

- EXCELLENT SPEECH AND MUSIC REPRODUCTION •
- FOR SOUND BEAMING IN DIFFICULT REVERBERANT CONDITIONS •
- FINISHED IN OFF-WHITE OR GREY •
- MDF CONSTRUCTION •
- ADJUSTABLE BRACKET MOUNTING •
- SIMPLE 'QUICK-PLUG' POWER SETTING •
- COMPLY WITH INTERNATIONAL INSTALLATION AND SAFETY REGULATIONS •

Philips loudspeakers offer a combination of quality, performance and innovation in public address. They are the result of over half a century's experience in professional audio, and meet virtually all sound reinforcement system requirements.

Columns for sound beaming

The LBC 3042/x2, LBC 3043/x2 and LBC 3044/x2 are column loudspeakers for speech and music reproduction in general purpose applications where beaming is desirable to overcome difficult reverberant conditions. The robust, solid MDF (Medium Density Fibre board) enclosures are covered with a durable, easy-to-clean vinyl in choice of grey or off-white. The fronts are covered with fine woven cloth in dark grey (grey cabinets) or light grey (off-white cabinets), and feature attractive chamfered edges.

12, 24 and 36 W models

The LBC 3042/x2 delivers 12W (rated power) from four loudspeakers built into the column. The LBC 3043/x2 is a



LBC 3042/x2, LBC 3043/x2, LBC 3044/x2

COLUMN LOUDSPEAKERS

24W model with six loudspeakers built into the column. For even higher output power, the LBC 3044/x2 delivers 36W. All models are available in grey and off-white.

Wall or floorstand mounting

The columns may be individually wall-mounted or in clusters as required. For mounting, the loudspeakers are supplied with a sturdy aluminium one-point mounting bracket. This is fully adjustable in two perpendicular planes for accurate positioning. For temporary installations, the column loudspeakers may be mounted on a LBC 1250/00 floorstand in combination with LBC 1251/00 floorstand adaptor (both available separately).

Simple power setting

Connections are made using a 4-pole 'quick-plug' connector (supplied) inserted in a recessed socket in the column back. This connector has provision for power

tapping on the 100 V matching transformer in the column. It allows selection of nominal full-power, half-power or quarter-power radiation (i.e. in 3 dB steps).

Quality Assurance

All Philips loudspeakers are designed to withstand operating at their rated power for 100 hours in accordance with IEC 268-5 Power Handling Capacity (PHC) standards. Philips has also developed the Simulated Acoustical Feedback Exposure (SAFE) test to demonstrate that they can withstand two times their rated power for short durations. This ensures extra reliability under extreme conditions, leading to higher customer satisfaction, longer operating life, and much less chance of failure or performance deterioration.

SPECIFICATIONS

LBC 3042/x2, LBC 3043/x2, LBC 3044/x2

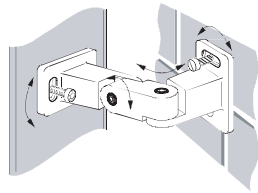
COLUMN LOUDSPEAKERS

Safety aspects

In common with all Philips products, care is taken to meet high safety standards. These column loudspeakers comply with the relevant safety and installation regulations of EN 60065.

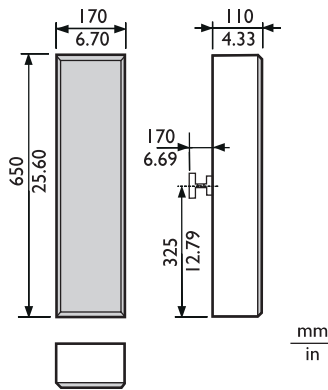
Type number overview

LBC 3042/02	12 W column (grey)
LBC 3042/52	12 W column (off-white)
LBC 3043/02	24 W column (grey)
LBC 3043/52	24 W column (off-white)
LBC 3044/02	36 W column (grey)
LBC 3044/52	36 W column (off-white)

