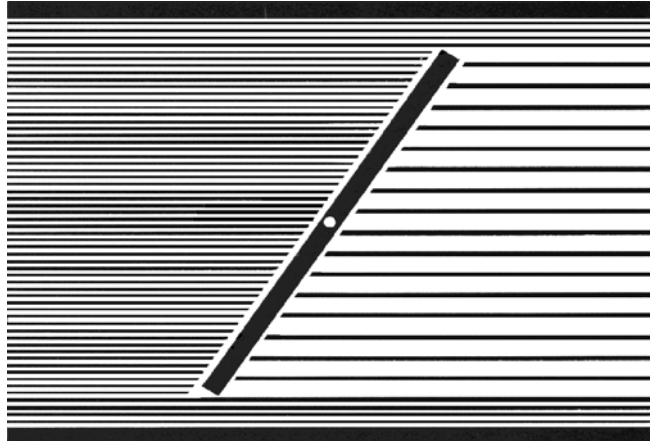


Accessories *for LTG Air Distributing Systems*



LTG Aktiengesellschaft

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Internet: <http://www.LTG-AG.de>
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E-Mail: ltg@ltsrl.191.it

Components for Room Air Technology

Germany

Central Office (Frankfurt)

Sales area:

PLZ 54, 55, 60, 63, 64, 66-69, 97
 Sontraer Str. 27
 D-60386 Frankfurt am Main
 ☎ (069) 94 20 19-14, Fax -10
 E-mail: Bergmann@LTG-AG.de

Central office (Herborn)

Sales area:

PLZ 30, 31, 34-38, 56, 57, 61, 65
 Sperberweg 16
 D-35745 Herborn
 Herr Hartmann
 ☎ (02772) 570-725, Fax -727
 E-mail: Hartmann@LTG-AG.de

Eastern office (Berlin)

Sales area:

PLZ 10-25, 29, 39
 Eisenhutweg 51a
 D-12487 Berlin
 Herr Linke
 ☎ (030) 63 22 87-74, Fax -75
 E-mail: Linke@LTG-AG.de

Eastern office (Chemnitz)

Sales area:

PLZ 01-09, 98, 99
 Johannes-Ebert-Straße 20
 D-09128 Chemnitz
 Herr Schenfeld
 ☎ (0371) 77118-01, Fax -02
 E-mail: Schenfeld@LTG-AG.de

Southern office

Sales area:

PLZ 70-96
 Grenzstraße 7
 D-70435 Stuttgart
 Herr Gau
 ☎ (0711) 8201-209, Fax -210
 E-mail: Gau@LTG-AG.de

Western office

Sales area:

PLZ 26-28, 32, 33, 40-53, 58-59
 Baststraße 30
 D-46119 Oberhausen/Rheinl.
 Herr Perenz
 ☎ (0208) 30431-55, Fax -56
 E-mail: Perenz@LTG-AG.de

Austria

KTG Klimatechnische Gesellschaft mbH

Schubertstraße 13, A-2126 Ladendorf
 ☎ (02575) 21089, Fax (02575) 21022
 E-Mail: office@ktg-wien.com

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MAP

Motorised Air Products Ltd.

Unit 5A, Sopwith Crescent
 Wickford Business Park Wickford
 GB-Essex SS11 8YU
 ☎ (01268) 57 44 42, Fax (01268) 57 44 43
 E-Mail: info@mapuk.com

Netherlands

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Leeuwerikstraat 110, NL-3853 AG Ermelo
 ☎ (0341) 493969, Fax (0341) 493931
 E-Mail: info@opticlimate.nl

Poland

HTK Went Sp.z.o.o.

ul. Chopina 13/3, PL-30047 Krakow
 ☎ (012) 632 31 32, Fax (012) 632 81 93
 E-Mail: info@htk-went.pl

Portugal

ArGelo S. A.

R. Luis Pastor de Macedo, Lote 28 B
 P-1750-158 Lisboa
 ☎ (21) 752 01 20, Fax (21) 752 01 29
 E-Mail: info@argelo.pt

Slovenia

Systemair Energo Plus d.o.o.

Koprska 108 d, SLO- 1000 Ljubljana
 ☎ (01) 200 73 67, Fax (01) 42 33 346
 E-Mail: info@energoplus.si

Switzerland

Laminair AG

Kirchbergstrasse 105
 Ch-3400 Burgdorf
 ☎ (034) 420 02-10, (034) 420 02-11
 E-Mail: info@laminair.ch

Turkey

Step Müh. Yapi Ltd.

