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Contents

DL Series - ceiling-mount speakers

DL 90, DL 94, DL 96

page 2

DL 72/32 A, DL 72, DL70/70W, PL 70/70W, DL 70SH

page 3

WL Series - wall-mount speakers

WL 90, WL 90R, WL 90RP, WL 90RH

page 4

KL/PS/DLA/BLC/SL

spherical, ceiling-mount & sound wall speaker systems

KL 72, PS 300T, DLA 6/4, BLC 550T, SL 70

page 5

CPS Series - high performance speaker cluster

CPS 320, CPS 820

page 6

FE Series - compact full-range speaker cabinet

FE 40WT, FE 40BT, FE 20T

page 7

SZ/WS Series - PA-column speakers

SZ/WS 120, SZ/WS 130, SZ/WS 140

page 8

TK Series - indoor PA column speakers

TK 100, TK 200, TK 300, TK 400

page 9

WS 106, DW 21T

wall-mount speakers, sound-projector

WS 106, DW 21T

page 10

DRH 9086 - sectorial folded horns

DRH 9086

page 11

DL Series - compression driver horns

DL 8016/10T, DL 8016/15T

DL 8016/20T, DL 8016/30T

page 12

Loudspeaker system - accessories

FS 213/214, WH 101/102/103/106, LSR 820

page 13

L Series - volume controls

L 314, L 3100, L 3145R, L3100 SR

page 14



DL 90



DL 94



DL 96

Ceiling-mount loudspeakers **DL 90**, **DL 94** and **DL 96** with „Quick-Mount“-system. The metal tightening-springs of the quick-mount system guarantee durable stability, tight fitting and security for the ceiling-mounted speaker systems. Reliable connection at full, half and quarter output power is established through quick-mounting clamps and 100 V transformers. The fully metal grille and mounting ring have a white finish (RAL 9010).

	DL 90	DL 94	DL 96
nominal impedance	1667 Ω/100 V	1667 Ω/100 V	1667 Ω/100 V
nom. power handling capacity	6 W	6 W	6 W
matching	1/1 P, 1/2 P, 1/4 P	1/1 P, 1/2 P, 1/4 P	1/1 P, 1/2 P, 1/4 P
frequency response	80...15000 Hz	80...15000 Hz	70...18000 Hz
SPL @ 1W/1m	90 dB	92 dB	93 dB
maximum SPL @ 1m	98 dB	100 dB	101 dB
dimensions (WxHxD)	ø 170 x 75 mm	ø 180 x 80 mm	ø 220 x 85 mm
mounting hole	ø 145 mm	ø 165 mm	ø 200 mm incl. flat mounting adapter
weight	0.8 kg	1 kg	1,4 kg
finish	white (RAL 9010)	white (RAL 9010)	white (RAL 9010)
CE-approval	EN 50081-1 / 50081-2	EN 50081-1 / 50081-2	EN 50081-1 / 50081-2
accessories		hazard protection lid	hazard protection lid

**DL 72/32A**

2-way high performance, wide band loudspeaker system with 100 V matching transformer for ceiling-mount.

A bayonet joint connects the metal front grille with the loudspeaker system and the outer metal ring.

The speaker system is ceiling-mounted via spring clamps.

**DL 72**

The DL 72 high performance wide band loudspeaker system embodies 100 V matching transformers and can be ceiling-mounted.

The metal front grille is tightly connected to the outer plastic ring.

The entire system is ceiling-mounted via spring clamps.

**DL 70/DL 70W/PL 70/PL 70W**

The DL 70/DL 70 W and PL 70/PL 70 W are high performance wide band loudspeaker systems for ceiling-mount operation. All models employ 100 V matching transformers, metal front grilles with bayonet joint, and outer plastic rings (DL...) or square plastic covers (PL...).

The system is ceiling-mounted via spring clamps.

**DL 70SH**

The DL 70SH is a high performance wide band loudspeaker system with 100 V matching transformer. The outer plastic ring is nearly non-combustible and complies to the UL 94 V-0 U.S. standard. The loudspeaker system has a rear metal protection. It is mounted through spring clamps that are located inside the fire pot.

Special editions are available upon request!



