept with inwardly positioned fan blades, in conjunction with an extravagant housing design, lends it a futuristic flair. With the iPaul series Rainbow satisfies the stringent requirements typical of most car HiFi enthusiasts, impressively combining reliable Rainbow quality with elegant design, consistent ergonomic operability and uncompromising sound standards.

- Performance amplifier with integrated high-current MOSFET-switch power supply
- Amplifier design for minimal noise
- Reversible safety switch-off with thermal monitoring
- Safety switch-off with DC current to loudspeakers
- Safety switch-off for loudspeaker short-circuit and loudspeaker under impedance
- Softstart remote muting for suppression of switch-on peaks
- Low power requirements for remote-muting electrical circuits
- High-tech semi-SMD built structure with low coupling conductive wiring
- Palladium-plated 25-35 mm² power and 10 mm² loudspeaker connection
- Interference-proof certified by European E-Norm

Our recommendation for iPaul:



Sound Line, Dream Line, see page 8 ff.



rainbow 10" - 12" Amboss and Hammer, see page 22 ff.

iPaul DM2000

- 1 x 2000 Watt at 1 Ohm
- 1 x 1000 Watt RMS at 1 Ohm
- 1 x 1900 Watt RMS at 2 Ohm in „Strapping Mode“
- Frequency response: 10 Hz - 240 Hz
- 24 dB subsonic filter from 10 Hz - 50 Hz
- 24 dB lowpass filter from 40 Hz - 240 Hz
- Bass Boost 45 Hz, 0 - 12 dB variable
- Phase shifter 0° to 180° (REAR)
- Gain and Phase control via Remote control with 5m cable
- Signal Noise Ratio: > 90 dBA
- Total Harmonic Distortions: < 0.2 % @ 1W / 4 Ohm
- Damping Factor: > 160
- Operating Voltage: 11 V - 16 V
- Connector for external fan module (optional)
- Connector for temperature-sense and display module (optional)
- Integrated flat fuse 3 x 30 A in accordance with DIN-standard, replaceable from outside
- Part.-No: 271052
- Part.-No: 271062 White Edition



iPaul White Edition

- iPaul 2.400 White Edition Part.-No.: 271060
- iPaul 4.300 White Edition Part.-No.: 271061
- iPaul DM 2000 White Edition Part.-No.: 271062
- iPaul BPM 245.000 White Edition Part.-No.: 271063



iPaul BPM 245.000

Peak Power Booster for iPaul 2.400 / 4.300

- Part.-No: 271093
- Part.-No: 271063 White Edition



Nearly doubles the peak power of iPaul 2.400 / 4.300

iPaul Fan Module

Part.-No: 271091 (iPaul Serial-No. > 0500) *1



iPaul Temperature / Voltage Display & Fan Module

Part.-No: 271090 (iPaul Serial-No. > 0500) *2



Our recommendation for iPaul DM2000:



Enclosure subwoofers, see page 26 ff.



rainbow 10" - 12" Amboss and Hammer, see page 22 ff.

*1 iPaul Temperature / Voltage Display & Fan Module Part.-No: 271095 (iPaul Serial-No. <= 0500)

*2 iPaul Fan Module Part.-No: 271094 (iPaul Serial-No. <= 0500)



Butyl-rubber surround of woofer



Sideview tweeter CAL 20 silk



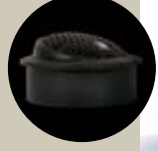
3 times attenuation



Vented aluminium voice coil former



Tweeter dome CAL 20 silk



Adjustable tweeter CAL 20 in flush mount

Climb in, shut the doors, and experience the sound.

That is the motto of our Dream Line products. You enjoy absolutely balanced music. The CSX/SAX/KX coaxial loudspeakers and the SLX component systems are right for you. With the addition of a AMBOSS or HAMMER subwoofer you will have the perfect rainbow high-quality sound system.

The perfect balance of the upgraded version of our CSX/SAX/SLX line produces an astoundingly powerful sound inside the car. The new silk tweeter with a neodymium magnet is placed in the sideview mirror or dashboard. Connected via the external 2 x 12 dB crossover, it provides highly defined resolution and a remarkable feeling of space and depth. The 13 cm and 16 cm speakers are installed as woofers/midranges in the original manufacturer's locations and give a rich, dry bass sound in the vehicle.

The Woofer:

- Folded, powder coated steel basket
- Palladium-plated screw terminal
- Butyl rubber surround for controlled cone motion
- Coated natural fiber cone for authentic sound reproduction
- Innovative dust cap form of reinforced natural fiber for optimal frequency response
- Extremely flexible copper lead wires

- High temperature, vented 25 mm Kapton voice coil former for minimal current loss
- Linear Nomex spider
- Powerful ferrite-ceramics magnet

The Tweeter:

- Tweeter dome of natural fiber silk mixture
- Neoprene surround for controlled motions
- Vented voice coil former with stainless steel lead wires
- Powerful neodymium magnet
- Ferrofluid voice coil cooling
- Extremely small installation diameter of 36 mm
- Flush mount and angle mount included

The Crossover:

The CSX/SAX/SLX crossovers are placed in showcase housings. Premium quality parts, including air coils and MKT capacitors, ensure the perfect sound performance, while palladium plating enables the best possible connections. The variable tweeter attenuation level with reversible thermal protection prevents excessive treble output.

SLX 210

2-way 4 Inch Compo Set 20 mm silk dome tweeter Max. 80 Watt Part-No.: 231575

Frequency response: 75 - 21.000 Hz Minimum amplifier power: 30 Watt

SLX 210 DELUXE

2-way 4 Inch Compo Set 20 mm silk dome tweeter Max. 80 Watt Part-No.: 231608

Frequency response: 75 - 21.000 Hz Minimum amplifier power: 30 Watt

SLX 230

2-way 5.25 Inch Compo Set 20 mm silk dome tweeter Max. 120 Watt Part-No.: 231504

Frequency response: 60 - 21.000 Hz Minimum amplifier power: 30 Watt

SLX 230 DELUXE

2-way 5.25 Inch Compo Set 20 mm silk dome tweeter Max. 120 Watt Part-No.: 231609

Frequency response: 60 - 21.000 Hz Minimum amplifier power: 30 Watt

SLX 265

2-way 6.5 Inch Compo Set 20 mm silk dome tweeter Max. 150 Watt Part-No.: 231505

Frequency response: 50 - 21.000 Hz Minimum amplifier power: 30 Watt

SLX 265 DELUXE

2-way 6.5 Inch Compo Set 20 mm silk dome tweeter Max. 150 Watt Part-No.: 231610

Frequency response: 50 - 21.000 Hz Minimum amplifier power: 30 Watt

Woofer-sets:

Midrange 100 SLX	Max. 80 Watt	Part-No.: 231054
Woofer 130 SLX	Max. 120 Watt	Part-No.: 231053
Woofer 165 SLX	Max. 150 Watt	Part-No.: 231052

Tweeter-sets:

CAL 20 SILK	Max. 150 Watt	Part-No.: 231604
CAL 20 SILK + Crossover	Max. 150 Watt	Part-No.: 231603



Our recommendation for Dream Line SLX:



rainbow 10" - 12" Amboss and Hammer, see page 22 ff.



iPaul 2.400, iPaul 4.300 see page 4 ff.

Every system is supplied in pairs incl. parts for assembly, rings and grills. For further information see page 34

SLX 365.20 Deluxe

3-way 6.5 Inch Compo Set 20 mm silk dome tweeter Max. 150 Watt Part-No.: 231618
 Frequency response: 50 - 21.000 Hz Minimum amplifier power: 30 Watt



SLX 265.20 X-PLAIN

2-way 6.5 Inch Compo Set 20 mm silk dome tweeter Max. 100 Watt Part-No.: 231616
 Frequency response: 45 - 21.000 Hz Minimum amplifier power: 50 Watt



SLX 220.20 X-PLAIN

2-way 8 Inch Compo Set 20 mm silk dome tweeter Max. 150 Watt Part-No.: 231617
 Frequency response: 40 - 21.000 Hz Minimum amplifier power: 75 Watt



Wooferset 165 X-PLAIN INSTALLER

6.5 Inch Compo Set Max. 100 Watt Part-No.: 231026



Wooferset 200 X-PLAIN

8 Inch Compo Set Max. 150 Watt Part-No.: 231579



Every system is supplied in pairs incl. parts for assembly, rings and grills. For further information see page 34



The difference between Dream Line CSX and SLX

- Coated paper cone for tighter bass reproduction
- Synthetic phase plug for optimized mids

CSX 265

2-way 6.5 Inch Compo Set 20 mm silk dome tweeter Max. 150 Watt Part-No.: 231456
 Frequency response: 50 - 21.000 Hz Minimum amplifier power: 30 Watt

Woofersatz:

Wooferset 165 CSX Max. 150 Watt Part-No.: 231057

CSX 465.20

2-way Double Woofer 6.5 Inch Compo Set 20 mm silk dome tweeter Max. 300 Watt Part-No.: 231064
 Frequency response: 50 - 21.000 Hz Minimum amplifier power: 60 Watt



For all metal cone fans rainbow offers a metal cone woofer component set with the impressive tight, crisp bass rendition typical of its kind and a low price that is easy on your wallet.

SAX 230.20

2-way 5.25 Inch Compo Set 20 mm silk dome tweeter Max. 150 Watt Part-No.: 231065
 Frequency response: 50 - 21.000 Hz Minimum amplifier power: 30 Watt



SAX 265.20

2-way 6.5 Inch Compo Set 20mm silk dome tweeter Max. 150 Watt Part-No.: 231066
 Frequency response: 50 - 21.000 Hz Minimum amplifier power: 30 Watt



Woofersets:

Wooferset 130 SAX Max. 120 Watt Part-No.: 231055
 Wooferset 165 SAX Max. 150 Watt Part-No.: 231056

Our recommendation for Dream Line CSX/SAX:

rainbow 10" - 12" Amboss and Hammer, see page 22 ff.