Barbaros Mah., Kayacan Sokak No. 10
 TR- 34746 Yenisahra-Atasehir-Istanbul
 ☎ (0216) 470 0070, Fax (0216) 470 0525
 E-Mail: info@stepyapi.com.tr

The Program for Room Air Technology

Components

Air diffusers for walls, floors and ceilings · LTG System clean[®] · linear diffusers Coandatrol[®] · ceiling air diffusers Coadavent[®] · displacement diffusers · LTG chilling fans cool wave[®] · induction units Klimavent[®] · fan coil units Raumluft · ceiling fan coil units Ventotel[®] · facade fan coil units · airflow control units · labair[®] system

Engineering services

Technical services for investors, architects, engineers and plant builders during design, construction and operation of buildings. Reliable and precise data relating to the ventilation of air conditioning system are given already before realization of the project, determined by measurements, calculations, building simulations and experiments.

Components for Process Air Technology

Japan

Toho Engineering Co. Ltd.

14-11, Shimizu 3-Chome, Kita Ku
 Japan 462 Nagoya
 ☎ (052) 9 91-10 40, Fax (052) 9 14-98 22
 E-Mail: main@tohoeng.com

The Program for Process Air Technology

Components

Axial-flow, centrifugal and tangential fans · Collector system for: coarse and fine particle filtration, separating and compacting, compressing and humidifying.

Engineering services

Technical services for construction engineers and plant designers during development and operation of assembly groups, machines and plants.

Flexible Duct Silencer Type SDE-AO

Specification

Flexible duct silencer, consisting of:

- Outer casing of corrugated 2-layer aluminum
- Inner casing of corrugated perforated aluminum
- Synthetic resin bonded mineral fiber mat as sound absorbing material between the outer and inner casing including leak protection lining
- Aluminum end caps, sturdy version
- Plug-in socket suitable for connection to spiral ducts based on DIN 24145

Operating temperature up to 200 °C

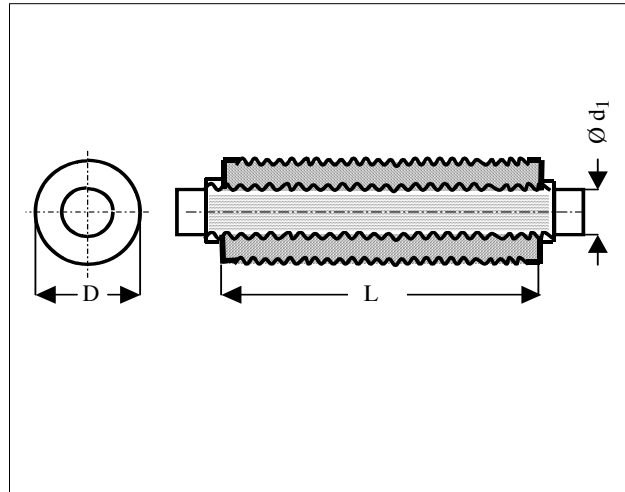
Absorption material non-combustible according to DIN EN 13501

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



d ₁ [mm]	D [mm]	L [mm]	Octave band (Hz)							Weight [kg]
			125	250	500	1000	2000	4000	8000	
			Insertion loss (dB)							
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

You will find the actual **tender documentations** at the end of this document.
 They are available in word format at your local dealership or at www.LTG-AG.de.

Circular Silencer Type SDE-SO

Specification

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

- longitudinal-seam outer casing
- inner casing of perforated metal plate
- 50 mm DIN 4102 non-combustible absorption material, leak protection lined, between outer casing and perforated metal plate
- Plug-in socket with twin lip seal, steel strip fixed, suitable for connection to spiral ducts based on DIN 24145.

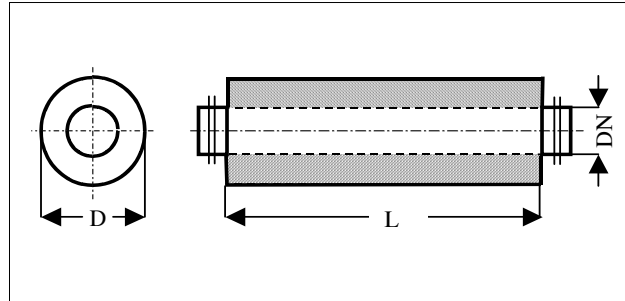
Operating temperature up to 150 °C

Maximum recommended air flow speed 10 m/s

Dimensions:

DN 80 to 250 in length of 300. 600. 900. 1200 mm

DN 315 and 355 in length of 600. 900 und 1200 mm.