DL 70SH



DL 70



DL 72



DL 72/32A

	DL 72/32A	DL 72	DL 70/DL 70W	PL 70/PL 70W	DL 70SH
nominal impedance	333 Ω/100 V	1667 Ω/100 V	1667 Ω/100 V	1667 Ω/100 V	1667 Ω/100 V
nom. power capacity	30 W	6 W	6 W	6 W	6 W
matching	1/1 P, 1/2 P, 1/4 P	1/1 P, 1/2 P, 1/4 P	1/1 P, 1/2 P, 1/4 P	1/1 P, 1/2 P, 1/4 P	1/1 P, 1/2 P, 1/4 P
frequency response	80...16000 Hz (according to DIN reg.)	60...16000 Hz (according to DIN reg.)	60...16000 Hz (according to DIN reg.)	60...16000 Hz (according to DIN reg.)	60...16000 Hz (according to DIN reg.)
SPL @ 1W/1m	95 dB	90 dB	90 dB	90 dB	90 dB
maximum SPL @ 1m	110 dB	98 dB	98 dB	98 dB	98 dB
dimensions (WxHxD)	ø 265 x 100 mm	ø 227 x 90 mm	ø 215 x 110 mm	215 x 215 x 110 mm	ø 227 x 105 mm
mounting hole	ø 240 mm	ø 198 mm	ø 195 mm	ø 195 mm	ø 198 mm
weight	2,5 kg	1 kg	1 kg	1 kg	1,6 kg
finish	white	white	DL 70: white/black DL 70W: white	PL 70: white/black PL 70W: white	white

WL 90



The wall-mount loudspeaker series **WL 90** is best suitable for speech and music reproduction in 100 V sound reinforcement and PA-systems.

The integration of 100 V transformers optimally prepares the WL 90 series loudspeakers to be used at full, half or quarter output power.

They are mounted onto walls using the supplied screws and dowels.

The **WL 90R** provides a low impedance rotary volume control while WL 90RP-type speakers offer the possibility to bridge the low impedance volume control via obligatory reception relay.

The **WL 90RH** provides a 10-step, high impedance volume control on the primary end.

WL 90R



	WL 90	WL 90R	WL 90RP/RH
nominal impedance	1667 Ω/100 V	1667 Ω/100 V	1667 Ω/100 V
nom. power handling capacity	6 W	6 W	6 W
matching	1/1P, 1/2P, 1/4P	1/1 P, 1/2 P, 1/4 P	1/1 P, 1/2 P, 1/4 P
frequency response	80...15000Hz	80...15000Hz	80...15000Hz
SPL @ 1W/1m	90 dB	90 dB	90 dB
maximum SPL @ 1m	98 dB	98 dB	98 dB
dimensions (W x H x D)	280 x 193 x 83 mm	280 x 193 x 83 mm	280 x 193 x 83 mm
weight	1.3 kg	1.3 kg	1.3 kg
finish	white (RAL 9010)	white (RAL 9010)	white (RAL 9010)

KL 72



**KL 72**

The KL 72 spherical ceiling-mount 100 V loudspeaker system has a white finished plastic enclosure with a white-lacquered aluminum grille.

**PS 300T**

The PS 300T 2-way ceiling-hung loudspeaker system with 100 V transformer comes in a light gray plastic enclosure with an aluminum grille for the tweeter section.

PS 300T



**BLC 550T**

Loudspeaker system with 100 V transformer and white plastic enclosure that is suitable to be mounted on walls or on the ceiling.

**DLA 6/4**

The DLA 6/4 high performance ceiling-mount loudspeaker system with plastic enclosure is meant to be mounted onto the ceiling.

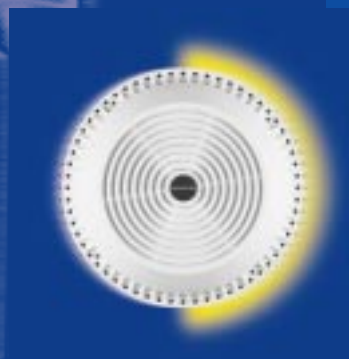
The incorporated wide band speaker is driven via 100 V matching transformer.

**SL 70**

The SL 70 sound wall high performance 100 V loudspeaker system is meant to be placed on top of a lowered ceiling.



