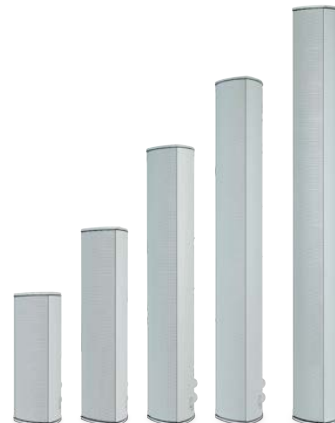


ABT-LA10B/ABT-LA20B, ABT-LA30B/ABT-LA40B ABT-LA50B/ABT-LA60B, ABT-LA80B/ABT-LA100B

Loudspeaker Columns

Features

- ▶ Compliance with EN 54-24
- ▶ Certificate of Conformity: 1438-CPR-0701
- ▶ Compliance with BS5839-8 standard (thermal protection)
- ▶ Easy and quick installation
- ▶ High sound quality of both speech and music
- ▶ The highest level of speech intelligibility
- ▶ Ideal for mounting on a ceiling, wall or pole
- ▶ Two cable inputs insulated with glands
- ▶ Weatherproof housing IP65
- ▶ For indoor and outdoor application



Description

ABT-LA10B, ABT-LA20B, ABT-LA30B, ABT-LA40B, ABT-LA50B, ABT-LA60B, ABT-LA80B, ABT-LA100B loudspeakers are Type B loudspeakers.

They provide much further coverage while maintaining high sound level uniformity in the publicized area. ABT-LAB loudspeakers are characterized by high directivity, so the sound emitted by the loudspeaker is directed precisely to the listening area and not to undesired areas, such as the ceiling or floor. ABT-LAB are dedicated primarily for rooms with long reverberation times and unfavorable acoustic conditions for speech intelligibility. The frequency response of ABT-LAB speakers has been designed for most accurate reproduction of the speech signal, to provide the highest speech intelligibility required in PAVA systems.

They are also perfectly suited for music broadcasting. Robust aluminum housing that provides the degree of protection to environmental parameters IP65 and mechanical impact IK07 guarantees long, trouble-free operation in all conditions

Electrical	ABT-LA10B	ABT-LA20B	ABT-LA30B	ABT-LA40B
Rated power	10 W	20 W	30 W	40 W
Tappings 100 V line according to EN 54-24	10 / 5 / 2,5 W	20 / 10 / 5 W	30 / 15 / 7,5 W	40 / 20 / 10 W
Tappings 70 V line	5 / 2,5 / 1,25 W	10 / 5 / 2,5 W	15 / 7,5 / 3,75 W	20 / 10 / 2005 W
Transformer impedance @ 100 V	1000 / 2000 / 4000 Ω	500 / 1000 / 2000 Ω	333 / 667 / 1333 Ω	250 / 500 / 1000 Ω
Driver impedance	8 Ω	4 Ω	10 Ω	8 Ω
Effective frequency range	160 – 20000 Hz	160 – 20000 Hz	160 – 20000 Hz	160 – 20000 Hz
Sensitivity @ 4 m, 1 W	71 dB	74 dB	76 dB	77 dB
SPL @ 4 m, rated power	82 dB	87 dB	90 dB	92 dB
SPL @ 1 m, 1 W	83 dB	89 dB	88 dB	89 dB
SPL @ 1 m, rated power	94 dB	99 dB	102 dB	104 dB
Horizontal dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz	360 / 210 / 150 / 110 °	360 / 200 / 155 / 120 °	360 / 200 / 155 / 115 °	360 / 200 / 155 / 120 °
Vertical dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz	360 / 130 / 80 / 40 °	145 / 80 / 35 / 20 °	110 / 60 / 30 / 15 °	85 / 40 / 20 / 10 °

Environmental	
Environmental type / IP rating according to EN 54-24	Type B
IP rating	IP65
Min. / max. ambient temperature	-25°C / 55°C

Mechanical	ABT-LA10B	ABT-LA20B	ABT-LA30B	ABT-LA40B
Dimensions (mm)	95 × 268 × 100	95 × 418 × 100	95 × 588 × 100	95 × 738 × 100
Net weight	2 kg	3 kg	4.2 kg	5.3 kg
Colour	Light grey (RAL 7035)			
Material	Aluminium			
Impact Protection	IK07			
Mounting	Mounting bracket			

Option	
For DC line monitoring	Capacitor
Colour option	RAL palette

Electrical	ABT-LA50B	ABT-LA60B	ABT-LA80B	ABT-LA100B
Rated power	50 W	60 W	80 W	100 W
Tappings 100 V line according to EN 54-24	50 / 25 / 12,5 W	60 / 30 / 15 W	80 / 40 / 20 W	100 / 50 / 25 W
Tappings 70 V line	25 / 12,5 / 6,25 W	30 / 15 / 7,5 W	40 / 20 / 10 W	50 / 25 / 12,5 W
Transformer impedance @ 100 V	200 / 400 / 800 Ω	167 / 333 / 667 Ω	125 / 250 / 500 Ω	100 / 200 / 400 Ω
Driver impedance	6 Ω	6 Ω	6 Ω	6 Ω
Effective frequency range	160 – 20000 Hz	160 – 20000 Hz	160 – 20000 Hz	160 – 20000 Hz
Sensitivity @ 4 m, 1 W	78 dB	77 dB	76 dB	75 dB
SPL @ 4 m, rated power	94 dB	94 dB	94 dB	94 dB
SPL @ 1 m, 1 W	90 dB	89 dB	88 dB	87 dB
SPL @ 1 m, rated power	106 dB	106 dB	106 dB	106 dB
Horizontal dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz	360 / 200 / 165 / 125 °	360 / 200 / 165 / 125 °	360 / 200 / 165 / 125 °	360 / 200 / 165 / 125 °
Vertical dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz	70 / 35 / 15 / 10 °	70 / 35 / 15 / 10 °	70 / 35 / 15 / 10 °	70 / 35 / 15 / 10 °

Environmental	
Environmental type / IP rating according to EN 54-24	Type B
IP rating	IP65
Min. / max. ambient temperature	-25°C / 55°C

Mechanical	ABT-LA10B	ABT-LA20B	ABT-LA30B	ABT-LA40B
Dimensions (mm)	95 × 888 × 100	95 × 888 × 100	95 × 888 × 100	95 × 888 × 100
Net weight	6 kg			
Colour	Light grey (RAL 7035)			
Material	Aluminium			
Impact Protection	IK07			
Mounting	Mounting bracket			

Option	
For DC line monitoring	Capacitor
Colour option	RAL palette