DN	D [mm]	L [mm]	Octave band (Hz)								Weight [kg]
			63	125	250	500	1000	2000	4000	8000	
			Insertion loss (dB)								
80	180	300	3	7	10	16	20	27	32	22	2.1
		600	3	8	15	29	50	60	47	25	3.1
		900 *	3	11	22	42	60	63	60	35	5.2
		1200	4	13	27	52	64	63	60	43	7.2
100	200	300	3	6	9	14	18	24	30	19	2.4
		600	4	8	14	26	34	41	45	19	4.1
		900 *	7	10	20	34	49	51	51	28	6.6
		1200	7	13	22	41	62	63	63	35	7.5
125	225	300	1	5	7	11	14	21	25	16	2.6
		600	3	6	12	22	28	37	38	25	4.5
		900 *	5	9	19	31	41	49	42	27	7.6
		1200	7	9	19	39	65	61	46	27	9.2
160	260	300	0	4	6	9	11	18	18	13	2.9
		600	2	5	10	18	23	33	30	19	5.8
		900 *	3	8	16	27	36	48	37	22	9.0
		1200	4	11	21	36	48	62	50	28	10.5
200	300	300	1	3	5	10	16	11	7	5	4.1
		600	1	4	10	17	22	29	25	18	7.0
		900 *	2	7	13	24	31	43	31	20	10.0
		1200	3	9	17	31	40	56	40	26	12.0
250	350	300	1	3	7	15	26	14	9	8	5.0
		600	1	4	8	15	21	25	20	17	9.0
		900 *	1	6	11	21	27	39	25	18	12.0
		1200	1	8	14	27	35	51	33	23	15.0
315	415	600	0	3	7	14	20	20	17	16	9.8
		900 *	1	5	9	18	23	32	20	18	15.0
		1200	1	7	12	23	30	42	26	23	24.0
355	455	600	3	5	7	10	7	5	3	6	16.0
		900 *	4	5	9	16	13	7	6	8	22.0
		1200	5	7	12	21	17	9	8	10	32.0
400	500	600	0	1	5	10	13	8	2	1	18.0
		900	0	2	6	11	22	20	10	8	25.0
		1200	2	3	6	16	25	19	13	12	36.0

* Standard length

Rectangular Silencer Type SDF

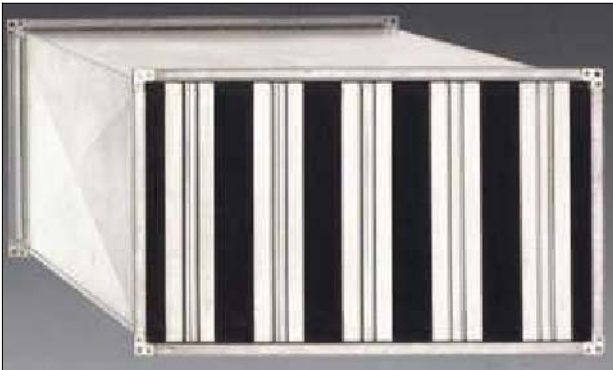
Specification

Rectangular silencer, for VRF-W / 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 4102, Class A, with glass silk covering

All technical data based on ISO 7235 / DIN 45646

Meets any sanitation requirements of: VDI 6032, DIN 3808, DIN 1946 T4, DIN EN 13779, Önorm 6021 and 6020-1.



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

Width [mm]	Height [mm]	Length [mm]	active Length [mm]	Weight [mm]
200	100	1300	1000	20
300				26
400				30
500				35
600				39
300	150			26
400				30
500				35
600				39
200	200			20
300		26		
400		30		
500		35		
600		39		
800		49		
300	250	38		
400		32		
500		38		
600		43		
800		53		
1000	300	1500	68	
300			34	
400			38	
500			45	
600			50	
800			62	
1000			79	
1200			91	
400			400	44
500				51
600	57			
800	69			
1000	88			
1200	101			

Sound absorption (valid for all model sizes)

Oktave band in Hz	63	125	250	500	1000	2000	4000	8000
Absorption in dB	2	4	8	17	33	32	18	14

Values apply to the active length L = 1000 mm

Specification and Schedule of Prices

Flexible Duct Silencer Type SDE-AO

Edition 7.12.2009

Qty.	Description	Unit price in €	Total price in €																		
	<p><u>Flexible duct silencer, consisting of:</u></p> <ul style="list-style-type: none"> - Outer casing of corrugated 2-layer 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 socket suitable for connection to spiral ducts based on DIN 24145 <p>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 Matching to LTG flow rate controllers type VRE and type VRE-W</p> <p>Standard dimensions:</p> <table style="margin-left: 20px;"> <thead> <tr> <th>DN</th> <th>Length</th> </tr> </thead> <tbody> <tr><td>o 80</td><td>1000</td></tr> <tr><td>o 100</td><td>1000</td></tr> <tr><td>o 125</td><td>1000</td></tr> <tr><td>o 160</td><td>1000</td></tr> <tr><td>o 200</td><td>1000</td></tr> <tr><td>o 250</td><td>1000</td></tr> <tr><td>o 315</td><td>1000</td></tr> <tr><td>o 400</td><td>1000</td></tr> </tbody> </table> <p>Manufacturer: LTG Aktiengesellschaft Series: Silencer Type: SDE-AO</p> <p>Accessories/special equipment (optional, additional charge): Special length: o 1250 o 1500</p>	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		
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																				

