

# K&F CA 1515-9 – SP



- 2-way full-range system with multi-purpose enclosure and integrated driver and power amplifier technology
- 15" low-mid chassis  
1.5" high-frequency driver on a rotatable 90° x 50° CD horn
- Max. SPL 129 dB (peak/1 m)

The CA 1515-9 – SP is an active plug-and-play full-range system with powerful bass reproduction for high quality, assertive near field and medium-range sound reinforcement.

Even in situations where relatively little equipment is in use, the CA 1515-9 – SP, with its precise radiation characteristics, achieves a broad and extremely homogeneous acoustic coverage.

Natural reproduction of speech and music, even at very high volume levels, characterize the CA 1515-9 – SP. Additional subwoofers can often be dispensed with, even when increased bass response is required. A special phase alignment in the CA 1515-9 – SP optimizes parallel operation with all K&F SP series subwoofers.

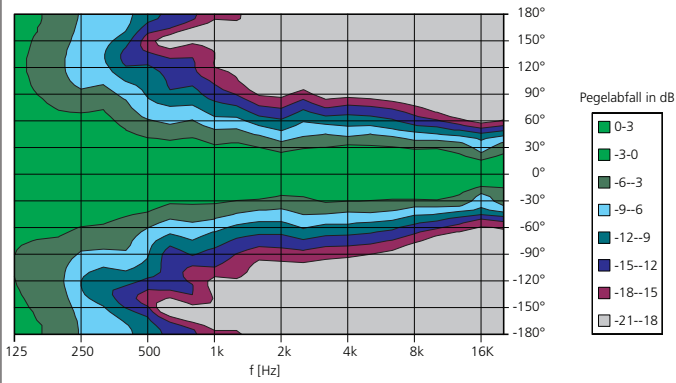
Whether as active stage monitor or complete P.A. system; the simple handling and high performance are convincing in a wide range of applications, both in mobile use and installed in theatres, opera houses, discos, live clubs, all-purpose halls or TV and radio studios.

The fan-free system electronics contain the convection-cooled and highly efficient digital 1 kW Class D power amplifier and take care of the specific basic equalization. The elaborate limiter section with RMS and peak limiters ensures a high level of operating safety. Thus equipped one can do without the addition of a controller.

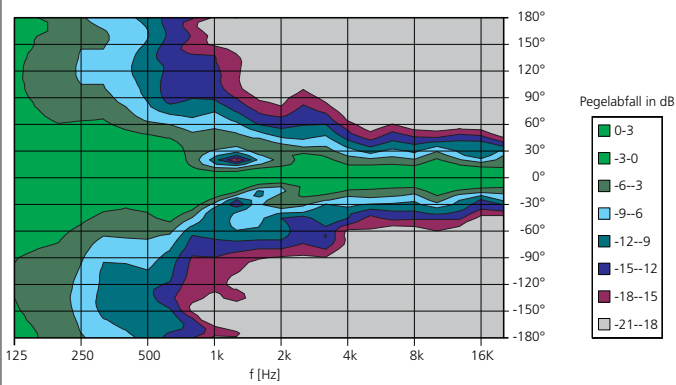
The multifunctional enclosure with 5 flying points, carrying handles and stand adapter make for a quick and secure set-up. The CA 1515-9 – SP is without doubt a highly flexible tool in the highest category of professional active systems.