BLC 550T



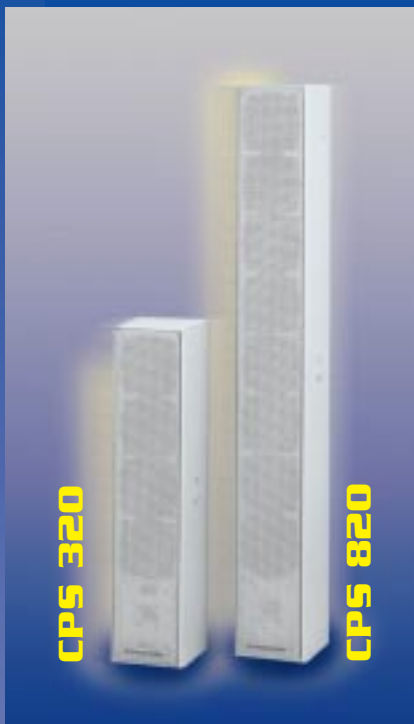
DLA 6/4



SL 70

	KL 72	PS 300T	BLC 550T	DLA 6/4	SL 70
nominal impedance	1000 Ω/100 V	333 Ω/100 V	1667 Ω/100 V	2500 Ω/100 V	1667 Ω/100 V
nom. power capacity	10 W	30 W	6 W	4 W	6 W
matching	1/1 P, 1/2 P, 1/4 P	1/1 P, 1/2 P, 1/20 P	1/1 P, 1/2 P, 1/4 P, 1/12 P	1/1 P, 1/2 P, 1/4 P	1/1 P, 1/2 P, 1/4 P
frequency response	60...18000 Hz	50...20000 Hz	100...15000 Hz	100...12000 Hz	60...16000 Hz
	(according to DIN reg.)	(according to DIN reg.)	(according to DIN reg.)	(according to DIN reg.)	(according to DIN reg.)
SPL @ 1W/1m	92 dB	88 dB	90 dB	91 dB	90 dB
maximum SPL @ 1m	102 dB	102 dB	97 dB	97 dB	98 dB
dimensions (WxDxH)	Ø 240 mm	Ø 160 x 183 mm	Ø 160 x 85 mm	Ø 290 x 86 mm	260 x 260 x 120 mm
weight	1.3 kg	2.5 kg	1.5 kg	1 kg	1.2 kg
finish	white (RAL 9010)	light gray (RAL 7035)	white	white	black





CPS 320

CPS 820

The **CPS 320** and **CPS 820** models are 2-way speaker columns with excellent horizontal diversity characteristics and extreme low distortion. Four, respectively eight Lo/Mid speakers in a straight group design provide very well defined vertical radiation. The incorporated Hi-frequency range horn system is coupled via an 18 dB/oct. Butterworth crossover.

All loudspeaker systems are protected against overload. The switchable input and output connectors provide the opportunity to select either low impedance or 100 V operation. Trouble-free mounting is provided through an integrated rail-mount on the rear panel of the enclosure. Data sheets are provided upon request.

**polar patterns CPS 320**



1 kHz



2 kHz



4 kHz



8 kHz

horizontal \_\_\_\_\_  
scale is 10 dB per division

vertical -----  
scale is 10 dB per division

**polar patterns CPS 820**



1 kHz



2 kHz



4 kHz



8 kHz

horizontal \_\_\_\_\_  
scale is 10 dB per division

vertical -----  
scale is 10 dB per division

	CPS 320	CPS 820
nominal impedance	200 Ω/100 V 4 Ω	100 Ω/100 V 8 Ω
nom. power handling capacity	50 W	100 W
matching	1/1 P, 1/2 P, 1/4 P	1/1 P, 1/2 P, 1/4 P
frequency response	70...20000Hz/-20 dB	60...20000Hz/-20 dB
SPL @ 1W/1m	94 dB	97 dB
maximum SPL @ 1m	111 dB	117 dB
dimensions (W x H x D)	166 x 734 x 195 mm	166 x 1260 x 195 mm
weight	12 kg	18 kg
finish	light gray (RAL 7035)	light gray (RAL 7035)
accessories		
wall-adapter	WH 103	WH 103
floor stand	FS 213	FS 213
stand adapter	LSR 820	LSR 820

FE 40WT

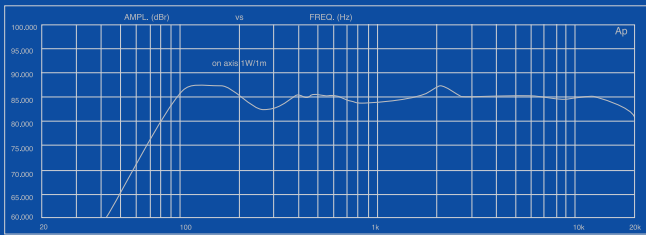


FE 40BT

The **FE 40WT** and **FE 40BT** compact full-range speaker cabinet are furnished with 100 V transformers. They are equally suitable to be used as near-field monitors in recording studios or for the reproduction of background music programs in various locations. The bass range is represented by a direct radiating 13 cm woofer with polypropylene diaphragm while the treble is reproduced by a 2.5 cm tweeter with ferro-fluid cooling.

