The Innovation Company
LTG Aktiengesellschaft

Technical Documentation

Accessories for LTG air distribution

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Accessories for LTG air distribution

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Notes

Dimensions stated in this brochure are in mm.

Dimensions stated in this brochure are subject to General Tolerances according to DIN ISO 2768-vL.
Possible additional details are stated in the drawings.

Straightness and twist tolerances
according to DIN EN 12020-2.

The actual specifications are at the end of this document.
They are available as a word document at your local distributor or at www.LTG-AG.com.

Accessories for LTG air distribution
Cross talk flexible duct silencer type SDE-AO, round

Specification

Cross talk flexible duct silencer, consisting of:

- Outer casing of corrugated aluminium
- Inner casing of corrugated perforated aluminium
- Synthetic resin bonded mineral fibre mat as sound absorbing material between the outer and inner casing including leak protection lining
- Aluminium end caps, sturdy version
- Plug-in end pieces suitable for connection to air ducts based on DIN EN 1506

Operating temperature up to +100 °C.

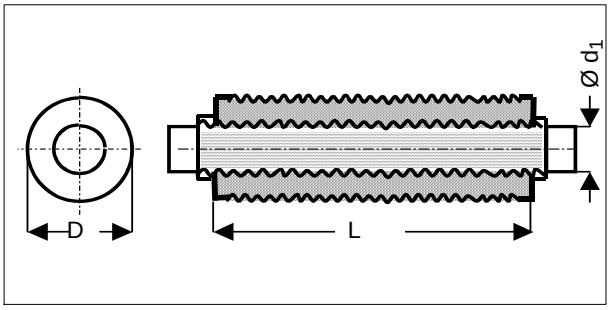
Absorption material non-combustible according to DIN EN 13501, fire rating A1.

Insulating material free of carcinogenic effect based on Hazardous Substances Regulation and Directive 97/69/EC.

Minimum bend radius 1.5 x D referring to the neutral fibre.

Packing thickness 50 mm.

Dimensions, insertion loss, weight



D_1	D	L	Octave band [Hz]							Weight
			125	250	500	1000	2000	4000	8000	
[mm]	[mm]	[mm]	Insertion loss [dB]							[kg]
80	180	1000	14	21	30	47	50	50	45	1.1
100	200		10	16	25	42	50	43	38	1.3
125	224		7	13	22	39	42	25	22	1.7
160	250		5	10	21	39	30	20	17	1.9
200	300		5	8	16	32	22	15	13	2.4
250	355		4	8	16	32	15	11	10	3.0
315	400		4	6	12	25	11	10	8	3.4
400	500		4	6	10	20	9	8	7	4.3

Accessories for LTG air distribution
Circular silencer type SDE-SO, round

Specification

Circular silencer, rigid, made of galvanized sheet steel, consisting of:

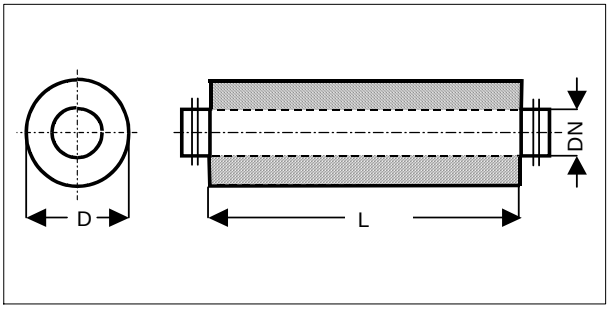
- Outer casing
- Sound permeable perforated inner casing
- 50 mm DIN 4102 non-combustible absorption material, leak protection lined, between outer and inner casing
- Plug-in end pieces with twin lip seal, steel strip fixed, suitable for connection to air ducts based on DIN EN 1506

Operating temperature up to +100 °C.

Air flow speed up to 30 m/s.

Dimensions, insertion loss, weight

DN 80 to 250 in length of 300, 600, 900, 1200 mm
DN 315 and 400 in length of 600, 900 and 1200 mm.



DN	D	L	Octave band [Hz]								Weight
			63	125	250	500	1000	2000	4000	8000	
	[mm]	[mm]	Insertion loss [dB]								[kg]
80	180	300	4	6	5	10	27	47	43	15	2
		600	4	9	13	20	38	50	45	24	3
		900	4	11	22	42	49	50	48	33	5
		1200	4	13	31	50	50	50	50	42	7
100	200	300	3	8	7	10	25	37	36	12	2
		600	4	9	11	19	33	45	40	19	4
		900	4	10	15	28	40	50	44	27	7
		1200	4	10	20	37	48	50	48	34	8
125	225	300	3	4	7	11	15	14	14	11	3
		600	4	6	10	19	28	33	25	18	4
		900	4	9	14	27	42	50	35	24	7
		1200	4	11	17	36	46	50	46	31	9
160	260	300	1	2	5	9	17	14	16	8	3
		600	2	4	8	16	26	26	23	10	6
		900	3	5	11	23	35	39	30	12	9
		1200	4	6	15	30	44	50	38	14	11
200	300	300	0	2	5	12	11	10	10	9	4
		600	0	3	7	16	22	20	13	10	7
		900	1	5	10	19	32	31	16	11	10
		1200	2	6	12	22	42	41	20	13	12
250	350	300	1	1	3	8	10	9	4	4	5
		600	1	2	6	13	19	15	8	6	9
		900	2	3	9	17	26	21	13	8	12
		1200	2	4	12	21	34	27	17	10	15
315	415	600	0	1	4	10	12	7	4	4	10
		900	1	2	6	15	21	15	8	7	15
		1200	1	3	7	21	27	22	13	10	24
400	500	600	1	1	4	10	11	5	1	2	8
		900	1	2	5	13	15	8	3	2	24
		1200	1	2	7	16	20	11	4	3	34

Accessories for LTG air distribution
Splitter silencer type SDF-SM, rectangular

View of unit

Specification

Splitter silencer, for flow rate controllers typ VRF-W and VRX, consisting of:

- Frame and jacket of continuously galvanized sheet steel, streamlined for lower pressure loss
- Splitter based on absorber principle. RAL quality label mineral wool absorption material, biosoluble according to TRGS 905 and Directive 97/69/EC. Non-combustible according to DIN EN 13501, Class A2-s1d0, with glass silk covering

All technical data based on DIN EN ISO 7235.