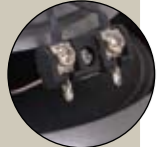
iPaul 2.400, iPaul 4.300 see page 4 ff.

Every system is supplied in pairs incl. parts for assembly, rings and grills. For further information see page 35

Every system is supplied in pairs incl. parts for assembly, rings and grills. For further information see page 35



15 mm foil tweeter with neodymium magnet



Double terminal and woofer



Tweeter cable route through magnet

rainbow has created a reasonably-priced, premium solution for those who find that original speakers sound too flat. By upgrading our KX Series with butyl rubber surround and 15 mm foil-neodymium-tweeter, we ensure the KX system really delivers what it promises. The tweeter is mounted on an axis in the acoustic centre of these 2-way coaxial speakers to allow precise sound reproduction and a wide dynamic range.

Speakers sized at 8.7 cm, 10 cm, 12 cm, 13 cm, and 16.5 cm, 9 x 5 cm, 5" x 7", or 6" x 9" allow the KX line to fit into most factory assembly spaces. With a peak load of up to 130 W, a sophisticated coated natural fiber cone, and a powerful magnet system these speakers can handle even your most demanding audio requirements.

The Coaxial Speaker:

- Folded, powder-coated steel basket
 - Butyl rubber surround for controlled cone motion
 - Coated natural fiber cone for authentic sound reproduction
 - Extremely flexible copper lead wires
 - Kapton voice coil former with integrated low pass coil
 - Linear Nomex spider
 - Palladium-plated screw terminals
 - Powerful ferrite-ceramics magnet
 - 15 mm foil tweeter dome with high temperature neodymium magnet
- Integrated crossover and tweeter power protection (PTC)
 - Tweeter connection through magnet to prevent asymmetrical movements of the mid-bass cone
 - Tweeter level adjustments on speaker terminals possible

KX 87 INSTALLER*

3.5 Inch Coaxial Set 15 mm foil tweeter Max. 45 Watt Part-No. : 231551
Frequency response: 80 - 21.000 Hz Minimum amplifier power: 15 Watt

KX 100 INSTALLER*

4 Inch Coaxial Set 15 mm foil tweeter Max. 60 Watt Part-No. : 231153
Frequency response: 75 - 21.000 Hz Minimum amplifier power: 20 Watt

KX 120 INSTALLER*

4.75 Inch Coaxial Set 15 mm foil tweeter Max. 100 Watt Part-No. : 231522
Frequency response: 65 - 21.000 Hz Minimum amplifier power: 30 Watt

KX 130

5.25 Inch Coaxial Set 15 mm foil tweeter Max. 120 Watt Part-No. : 231516
Frequency response: 65 - 21.000 Hz Minimum amplifier power: 30 Watt

KX 9 x 15 INSTALLER*

4 x 6 Inch Coaxial Set 15 mm foil tweeter Max. 60 Watt Part-No. : 231522
Frequency response: 70 - 21.000 Hz Minimum amplifier power: 20 Watt

KX 165

6.5 Inch Coaxial Set 15 mm foil tweeter Max. 120 Watt Part-No. : 231517
Frequency response: 55 - 21.000 Hz Minimum amplifier power: 30 Watt

KX 5 x 7

5 x 7 Inch Coaxial Set 15 mm foil tweeter Max. 120 Watt Part-No. : 231537
Frequency response: 70 - 21.000 Hz Minimum amplifier power: 30 Watt

KX 6 x 9

6 x 9 Inch Coaxial Set 15 mm foil tweeter Max. 130 Watt Part-No. : 231538
Frequency response: 70 - 21.000 Hz Minimum amplifier power: 30 Watt



Our recommendation for Dream Line KX:



rainbow 10" - 12" Amboss and Hammer, see page 22 ff.



iPaul 2.400, iPaul 4.300 see page 4 ff.

* Installer version without grills and rings



Rainbow raises the bar for price/value relationship and design again with the new SLC component system. All the components incorporate the newest technologies, with cones and magnet motors developed using the most modern software and hardware. The SLC component systems are fitted with an attractively designed 25 mm silk dome tweeter to meet the highest sound demands. This ensures that the systems handle natural sound reproduction with ease. The woofer's long-stroke design, with a natural fiber cone, enhances its capabilities for a full, crisp bass. When coupled with a well-positioned tweeter and fed over a high-quality crossover, a premium quality installation based on German acoustical technology is ensured. The included flush and angle mounts guarantee an elegant tweeter installation.

The Woofer:

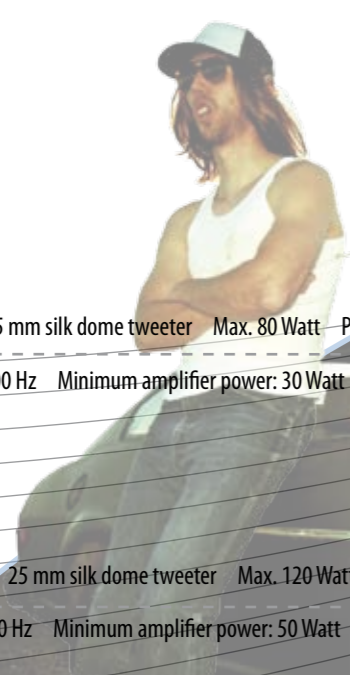
- Low resonance aluminum die-cast basket with optimal air-flow
- Guaranteed rust-free palladium-plated stainless steel terminals for high quality cables with large diameters
- Butyl rubber surround for controlled cone motion
- Coated natural fiber cone for authentic sound reproduction
- Innovative dust cap form of reinforced natural fiber for optimal frequency response
- Extremely flexible surface-refined lead wires woven into the spider for absolute rattle-free operation
- High-temperature, vented 30 mm Kapton voice coil former for minimal current loss
- Linear vented Nomex spider to prevent compression problems
- Powerful, vented ferrite-ceramics magnet for improved magnet motor cooling

The Tweeter:

- 25 mm silk dome tweeter up to 30 kHz
- Neoprene surround for controlled motions
- Vented voice coil former with stainless steel lead wires
- Powerful neodymium magnet
- Ferrofluid voice coil cooling
- Extremely shallow mounting depth of 5 mm

The Crossover:

The new SLC crossovers are remarkable for their novel round design and brilliant inner workings. Fitted with low-impedance and low-distortion foil capacitors, they provide a highly saturated and distortion-free sound. Faithful phase linearity throughout the treble range is thereby guaranteed. Bi-amping fans get their money's worth, as the new SLC crossovers offer a separate entrance for woofer and tweeter. Of course the palladium-plated stainless steel terminals provide for premium, rust-free connections. The variable four-level tweeter attenuation, together with the HALO-PTC system, prevents excessive output in the treble range.



SLC 210.25 NG

2-way 4 Inch Coaxial Set 25 mm silk dome tweeter Max. 80 Watt Part-No.: 231103

Frequency response: 75 - 30.000 Hz Minimum amplifier power: 30 Watt

SLC 230.25 NG

2-way 5.25 Inch Compo Set 25 mm silk dome tweeter Max. 120 Watt Part-No.: 231144

Frequency response: 60 - 30.000 Hz Minimum amplifier power: 50 Watt

SLC 238.25 NG

2-way 5 x 7 Inch Compo Set 25 mm silk dome tweeter Max. 150 Watt Part-No.: 231568

Frequency response: 55 - 30.000 Hz Minimum amplifier power: 50 Watt

SLC 365.25 NG

3-way 6.5 Inch Compo Set 25 mm silk dome tweeter Max. 150 Watt Part-No.: 231135

Frequency response: 50 - 21.000 Hz Minimum amplifier power: 50 Watt

SLC 365.25 KICK NG* 6.5 Inch Max. 150 Watt Part-No.: 231134

SLC 265.25 NG

2-way 6.5 Inch Compo Set 25 mm silk dome tweeter Max. 150 Watt Part-No.: 231143

Frequency response: 50 - 30.000 Hz Minimum amplifier power: 50 Watt

SLC 265.25 KICK NG*

2-way 6.5 Inch Compo Set 25 mm silk dome tweeter Max. 150 Watt Part-No.: 231154

Frequency response: 80 - 30.000 Hz Minimum amplifier power: 75 Watt

SLC 265.25 X-PLAIN PRO

6.5 Inch Max. 120 Watt 25 mm silk dome tweeter Part-No.: 231619

Frequency response: 45 - 30.000 Hz Minimum amplifier power: 50 Watt

SLC 220.25 WOB

8 Inch Max. 150 Watt 25 mm silk dome tweeter Part-No.: 231620

Frequency response: 40 - 30.000 Hz Minimum amplifier power: 75 Watt

* More information about Kick-Bass see separate Kick-Bass brochure

Woofer-sets:

Midrange 100 SLC NG	Max. 80 Watt	Part-No.: 231 061
Woofer 130 SLC NG	Max. 120 Watt	Part-No.: 231062
Woofer 165 SLC NG	Max. 150 Watt	Part-No.: 231067
Woofer 165 SLC KICK NG	Max. 150 Watt	Part-No.: 231068
Woofer-Set 165 X-PLAIN PRO	Max. 120 Watt	Part-No.: 231027
Woofer-Set 200 WOB	Max. 150 Watt	Part-No.: 231036

Tweeter-sets:

CAL 25 SILK SLC	Max. 150 Watt	Part-No.: 231431
CAL 25 Silk SLC + Crossover	Max. 150 Watt	Part-No.: 231432



shallow depth

shallow depth

Our recommendation for Sound Line SLC



rainbow 10" - 12" Amboss and Hammer, see page 22 ff.



iPaul 2.400, iPaul 4.300 see page 4 ff.