These high-quality components are responsible for the monitor's warm, clean and therefore pleasant sound. Integrated protection circuitry reliably prevents the tweeter from overload. In case the maximal allowable power handling capacity is exceeded, the level is reduced until it is again within safe limits. The Thiele-Small parameter optimized loudspeaker enclosure is molded from highly rigid plastic.

frequency response FE 40



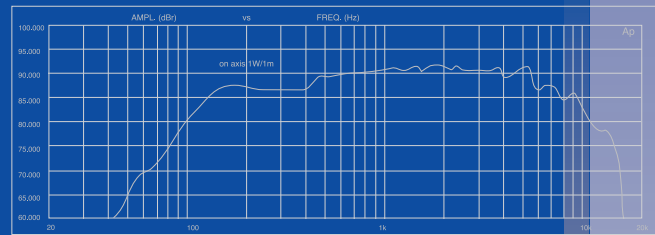
FE 20T

The **FE 20T** compact wide band speaker cabinet comes in a very robust polystyrene-molded enclosure and is meant for high-quality reproduction of music and speech.

The integrated 100 V transformer allows operation of the FE 20T at full, half, and quarter output power. Floor-stand or wall-mounting is achieved through optional metal mounting-brackets.

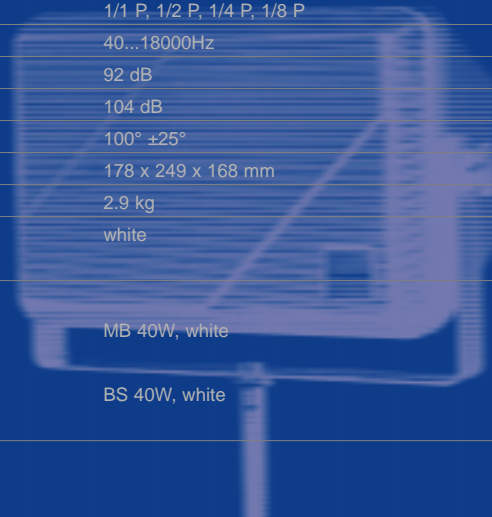
Its compact size and outstanding sound quality make the FE 20T most suitable for various applications.

frequency response FE 20T



	FE 40 WT/BT
nominal impedance	333 Ω/100 V
nom. power handling capacity	30 W
matching	1/1 P, 1/2 P, 1/4 P, 1/8 P
frequency response	65...20000Hz/-10 dB
SPL @ 1W/1m	84 dB
maximum SPL @1m	99 dB
radiation angle	100° ±25°
dimensions (W x H x D)	178 x 249 x 168 mm
weight (per pair)	7.1 kg
finish	FE 40WT white FE 40BT black
accessories:	
mounting bracket	MB 40W, white MB 40B, black
ball-shaped bearing	BS 40W, white BS 40B, black

	FE 20T
nominal impedance	667 Ω/100 V
nom. power handling capacity	15 W
matching	1/1 P, 1/2 P, 1/4 P, 1/8 P
frequency response	40...18000Hz
SPL @ 1W/1m	92 dB
maximum SPL @1m	104 dB
radiation angle	100° ±25°
dimensions (W x H x D)	178 x 249 x 168 mm
weight (per pair)	2.9 kg
finish	white



FE Series



SZ/WS 120

SZ/WS 130

SZ/WS 140

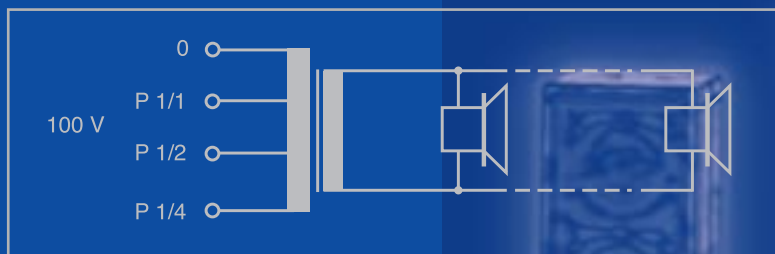
The **SZ/WS-Series** models are PA column speakers in aluminium enclosures.

They employ high performance wide band loudspeaker systems with 100 V matching transformers.

The rear mounting-groove offers easy mounting, using the wall-mount adapter WH 101/103 or the floor-stand adapter WH 102.

The **WS-Series** models are PA column speakers as well, but in weather-proof enclosures.

