

CPD WH POWERED



The **CPD WH** belongs to the new generation of subwoofers that have been tuned to the modern demands of contemporary sound reinforcement. Despite its compact size, it produces an impressive, powerful and dry bass that never lacks musicality.

The loudspeaker cabinet is a hybrid principle, both vented and front-loaded, using a single 18" chassis and delivering performance of the highest quality.

A special feature of the **CPD WH** is its extremely durable 18" speaker chassis with long excursion, 100 mm voice coil and reinforced cone. Also special is the method of sound displacement.

"The air volume behind the membrane forms a resonance chamber with the reflection tunnel. This increases the radiation impedance (resistance) in the range of the resonance frequency and so the efficiency and damping at the rear of the loudspeaker.

The reflection tunnel opens into an air volume (chamber) in front of the membrane, which also increases the radiation impedance there for higher frequencies.

At the same time, the flow velocity from the bass reflex tunnel is reduced in this area by means of the shape of this chamber, which greatly reduces air noise.

This very clever design increases efficiency and sound quality, especially below 40 Hz, where compact designs often require drastic electronic correction for a smooth frequency response down to the sub-bass range."

Great emphasis was placed on high transmission quality, simplest operation and handling.

The power module of the **CPD WH** consists of a switched-mode power supply with Power-Factor-Correction, a powerful Class D amplifier provides the 18" chassis with sufficient power. The digital DSP is equipped with IIR filters that are precisely tuned and measured on the bass driver and its enclosure as a complete system. The filter controls; cross-over modes, frequency curve and limiter.

The **CPD WH** can easily be adjusted to the room via the digital operating menu on the back or remotely via KS AUDIO own software.

There are 2 symmetrical inputs provided with XLR3 M+F. When used as a mono subwoofer, with summation of both channels, the stereo signal remains available on the outputs. Depending on the used MH loudspeaker, the crossover frequency and the correct time alignment can be adjusted.



High efficient hybrid technology



18" cone woofer 4" voice-coil



High efficiency integrated amplifier



2-channel DSP with mono summation



RIG CP easy to handle flyware



2800W power handling



134dB max SPL



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Another special feature is the automatic recognition and changeover of a pending digital audio signal according to AES/EBU standard or using the Ethercon DANTETM protocol. Apart from the power switch, the following additional control elements are available: buttons for "input sensitivity" for individual adjustment to the location and the rest of the speaker system, for delay settings in m and ms, various low-pass filters and selection of the digital audio channel. Switching between analogue and digital inputs is automatic. The settings are clearly legible on the display. Further settings, such as a parametric equalizer, can be downloaded and saved via integrated Ethernet switch by the KS REMOTE software.

The small size of the **CPD WH** makes it particularly suitable

for locations where space on and around the stage is limited. In addition, the **CPD WH** is the right subwoofer to fly as a low extension of the VC LINE and the P LINE.

The integrated CP-Flyware enables safe stacking and rigging of multiple **CPD WH** but also directly connects to the VC LINE and P LINE. Three **CPD WH** subwoofers stacked on top of each other provide the right height for stacking C 1214 fullrange systems or groundtack line arrays.

As in all KS AUDIO loudspeakers, the cabinet construction is made of birch multiplex and has a very durable PU coating. The multigrip handles on the sides provide easy handling. M20 threaded stand flange, stacking feet, a solid speaker grill with foam are further features of this quality product.

SPECIFICATIONS

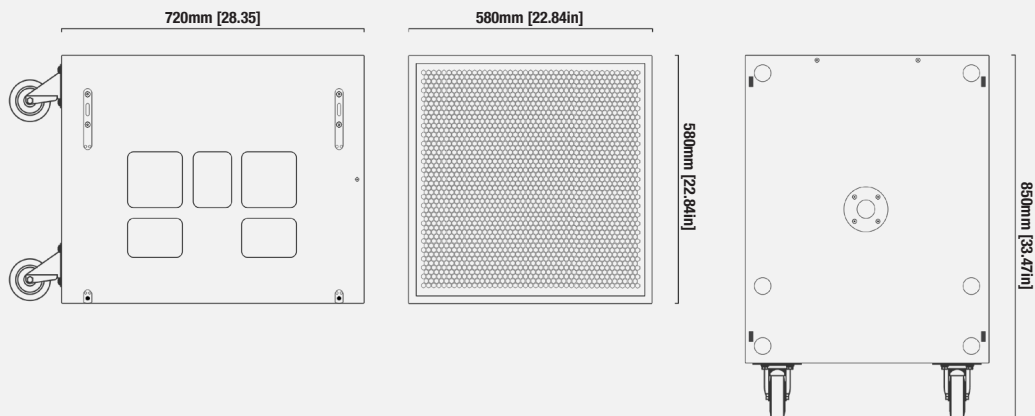
Frequency response	38 - 120Hz ± 3 dB 32 - 120Hz ± 6 dB
DSP Hi-cut modes	70Hz 120Hz
Max. SPL (1m, free field)	134dB
Directivity	omni directional Cardioid configurations
Transducers	one 18" Cone 4" Voice-coil
Power handling AES RMS/peak	1400W / 2800W
Acoustic principle	Hybrid

INTEGRATED ELECTRONICS

Amplifier type	PWM - 1000Wrms
Power supply	SMPS (Switched Mode Power Supply) with power factor correction (PFC)
DSP	2-channel, 32-bit, floating point, 192kHz sampling frequency
Filter technology	IIR filters, delay adjustments, contour filters
Power input - output	powerCON in / out 110-240V 50-60Hz
Signal input - output	XLR3-F and XLR3-M Analog/AES-EBU autoswitch RJ45 Ethernet 1G T Base for Dante TM and KS AUDIO Remote Control with loop-through

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DIMENSIONS AND WEIGHTS



57kg | 125lb