

ACML3 SERIES



3.5" DIGITAL LOUDSPEAKERS

3.5" Neodymium Full Range Speakers

Magnetostat Neodymium High Tone Speakers



Digital loudspeakers ACML is the most significant progress towards the development of loudspeakers production. ACML provides digital control over:

- direction of emission
- opening angle and focus distance
- radiation beam tilt the sound in the vertical plane without physically changing the position of loudspeaker

This unique technology assures evenly sound pressure level - for listeners close to the speaker the sound is not too noisy and for the listeners away not too quiet. Listen who sits 1-2 meters from the speaker will hear the same sound (volume & quality) as the speaker who sits 8 meters and further from the speaker.

Loudspeaker ACML ensure a clear natural sound experience with high speech intelligibility (very high STI indexes everywhere in the object).

All settings are made with the help of „ACMLControl" software that is included in the scope of supply. Additional use of DSP processors, which eliminates the need for additional equalizers.

Same as other R&F loudspeakers ACML ensures aesthetic shape & color that will fit into any environment.

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GENERAL SPECIFICATION

Technical Data	ACML3C-115	ACML3C-230	ACML3C-350
Power rated [W]	140	210	270
Frequency-range [Hz]	100÷18000	90÷18000	90÷18000
Guaranteed Sound power at SPL = 95dB (pink noise) IEC 60268-1	15m(*)	25m(*)	40m(*)
number of Full Range Speakers (3,5") neodymium	10	20	27
number of High Tone Speakers Magnetostat Neodymium	2	3	4
number of channels DSP	8	16	16
Opening angle in the horizontal plane (solid)	130° (-6dB, 1kHz 8kHz)	130° (-6dB, 1kHz 8kHz)	130° (-6dB, 1kHz 8kHz)
Opening angle in the vertical plane (variable)	6° ÷ 14°	6° ÷ 14°	4° ÷ 10°
Nominal input level [dB]	0dB - line input or +50dB - Loudsp. line input 100V	0dB - line input or +50dB - Loudsp. line input 100V	0dB - line input or +50dB - Loudsp. line input 100V
Input impedance (symmetrical) [kΩ]	15 - line input or 40 - Loudsp. line input 100V	15 - line input or 40 - Loudsp. line input 100V	15 - line input or 40 - Loudsp. line input 100V
Gain adjustment input [dB]	-20 ÷ + 6	-20 ÷ + 6	-20 ÷ + 6
Delay [m]	0 - 170	0 - 170	0 - 170
Limiter input [dB]	-40 ÷ + 6	-40 ÷ + 6	-40 ÷ + 6
Noise-gate input	-90dB , -3dB - threshold 20us , 5000us - settling time 1ms , 3000ms - fall time	-90dB , -3dB - threshold 20us , 5000us - settling time 1ms , 3000ms - fall time	-90dB , -3dB - threshold 20us , 5000us - settling time 1ms , 3000ms - fall time
10-points parametric equalizer input	F: 20Hz , 20kHz Bw: 0,05oct. , 3,0oct. G: -12dB , +12dB LoSh6, LoSh12, HiSh6, HiSh12	F: 20Hz , 20kHz Bw: 0,05oct. , 3,0oct. G: -12dB , +12dB LoSh6, LoSh12, HiSh6, HiSh12	F: 20Hz , 20kHz Bw: 0,05oct. , 3,0oct. G: -12dB , +12dB LoSh6, LoSh12, HiSh6, HiSh12
Power amps [W]	8x20W class D	16x20W class D	16x20W class D
Power supply [V]	230V or 115V (50Hz, +/-10%)	230V or 115V (50Hz, +/-10%)	230V or 115V (50Hz, +/-10%)
Dimensions H / W / D [mm]	1156/95/113	2312/95/113	3468/95/113
Weight [kg]	5,3	9,6	13,8