SZ/WS block diagram



	SZ/WS 120	SZ/WS 130	SZ/WS 140
nominal impedance	500 Ω/100 V	333 Ω/100 V	250 Ω/100 V
nom. power handling capacity	20 W	30 W	40 W
matching	1/1 P, 1/2 P, 1/4 P	1/1 P, 1/2 P, 1/4 P	1/1 P, 1/2 P, 1/4 P
frequency response	60...16000 Hz/-10 dB	60...16000 Hz	60...16000 Hz
SPL @ 1W/1m	97 dB	99 dB	100 dB
maximum SPL @ 1m	110 dB	114 dB	116 dB
dimensions (W x H x D)	160 x 600 x 105 mm	160 x 900 x 105 mm	160 x 1200 x 105 mm
weight	6.2 kg	9.4 kg	12.6 kg
finish	silver	silver	silver
accessories:			
wall-mount adapter	WH 101/103	WH 101/103	WH 101/103
stand-mount adapter	WH 102	WH 102	WH 102
floor stand	FS 214	FS 214	FS 214

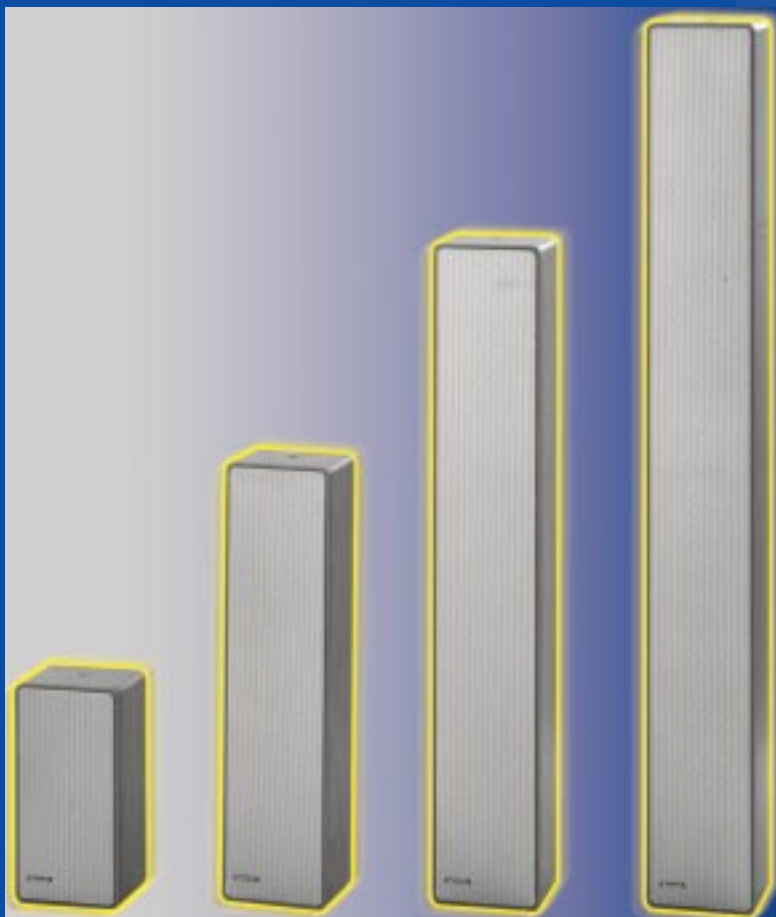
TK...N  
TK...W

These PA column speakers are meant for indoor installation and come in rigid walnut-finish or white wooden slim-line enclosures with aluminum front grille.

Their high performance wide band speaker systems make them equally ideal for the reproduction of speech and music.

The integrated transformer and the rear selection switch allow 100 V operation at different output power settings or connection to a low impedance power output.

A wall-mounting facility is integrated into the rear of the enclosure while covered nuts in the enclosure's top and bottom plate are provided for the use of the WH 106 mounting adapter.



