

# APK 163

## 3 WAY SYSTEM

- 1 AP 1 tweeter with 26 mm diameter diaphragm combined with a wide-roll surround provides maximum efficiency and reduced resonance frequency.
- 2 AP 1 tweeter with acoustic lens designed to compensate for and fine tune the in-car frequency response anomalies in the 10kHz - 13kHz bandwidth caused by restrictive OEM grilles in critical OEM placements.
- 3 Dedicated crossovers for each component: APCX TW compact tweeter passive crossover optimised for OEM Integration featuring an attenuation switch (0 dB, +2dB) to tune the in-car response according to different installation conditions; APCX MD midbass crossover and APCX WF woofer crossover. The passive crossovers boast very reduced dimensions and are optimised for OEM Integration.
- 4 AP4 midbass with extended frequency response, combined with high efficiency.
- 5 AP 6.5 woofer with 32 mm pure copper voice coil, for high power handling and outstanding low frequency control.
- 6 AP 6.5 woofer and AP 4 midbass with water-repellent treated paper cone, featuring a profile developed with FEM (Finite Element Method) simulation technology and optimized with the Klippel R&D Scan Vibrometer.
- 7 AP 6.5 woofer and AP 4 midbass with reduced mounting depth, providing ease of installation in OEM placements.
- 8 AP 6.5 woofer and AP 4 midbass with TPU (Thermoplastic Polyurethane) surround, featuring the exclusive shallow "Triple Wave" profile, for maximum excursion linearity.
- 9 AP 6.5 woofer and AP 4 midbass with compact basket, protected by abrasion-resistant and scratch-proof coating, the motor affixed with damping epoxy adhesive.
- 10 AP 6.5 woofer with high current fast-on terminal with double contact on positive and negative poles for high flexibility and quick connection. The terminal features temperature resistant plastic cover, protecting it against accidental short circuits.
- 11 Developed with the KLIPPEL suite.

\* Grille included

### ELECTRO-ACOUSTIC PARAMETERS

D	mm	129
Xmax	mm	±2,5
Re	Ω	3,1
Fs	Hz	80
Le	mH	0,23
Vas	l	7,6
Mms	g	12
Cms	mm/N	0,31
BL	T•m	4,7
Qts		0,7
Qes		0,8
Qms		4,7
Spl	dB	93,5

From R&D to final product  
**KLIPPEL**  
since 2005



### TECHNICAL SPECIFICATIONS

Component	3-way System	
Size	mm (in.)	Woofer 165 (6.5) Midbass 100 (4) Tweeter 26 (1)
Power Handling	W peak	375
	W continuous	125
Impedance	Ω	4
Frequency Response	Hz	50 ÷ 20k
Crossover type		LP @ 600 Hz - 6 dB Oct HP @ 600/3,5 kHz - 6/6 dB Oct HP @ 3,5 kHz - 6 dB Oct
Component adjustment	dB	+2; 0
Woofer Magnet size	mm	85 x 40 x 15
D x h	(in.)	(3.35 x 1.57 x 0.59)
Midrange Magnet size	mm	70 x 32 x 10
D x h	(in.)	(2.75 x 1.26 x 0.39)
Tweeter Magnet size	mm	19 x 13
D x h	(in.)	(0.75 x 0.12)
Weight of one speaker	kg (lb)	Woofer 0,78 (1.72) Midbass 0,4 (0.88) Tweeter 0,04 (0.09)
Voice Coil Ø	mm (in.)	Woofer 32 (1.26) Midbass 25 (1) Tweeter 20 (0.8)