

K&F SWi 115E – SP



- 15" High-performance subwoofer with integrated driver and power amplifier technology
- Frequency range down to 37 Hz (-10dB)
- Version for fixed installations
- High achievable maximum SPL 126 dB (SPL peak/1 m/half room)

The SWi 115E – SP is usable as an active 'Plug & Play' subwoofer for a variety of purposes when a powerful and sophisticated bass playback with high sound pressure levels is demanded. The SWi 115E – SP exhibits a convincing bass supplement for many passive K&F speakers and all models of the active K&F SP-Series.

Characteristics of the SWi 115E – SP include its exceedingly precise bass playback, superior bass performance, compact dimensions, and sensible equipment features.

The active system electronics include a convection-cooled and highly efficient digital 1 kW power amplifier. They take over the system equalisation, determine the crossover frequency, and optimise the phase response. An extensive limiter section with RMS and peak limiters provides for a high level of operating safety.

The enclosure of the SWi 115E – SP is equipped with twelve M12 threads which allow for a wide range of installation possibilities. Depending on the application, several systems can be easily combined.

The SWi 115E – SP is equipped with a 15" state-of-the-art chassis, which can exactly process even the highest peak pulses thanks to its maximal linear excursion and load capacity. An extremely stable and elaborate tunnel and enclosure construction minimise friction loss and distortion which may occur as a result of high air velocity.

The SWi 115E – SP is a subwoofer system which ideally interlinks excellent bass playback, high maximum sound pressure, and a compact design. Optimally suited for a multitude of fixed installations where the highest quality level is essential.

Loudspeaker

Design	Bass reflex system with integrated driver and power amplifier technology	
Lower cut-off frequency -10 dB	37 Hz (FILTERS ,ON')	
Frequency range ± 3 dB	43 Hz - 150 kHz (FILTERS ,OFF')	
	42 Hz - 115 Hz (FILTERS ,ON')	
Max. SPL	125 dB (SPL peak / 1 m / free field equivalent 131 dB half room)	
Components	15" long excursion chassis, 100 mm voice coil, double centering, internal and external ventilation, Aluminium demodulation ring for minimal distortion	
Supply voltage	230 V version: AC 195-250 V, 50 / 60 Hz	
alternative	115 V version: AC 95-125 V, 50 / 60 Hz	
Rated power consumption	@ 230 V: 1.25 A	@ 115 V: 2.5 A
Max. power consump. (Irms / <500 ms)	@ 230 V: 7 A	@ 115 V: 14 A
Idle current	@ 230 V: 200 mA	@ 115 V: 400 mA
Power connectors	Neutrik PowerCon, lockable, 1 input and 1 output	

Input module

Input connectors	Pin 1 = ground / pin 2 = + signal / pin 3 = - signal LINE IN: XLR 3 pin female LINE OUT: XLR 3 pin male, parallel with LINE IN
Input sensitivity	+6 dB / 1.55 Vrms for rated output
Input impedance	50 k Ω (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 Controller), ground lift switch
Display	Bi-coloured LED: green = Power On, red = Limit / Protect
Driver circuit	High-pass 32 Hz (-3 dB), 24 dB / octave (FILTERS 'ON'), Low-pass 110 Hz (-6 dB), 24 dB / octave (FILTERS 'ON'), Phase correction, frequency equalization (EQ), peak limiter, RMS limiter