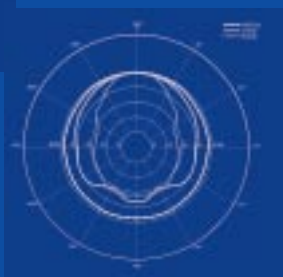
TK 100

TK 200

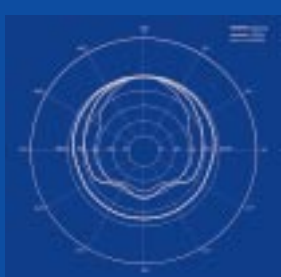
TK 300

TK 400

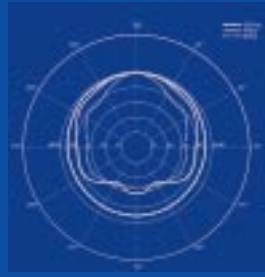
TK Series polar patterns



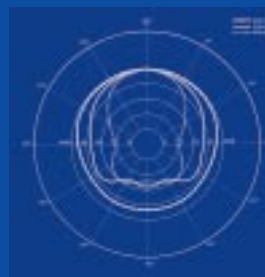
TK 100



TK 200



TK 300



TK 400

	TK 100N/TK 100W	TK 200N/TK 200 W	TK 300N/TK 300W	TK 400N/TK 400W
nominal impedance	667 Ω/100 V 8 Ω	333 Ω/100 V 8 Ω	222 Ω/100 V 8 Ω	167 Ω/100 V 8 Ω
nom. power handling capacity	15 W	30 W	45W	60 W
matching	1/1 P, 1/2 P, 1/4 P	1/1 P, 1/2 P, 1/4 P	1/1 P, 1/2 P, 1/4 P	1/1 P, 1/2 P, 1/4 P
frequency response	45...20000Hz	45...20000Hz	45...20000Hz	45...20000Hz
SPL @ 1W/1m	93 dB	95 dB	96 dB	97 dB
maximum SPL @ 1m	105 dB	110 dB	112 dB	115 dB
dimensions (W x H x D)	150 x 300 x 110 mm	150 x 600 x 110 mm	150 x 900 x 110 mm	150 x 1200 x 110 mm
weight	2.5 kg	4.5 kg	6.5 kg	8.5 kg
finish				
TK...N	walnut	walnut	walnut	walnut
TK...W	white	white	white	white
accessories:				
wall-mount adapter	WH 106	WH 106	WH 106	WH 106

WS 106



**WS 106**

The WS 106 is a weather-proof wall-mount loudspeaker system in a metal-finished aluminum enclosure. The sound wall carries a high performance wide band speaker with special diaphragm and 100 V transformer which conveniently allows matching the output power. The rear mounting-groove provides easy mounting, using wall-mount adapters or on floor-stands.

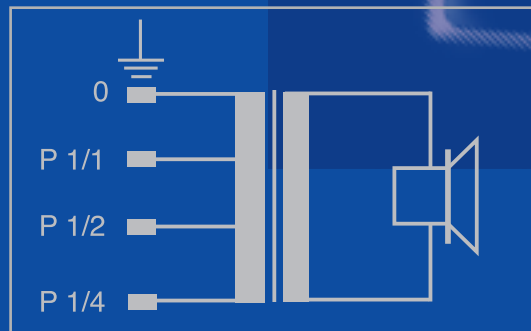
**DW 21T**

The DW 21T is a weather-proof sound projector in a beige plastic enclosure with a swivel mounting-arm. Its wide band speaker system resists tropic conditions. The 100 V transformer allows the system to be matched to different output power.

DW 21T



**block diagram**



	WS 106	DW 21T
nominal impedance	1667 Ω/100 V	500 Ω/100 V
nom. power handling capacity	6 W	20 W
matching	1/1 P, 1/2 P, 1/4 P	1/1 P, 1/2 P, 1/4 P
frequency response	60...16000Hz (according to DIN regulations)	60...16000Hz (according to DIN regulations)
SPL @ 1W/1m	90 dB	92 dB
maximum SPL @ 1m	98 dB	105 dB
dimensions (W x H x D)	160 x 215 x 105 mm	ø180 x 265 m
weight	2 kg	4.1 kg
finish	silver	white
accessories	wall-mount adapter WH 101/103	-



