



PA121

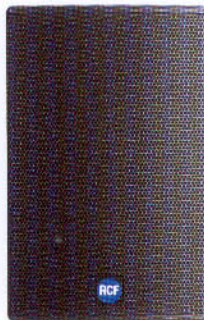
Code no. 131.10.165

FEATURES

- 12" high-efficiency, 3" voice-coil LF transducer
- 90° x 70° modified constant directivity horn with 1" compression driver
- Dual-function design: built-in passive crossover or external bi-amp
- Trapezoidal enclosure for array configurations
- HF driver dynamic protection
- 19mm birch plywood construction
- Twelve suspension points (M10) and standard eyebolt hardware
- Integrated hand-carry locations

APPLICATIONS

- Cluster Configurations
- Live Music Reinforcement
- High-Level AV Playback
- Large Speech Systems



PA151

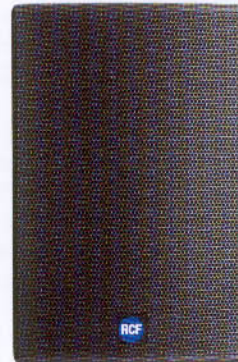
Code no. 131.10.052

FEATURES

- 15" high-efficiency, 3" voice-coil LF transducer
- 90° x 70° modified constant-directivity horn with 1" compression driver
- Dual-function design: built-in passive crossover or external bi-amp
- Trapezoidal enclosure for array configurations
- HF driver dynamic protection
- 19mm birch plywood construction
- Twelve suspension points (M10) and standard suspension hardware
- Integrated hand-carry locations

APPLICATIONS

- Cluster Configurations
- Live Music Reinforcement
- High-Level AV Playback
- Large Speech Systems



PA152

Code no. 131.10.166

FEATURES

- 15" high power, 4" voice-coil LF transducer
- 85° x 65° modified constant-directivity horn with 1.4" exit, titanium compression driver
- Dual-function design: built-in passive crossover or external bi-amp
- Trapezoidal enclosure for array configurations
- HF driver dynamic protection
- LICC (Low Impedance Compensated Crossover) network
- 19mm birch plywood construction
- Twelve suspension points (M10) and standard suspension hardware
- Integrated hand-carry locations

APPLICATIONS

- Cluster Configurations
- Live Music Reinforcement
- High-Level AV Playback
- Large Speech Systems

SPECIFICATIONS

	PA121	PA151	PA152
Freq. Range (-10dB):	60Hz-20kHz	50Hz-20kHz	50Hz-21kHz
Freq. Response (-3dB):	100Hz-18kHz	80Hz-18kHz	70Hz-20kHz
Horz. Coverage Angle (-6dB):	90° averaged 2kHz to 10kHz	90° averaged 2kHz to 10kHz	85° averaged 1kHz to 16kHz
Vert. Coverage Angle (-6dB):	70° averaged 2kHz to 10kHz	70° averaged 2kHz to 10kHz	65° averaged 1kHz to 16kHz
Directivity Factor; Q (DI):	9.5 (9.8) averaged 2kHz to 10kHz	9.5 (9.8) averaged 2kHz to 10kHz	11 (10.5) averaged 1kHz to 16kHz
System Sensitivity:	99dB, 1W @ 1m	97dB, 1W @ 1m	97dB, 1W @ 1m
Rated Maximum SPL:	129dB, @ 1m	130dB, @ 1m	130dB, @ 1m
System Nominal Impedance:	8Ω	8Ω	81/2
System Input Power Rating:	300W RMS; 1200W Peak	300W RMS; 1200W Peak	500W RMS; 2000W Peak
Recommended Amplifier:	450W	450W	750W
HF Protection:	Dynamic	Dynamic	Dynamic
Crossover:	2kHz, 12dB/octave	1.7kHz, 12dB/octave 15" (380mm) woofer with	1.6kHz, 12dB/Octave 15" (380mm) woofer with
Low-Frequency:	12" (300mm) woofer with 3" (76mm) coil	3" (76mm) coil	4" (100mm) coil
Nominal Impedance:	8Ω	8Ω	8Ω
Input Power Rating:	250W AES; 1000W Peak	250W AES; 1000W Peak	350W AES; 1400W Peak
Sensitivity:	99dB, 1W @ 1m	99dB, 1W @ 1m	97dB, 1W @ 1m
High-Frequency:	1" (25mm) throat, 1.75" (44mm) coil diaphragm assembly	400W 1" (25mm) throat, 1.75" (44mm) coil diaphragm assembly	1.4" (36mm) throat, 3" (76mm) coil titanium compression driver assembly
Nominal Impedance:	8Ω	8Ω	16Ω
Input Power Rating:	35W AES; 140W Peak	35W AES; 140W Peak	75W AES; 300W Peak
Sensitivity:	107dB, 1W @ 1m	107dB, 1W @ 1m	107dB, 1W @ 1m
Enclosure:	Trapezoidal, 15° side angles, 19mm multilayered birch	Trapezoidal, 15° side angles, 19mm multilayered birch	Trapezoidal, 15° back angles, 19mm multilayered birch
Rigging Inserts:	12 points; accepts M10 threaded hardware, 3 eyebolts provided	12 points; accepts M10 threaded hardware, 3 eyebolts provided	12 points; accepts M10 threaded hardware, 3 eyebolts provided
Color:	Black, scratch resistant paint	Black, scratch resistant paint	Black, scratch resistant paint
Grille:	Custom perforated steel grille with open-cell poly fiber backing	Custom perforated steel grille with open-cell poly fiber backing	Custom perforated steel grille with open-cell poly fiber backing
Input Connectors:	Speakon® NL4	Speakon® NL4	Speakon® NL4
Dimensions (HxWxD):	25" x 15.12" x 15.35" (637mm x 384mm x 390mm)	27.44" x 17.90" x 16.93" (697mm x 455mm x 430mm)	29.85" x 19.90" x 18" (758mm x 505mm x 455mm)
Net Weight:	61.6lb. (28kg)	72.6lb. (33kg)	96.8lb. (44kg)