SAC 230.25

2-way 5.25 Inch Compo Set 25 mm silk dome tweeter Max. 120 Watt Part-No.: 231414

Frequency response: 60 - 30.000 Hz Minimum amplifier power: 50 Watt

SAC 265.25 KICK*

2-way 6.5 Inch Compo Set 25 mm silk dome tweeter Max. 150 Watt Part-No.: 231416

Frequency response: 80 - 30.000 Hz Minimum amplifier power: 75 Watt

SAC 265.25

2-way 6.5 Inch Compo Set 25 mm silk dome tweeter Max. 150 Watt Part-No.: 231415

Frequency response: 60 - 30.000 Hz Minimum amplifier power: 50 Watt

SAC 465.25

2-way Double Woofer 6.5 Inch Compo Set 25 mm silk dome tweeter Max. 300 Watt Part-No.: 231417

Frequency response: 50 - 30.000 Hz Minimum amplifier power: 100 Watt

SAC 465.25 KICK*

2-way Double Woofer 6.5 Inch Compo Set 25 mm silk dome tweeter Max. 300 Watt Part-No.: 231418

Frequency response: 80 - 30.000 Hz Minimum amplifier power: 100 Watt

* More information about Kick-Bass see separate Kick-Bass brochure



Variable 4-steps attenuation

Sideview CAL 25 Silk SLC

Dome CAL 25 Silk SLC

Screw terminal and vented spider

Copper ring on pole piece

Vented magnet system

With the new SAC component system from rainbow the Sound Line now also has something for sound enthusiasts with an ear for quality. All the components incorporate the newest technologies, with cones and magnet motors developed using the most modern software and hardware. The SAC component systems are fitted with an elegantly designed 25 mm silk dome tweeter. This ensures that the systems handle natural sound reproduction with ease. The woofer's long-stroke design, with an aluminum compound cone, enhances its capabilities for a full, crisp bass. When coupled with a well-positioned tweeter and fed over a high-quality crossover, a premium quality installation based on German acoustical technology is ensured. The included flush and angle mounts guarantee an elegant tweeter installation.

The Woofer:

- Low resonance aluminum die-cast basket with optimal air-flow
- Guaranteed rust-free palladium-plated stainless steel terminals for high quality cables with large diameters
- Butyl rubber surround for controlled cone motion
- Aluminum compound cone for crisp and dry bass
- Innovative dust cap form of aluminum compound material for optimal frequency response
- Extremely flexible surface-refined lead wires woven into the spider for absolute rattle-free operation
- High-temperature, vented 30 mm aluminum voice coil former for minimal current loss
- Linear vented Nomex spider to prevent compression problems
- Powerful, vented ferror-ceramics magnet for improved magnet motor cooling
- Very low distortions because of impedance and magnet field linearization

The Tweeter:

- 25 mm silk dome tweeter up to 30 kHz
- Neoprene surround for controlled motions
- Vented voice coil former with stainless steel lead wires
- Powerful neodymium magnet
- Ferrofluid voice coil cooling
- Extremely shallow mounting depth of 5 mm

The Crossover:

The new SAC crossovers are remarkable for their novel round design and brilliant inner workings. Fitted with low-impedance and low-distortion foil capacitors, they provide a highly saturated and distortion-free sound. Faithful phase linearity throughout the treble range is thereby guaranteed. Bi-amping fans get their money's worth, as the new SAC crossovers offer a separate entrance for woofer and tweeter. Of course the palladium-plated stainless steel terminals provide for premium, rust-free connections. The variable four-level tweeter attenuation, together with the HALO-PTC system, prevents excessive output in the treble range.

Woofer-sets:

Woofer 130 SAC	Max. 120 Watt	Part-No.: 231419
Woofer 165 SAC	Max. 150 Watt	Part-No.: 231420
Woofer 165 SAC KICK	Max. 150 Watt	Part-No.: 231422

Tweeter-sets:

CAL 25 SILK SLC	Max. 150 Watt	Part-No.: 231431
CAL 25 SILK SLC+ Crossover	Max. 150 Watt	Part-No.: 231432

Every system is supplied in pairs incl. parts for assembly, rings and grills. For further information see page 39

Our recommendation for Sound Line SAC:



rainbow 10" - 12" Amboss and Hammer, see page 22 ff.



iPaul 2.400, iPaul 4.300 see page 4 ff.



SL 120 NG INSTALLER *

4.75 Inch Coaxial Set 20 mm silk dome tweeter Max. 80 Watt Part-No.: 231156

Frequency response: 60 - 25.000 Hz Minimum amplifier power 30 Watt

SL 130 NG

5.25 Inch Coaxial Set 25 mm silk dome tweeter Max. 100 Watt Part-No.: 231157

Frequency response: 60 - 30.000 Hz Minimum amplifier power 30 Watt

SL 165 NG

6.5 Inch Coaxial Set 25 mm silk dome tweeter Max. 150 Watt Part-No.: 231159

Frequency response: 50 - 30.000 Hz Minimum amplifier power 30 Watt

SL 5 x 7 NG INSTALLER*

5 x 7 Inch Coaxial Set 20 mm silk dome tweeter Max. 100 Watt Part-No.: 231163

Frequency response: 55 - 25.000 Hz Minimum amplifier power 30 Watt

SL 6 x 9 NG

6 x 9 Inch Triaxial Set 20 mm silk dome tweeter 25 mm midrange Max. 160 Watt Part-No.: 231164

Frequency response: 40 - 25.000 Hz Minimum amplifier power 30 Watt



Double terminal tweeter and woofer

Butyl-rubber surround of woofer

360° Turnable tweeter 20° inclination

Tweeter cable route through magnet

PTC Tweeter protection

Vented aluminium voice coil former

Introduction Sound Line SL NG:

The SL coaxial systems, with their crossovers cleverly concealed inside, make for trouble-free installation and ensure perfect sound quality. The 20 - 25 mm silk dome tweeter system gives the speaker a very flat feel yet ensures defined treble resolution. The mid-bass, with its natural fiber cone, is responsible for brilliant mids and gives the system voluminous depth.

The Coaxial Loudspeaker:

- Low resonance aluminum die-cast basket with optimal air-flow or folded, powder-coated steel basket
- Guaranteed rust-free palladium-plated stainless steel terminals for high quality cables with large diameters
- Butyl rubber surround for controlled cone motion
- Coated natural fiber cone for natural and warm sound reproduction
- Extremely flexible surface refined lead wires woven into the spider for absolute rattle-free operation.
- Vented spider to avoid compression effects
- Kapton voice coil former with integrated low pass coil
- Linear vented Nomex spider
- Powerful ferro-ceramics magnet
- 20 mm silk dome tweeter up to 25 kHz with high temperature neodymium magnet
- 25 mm silk dome tweeter up to 30 kHz (SL 130 NG, SL 165, SL 6x9 NG) with high temperature neodymium magnet
- Integrated crossover and tweeter power protection (PTC)
- Tweeter connection through magnet to prevent asymmetrical movement of the mid-bass cone
- Tweeter level adjustments on speaker terminals possible

SL 100 NG INSTALLER*

4 Inch Coaxial Set 20 mm silk dome tweeter Max. 60 Watt Part-No.: 231155

Frequency response: 70 - 25.000 Hz Minimum amplifier power 20 Watt



Our recommendation for Sound Line SL:



rainbow 10" - 12" Amboss and Hammer, see page 22 ff.



iPaul 2.400, iPaul 4.300 see page 4 ff.



Twistable logo

Universal mounting bracket



SPA-365 WP

3-way loudspeaker 6.5 inch Woofer 20 mm tweeter Max. 60 Watt Part-No.: 200002

Frequency response: 60 - 20.000 Hz Minimum amplifier power: 15 Watt

WATER PROOF

UV PROOF

CO-650 WP

6.5 inch Coaxial Set 15 mm foil tweeter Max. 50 Watt Part-No.: 190160

Frequency response: 60 - 20.000 Hz Minimum amplifier power: 15 Watt



**600 HOURS
UV STABILIZED
TESTED**

**400 HOURS
SALTWATER SPLASH
TESTED**

IP44 RATING





10" AMBOSS

10 Inch Subwoofer Max. 1100 Watt 2 x 2 Ohm Gehäuse: Geschlossen ab 9 l Bassreflex ab 25 l Part-No.: 231392



12" AMBOSS

12 Inch Subwoofer Max. 1200 Watt 2 x 2 Ohm Gehäuse: Geschlossen ab 15 l Bassreflex 35 l Part-No.: 231393



Extended pole piece

High quality screw terminal

Vented spider

The new SPL gateway drug of Rainbow in latest technology. Kinky sound pressure and oversized power handling produce a lush and powerful deep bass up to acute hearing loss.

- Cone excursion x-max: +/- 20 mm
- Aluminium die cast basket black with extensive machined finish
- Extensive and clever ventilation of the magnet system
- Monster surround for SPL
- Spider ventilation via basket
- High permeable double magnet 3,5 kg
- PA-proved lead wires \varnothing : 1,6 mm

PEAK POWER HANDLING

1200 WATT

DUAL VOICE COIL

2 x 2 OHM

Our recommendation for Amboss:



Sound Line, Dream Line, see page 8 ff.



rainbow Audiokraftwerk, iPaul, see page 4 ff.



10" HAMMER

10 Inch Subwoofer Max. 550 Watt 2 x 2 Ohm Gehäuse: Geschlossen ab 10 | Bassreflex ab 25 | Part-No.: 231390



12" HAMMER

12 Inch Subwoofer Max. 750 Watt 2 x 2 Ohm Gehäuse: Geschlossen ab 20 | Bassreflex ab 33 | Part-No.: 231391



Extended pole piece

Push terminal

Vented spider

**Bass from its best.
Not too small, extremely loud, very deep and super dynamic. These are the parameters of the new HAMMER series for bass enclosures with extreme fun factor.**

- Cone excursion x-max: +/- 15 mm
- Aluminium die cast basket black with optimized air flow
- Extensive and clever ventilation system of spider and back plate
- Special designed monster surround for SPL
- Spider ventilation via basket
- High permeable double magnet 3,5 kg
- PA-proved lead wires \varnothing : 1,6 mm

PEAK POWER HANDLING

750 WATT

DUAL VOICE COIL

2 x 2 OHM

Our recommendation for Hammer:



Sound Line, Dream Line, see page 8 ff.



rainbow Audiokraftwerk, iPaul, see page 4 ff.