DRH 9086

DRH 9086

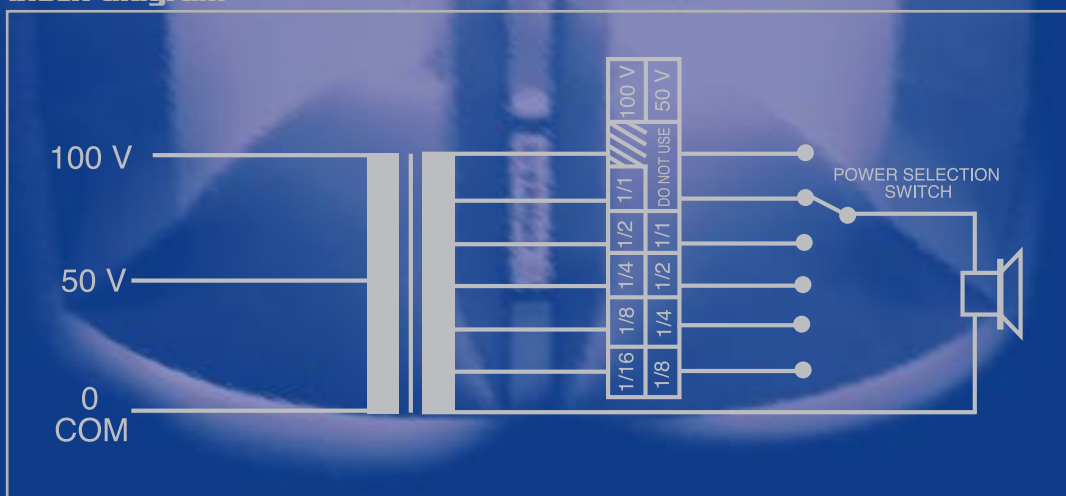
### DRH 9086

The **DRH 9086** sectorial folded horn consists of two coupled, folded horn systems with driver, 100 V transformer and low-cut filter protection for the driver. Combining two folded horns result in very compact dimensions, high efficiency, an improved radiation angle, and controlled radiation at high frequencies which makes the DRH 9086 especially suitable for calling, intercom and emergency alarm installations.

The standard U-shaped mounting adapter allows flexible wall and ceiling mounting as well as conveniently directing the speaker system in the desired direction. Power-matching is provided through a screwdriver-suitable 6-step rotary switch.

The weather-proof plastic enclosure and protected driver allow indoor and outdoor installation.

### block diagram



### DRH 9086

nominal impedance	167 $\Omega$ /100 V
nom. power handling capacity	60 W
matching	1/1 P, 1/2 P, 1/4 P, 1/8 P, 1/16 P, 1/32 P
frequency response	500...4000Hz/-5 dB
SPL @ 1W/1m	107 dB
maximum SPL @ 1m	116 dB
radiation angle	100° x 60°/2 kHz
dimensions (W x H x D)	695 x 370 x 545 mm
weight	8 kg
finish	gray
enclosure material	glass fiber / polyester

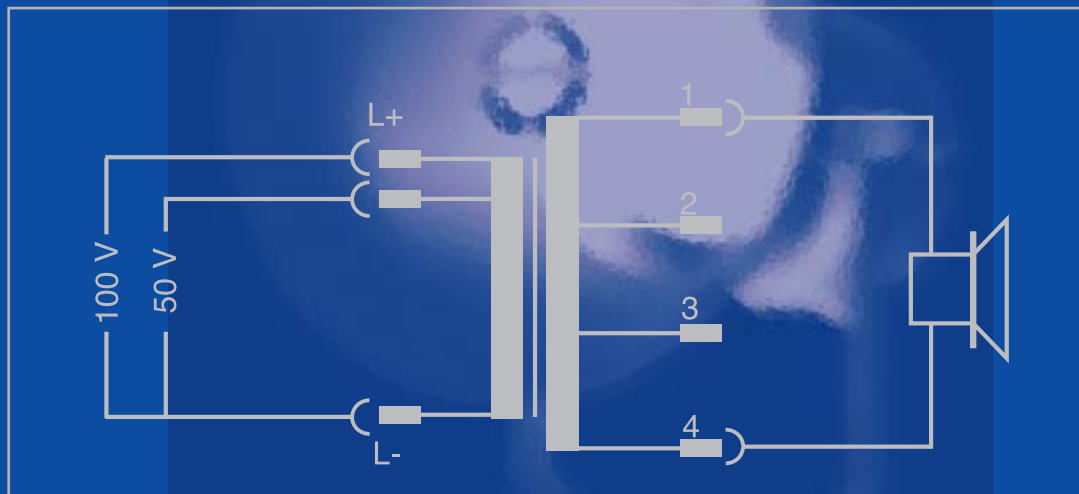


DL 8016/10T

**DL Series: DL 8016/10T, DL 8016/15T  
DL 8016/20T, DL 8016/30T**

These weather-proof compression driver horns incorporate an integrated 100 V matching transformer and offer high intelligibility and extraordinary SPL. Their shock-resistant enclosures provide a pivoting swivel mounting adapter.

