

Technical Data	Main	Mid-Field/Main	Near-Field			Near-Field		Control		Subwoofer				
	O 500 C	O 410	O 300 D	O 300	O 110 D	O 110	P 110	M 52 D	M 52	O 900	O 870	O 810	O 800	
-3 dB free field frequency response	27 Hz ... 20 kHz, ± 3 dB	30 Hz ... 24 kHz, ± 3 dB	35 Hz ... 24 kHz, ± 3 dB	35 Hz ... 24 kHz, ± 3 dB	56 Hz ... 24 kHz, ± 3 dB	56 Hz ... 24 kHz, ± 3 dB	72 Hz ... 24 kHz, ± 3 dB	–	–	15 Hz ... 220 Hz, ± 3 dB	18 Hz ... 300 Hz, ±3 dB	18 Hz ... 300 Hz, ±3 dB	27 Hz ... 100 Hz, ± 3 dB	
Pass band free field frequency response	30 Hz ... 20 kHz, ± 1.5 dB	32 Hz ... 20 kHz, ± 2 dB	40 Hz ... 20 kHz, ± 2 dB	40 Hz ... 20 kHz, ± 2 dB	58 Hz ... 20 kHz, ± 2 dB	58 Hz ... 20 kHz, ± 2 dB	85 Hz ... 20 kHz, ± 2 dB	90 Hz ... 20 kHz, ± 5 dB	90 Hz ... 20 kHz, ± 5 dB	17 Hz ... 200 Hz, ± 1.5 dB	19 Hz ... 300 Hz, ±2 dB	19 Hz ... 300 Hz, ±2 dB	30 Hz ... 90 Hz, ± 2 dB	
Self-generated noise	< 25 dB(A) at 10 cm	< 25 dB(A) at 10 cm	< 20 dB(A) at 10 cm	< 20 dB(A) at 10 cm	< 20 dB(A) at 10 cm	< 20 dB(A) at 10 cm	< 20 dB(A) at 10 cm	–	–	≤ 20 dB(A) at 10 cm	≤ 20 dB(A) at 10 cm	≤ 20 dB(A) at 10 cm	< 20 dB(A) at 10 cm	
Max. SPL in half space at 3% THD at 1 m Averaged between	123.4 dB SPL 100 Hz and 6 kHz	120.0 dB SPL 100 Hz and 6 kHz	112.8 dB SPL 100 Hz and 6 kHz	112.8 dB SPL 100 Hz and 6 kHz	107.7 dB SPL 100 Hz and 6 kHz	107.7 dB SPL 100 Hz and 6 kHz	111.5 dB SPL 100 Hz and 6 kHz	103.0 dB SPL 100 Hz and 6 kHz	103.0 dB SPL 100 Hz and 6 kHz	116.4 dB SPL 40 Hz and 90 Hz	116.7 dB SPL 40 Hz and 90 Hz	110.7 dB SPL 40 Hz and 90 Hz	111.8 dB SPL 40 Hz and 90 Hz	
Sine wave output with a THD < 0.5 % at 1 m	101 dB SPL (>100 Hz)	95 dB SPL (> 100 Hz)	95 dB SPL (>100 Hz)	95 dB SPL (>100 Hz)	90 dB SPL (>150 Hz)	90 dB SPL (>150 Hz)	90 dB SPL (>150 Hz)	–	–	101 dB SPL (>30 Hz)	95 db SPL (>40 Hz)	95 db SPL (>45 Hz)	95 dB SPL (>30 Hz)	
Electronics														
Woofer amplifier, continuous output power*	400 W	340 W	150 W	150 W	50 W	50 W	–	24 W	24 W	1,700 W	2 x 160 W	160 W	120 W	
Woofer amplifier, peak output power*	500 W	400 W	250 W	250 W	80 W	80 W	–	40 W	40 W	2,200 W	2 x 200 W	200 W	185 W	
Midrange amplifier, continuous output power*	230 W	160 W	65 W	65 W	–	–	–	–	–	–	–	–	–	
Midrange amplifier, peak output power*	280 W	190 W	75 W	75 W	–	–	–	–	–	–	–	–	–	
Tweeter amplifier, continuous output power*	290 W	180 W	65 W	65 W	50 W	50 W	–	–	–	–	–	–	–	
Tweeter amplifier, peak output power*	360 W	210 W	110 W	110 W	80 W	80 W	–	–	–	–	–	–	–	
Controller design	digital, FIR filter	analog, active	analog, active	analog, active	analog, active	analog, active	analog, passive	analog, active	analog, active	digital, FIR filter	analog, active	analog, active	analog, active	