Meets any sanitation requirements of: VDI 6032 and 3808, DIN 1946 T4, DIN EN 13779, Önorm H6020 and H6021, SWKI VA 104-01 and 99-3.

Construction consisting of casing (overall length) with integrated splitters (active length).

Admissible pressure	+1000 Pa / -630 Pa
Air speed	max. 20 m/s
Application temperature	max. 100 °C
Medium	normal air

Sound absorption

Octave band [Hz]	**Absorption** [dB]
63	2
125	4
250	8
500	17
1000	33
2000	32
4000	18
8000	14

Values apply to the active length L = 1000 mm and are valid for all model sizes.

Dimensions, weight

Width [mm]	**Height** [mm]	**Length** [mm]	**Active length** [mm]	**Weight** [kg]
200	100	1300	1000	20
300				26
400				30
500				35
600				39
300	150	1300	1000	26
400				30
500				35
600				39
200	200	1300	1000	20
300				26
400				30
500				35
600				39
800				49
300	250	1300	1000	38
400				32
500				38
600				43
800				53
300	300	1500	1000	34
400				38
500				45
600				50
800				62
1000				79
400	400	1500	1000	44
500				51
600				57
800				69
1000				88
1200				101

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Specification and schedule of prices
Cross talk flexible duct silencer type SDE-AO

Quantity	Description of services	Unit price in €	Total price in €
	Cross talk flexible duct silencer, round, matching to LTG flow rate controllers type VRE and VRE-W. Consisting of: - Outer casing of corrugated aluminum - Inner casing of corrugated perforated aluminum - Synthetic resin bonded mineral fiber mat as sound absorbing material between the outer and inner casing - Aluminum end caps, sturdy version - Plug-in end pieces suitable for connection to air ducts based on DIN EN 1506 Operating temperature up to +200 °C Absorption material non-combustible according to DIN EN 13501. Fire rating A1. Insulating material free of carcinogenic effect based on Hazardous Substances Regulation and Directive 97/69/EC. Minimum bend radius 1.5 x D referring to the neutral fiber. Packing thickness: 50 mm **Standard dimensions** DN Length o 80 1000 o 100 1000 o 125 1000 o 160 1000 o 200 1000 o 250 1000 o 315 1000 o 400 1000 **Manufacturer:** **LTG Aktiengesellschaft** **Series:** **Silencer** **Type:** **SDE-AO** **Accessories, special equipment** (optional, additional charge) o Special length 500 o Special length 750 o Special length 1250 o Special length 1500 o Special length 2000		

Specification and schedule of prices
Cross talk silencer type SDE-SO

Quantity	Description of services	Unit price in €	Total price in €
	Circular silencer, round, rigid, made of galvanized sheet steel, matching to LTG flow rate controllers type VRE and VRE-W. Consisting of: - Outer casing - Sound permeably perforated inner casing - 50 mm DIN 4102 non-combustible absorption material, leak protection lined, between outer and inner casing - Plug-in end pieces with twin lip seal, steel strip fixed, suitable for connection to air ducts based on DIN EN 1506 Operating temperature up to +100 °C. Air flow speed up to 30 m/s. **Standard dimensions** DN Length o 80 900 o 100 900 o 125 900 o 160 900 o 200 900 o 250 900 o 315 900 o 400 900 **Manufacturer:** **LTG Aktiengesellschaft** **Series:** **Silencer** **Type:** **SDE-SO** **Accessories, special equipment** (optional, additional charge) o Special length 300 (only DN 80 … DN 250) o Special length 600 o Special length 1200		

Specification and schedule of prices
Splitter silencer type SDF-SM

Quantity	Description of services	Unit price in €	Total price in €

Splitter silencer, rectangular, matching to LTG flow rate controllers type VRX and VRF-W.

Consisting of:
- Frame and jacket of continuously galvanized sheet steel, streamlined for lower pressure loss
- Splitter based on absorber principle. RAL quality label mineral wool absorption material, biosoluble according to TRGS 905 and Directive 97/69/EC. Non-combustible according to DIN EN 13501, Class A2-s1d0, with glass silk covering

All technical data based on ISO EN 13501 and 7235.
Meets any sanitation requirements of: VDI 6022 and 3808, DIN 1946 T4, DIN EN 13779, Önorm H6020 and H6021, SWKI VA 104-01 and 99-3.

Standard dimensions

	Width	Height	Length	Active length
o	200	100	1300	1000
o	300			
o	400			
o	500			
o	600			
o	300	150		
o	400			
o	500			
o	600			
o	200	200		
o	300			
o	400			
o	500			
o	600			
o	800			
o	300	250		
o	400			
o	500			
o	600			
o	800			
o	300	300	1500	
o	400			
o	500			
o	600			
o	800			
o	1000			
o	400	400		
o	500			
o	600			
o	800			
o	1000			
o	1200			

Manufacturer: **LTG Aktiengesellschaft**
Series: **Silencer**
Type: **SDF-SM**