Bass power without installation stress and space issues.

For bass generation there is one simple and valid rule. Nothing can take the place of cone area. The larger the cone area the more powerfully and loudly the subwoofer plays. A disadvantage of too large cones is not being able to install them in the car without using plate shears. To avoid this problem it is possible to install a very large woofer in a small enclosure relying on the principle that a small enclosure will fit into a larger one (trunk). Because of the pressure chamber effect in the car the frequency range below 50 Hz is amplified up to 20 dB (10 times). This fortuitous effect could be of practical use in car bass generation.

The subwoofer enclosures use the optimized loudspeaker parameters for small and powerful enclosures to offer lots of power enjoyment. Deep tuning frequency of 25 – 35 Hz, high volume levels of up to 149 dB, and super-heightened sensitivity boost the enclosures' performance up to hearing loss levels.

Enclosure Technology:

The 22 mm medium-density fiberboard enclosure construction with high interior density functions as an additional bass impulse stabilizer and prevents bass impulse delay caused by strong decoupling. The back of the enclosure is sealed with a sound-absorbent insulating mat. The application of this technology ensures precise bass reproduction and provides, in conjunction with the subwoofer chassis, heightened sound quality.

- Flame-resistant carpet felt in accordance with German automobile standards
- Solvent-free glue in accordance with European Community standards
- Medium density fiberboard/particle board compound glued,

bearing E1-seal of German production and guaranteed formaldehyde free

- Screwed, airtight enclosure for dynamic load capacity
- Chromium-plated terminal with gasket und 2 x 4 mm² OFC copper cable
- Interior attenuation of enclosure to prevent reflections between enclosure and speaker cone
- Solid stainless steel protector rods to prevent speaker cone damage
- Optimized aero-ports to prevent air current noise
- Deep bass thanks to optimized enclosure calculations
- All enclosures tested to ensure airtight and readjusted as necessary

Terminals

3" Aeroport

Stainless steel protector rods

12" CYCLONE ESW

12" Subwoofer ported Max. 600 Watt SPL 138 dB Part-No.: 231583

STREAM 10" NG

10" Subwoofer sealed Max. 550 Watt SPL 133 dB Part-No.: 231124

TORNADO 10" NG

10" Subwoofer ported Max. 550 Watt SPL 136 dB Part-No.: 231584

STREAM 12" NG

12" Subwoofer sealed Max. 750 Watt SPL 143 dB Part-No.: 231480

HURRICANE 12" NG

12" Subwoofer ported Max. 750 Watt SPL 146 dB Part-No.: 231585

TWISTER LEVEL 2 NG

12" Subwoofer ported Max. 750 Watt SPL 145 dB Part-No.: 231192

TWISTER LEVEL 4 NG

2 x 12" Subwoofer ported Max. 1500 Watt SPL 149 dB Part-No.: 231126

TSUNAMI 12"

12" Subwoofer ported Max. 1200 Watt SPL 148 dB Part-No.: 231394



Our recommendation for Enclosure subwoofers:



Sound Line, Dream Line, see page. 8 ff.



rainbow Audiokraftwerk, iPaul, see page 4 ff.



CAL 20-100 Silk WOB

20 mm silk dome tweeter in 100 mm adapter Max. 120 Watt Part-No.: 241128

Frequency response: 2.000 – 21.000 Hz Suitable for: Seat Arosa, Cordoba, Ibiza, Inka, Toledo, VW Golf 3, Passat



CAL 25 Silk WOB

25 mm silk dome tweeter with VW adaption Max. 150 Watt Part-No.: 241170

Frequency response: 1.800 – 30.000 Hz Suitable for: Seat Ibiza, Leon, Toledo, Skoda Fabia, Octavia, VW Golf 4, Golf 5, Passat



Midrange 80 IQ

80 mm midrange Max. 80Watt Part-No.: 241164

Frequency response: 80 – 8.000 Hz Suitable for: VW Golf 2, Seat Toledo, VW Passat



CP 80

80 mm Center Speaker Max. 80Watt Part-No.: 231173

Frequency response: 80 – 8.000 Hz



CP 50

50 mm Center Speaker with crossover Max. 40 Watt Part-No.: 231176

Frequency response: 500 – 20.000 Hz



Telephone-Loudspeaker

Telephone Loudspeaker in enclosure Max. 10 Watt Part-No.: 231183

Frequency response: 300 – 4.000 Hz



2 x 2 (Kick) Woofer Crossover

Additional crossover to connect second woofer Max. 400 Watt Part-No.: 252020

Frequency response: 20 – 350 Hz Suitable for all 4 Ohm woofers



ACCESSORIES DREAM LINE SLX/CSX/SAX



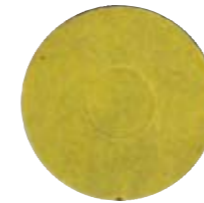
RING
included



TWEETER STAND
included



FLUSH MOUNT
included



ADHESIVE PAD
included



SPACER MOUNT
included



SPACER RING
included



DASHBOARD BRACKET
included

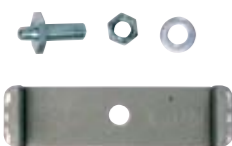
ACCESSORIES SOUND LINE SAC/SLC



FLUSH MOUNT CAL 25
included
Part-No.: 161140



TWEETER STAND CAL 25
optional
Part-No.: 161270



BRACKET SET
included
with threaded bolt
Part-No.: 151152



MAGNET CUP CAL 25
optional
Part-No.: 161254



ANGLE MOUNT CAL 25
included
Part-No.: 161141

ACCESSORIES ENCLOSURE SUBWOOFERS



AEROPORT
Length 0,4m
Part-No.: 161206



V2A Protector Rods
(for rainbow enclosure subwoofer)

- 8" Enclosure Part-No.: 151125
- 12" Enclosure short Part-No.: 151126
- 12" Enclosure long Part-No.: 151127
- 10" Enclosure Part-No.: 151128



SELF-LOCKING ANCHOR
Einschlagdübel für Schutzbügel
Part-No.: 151061

	CAL 20-100 Silk WOB	CAL 25 Silk WOB	Midrange 80 IQ	CP 80	CP 50	Telephone/Voice Loudspeaker	2x2 (Kick) Woofer Weiche
Part Number / Art-Nr.:	241128	241170	241164	231173	231176	231183	252020
Peak power / Impulsbelastbarkeit:	120 Watt	150 Watt	80 Watt	80 Watt	40 Watt	10 Watt	400 Watt
Power rating / Nennbelastbarkeit:	80 Watt	100 Watt	60 Watt	60 Watt	20 Watt	5 Watt	200 Watt
Sensitivity / Wirkungsgrad:	90 dB 1W/1m	90 dB 1W/1m	83 dB 1W/1m	83 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	-
Frequency response / Übertragungsbereich:	2.000 - 21.000 Hz	1.800 - 30.000 Hz	80 - 8.000 Hz	80 - 8.000 Hz	500 - 20.000 Hz	300 - 4.000 Hz	20 - 350 Hz
Impedance / Impedanz:	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm
Slope / Flankensteilheit:	*12 dB/Okt.	*12 dB/Okt.	*12 dB/Okt.	*12 dB/Okt.	12 dB/Okt.	-	12 dB/Okt.
Crossover frequency / Übernahmefrequenz:	* 3.800 Hz	* 3.400 Hz	* > 70 Hz	* > 70 Hz	500 Hz	-	350 Hz
Level attenuation / Pegelabsenkungen:	-	-	-	-	-	-	-
Thermal protection / Thermoschutz:	-	-	-	-	HALO	-	-
Woofer / Tieftöner:	-	-	-	-	-	-	-
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	-	-	-	-	-	-	-
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	-	-	-	-	-	-	-
External Ø with edges / Außen-Ø mit Ohren:	-	-	-	-	-	-	-
Installation Ø / Einbau-Ø:	-	-	-	-	-	-	-
Fastening Ø / Befestigungsteilkreis	-	-	-	-	-	-	-
Midrange / Mitteltoner:	-	MR 80 IQ	CP 80	CP 80	CP 50	Telephone/Voice Loudspeaker	-
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	-	45 mm	45 mm	45 mm	30 mm	34 mm	-
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	-	79,5 mm	79,5 mm	79,5 mm	48 mm	71 mm	-
External Ø with edges / Außen-Ø mit Ohren:	-	-	-	-	78 mm	-	-
Installation Ø / Einbau-Ø:	-	72 mm	72 mm	72 mm	43 mm	65 mm	-
Fastening Ø / Befestigungsteilkreis	-	Snap-In	Snap-In	Snap-In	58 mm	-	-
Tweeter / Hochtoner:	-	-	-	-	-	-	-
Mounting depth / Einbautiefe:	CAL 20 Silk	CAL 25 Fabric	-	-	-	-	-
External Ø / Außen-Ø:	16 mm	11 mm	-	-	-	-	-
Installation Ø / Einbau-Ø:	99 mm	44 mm	-	-	-	-	-
Fastening Ø / Befestigungsteilkreis:	93 mm	33 mm	-	-	-	-	-