Crossover Frequency	520 Hz/2.8 kHz	600 Hz/2.2 kHz	650 Hz/3.3 kHz	650 Hz/3.3 kHz	2.5 kHz	2.5 kHz	3.0 kHz	–	–	80 Hz (O 500 C)	80 Hz	80 Hz	90 Hz	
Crossover Slope (dB/oct.)	48	24	24	24	24	24	TT 12/HT 18	–	–	48	24	24	24	
Equalization:	Low cut Bass Mid High	– 0; -2; -4; -6; -8; -10 dB 0; -1; -2; -3; -4; -5 dB +1; 0; -1; -2; -3; -4 dB	– 0; -2.5; -5; -7.5 dB 0; -3; -6; -9 dB +2; 0; -2; -4 dB +2; +1; 0; -1 dB	– 0; -3; -6; -9 dB +2; 0; -2; -4 dB +2; +1; 0; -1 dB	– 0; -2.5; -5; -7.5 dB 0; -1.5; -3; -5 dB –	– 0; -2.5; -5; -7.5 dB 0; -1.5; -3; -5 dB –	– 0; -2.5; -5; -7.5 dB 0; -1.5; -3; -5 dB –	– – 0; -2; -4; -6 dB –	– – – –	– – – –	40; 50; 60; 70; 80 Hz 40 Hz; 0 ... -12 dB – –	40 Hz; 0 ... -12 dB – – –	40 Hz; 0 ... -12 dB – – –	30; 40; 50; 60 Hz – – –
Time of Flight adjustment delay	8 ... 1,000 ms	–	–	–	–	–	–	–	–	5.6 ... 1,000 ms	0 ... 4.69 ms @80Hz (4-step 0, 45, 90, 135°), -180° Switch	–	0 ... 180°, cont. variable	
Protection circuitry	Limiter: low, mid, high	Limiter: low, mid, high	Limiter: low, mid, high	Limiter: low, mid, high	Limiter: low, high	Limiter: low, high	Multifuse: high	–	–	Limiter	Peak + Thermo Limiter	Peak + Thermo Limiter	Limiter	
Infrasonic filter frequency; slope	20 Hz; 12 dB/oct.	15 Hz; 12 dB/oct.	30 Hz; 6 dB/oct.	30 Hz; 6 dB/oct.	–	–	–	–	–	12 Hz; 12 dB/oct.	6.5 Hz; 12 dB/oct.	6.5 Hz; 12 dB/oct.	25 Hz; 12 dB/oct.	
Analog Input	10 kΩ	XLR, 13 kΩ	–	XLR, 14 kΩ, optional	XLR, 14 kΩ	XLR, 14 kΩ, optional	8 Ω	–	–	10 kΩ	8 x 13 kΩ	8 x 13 kΩ	3 x XLR, 20 kΩ	
Impedance, electrically balanced	14 kΩ	XLR, 4.7 kΩ**	XLR, 14 kΩ	–	–	XLR, 14 kΩ, optional	–	XLR, 10 kΩ	XLR, 10 kΩ	10 kΩ	–	–	–	
Impedance, transformer balanced	–	–	–	–	–	–	–	–	–	–	–	–	–	
Input sensitivity	- 6 dBu	- 8 dBu / + 6 dBu	+ 6 dBu	+ 6 dBu	+ 6 dBu	+ 6 dBu	87 dB SPL at 1 m	+ 6 dBu	+ 6 dBu	- 6 dBu	-8 dBu / + 6 dBu (switchable)	-8 dBu / + 6 dBu (switchable)	- 6 dBu	
Attenuator	0 ... -128 dB	- 9 ... + 6 dB	0 ... -28 dB (24)	0 ... -28 dB	0 ... -24 dB	0 ... -24 dB	–	0 ... -∞	0 ... -∞	0 ... -128 dB	-12 ... +2 dB	-12 ... +2 dB	0 ... -18 dB	
CMRR	> 80 dB @ 15 kHz	> 60 dB @ 15 kHz	> 60 dB @ 15 kHz	> 60 dB @ 15 kHz	> 60 dB @ 15 kHz	> 60 dB @ 15 kHz	–	> 50 dB @ 15 kHz	> 50 dB @ 15 kHz	> 80 dB @ 15 kHz	> 60 dB @ 15 kHz	> 60 dB @ 15 kHz	> 50 dB @ 15 kHz	
Analog Output	XLR, subwoofer	–	–	–	–	–	–	–	–	3 x XLR for monitor	8 x XLR (7 Ch + Sum Out)	8 x XLR (7 Ch + Sum Out)	3 x XLR for monitor	
Digital Input/Output														
Format XLR (Format BNC)	AES/EBU (AES 3id, S/P-DIF)	AES3 (AES3id, S/P-DIF)**	AES/EBU (AES 3id, S/P-DIF)	–	AES/EBU (AES 3id, S/P-DIF)	–	–	AES/EBU (AES 3id, S/P-DIF)	–	–	AES3 (AES3id, S/P-DIF)**	AES3 (AES3id, S/P-DIF)**	–	