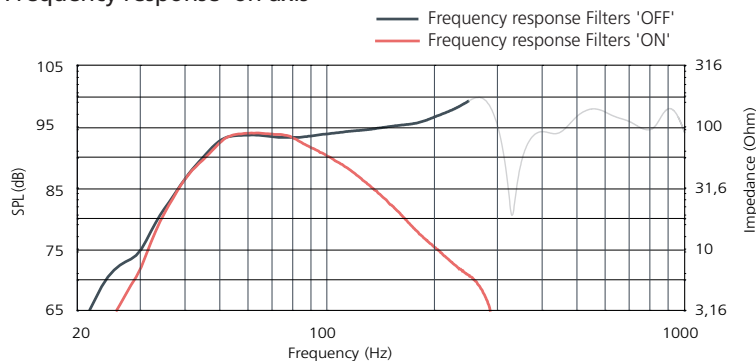
Amplifier module

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

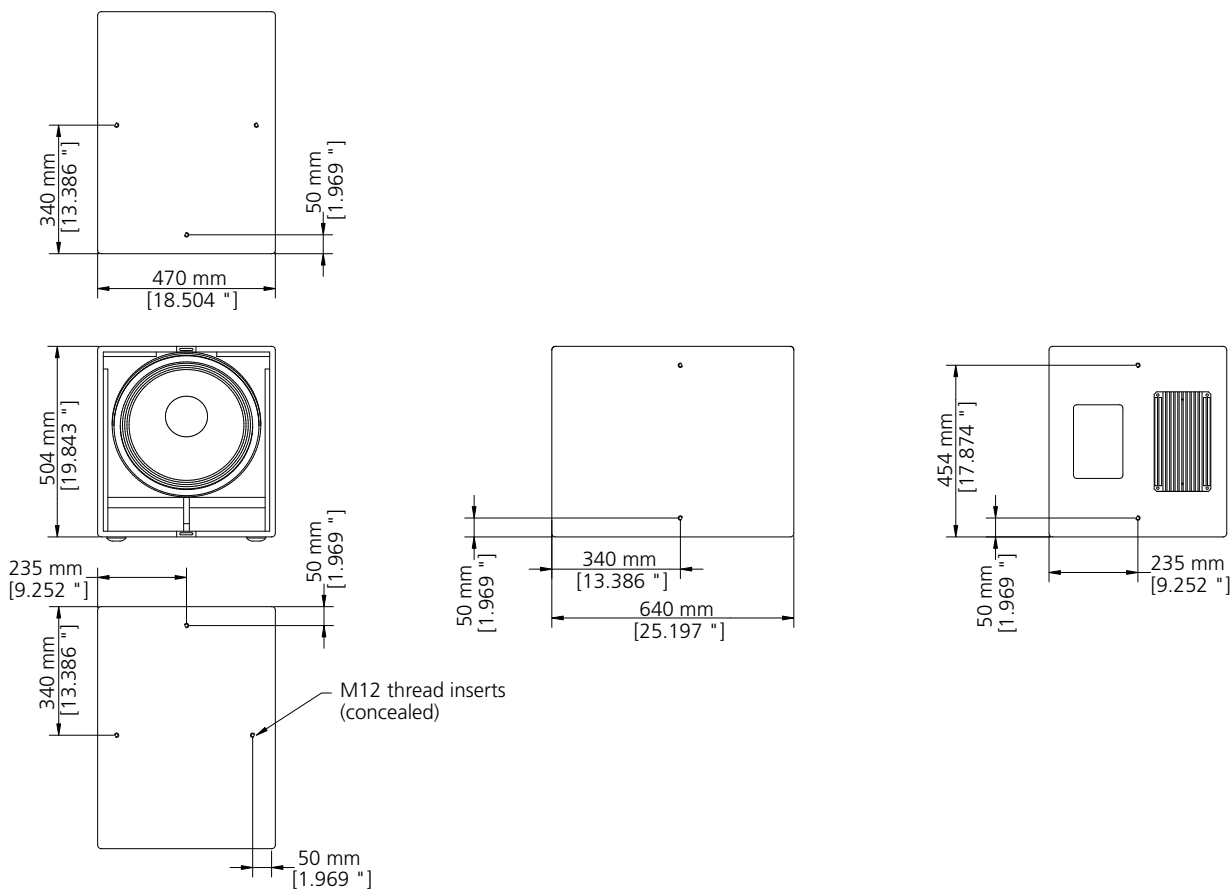
Enclosure

	15 mm frame-reinforced Multiplex plywood with highly resistant black structured paint (PU), ball proof steel grille with exchangeable, black acoustic foam
Rigging	12 x M12 thread inserts
Dimensions (W x H x D)	470 x 504 x 640 mm
Weight	37.6 kg
Options	'Special finish in RAL colours'
Accessories	see catalogue or visit www.kling-freitag.de

Frequency response 'on axis'



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



Further information and data like specifications, manuals, technical drawings as DWG, DXF and PDF files as well as data files for acoustic simulations with Ease and Ulysses are available on our web site www.kling-freitag.de

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