#### block diagram



	DL 8016/10T	DL 8016/15T	DL 8016/20T	DL 8016/30T
nominal impedance	1000 Ω/100 V	667 Ω/100 V	500 Ω/100 V	333 Ω/100 V
nom. power handling capacity	10 W	15 W	20 W	30 W
matching	1/1 P, 1/2 P, 1/4 P, 1/8 P	1/1 P, 1/2 P, 1/4 P, 1/8 P	1/1 P, 1/2 P, 1/4 P, 1/8 P	1/1 P, 1/2 P, 1/4 P, 1/8 P
frequency response	350...8000Hz	350...8000Hz	350...8000Hz	350...8000Hz
SPL @ 1W/1m	106 dB	107 dB	109 dB	110 dB
max. SPL (1m)	116 dB	119 dB	122 dB	125 dB
dimensions (B x H)	Ø 139 x 193 mm	Ø 200 x 247 mm	Ø 237 x 286 mm	Ø 250 x 342 mm
weight	1.3 kg	1.8 kg	3.0 kg	3.4 kg
finish	gray	gray	gray	gray
enclosure material	acryl-ester / luran-S	acryl-ester / luran-S	polyester / glass fiber	polyester / glass fiber

WH 101



WH 102



**WH 101/103**  
wall-mount adapter for PA-system group radiators (SZ/WS-Series).

**WH 102**  
stand-mount adapter for PA-system group radiators.

**WH 106**  
wall-mount adapter for summit group radiators(TK-Series).

WH 103



WH 106



LSR 820



**LSR 820**  
speaker system turning frame for CPS group radiators.

FS 213



FS 214



**FS 212/FS 214**  
adjustable floor-stands for PA-system group radiators



L 3100



L 3100SR



L 314



L 314SR



**L 314/L 3100**

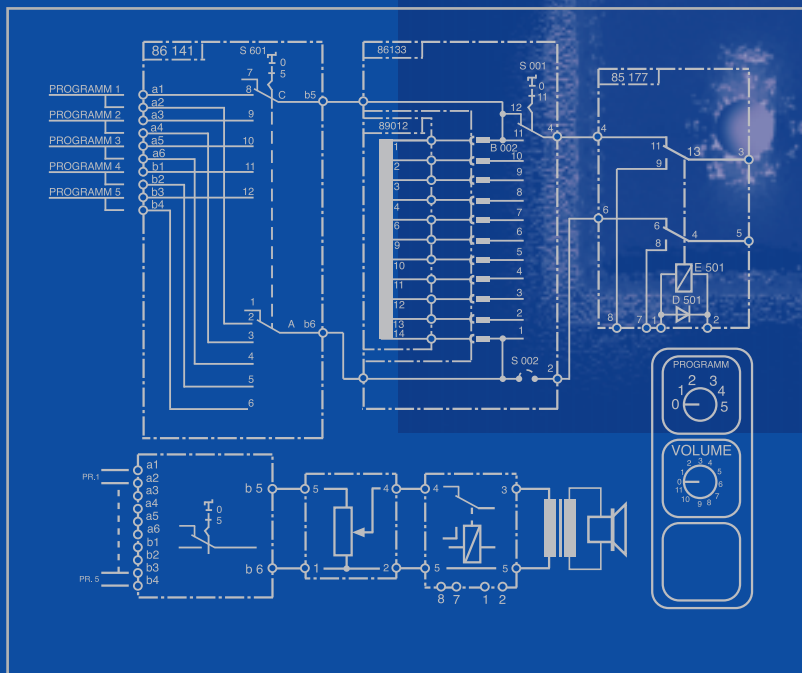
11-step attenuation switch with marked „0“-position. Cover plate and frame in a modern appearance (switch surface-mount program), including 55-size flush socket enclosure; selectable obligatory reception. The volume control is connected through a screw-clamp terminal strip. A surface-mounting frame is optionally available.

**L 314 SR/L 3100 SR**

Attenuation switch with 6-step program selector and additional relay for absolute obligatory reception.

These volume controls are compatible and can be combined with the standard assortment of GIRA products.

**block diagram**



**L 314/L 314SR**

**L 3100/L 3100SR**

nominal power handling capacity	6 W/100 V	100 W/100 V
attenuation	3...4 dB	3...4 dB
dimensions (B x H )	81 x 81 mm (L 314) 81 x 152 mm (L 314SR)	81 x 152 mm (L 3100) 81 x 224 mm (L 3100SR)
weight	0.1 kg (L 314) 0.32 kg (L 314SR)	0.45 kg (L 3100) 0.65 kg (L 3100SR)
finish	white	white
accessories:		
surface mounting-frame	LD 301 (L 314) LD 302 (L 314SR)	LD 302 (L 3100) LD 303 (L 3100SR)
obligatory reception relay	NRS 90192 (L 314)	NRS 90192 (L 3100)

A large central area with horizontal dotted lines for writing notes.



A large white rectangular area with horizontal dotted lines, intended for writing notes.