Impedance XLR	110 Ω, balanced floating	110 Ω, balanced floating**	110 Ω, balanced floating	–	110 Ω, balanced floating	–	–	110 Ω, balanced floating	–	–	110 Ohm, balanced floating**	110 Ohm, balanced floating**	–	
Impedance BNC	75 Ω, non symmetrical	75 Ω, non symmetrical**	75 Ω, non symmetrical	–	75 Ω, non symmetrical	–	–	75 Ω, non symmetrical	–	–	75 Ohm, non symmetrical**	75 Ohm, non symmetrical**	–	
Input switching	analog/digital left/mono/right	digital/analog** left/mono/right**	analog/digital	–	analog/digital left/mono/right	–	–	Analog/digital left/mono/right	–	–	–	–	–	
Digital converter:	resolution, design sampling rate	24 bit stacked AD, ΔΣ 44.1 kHz, 48 kHz	16 ... 24 bit DA, ΔΣ** 20 kHz ... 216 kHz (SRC)**	24 bit DA, ΔΣ 32 kHz ... 96 kHz	–	24 bit DA, ΔΣ 32 kHz ... 96 kHz	–	24 bit DA, ΔΣ 32 kHz ... 96 kHz	–	24 bit stacked AD, ΔΣ 44.1 kHz, 48 kHz	16 ... 24 bit DA, Delta Sigma** 20 kHz ... 216 kHz (SRC)**	–	–	
Displays and indicators: power on limit/clip display	K + H logo "red" Display "Limit" 2 x 24 digits VFD, blue	K + H logo "red" Protect / digital / analog –	K + H logo "red" K + H logo "blinking" –	K + H logo "red" K + H logo "blinking" –	K + H logo "red" K + H logo "blinking" –	K + H logo "red" K + H logo "blinking" –	–	Standby LED red, On green – –	Standby LED red, On green – –	See Pro C 28 or O 500 C See Pro C 28 or O 500 C 2 x 24 digits VFD, blue	Red LED Flash red LED –	Red LED Flash red LED –	LED green (power switch) – –	
Mains power	230, 120, 100 V AC	230, 120, 100 V AC swichable	230, 120, 100 V AC	230, 120, 100 V AC	230, 120, 100 V AC	230, 120, 100 V AC	–	80 ... 250 V AC; 12 ... 20 V DC	80 ... 250 V AC; 12 ... 20 V DC	100 ... 240 V AC	220-240/100-120 V AC (switchable)	–	230, 120, 100 V AC	
Power consumption														
Idle	50 W	36 W	18 W	18 W	13 W	10 W	–	7 W; 125 mA	5 W; 90 mA	100 W (KPA 172)	45 W	35 W	15 W	
Full output AC; DC	1,500 W	1,300 W	240 W	240 W	73 W	70 W	–	50 W; 1.8 A	50 W; 1.7 A	3,400 W (KPA 172)	550 W	290 W	200 W	
Mechanical Specs														
Height x width x depth	750 x 400 x 447 mm (29.5 x 15.8 x 17.6")	645 x 330 x 444 mm (25 3⁄8 x 13 x 17 1⁄2")	253 x 383 x 290 mm (10 x 15.1 x 11.4")	253 x 383 x 290 mm (10 x 15.1 x 11.4")	267 x 170 x 190 mm (10.5 x 6.7 x 7.5")	267 x 170 x 190 mm (10.5 x 6.7 x 7.5")	267 x 170 x 190 mm (10.5 x 6.7 x 7.5")	173 x 120 x 116 mm (6.8 x 4.7 x 4.6")	173 x 120 x 116 mm (6.8 x 4.7 x 4.6")	950 x 400 x 512 mm (37.4 x 15.8 x 20.2")	735 x 330 x 645 mm (28.9 x 13 x 25.4")	360 x 330 x 645 mm (14.2 x 13 x 25.4")	360 x 320 x 510 mm (14.2 x 12.6 x 20.1")	
Internal net volume	80.0 liters	42 liters	18.3 liters	18.3 liters	6.5 liters	6.5 liters	6.5 liters	1.8 liters	1.8 liters	120.0 liters	86 liters	41.5 liters	32.3 liters	