* = recommended active crossover setup / empfohlene Aktivweicheinstellungen



	iPaul 2.400	iPaul 4.300	iPaul DM2000
Art.-Nr.:	271050	271051	271052
Ausgangsleistung Stereo 4 Ω:	2 x 130 Watt RMS	4 x 90 Watt RMS	-
Ausgangsleistung Stereo 2 Ω:	2 x 200 Watt RMS	4 x 140 Watt RMS	-
Ausgangsleistung Mono 4 Ω:	1 x 400 Watt RMS	2 x 270 Watt RMS	1 x 360 Watt RMS
Ausgangsleistung Mono 2 Ω:	-	-	1 x 730 Watt RMS
Ausgangsleistung Mono 1 Ω:	-	-	1 x 1000 Watt RMS
Gesamtklirrfaktor THD + N:	<0,04%	<0,04%	<0,2%
Signal-Storabstand S/N:	>95 dBA Bewertung	>95 dBA Bewertung	>90 dBA Bewertung
Übertragungsbereich - 3 dB:	10 Hz - 35 kHz	10 Hz - 35 kHz	10 Hz - 250 Hz
Eingangsempfindlichkeit Level In:	250 mV - 6 V	250 mV - 6 V	250 mV - 6 V
Eingangsempfindlichkeit High Level In:	-	-	-
Hochpass / Subsonic - Front:	15 Hz - 500 Hz, 12 dB/Okt.	15 Hz - 5 kHz, 12 dB/Okt.	15 Hz - 50 kHz, 24 dB/Okt.
Hochpass / Subsonic - Rear:	-	15 Hz - 500 Hz, 12 dB/Okt.	-
Tiefpass - iPaul 4.300 nur Rear:	50 Hz - 5 kHz, 12 dB/Okt.	50 Hz - 5 kHz, 12 dB/Okt.	50 Hz - 250 Hz, 24 dB/Okt.
Bandpass - iPaul 4.300 nur Rear:	15 Hz - 5 kHz, 12 dB/Okt.	15 Hz - 5 kHz, 12 dB/Okt.	-
Bassanhebung:	0/6/12 dB	0/6/12 dB	0/6/12 dB
Phaseshifter:	0° - 180° stufenlos regelbar	0° - 180° stufenlos regelbar	0° - 180° stufenlos regelbar
Fernbedienung (5m Kabel):	Pegel und Phase stufenlos regelbar	Pegel und Phase stufenlos regelbar	Pegel und Phase stufenlos regelbar
Anschlußimpedance Stereo [Ω]:	2 x 4 / 2 x 2 möglich	2 x 4 / 2 x 2 möglich	-
Anschlußimpedance Mono [Ω]:	1 x 8 / 1 x 4 möglich	1 x 8 / 1 x 4 möglich	1 x 4 / 1 x 2 / 1 x 1 möglich
Anschlußimpedance Tri-Mode (Woofer + Satelliten) [Ω]:	1 x 4 + 2 x 4 Tri-Mode	1 x 4 + 2 x 4 Tri-Mode	-
Dämpfungsfaktor @ 4 Ω:	> 200	> 200	> 160
Betriebsspannung:	11V - 16V DC	11V - 16V DC	11V - 16V DC
Stromaufnahme max. @ 14.4V:	48 A @ 1% THD	71 A @ 1% THD	90 A @ 1% THD
Stromaufnahme Remote:	8 mA	8 mA	14 mA
Ruhestromaufnahme ohne Signal:	0.4 A	0.6 A	1.5 A
Temperaturüberwachung Kühlkörper:	70°C Abschaltung	70°C Abschaltung	80°C Abschaltung
Kurzschlußsicherung - Überlastung:	Sofortabschaltung	Sofortabschaltung	Sofortabschaltung
Softstart-Muting an / aus:	1s Einschaltverzögerung	1s Einschaltverzögerung	1s Einschaltverzögerung
Abmessungen: B x H x T:	355 x 60 x 250 mm	415 x 60 x 250 mm	415 x 60 x 250 mm
Gewicht:	4,5 kg	5,5 kg	5,5 kg
Zulassungsnummer:	E11 10R-024085	E11 10R-024083	E11 10R-024179

	iPaul BPM 245.000	iPaul Fan Module	iPaul Temperature / Voltage Display & Fan Module	iPaul Fan Module	iPaul Temperature / Voltage Display & Fan Module
Part Number / Art.-Nr.:	271093	271090	271091	271094	271095
Operational Voltage / Betriebsspannung:	+/- 40V DC	11 - 16DC	11 - 16 DC	11 - 16 DC	11 - 16 DC
Capacitance / Kapazität:	245.000 µF	-	-	-	-
Temperature Display Range / Temperaturanzeigebereich:	-	-	0 - 99 °C	-	0 - 99 °C
Voltage Display Range / Spannungsanzeigebereich:	-	-	0 - 20V DC	-	0 - 20V DC
Air Flow / Luftdurchsatz:	-	50 m³/h or 29.5 CFM	50 m³/h or 29.5 CFM	50 m³/h or 29.5 CFM	50 m³/h or 29.5 CFM
Dimensions W x H x D / Abmessungen B x H x T:	315 x 60 x 250 mm	80 x 80 x 25 mm	Fan / Lüfter: 80 x 80 x 25 mm	80 x 80 x 25 mm	Fan / Lüfter: 80 x 80 x 25 mm
Dimensions W x H x D / Abmessungen B x H x T:	-	-	Display / Anzeige: 91 x 58 x 15 mm	-	Display / Anzeige: 91 x 58 x 15 mm
Approval number / Zulassungsnummer:	E11 10 R - 024085	-	-	-	-
Important / Wichtig:	-	iPaul Serial No. >0500	iPaul Serial No. >0500	iPaul Serial No. <= 0500	iPaul Serial No. <= 0500



	SLX 210	SLX 210 Deluxe	SLX 230	SLX 230 Deluxe	SLX 265	SLX 265 Deluxe	SLX 365.20 Deluxe	SLX 265.20 X-Plain	SLX 220.20 X-Plain
Part Number / Art.-Nr.:	231575	231608	231504	231609	231505	231610	231618	231616	231617
Peak power / Impulsbelastbarkeit:	80 Watt	80 Watt	120 Watt	120 Watt	150 Watt	150 Watt	150 Watt	100 Watt	150 Watt
Power rating / Nennbelastbarkeit:	60 Watt	60 Watt	80 Watt	80 Watt	100 Watt	100 Watt	100 Watt	70 Watt	100 Watt
Minimum amplifier power / Mindestverstärkerleistung:	30 Watt	30 Watt	30 Watt	30 Watt	30 Watt	30 Watt	30 Watt	50 Watt	75 Watt
Sensitivity / Wirkungsgrad:	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m
Frequency response / Übertragungsbereich:	75 - 21.000 Hz	75 - 21.000 Hz	60 - 21.000 Hz	60 - 21.000 Hz	50 - 21.000 Hz	50 - 21.000 Hz	50 - 21.000 Hz	45 - 21.000 Hz	40 - 21.000 Hz
Impedance / Impedanz:	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm
Slope / Flankensteilheit:	12 dB/Okt.	2 x 12 dB/Okt.	12 dB/Okt.	2 x 12 dB/Okt.	12 dB/Okt.	2 x 12 dB/Okt.	3 x 12 dB/Okt.	2 x 12 dB/Okt.	2 x 12 dB/Okt.
Crossover frequency / Übernahmefrequenz:	4.200 Hz	4.200 Hz	4.200 Hz	4.200 Hz	4.200 Hz	4.200 Hz	450 / 4.200 Hz	4.200 Hz	4.200 Hz
Tweeter attenuation / Hochtonabsenkung:	2x	3x	2x	3x	2x	3x	3x	3x	3x
Variable low pass / Variabler Tiefpass:	-	-	-	-	-	-	-	-	-
Thermal protection / Thermoschutz:	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC
Woofer / Tieftöner:	MR 100 SLX	MR 100 SLX	W 130 SLX	W 130 SLX	W 165 SLX	W 165 SLX	W 165 SLX	W 165 X-Plain Installer	W 200 X-Plain
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	51 / 51 mm	51 / 51 mm	54 / 52 mm	54 / 52 mm	63 / 61 mm	63 / 61 mm	63 / 61 mm	42 / 39 mm	59 mm
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	100 / 130 mm	100 / 130 mm	130 / 164 mm	130 / 164 mm	166 / 180 mm	166 / 180 mm	166 / 180 mm	165 / 181 mm	205 mm
External Ø with edges / Außen-Ø mit Ohren:	124 mm	124 mm	153 mm	153 mm	-	-	-	-	-
Installation Ø / Einbau-Ø:	89 mm	89 mm	113 mm	113 mm	142 mm	142 mm	142 mm	142 mm	182 mm
Fastening Ø / Befestigungsteilkreis:	114 mm	114 mm	138 mm	138 mm	156 mm	156 mm	156 mm	156 mm	192 mm
Midrange / Mitteltoner:	-	-	-	-	-	-	MR 100 SLX	-	-
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	-	-	-	-	-	-	51 / 51 mm	-	-
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	-	-	-	-	-	-	100 / 130 mm	-	-
External Ø with edges / Außen-Ø mit Ohren:	-	-	-	-	-	-	124 mm	-	-
Installation Ø / Einbau-Ø:	-	-	-	-	-	-	89 mm	-	-
Fastening Ø / Befestigungsteilkreis:	-	-	-	-	-	-	114 mm	-	-
Tweeter / Hochtoner:	CAL 20 Silk	CAL 20 Silk	CAL 20 Silk	CAL 20 Silk	CAL 20 Silk	CAL 20 Silk	CAL 20 Silk	CAL 20 Silk	CAL 20 Silk
Mounting depth / Einbautiefe:	11 / 14 ² mm	11 / 14 ² mm	11 / 14 ² mm	11 / 14 ² mm	11 / 14 ² mm	11 / 14 ² mm	11 / 14 ² mm	11 / 14 ² mm	11 / 14 ² mm
External Ø / Außen-Ø:	36 / 45 ² mm	36 / 45 ² mm	36 / 45 ² mm	36 / 45 ² mm	36 / 45 ² mm	36 / 45 ² mm	36 / 45 ² mm	36 / 45 ² mm	36 / 45 ² mm
Installation Ø / Einbau-Ø:	33 / 41 ² mm	33 / 41 ² mm	33 / 41 ² mm	33 / 41 ² mm	33 / 41 ² mm	33 / 41 ² mm	33 / 41 ² mm	-	-
Fastening Ø / Befestigungsteilkreis:	-	-	-	-	-	-	-	-	-