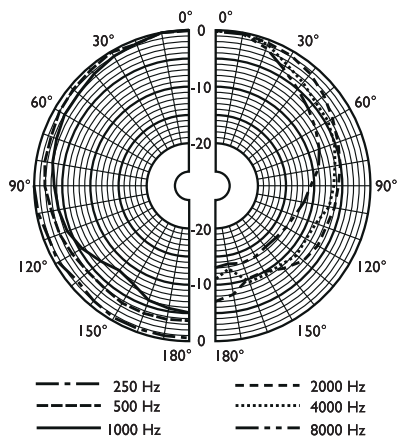


Wall mounting

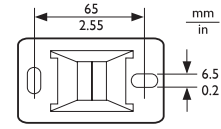
LBC 3042/x2



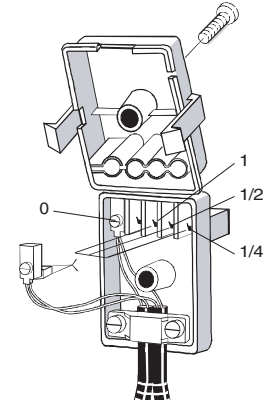
Dimensions (in mm/in)



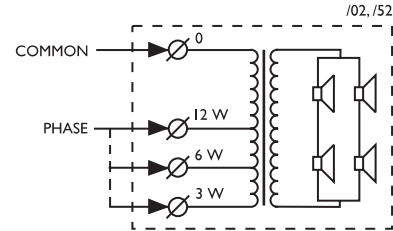
Polar diagram horizontal (measured with pink noise)



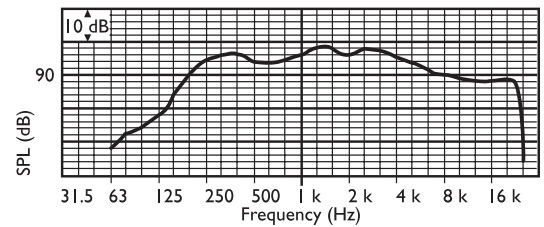
Dimensions (in mm/in)



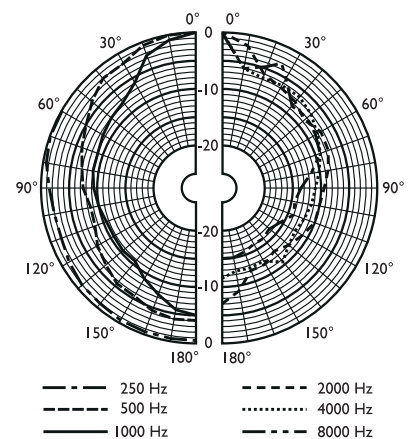
Power tapping with (loop-through wiring) 'quick-plug' connector



Circuit diagram



Frequency response



Polar diagram vertical (measured with pink noise)

SPECIFICATIONS

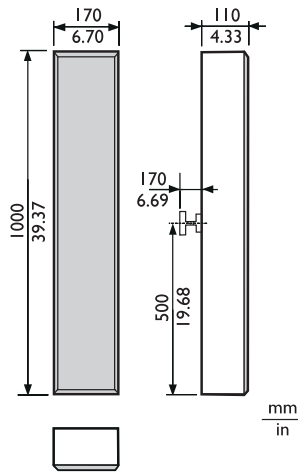
LBC 3042/x2, LBC 3043/x2, LBC 3044/x2

COLUMN LOUDSPEAKERS

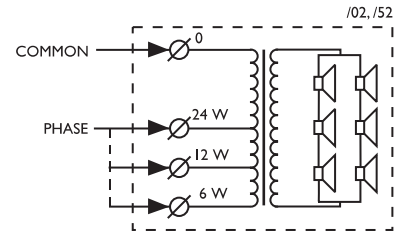
TECHNICAL PERFORMANCE DATA ACC. TO IEC 268-5