<b>Loudspeaker</b>	
Design	2-way full-range system with integrated driver and power amplifier technology, bass reflex tuning
Frequency range -10 dB	48 Hz - 22 kHz (FILTERS 'OFF')
Frequency range ±3 dB	75 Hz - 19 kHz (FILTERS 'ON' and FILTERS 'OFF')
Coverage angles nominal	90° x 50° (hor. x vert.)/rotatable horn
Max. SPL	129 dB (SPL peak/1 m)
Components	1.5" high frequency driver with 75 mm titanium dome, 15" low-mid chassis, passive crossover, 1.1 kHz 12 dB/octave, self-resetting protection circuit for 1.5" chassis, time and phase correction
Input connectors	LINE IN: XLR 3 pin female, LINE OUT: XLR 3 pin male, parallel with LINE IN, Pin 1=ground/Pin 2=+signal/Pin 3=-signal
Supply voltage	230 V version: AC 195 – 250 V, 50/60 Hz
alternative	115 V version: AC 95 – 125 V, 50/60 Hz
Power consumption nominal	@ 230 V: 1.25 A @ 115 V: 2.5 A
Burst current (I <sub>rms</sub> / <500 ms)	@ 230 V: 7 A @ 115 V: 14 A
Idle Current	@ 230 V: 200 mA @ 115 V: 400 mA
Power connectors	1 x Neutrik PowerCon lockable, 1 x input and 1 x output
<b>Input Module</b>	
Input sensitivity	+6 dB/1.55 V <sub>rms</sub> for rated output
Input impedance	50 kΩ (balanced/unbalanced)
Common mode rejection	Min.: 74 dB, typical: 90 dB
Controls	Level control ±6 dB, bypass switch for the active filters (for operations with K&F System Controller), ground lift switch
Display	Bi-coloured LED: green = Power On, red = Limit / Protect
Driver circuit	High pass 45 Hz (-3 dB), 24 dB / octave (FILTERS 'ON'), Phase correction, frequency equalisation (EQ), peak limiter, RMS limiter
<b>Amplifier Module</b>	
Type	Class D
Power	1000 W @ 8 Ω (EIAJ)
Power bandwidth	10 Hz to 30 kHz
Damping factor	>500 (100 Hz), >100 (10 kHz)
S/N ratio	>105 dB (A)
Cooling	Air convection (without fan)
Protection circuits	Short circuit, over-temperature, clipping, overload
<b>Enclosure</b>	
	Trapezoidal enclosure out of 15 mm multiplex with highly resistable structured paint (PU) in RAL 9005 (black), monitor and cluster angles, 5 flying points 'allsafe Jungfalk', 2 butterfly handles, mounting flange K&M 19656, ball proof steel grille with exchangeable acoustic foam (black) in front of the grille
Weight	38.9 kg
Colour	RAL 9005 (black)
Dimensions (W x H x D)	434 x 680 x 411 mm
Option	'special finish in RAL colours'
Accessories	see catalog or <a href="http://www.kling-freitag.com">www.kling-freitag.com</a>

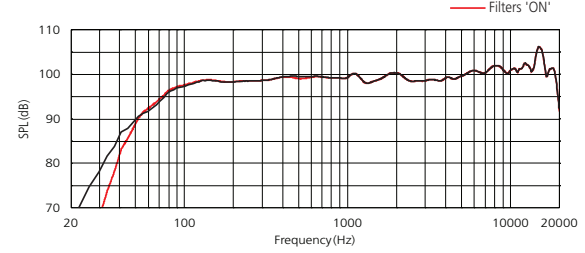
## Horizontal radiation pattern



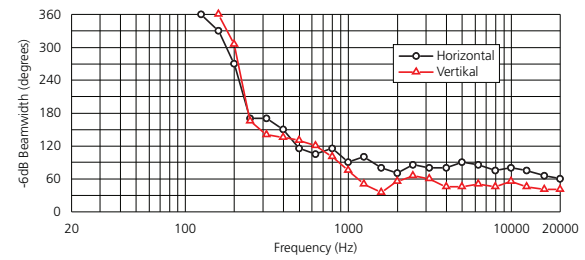
## Vertical radiation pattern



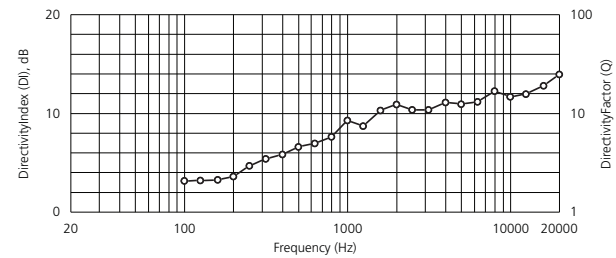
## Frequency response 'on axis'



## Beamwidth vs. frequency



## Q-Index



All measurements under free field conditions. Frequency diagrams 1/6 octave averaged, radiation and polar pattern 1/3 octave averaged. The manufacturer reserves the right to make product alterations to improve product quality without prior notice. Errors excepted.