	CSX 265	CSX 465.20	SAX 230.20	SAX 265.20	CAL 20 Silk Set	W 165 X-Plain Installer Set	W 200 X-Plain Set
Part Number / Art.-Nr.:	231456	231064	231065	231066	231604	231026	231579
Peak power / Impulsbelastbarkeit:	150 Watt	300 Watt	120 Watt	150 Watt	150 Watt	100 Watt	150 Watt
Power rating / Nennbelastbarkeit:	80 Watt	160 Watt	80 Watt	80 Watt	80 Watt	70 Watt	100 Watt
Minimum amplifier power / Mindestverstärkerleistung:	30 Watt	60 Watt	30 Watt	30 Watt	-	50 Watt	75 Watt
Sensitivity / Wirkungsgrad:	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m
Frequency response / Übertragungsbereich:	50 - 21.000 Hz	50 - 21.000 Hz	60 - 21.000 Hz	50 - 21.000 Hz	2.000 - 21.000 Hz	45 - 6.000 Hz	40 - 1.000 Hz
Impedance / Impedanz:	4 Ohm	2 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm
Slope / Flankensteilheit:	2 x 12 dB/Okt.	3 x 12 dB/Okt.	2 x 12 dB/Okt.	2 x 12 dB/Okt.	* 12 dB/Okt.	-	-
Crossover frequency / Übernahmefrequenz:	4.200 Hz	4.200 Hz	4.200 Hz	4.200 Hz	* 3.800 Hz	-	-
Tweeter attenuation / Hochtonabsenkung:	3x	3x	3x	3x	(2x)	-	-
Variable low pass / Variabler Tiefpass:	-	-	3.800 / 4.800 Hz	3.800 / 4.800 Hz	-	-	-
Thermal protection / Thermoschutz:	PTC	PTC	PTC	PTC	-	-	-
Woofer / Tieftöner:	W 165 CSX	W 165 CSX	W 130 SAX	W 165 SAX	W 165 X-Plain Installer	W 200 X-Plain	W 200 X-Plain
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	62 / 60 mm	62 / 60 mm	54 / 52 mm	62 / 60 mm	-	42 / 39 mm	59 mm
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	166 / 190 mm	166 / 190 mm	130 / 164 mm	166 / 190 mm	-	165 / 181 mm	205 mm
External Ø with edges / Außen-Ø mit Ohren:	-	-	153 mm	-	-	-	-
Installation Ø / Einbau-Ø:	143 mm	143 mm	113 mm	143 mm	-	142 mm	182 mm
Fastening Ø / Befestigungsteilkreis:	156 mm	156 mm	138 mm	156 mm	-	156 mm	192 mm
Midrange / Mitteltoner:	-	-	-	-	-	-	-
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	-	-	-	-	-	-	-
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	-	-	-	-	-	-	-
External Ø with edges / Außen-Ø mit Ohren:	-	-	-	-	-	-	-
Installation Ø / Einbau-Ø:	-	-	-	-	-	-	-
Fastening Ø / Befestigungsteilkreis:	-	-	-	-	-	-	-
Tweeter / Hochtoner:	CAL 20 Silk	CAL 20 Silk	CAL 20 Silk	CAL 20 Silk	CAL 20 Silk	-	-
Mounting depth / Einbautiefe:	11 / 14 ² mm	11 / 14 ² mm	11 / 14 ² mm	11 / 14 ² mm	11 / 14 ² mm	-	-
External Ø / Außen-Ø:	36 / 45 ² mm	36 / 45 ² mm	36 / 45 ² mm	36 / 45 ² mm	36 / 45 ² mm	-	-
Installation Ø / Einbau-Ø:	33 / 41 ² mm	33 / 41 ² mm	33 / 41 ² mm	33 / 41 ² mm	33 / 41 ² mm	-	-



	KX 87 INSTALLER	KX 100 INSTALLER	KX 120 INSTALLER	KX 130	KX 165	KX 9x15 Installer	KX 5x7	KX 6x9
Part Number / Art.-Nr.:	87 mm/3.5"	100 mm/4"	120 mm/4.75"	130 mm/5.25"	165 mm/6.5"	90 x 160 mm/4" x 6"	130 x 180 mm/5" x 7"	150 x 230 mm/6" x 9"
Peak Power / Impulsbelastbarkeit:	231551 45 Watt	231153 60 Watt	231522 100 Watt	231516 120 Watt	231517 120 Watt	231552 60 Watt	231537 120 Watt	231538 130 Watt
Power rating / Nennbelastbarkeit:	25 Watt	30 Watt	60 Watt	80 Watt	80 Watt	30 Watt	80 Watt	90 Watt
Minimum amplifier power / Mindestverstärkerleistung:	15 Watt	20 Watt	30 Watt	30 Watt	30 Watt	20 Watt	30 Watt	30 Watt
Sensitivity / Wirkungsgrad:	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m
Frequency response / Übertragungsbereich:	80 - 21.000 Hz	75 - 21.000 Hz	65 - 21.000 Hz	65 - 21.000 Hz	55 - 21.000 Hz	70 - 21.000 Hz	70 - 21.000 Hz	70 - 21.000 Hz
Impedance / Impedanz:	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm
Slope / Flankensteilheit:	6 dB/Okt.	6 dB/Okt.	6 dB/Okt.	6 dB/Okt.	6 dB/Okt.	6 dB/Okt.	6 dB/Okt.	6 dB/Okt.
Crossover frequency / Übernahmefrequenz:	4.500 Hz	4.500 Hz	4.500 Hz	4.500 Hz	4.500 Hz	4.500 Hz	4.500 Hz	4.500 Hz
Thermal protection / Thermoschutz:	-	PTC	-	PTC	PTC	-	PTC	PTC
Woofer / Tieftöner:	KX 87	KX 100	KX 120	KX 130	KX 165	KX 9x15	KX 5x7	KX 6x9
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	36 mm	48 mm	48 mm	54 / 52 mm	63 / 61 mm	51 mm	59 mm	76 mm
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	87 mm	102 mm	120 mm	130 / 164 mm	166 / 180 mm	96 x 154 mm	130x183 / 146x205 mm	164x235 / 182x253 mm
External Ø with edges / Außen-Ø mit Ohren:	-	129 mm	-	153 mm	-	-	170 mm	217 mm
Installation Ø / Einbau-Ø:	79 mm	93 mm	111 mm	113 mm	142 mm	87 x 140 mm	117x171 mm	151x223 mm
Fastening Ø / Befestigungsteilkreis Ø:	Snap-In	116 mm	Snap-In	138 mm	156 mm	142 mm	155 mm	203 mm
Tweeter / Hochtöner:	CAL 15 Foil	CAL 15 Foil	CAL 15 Foil	CAL 15 Foil	CAL 15 Foil	CAL 15 Foil	CAL 15 Foil	CAL 15 Foil

2 = with flush-mount / mit Einbautopf, * = recommended active crossover setup / empfohlene Aktivweicheinstellungen

	SLC 210.25 NG	SLC 230.25 NG	SLC 238.25 NG	SLC 265.25 NG	SLC 265.25 Kick NG	SLC 365.25 NG
Part Number / Art.-Nr.:	100 mm/4"	130 mm/5.25"	130 x 180 mm/5" x 7"	165 mm/6.5"	165 mm/6.5"	165 mm/6.5"
Peak power / Impulsbelastbarkeit:	231103 80 Watt	231144 120 Watt	231568 150 Watt	231143 150 Watt	231154 150 Watt	231135 150 Watt
Power rating / Nennbelastbarkeit:	60 Watt	80 Watt	100 Watt	100 Watt	100 Watt	100 Watt
Minimum amplifier power / Mindestverstärkerleistung:	30 Watt	50 Watt	50 Watt	50 Watt	75 Watt	50 Watt
Sensitivity / Wirkungsgrad:	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m
Frequency response / Übertragungsbereich:	75 - 30.000 Hz	60 - 30.000 Hz	55 - 30.000 Hz	50 - 30.000 Hz	80 - 30.000 Hz	50 - 30.000 Hz
Impedance / Impedanz:	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm
Slope / Flankensteilheit:	2 x 12 dB/Okt.	2 x 12 dB/Okt.	2 x 12 dB/Okt.	2 x 12 dB/Okt.	2 x 12 dB/Okt.	3 x 12 dB/Okt.
Crossover frequency / Übernahmefrequenz:	3.200 Hz	3.200 Hz	3.600 Hz	3.200 Hz	3.200 Hz	350 / 3.200 Hz
Tweeter attenuation / Hochtonabsenkung:	4x	4x	3x	4x	4x	5x
Midrange attenuation / Mitteltonabsenkung:	-	-	-	-	-	1x
Variable Low Pass / Variabler Tiefpass:	3.200 / 3.800 Hz	3.200 / 3.800 Hz	-	3.200 / 3.800 Hz	3.200 / 3.800 Hz	-
Thermal protection / Thermoschutz:	HALO + PTC	HALO + PTC	HALO + PTC	HALO + PTC	HALO + PTC	HALO + PTC
Woofer / Tieftöner:	MR 100 SLC NG	W 130 SLC NG	W 5x7 SLC	W 165 SLC NG	W 165 SLC Kick NG	W 165 SLC NG
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	48 / 45 mm	58 / 56 mm	59 mm	62 / 60 mm	65 / 63 mm	62 / 60 mm
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	103 / 140 mm	133 / 165 mm	130 x 183 / 146 x 205 mm	166 / 180 mm	166 / 190 mm	166 / 180 mm
External Ø with edges / Außen-Ø mit Ohren:	127 mm	151 mm	-	-	-	-
Installation Ø / Einbau-Ø:	93 mm	120 mm	117 x 171 mm	145 mm	143 mm	145 mm
Fastening Ø / Befestigungsteilkreis:	114 mm	138 mm	155 mm	156 mm	156 mm	156 mm
Midrange / Mitteltöner:	-	-	-	-	-	MR 100 SLC NG
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	-	-	-	-	-	48 / 45 mm
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	-	-	-	-	-	103 / 140 mm
External Ø with edges / Außen-Ø mit Ohren:	-	-	-	-	-	127 mm
Installation Ø / Einbau-Ø:	-	-	-	-	-	93 mm
Fastening Ø / Befestigungsteilkreis:	-	-	-	-	-	114 mm
Tweeter / Hochtöner:	CAL 25 Silk SLC	CAL 25 Silk SLC	CAL 25 Silk SLC	CAL 25 Silk SLC	CAL 25 Silk SLC	CAL 25 Silk SLC
Mounting depth / Einbautiefe:	15 mm	15 mm	15 mm	15 mm	15 mm	15 mm
External Ø / Außen-Ø:	46 mm	46 mm	46 mm	46 mm	46 mm	46 mm
Installation Ø / Einbau-Ø:	49 mm	49 mm	49 mm	49 mm	49 mm	49 mm
Fastening Ø / Befestigungsteilkreis:	-	-	-	-	-	-