	LBC 3042/x2	LBC 3043/x2	LBC 3044/x2
Max. power	18 W	36 W	50 W
Rated power (PHC)	12 W (12 - 6 - 3 W)	24 W (24 - 12 - 6 W)	36 W (36 - 18 - 9 W)
Sound pressure level at rated power/1 W (at 1 kHz, 1 m)	107 dB/96 dB (SPL)	112 dB/98 dB (SPL)	113 dB/97 dB (SPL)
Effective frequency range (-10 dB)	170 Hz to 20 kHz	200 Hz to 20 kHz	150 Hz to 20 kHz
Opening angle (at 1 kHz/4 kHz, -6 dB)			
horizontal	180°/60°	180°/55°	160°/60°
vertical	40°/15°	30°/12°	30°/10°
Rated voltage	100V	100V	100V
Rated impedance	833 Ω	417 Ω	278 Ω
Speaker size	5"	5"	6"
Magnet weight	2.8 oz	2.8 oz	2.8 oz
Ambient temperature range	-25 to +55 °C	-25 to +55 °C	-25 to +55 °C
Safety	acc. to EN 60065	acc. to EN 60065	acc. to EN 60065
Connection	100V 'quick-plug' connector	100V 'quick-plug' connector	100V 'quick-plug' connector
Dimensions (H x W x D)	650 x 170 x 110 mm (25.6 x 6.7 x 4.3 in)	1000 x 170 x 110 mm (39.4 x 6.7 x 4.3 in)	975 x 224 x 110 mm (38.4 x 8.8 x 4.3 in)
Colour			
(Column/front)	matches RAL 7037/7043 (/02)	matches RAL 7037/7043 (/02)	matches RAL 7037/7043 (/02)
(Column/front)	matches RAL 9010/7044 (/52)	matches RAL 9010/7044 (/52)	matches RAL 9010/7044 (/52)
Weight	5 kg (11 lb)	8 kg (17.6 lb)	8.3 kg (18.3 lb)

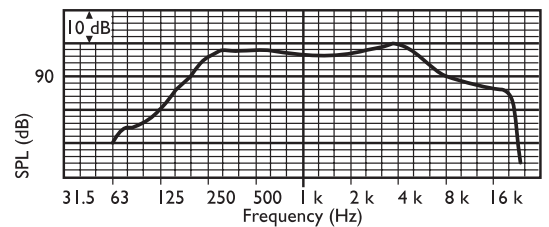
LBC 3043/x2



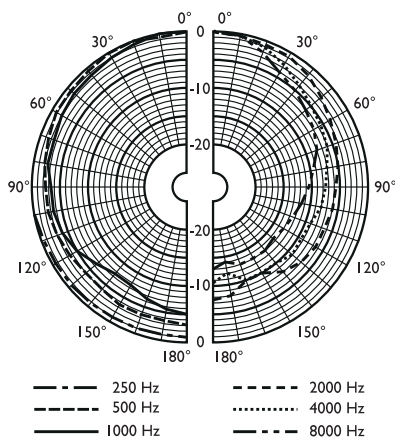
Dimensions (in mm/in)



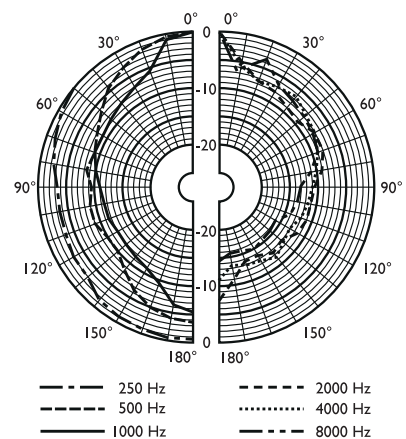
Circuit diagram



Frequency response



Polar diagram horizontal (measured with pink noise)



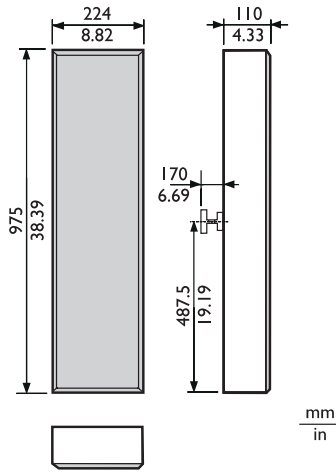
Polar diagram vertical (measured with pink noise)