PA261 *Code no. 131.10.184*

FEATURES

- Two 6" carbon fiber LF transducers
- 100° x 100° constant directivity horn-loaded 1" titanium dome tweeter
- Trapezoidal enclosure for array configurations
- HF driver dynamic protection
- LICC (Low Impedance Compensated Crossover) network
- 19mm birch plywood construction
- Suspension points (M10 and M8) and eyebolt suspension hardware

APPLICATIONS

- Cluster Configurations
- Live Music Reinforcement
- High-Level AV Playback
- Zone Delay and Fill Systems



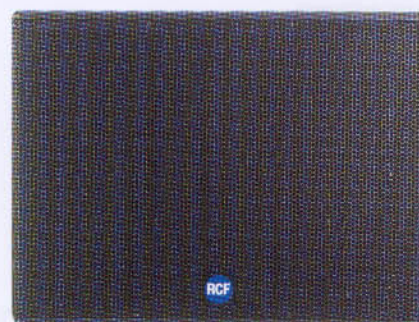
PA281 *Code no. 131.10.185*

FEATURES

- Two 8" high-output carbon fiber LF transducers
- 100° x 85° modified constant directivity horn with 1" compression driver
- Trapezoidal enclosure for array configurations
- HF driver dynamic protection
- LICC (Low Impedance Compensated Crossover) network
- 19mm birch plywood construction
- Suspension points (M10 and M8) and eyebolt suspension hardware

APPLICATIONS

- Cluster Configurations
- Live Music Reinforcement
- High-Level AV Playback
- Zone Delay and Fill Systems



PA180SW *Code no. 131.10.167*

FEATURES

- 18" high-efficiency 4" voice-coil woofer
- Horn reflex loaded woofer
- Switchable internal passive crossover network
- Rectangular box enclosure with protective metal grille
- 19 mm birch plywood construction
- Nine suspension points (M10) and standard eyebolt hardware
- Integrated hand-carry locations

APPLICATIONS

- Low Frequency Enhancement
- Music Enhancement
- Special Effects Reinforcement
- Entertainment Systems
- Live Music Reinforcement
- Large Speech Systems

SPECIFICATIONS

	PA261	PA281	PA180SW
Freq. Range (-10dB):	45Hz-16kHz	45Hz-18kHz	40Hz-180Hz
Freq. Response (-3dB):	60Hz-15kHz	60Hz-13kHz	50Hz-160Hz
Horz. Coverage Angle (-6dB):	100° averaged 2kHz to 16kHz	100° averaged 1kHz to 16kHz	
Vert. Coverage Angle (-6dB):	100° averaged 2kHz to 16kHz	85° averaged 1kHz to 16kHz	
Directivity Factor; Q (DI):	8 (9.0) averaged 2kHz to 16kHz	8.0 (9.0) averaged 1kHz to 16kHz	
System Sensitivity:	90dB, 1W @ 1m	92dB, 1W @ 1m	100dB, 1W @ 1m
Rated Maximum SPL:	119dB, @ 1m	123dB, @ 1m	133dB, @ 1m
System Nominal Impedance:	4Ω	4Ω	8Ω
System Input Power Rating:	200W RMS; 800W Peak	300W RMS; 1200W Peak	500W AES; 2000W Peak
Recommended Amplifier:	300W	450W	750W
HF Protection:	Dynamic	Dynamic	Dynamic
Crossover:	2.5kHz, 12dB/Octave	2.1kHz, 12dB/octave	120Hz, 12dB/Octave
Low-Frequency:	Two 6" (152mm) carbon fiber woofers	Two 8" (203mm) carbon fiber woofers	18" (460mm) woofer with 4" (100mm) coil
High-Frequency:	Integrated horn, 1" (25mm) titanium diaphragm tweeter	1" (25mm) throat, 1.75" (44mm) coil diaphragm assembly	
Enclosure:	Trapezoidal, 15° side angles, 19mm multilayered birch	Trapezoidal, 15° side angles, 19mm multi-layered birch	Rectangular, 19mm multilayered birch
Rigging Inserts:	5 points for M10, 4 points for M8 threaded hardware	5 points for M10, 4 points for M8 threaded hardware	9 points; accepts M10 threaded hardware, 3 eyebolts provided
Color:	Black, scratch resistant paint	Black, scratch-resistant paint	Black, scratch resistant paint
Grille:	Custom perforated steel grille	Custom perforated steel grille	Custom perforated steel grille with open-cell poly fiber backing
Input Connectors:	Speakon® NL4	Speakon® NL4	Speakon® NL4
Dimensions (HxWxD):	24.02" x 10.04" x 11.46" (610mm x 255mm x 291mm)	30.31" x 12" x 12.87" (770mm x 305mm x 327mm)	23.50" x 31.34" x 23.74" (596mm x 796mm x 603mm)
Net Weight:	37.4lb. (17kg)	Net Weight: 50.6lb. (23kg)	114lb. (52kg)