	SIC 365.25 Kick NG	CAL 25 Silk SLC Set	MR 100 SLC NG Set	W 130 SLC NG Set	W 165 SLC NG Set	W 165 SLC Kick NG Set	W 165 X-Plain Pro Set	W 200 WOB Set
Part Number / Art.-Nr.:	165 mm/6.5"	231431 + 231432	100 mm/4"	130 mm/5.25"	165 mm/6.5"	165 mm/6.5"	165 mm/6.5"	200 mm/8"
Peak power / Impulsbelastbarkeit:	231134	150 Watt	231061	231062	231067	231068	231027	231036
Power rating / Nennbelastbarkeit:	150 Watt	100 Watt	80 Watt	120 Watt	150 Watt	150 Watt	120 Watt	150 Watt
Minimum amplifier power / Mindestverstärkerleistung:	100 Watt	-	60 Watt	80 Watt	100 Watt	100 Watt	80 Watt	100 Watt
Sensitivity / Wirkungsgrad:	75 Watt	-	30 Watt	50 Watt	50 Watt	50 Watt	50 Watt	75 Watt
Frequency response / Übertragungsbereich:	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m
Impedance / Impedanz:	80 - 30.000 Hz	1.600 - 30.000 Hz	75 - 8.000 Hz	60 - 6.000 Hz	50 - 6.000 Hz	80 - 6.000 Hz	45 - 6.000 Hz	40 - 5.000 Hz
Slope / Flankensteilheit:	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm
Crossover frequency / Übernahmefrequenz:	3 x 12 dB/Okt.	* 12 dB/Okt.	-	-	-	-	-	-
Tweeter attenuation / Hochtonabsenkung:	350 / 3.200 Hz	* 3.400 Hz	-	-	-	-	-	-
Midrange attenuation / Mitteltonabsenkung:	5x	(4x)	-	-	-	-	-	-
Variable low pass / Variabler Tiefpass:	1x	-	-	-	-	-	-	-
Thermal protection / Thermoschutz:	-	(PTC)	-	-	-	-	-	-
Woofer / Tieftöner:	W 165 SLC Kick NG	-	-	W 130 SLC NG	W 165 SLC NG	W 165 SLC Kick NG	W 165 X-Plain Pro	W 200 WOB
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	65 / 63 mm	-	-	58 / 58 mm	62 / 60 mm	65 / 63 mm	43 / 41 mm	73 mm
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	166 / 190 mm	-	-	133 / 165 mm	166 / 180 mm	166 / 190 mm	166 / 190 mm	208 mm
External Ø with edges / Außen-Ø mit Ohren:	-	-	-	151 mm	-	-	-	-
Installation Ø / Einbau-Ø:	143 mm	-	-	120 mm	145 mm	143 mm	143 mm	179 mm
Fastening Ø / Befestigungsteilkreis:	156 mm	-	-	138 mm	156 mm	156 mm	156 mm	192 mm
Midrange / Mitteltoner:	MR 100 SLC NG	-	MR 100 SLC NG	-	-	-	-	-
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	51 / 51 mm	-	48 / 45 mm	-	-	-	-	-
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	100 / 130 mm	-	103 / 140 mm	-	-	-	-	-
External Ø with edges / Außen-Ø mit Ohren:	124 mm	-	127 mm	-	-	-	-	-
Installation Ø / Einbau-Ø:	89 mm	-	93 mm	-	-	-	-	-
Fastening Ø / Befestigungsteilkreis:	114 mm	-	114 mm	-	-	-	-	-
Tweeter / Hochtoner:	CAL 25 Silk SLC	CAL 25 Silk SLC	-	-	-	-	-	-
Mounting depth / Einbautiefe:	15 mm	15 mm	-	-	-	-	-	-
External Ø / Außen-Ø:	46 mm	46 mm	-	-	-	-	-	-
Installation Ø / Einbau-Ø:	49 mm	49 mm	-	-	-	-	-	-
Fastening Ø / Befestigungsteilkreis:	-	-	-	-	-	-	-	-

* = recommended active crossover setup / empfohlene Aktivweicheinstellungen

	SAC 230.25	SAC 265.25	SAC 265.25 Kick	SAC 465.25	SAC 465.25 Kick	SAC 465.25 Kick	CAL 25 Silk SLC
Part Number / Art.-Nr.:	130 mm / 5.25"	165 mm / 6.5"	165 mm / 6.5"	165 mm / 6.5"	165 mm / 6.5"	165 mm / 6.5"	CAL 25 Silk SLC
Peak power / Impulsbelastbarkeit:	231414	231415	231416	231417	231418	231418	231431 + 231432
Power rating / Nennbelastbarkeit:	120 Watt	150 Watt	150 Watt	300 Watt	300 Watt	300 Watt	150 Watt
Minimum amplifier power / Mindestverstärkerleistung:	80 Watt	100 Watt	100 Watt	200 Watt	200 Watt	200 Watt	100 Watt
Sensitivity / Wirkungsgrad:	50 Watt	50 Watt	75 Watt	100 Watt	100 Watt	100 Watt	-
Frequency response / Übertragungsbereich:	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m
Impedance / Impedanz:	60 - 30.000 Hz	60 - 30.000 Hz	80 - 30.000 Hz	50 - 30.000 Hz	80 - 30.000 Hz	80 - 30.000 Hz	1.600 - 30.000 Hz
Slope / Flankensteilheit:	4 Ohm	4 Ohm	4 Ohm	2 Ohm	2 Ohm	2 Ohm	4 Ohm
Crossover frequency / Übernahmefrequenz:	2 x 12 dB/Okt.	2 x 12 dB/Okt.	2 x 12 dB/Okt.	3 x 12 dB/Okt.	3 x 12 dB/Okt.	3 x 12 dB/Okt.	* 12 dB/Okt.
Tweeter attenuation / Hochtonabsenkung:	3.200 Hz	3.200 Hz	3.200 Hz	350 / 3.200 Hz	350 / 3.200 Hz	350 / 3.200 Hz	* 3.400 Hz
Variable low pass / Variabler Tiefpass:	4x	4x	4x	4x	4x	4x	(4x)
Thermal protection / Thermoschutz:	3.200 / 3.800 Hz	3.200 / 3.800 Hz	3.200 / 3.800 Hz	3.200 / 3.800 Hz	3.200 / 3.800 Hz	3.200 / 3.800 Hz	-
Woofer / Tieftöner:	HALO + PTC	HALO	HALO	HALO	HALO	HALO	(PTC)
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	W 130 SAC	W 165 SAC	W 165 SAC Kick	W 165 SAC	W 165 SAC Kick	W 165 SAC Kick	-
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	58 / 56 mm	62 / 60 mm	62 / 60 mm	62 / 60 mm	62 / 60 mm	62 / 60 mm	-
External Ø with edges / Außen-Ø mit Ohren:	133 / 165 mm	166 / 180 mm	166 / 180 mm	166 / 180 mm	166 / 180 mm	166 / 180 mm	-
Installation Ø / Einbau-Ø:	151 mm	-	-	-	-	-	-
Fastening Ø / Befestigungsteilkreis:	120 mm	145 mm	145 mm	145 mm	145 mm	145 mm	-
Midrange / Mitteltoner:	138 mm	156 mm	156 mm	156 mm	156 mm	156 mm	-
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	-	-	-	-	-	-	-
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	-	-	-	-	-	-	-
External Ø with edges / Außen-Ø mit Ohren:	-	-	-	-	-	-	-
Installation Ø / Einbau-Ø:	-	-	-	-	-	-	-
Fastening Ø / Befestigungsteilkreis:	-	-	-	-	-	-	-
Tweeter / Hochtoner:	CAL 25 Silk SLC	CAL 25 Silk SLC	CAL 25 Silk SLC	CAL 25 Silk SLC	CAL 25 Silk SLC	CAL 25 Silk SLC	CAL 25 Silk SLC
Mounting depth / Einbautiefe:	15 mm	15 mm	15 mm	15 mm	15 mm	15 mm	15 mm
External Ø / Außen-Ø:	46 mm	46 mm	46 mm	46 mm	46 mm	46 mm	46 mm
Installation Ø / Einbau-Ø:	49 mm	49 mm	49 mm	49 mm	49 mm	49 mm	49 mm
Fastening Ø / Befestigungsteilkreis:	-	-	-	-	-	-	-