SPECIFICATIONS

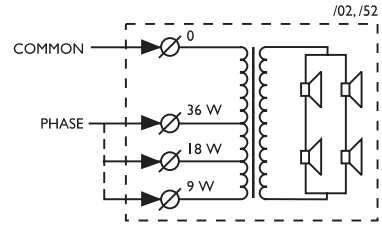
LBC 3042/x2, LBC 3043/x2, LBC 3044/x2

COLUMN LOUDSPEAKERS

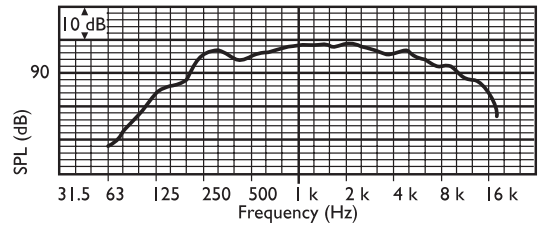
LBC 3044/x2



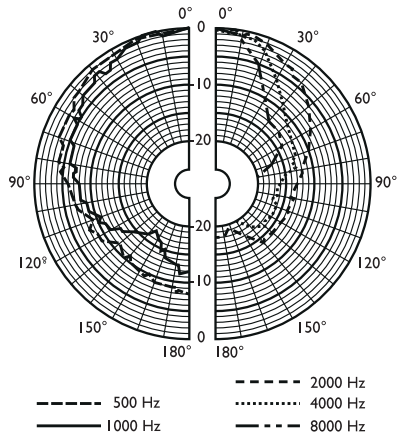
Dimensions (in mm/in)



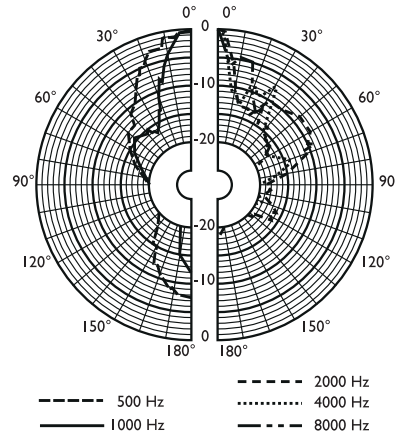
Circuit diagram



Frequency response



Polar diagram horizontal (measured with pink noise)



Polar diagram vertical (measured with pink noise)

LBC 3042/x2

Octave band (Hz)	125	250	500	1 k	2 k	4 k	8 k
SPL I.1	80	95	94	96	96	98	89
SPL max.	91	106	105	107	107	109	100
Q-factor	1.3	2.2	3.6	12.3	22	40	66
Efficiency	0.09	1.8	0.87	0.41	0.23	0.2	0.02
Hor. angle	360	300	220	180	105	60	50
Vert. angle	360	300	85	40	25	15	8

LBC 3044/x2

Octave band (Hz)	125	250	500	1 k	2 k	4 k	8 k
SPL I.1	86	94	95	97	97	95	90
SPL max.	102	110	111	113	113	111	106
Q-factor	2	2.4	6.8	14	26	65	62
Efficiency	0.25	1.32	0.6	0.46	0.25	0.06	0.02
Hor. angle	360	360	180	160	110	60	40
Vert. angle	360	120	55	30	12	10	10

LBC 3043/x2

Octave band (Hz)	125	250	500	1 k	2 k	4 k	8 k
SPL I.1	82	97	97	98	99	101	92
SPL max.	96	111	111	112	113	115	106
Q-factor	1.7	4	5.1	16	31	56	67
Efficiency	0.12	1.6	1.23	0.5	0.32	0.28	0.03
Hor. angle	360	220	200	180	110	55	50
Vert. angle	360	90	70	30	18	12	8



PHILIPS

Let's make things better.