Weight	65.0 kg (143.2 lb)	36 kg (79.4 lb)	14.0 kg (30.8 lb)	14.0 kg (30.8 lb)	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)	2.3 kg (5.0 lb)	2.1 kg (4.6 lb)	52 kg, w/electronics (114.5 lb)	47.1 kg (103.6 lb)	26.0 kg (57.2 lb)	25.0 kg (55.1 lb)	
Drivers	Magnetically shielded	Magnetically shielded	Magnetically shielded	Magnetically shielded	Magnetically shielded	Magnetically shielded	Magnetically shielded	Magnetically shielded	Magnetically shielded	Magnetically shielded	Magnetically shielded	Magnetically shielded	Magnetically shielded	
Woofer	12", 300 mm	10" / 250 mm	8", 210 mm	8", 210 mm	5.5", 145 mm	5.5", 145 mm	5.5", 145 mm	3", 75 mm	3", 75 mm	12", 2 x 300 mm	10", 2 x 265 mm	10", 265 mm	10", 265 mm	
Midrange	3", 76 mm	3" / 76 mm	3", 76 mm	3", 76 mm	–	–	–	–	–	–	–	–	–	
Tweeter	1", 25 mm	1" / 25 mm	1", 25 mm	1", 25 mm	1", 25 mm	1", 25 mm	1", 25 mm	–	–	–	–	–	–	
Mounting points	2 x M20 on sides 1 x M20 on bottom	8 x M5 on rear –	2 x M8 on sides Rear panel bracket	2 x M8 on sides Rear panel bracket	2 x M8 on rear –	2 x M8 on rear –	2 x M8 on rear –	3/8" thread on bottom 2 x M6 on sides	3/8" thread on bottom 2 x M6 on sides	Supporting stand socket –	Top plate flange –	– –	– –	
Mounting hardware	LH 28, LH 29, LH 35, LH 37	LH 28, LH 29, LH 36, LH 37, LH 41, LH 42, LH 43, LH 44, LH 45	LH 25, LH 28, LH 29, LH 37, C 15	LH 25, LH 28, LH 29, LH 37, C 15	LH 7, LH 8, LH 27, LH 28, LH 29, LH 31, LH 32, LH 33, LH 38, KG 30, C 15	LH 7, LH 8, LH 27, LH 28, LH 29, LH 31, LH 32, LH 33, LH 38, KG 30, C 15	LH 7, LH 8, LH 27, LH 28, LH 29, LH 31, LH 32, LH 33, LH 38, KG 30, C 15	LH 11, MA 19	LH 11, MA 19	Depends on main loudspeaker selection	Depends on main loudspeaker selection	Depends on main loudspeaker selection	Depends on main loudspeaker selection	
Cabinet surface finish	Painted	Painted	Painted	Painted	Painted	Painted	Painted	Painted	Painted	Painted	Painted	Painted	Painted	
Color:	standard custom extra cost	Anthracite –	Anthracite, silver –	Anthracite, silver Customer specified RAL color	Anthracite, silver Customer specified RAL color	Anthracite, silver Customer specified RAL color	Anthracite, silver Customer specified RAL color	Anthracite –	Anthracite –	Anthracite –	Anthracite, silver –	Anthracite, silver –	Anthracite, silver –	
Baffle cover	Optional removable metal grille	Optional removable metal grille	Optional removable metal grille	Optional removable metal grille	Fixed metal grille	Fixed metal grille	Fixed metal grille	Fixed metal grille	Fixed metal grille	Optional removable metal grille	Fixed metal grille	Fixed metal grille	Fixed metal grille	
*THD+N < 0,1 %; limiter deactivated		**Optional									**Optional	**Optional		