* = recommended active crossover setup / empfohlene Aktivweicheinstellungen



	W 130 SAC Set	W 165 SAC Set	W 165 SAC Kick Set
Part Number / Art.-Nr.:	130 mm/5.25"	165 mm/6.5"	165 mm/6.5"
Peak power / Impulsbelastbarkeit:	231419	231420	231422
Power rating / Nennbelastbarkeit:	120 Watt	150 Watt	150 Watt
Minimum amplifier power / Mindestverstärkerleistung:	80 Watt	100 Watt	100 Watt
Sensitivity / Wirkungsgrad:	50 Watt	50 Watt	50 Watt
Frequency response / Übertragungsbereich:	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m
Impedance / Impedanz:	60 - 6.000 Hz	50 - 6.000 Hz	80 - 6.000 Hz
Slope / Flankensteilheit:	40hm	40hm	40hm
Crossover frequency / Übernahmefrequenz:	-	-	-
Thermal protection / Thermoschutz:	-	-	-
Woofer / Tieftöner:	W 130 SAC	W 165 SAC	W 165 SAC Kick
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	58 / 58 mm	62 / 60 mm	62 / 60 mm
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	133 / 165 mm	166 / 180 mm	166 / 180 mm
External Ø with edges / Außen-Ø mit Ohren:	151 mm	-	-
Installation Ø / Einbau-Ø:	120 mm	145 mm	145 mm
Fastening Ø / Befestigungsteilkreis:	138 mm	156 mm	156 mm
Midrange / Mitteltoner:	-	-	-
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	-	-	-
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	-	-	-
External Ø with edges / Außen-Ø mit Ohren:	-	-	-
Installation Ø / Einbau-Ø:	-	-	-
Fastening Ø / Befestigungsteilkreis:	-	-	-
Tweeter / Hochtoner:	-	-	-
Mounting depth / Einbautiefe:	-	-	-
External Ø / Außen-Ø:	-	-	-
Installation Ø / Einbau-Ø:	-	-	-
Fastening Ø / Befestigungsteilkreis:	-	-	-
* = recommended active crossover setup / empfohlene Aktivweicheinstellungen			

	SL 100 NG Installer	SL 120 NG Installer	SL 130 NG	SL 165 NG	SL 5x7 NG Installer	SL 6x9 NG
Part Number / Art.-Nr.:	100 mm / 4"	120 mm / 4.75"	130 mm / 5.25"	165 mm / 6.5"	130 x 180 mm	150 x 230 mm / 6x9"
Peak power / Impulsbelastbarkeit:	231155	231156	231157	231159	231163	231164
Power rating / Nennbelastbarkeit:	60 Watt	80 Watt	100 Watt	150 Watt	100 Watt	160 Watt
Minimum amplifier power / Mindestverstärkerleistung:	30 Watt	40 Watt	60 Watt	80 Watt	60 Watt	100 Watt
Sensitivity / Wirkungsgrad:	20 Watt	30 Watt	30 Watt	30 Watt	30 Watt	30 Watt
Frequency response / Übertragungsbereich:	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	90 dB 1W/1m	91 dB 1W/1m
Impedance / Impedanz:	70 - 25.000 Hz	60 - 25.000 Hz	60 - 30.000 Hz	50 - 30.000 Hz	55 - 25.000 Hz	40 - 25.000 Hz
Slope / Flankensteilheit:	40hm	40hm	40hm	40hm	40hm	40hm
Crossover frequency / Übernahmefrequenz:	6 dB	6 dB	6 dB	6 dB	6 dB	6 dB
Thermal protection / Thermoschutz:	4.800 Hz	4.800 Hz	3.800 Hz	3.800 Hz	4.800 Hz	3.800 / 6.800 Hz
Woofer / Tieftöner:	PTC	PTC	PTC	PTC	PTC	PTC
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	-	-	-	-	-	-
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	48 / 48 mm	54 mm	58 / 56 mm	62 / 60 mm	59 mm	86 mm
External Ø with edges / Außen-Ø mit Ohren:	102 / 130 mm	120 mm	133 / 165 mm	166 / 180 mm	130x183 / 146x205 mm	164x235 / 182x253 mm
Installation Ø / Einbau-Ø:	129 mm	-	151 mm	-	-	-
Fastening Ø / Befestigungsteilkreis:	92 mm	110 mm	120 mm	145 mm	117x171 mm	152x223 mm
Midrange / Mitteltoner:	115 mm	Snap-in	138 mm	156 mm	155 mm	204 mm
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	-	-	-	-	-	-
External Ø w/o / w. ring / Außen-Ø ohne / mit Ring:	-	-	-	-	-	-
External Ø with edges / Außen-Ø mit Ohren:	-	-	-	-	-	-
Installation Ø / Einbau-Ø:	-	-	-	-	-	-
Fastening Ø / Befestigungsteilkreis:	-	-	-	-	-	-
Tweeter / Hochtoner:	CAL 20 Silk	CAL 20 Silk	CAL 25 Silk SILC	CAL 25 Silk SILC	CAL 20 Silk	CAL 20 Silk
Mounting depth / Einbautiefe:	-	-	-	-	-	-
External Ø / Außen-Ø:	-	-	-	-	-	-
Installation Ø / Einbau-Ø:	-	-	-	-	-	-
Fastening Ø / Befestigungsteilkreis:	-	-	-	-	-	-
* = recommended active crossover setup / empfohlene Aktivweicheinstellungen						



* = recommended active crossover setup / empfohlene Aktivweicheinstellungen

	CO-650 WP	SPA-365 WP
	165 mm/6.5"	165 mm/6.5"
Part Number / Art.-Nr.:	190160	200002
Peakpower / Impulsbelastbarkeit:	50 Watt	60 Watt
Power rating / Nennbelastbarkeit:	25 Watt	30 Watt
Minimum amplifier power / Mindestverstärkerleistung:	15 Watt	15 Watt
Sensitivity / Wirkungsgrad:	90 dB 1W/1m	89 dB 1W/1m
Frequency response / Übertragungsbereich:	60 - 20.000 Hz	60 - 20.000 Hz
Impedance / Impedanz:	4 Ohm	4 Ohm
Slope / Flankensteilheit:	1 x 12 dB/Okt.	3 x 12 dB/Okt.
Crossover frequency / Übernahmefrequenz:	5.500 Hz	5.500 / 8.000 Hz
Thermal protection / Thermoschutz:	PTC	PTC
Water proof / Spritzwasserfest	X	X
UV proof / UV beständig	X	X
Woofer / Tieftöner:		W 165 PP
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	65 mm	-
External Ø w/o / ring / Außen-Ø ohne / mit Ring:	181 mm	-
External Ø with edges / Außen-Ø mit Ohren:	-	-
Installation Ø / Einbau-Ø:	132 mm	-
Fastening Ø / Befestigungsteilkreis Ø:	165 mm	-
Midrange / Mitteltöner:		DMR 30
Mounting depth w/o / w. ring / Einbautiefe ohne / mit Ring:	-	-
External Ø w/o / ring / Außen-Ø ohne / mit Ring:	-	-
External Ø with edges / Außen-Ø mit Ohren:	-	-
Installation Ø / Einbau-Ø:	-	-
Fastening Ø / Befestigungsteilkreis Ø:	-	-
Tweeter / Hochtöner:	CAL 15 Mylar	CAL 20 Foil
Mounting depth / Einbautiefe:	-	-
External Ø / Außen-Ø:	-	-
Installation Ø / Einbau-Ø:	-	-
Fastening Ø / Befestigungsteilkreis:	-	-
Endlosure / Gehäuse:		
Mounting bracket / Haltebügel:		+/- 90° adjustable / verdrehbar
Dimensions (H x W x D) / Abmessungen (H x B x T):		281 x 204 x 204 mm
Weight / Gewicht:		2,50 kg



	10" Hammer	12" Hammer	10" Amboss	12" Amboss
Part-No.	25 cm 231390	30 cm 231391	25 cm 231392	30 cm 231393
Peak power handling	550	750	1100	1200
Nominal power handling	300	400	550	600
Frequency response	28-200	25-200	28-200	25-200
DC-Resistance	2 x 2	2 x 2	2 x 2	2 x 2
Max. SPL in car (ported)	136	146	136	146
Magnet weight	2650	3650	3400	3400
Frame diameter	268	316	275	325
Mounting diameter	234	286	234	284
Basket rim height w/o / w. ring	10 / 18	10 / 18	8 / 18	8 / 18
Mounting depth	136	146	165	175
Overall depth	150	161	180	194
Magnet diameter	160	186	181	185
Displacement	2,6	4,3	3,5	4,5
Suitable for...	Enclosure	Enclosure	Enclosure	Enclosure
F _s	24,00	21,00	27,00	25,00
R _e dc*	3,80	3,80	2 x 2,0	2 x 2,0
Q _{ms}	3,40	2,65	2,92	2,93
Q _{es}	0,51	0,38	0,35	0,38
Q _{ts}	0,38	0,34	0,32	0,32
L _e *	1,10	1,12	1,70	3,30
V _{as} (Sd)	35,00	145,00	24,00	65,00
S _d	330,00	510,00	347,00	530,00
Z @ 100 Hz*	4,70	4,70	5,50	5,90
Z @ 1 kHz*	17,00	16,00	24,00	25,00
Z @ 10 kHz*	54,00	55,00	86,00	53,00
R _{ms}	7,30	5,60	10,80	11,00
X _{ms}	30,00	30,00	40,00	40,00
Endlosure				
Sealed minimum	10	20	9	15
Ported minimum	25	33	25	35
Aeroport-tube Ø / length	3 / 24	3 / 25	3 / 27	3 / 29
				Zoll / cm



Lined writing area on page 46, featuring horizontal lines and a decorative grey curved shape at the bottom.

Lined writing area on page 47, featuring horizontal lines and a decorative grey curved shape at the bottom.

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