Specification and Schedule of Prices

Circular Silencer Type SDE-SO

Edition 7.12.2009

Qty.	Description	Unit price in €	Total price in €																				
	<p><u>Circular silencer</u>, rigid, made of galvanized sheet steel, <u>consisting of</u>:</p> <ul style="list-style-type: none"> - longitudinal-seam outer casing - inner casing of perforated metal plate - 50 mm DIN 4102 non-combustible absorption material, leak protection lined, between outer casing and perforated metal plate - Plug-in socket with twin lip seal, steel strip fixed, suitable for connection to spiral ducts based on DIN 24145. <p>Operating temperature up to 150 °C Maximum recommended air flow speed 10 m/s Matching to LTG flow rate controllers type VRE and type VRE-W</p> <p>Standard dimensions:</p> <table border="0"> <thead> <tr> <th style="text-align: left;">DN</th> <th style="text-align: left;">Length</th> </tr> </thead> <tbody> <tr><td>o 80</td><td>900</td></tr> <tr><td>o 100</td><td>900</td></tr> <tr><td>o 125</td><td>900</td></tr> <tr><td>o 160</td><td>900</td></tr> <tr><td>o 200</td><td>900</td></tr> <tr><td>o 250</td><td>900</td></tr> <tr><td>o 315</td><td>900</td></tr> <tr><td>o 355</td><td>900</td></tr> <tr><td>o 400</td><td>900</td></tr> </tbody> </table> <p>Manufacturer: LTG Aktiengesellschaft Series: Silencer Type: SDE-SO</p> <p>Accessories/special equipment (optional, additional charge): Special length: <ul style="list-style-type: none"> o 300 (only DN 80 – DN 250) o 600 o 1200 </p>	DN	Length	o 80	900	o 100	900	o 125	900	o 160	900	o 200	900	o 250	900	o 315	900	o 355	900	o 400	900		
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o 125	900																						
o 160	900																						
o 200	900																						
o 250	900																						
o 315	900																						
o 355	900																						
o 400	900																						

Specification and Schedule of Prices

Rectangular Silencer Type SDF

Edition 10.7.2009

Qty.	Description	Unit price in €	Total price in €																																																																																		
	<p><u>Rectangular silencer, consisting of:</u></p> <ul style="list-style-type: none"> - 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 4102, Class A, with glass silk covering <p>All technical data based on ISO 7235 / DIN 45646 Meets any sanitation requirements of: VDI 6032, DIN 3808, DIN 1946 T4, DIN EN 13779, Önorm 6021 and 6020-1. Matching to LTG flow rate controllers type VRX and type VRF-W</p> <p>Standard dimensions:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Width</th> <th>Height</th> <th>Length</th> <th>aktive Length</th> </tr> </thead> <tbody> <tr><td>o</td><td>200</td><td rowspan="5">100</td><td rowspan="10">1300</td><td rowspan="10">1000</td></tr> <tr><td>o</td><td>300</td></tr> <tr><td>o</td><td>400</td></tr> <tr><td>o</td><td>500</td></tr> <tr><td>o</td><td>600</td></tr> <tr><td>o</td><td>300</td><td rowspan="3">150</td></tr> <tr><td>o</td><td>400</td></tr> <tr><td>o</td><td>500</td></tr> <tr><td>o</td><td>600</td><td rowspan="6">200</td></tr> <tr><td>o</td><td>200</td></tr> <tr><td>o</td><td>300</td></tr> <tr><td>o</td><td>400</td></tr> <tr><td>o</td><td>500</td></tr> <tr><td>o</td><td>600</td></tr> <tr><td>o</td><td>800</td><td rowspan="5">250</td></tr> <tr><td>o</td><td>300</td></tr> <tr><td>o</td><td>400</td></tr> <tr><td>o</td><td>500</td></tr> <tr><td>o</td><td>600</td></tr> <tr><td>o</td><td>800</td><td rowspan="4">300</td></tr> <tr><td>o</td><td>1000</td></tr> <tr><td>o</td><td>300</td><td rowspan="10">1500</td></tr> <tr><td>o</td><td>400</td></tr> <tr><td>o</td><td>500</td></tr> <tr><td>o</td><td>600</td></tr> <tr><td>o</td><td>800</td></tr> <tr><td>o</td><td>1000</td></tr> <tr><td>o</td><td>1200</td></tr> <tr><td>o</td><td>400</td><td rowspan="5">400</td></tr> <tr><td>o</td><td>500</td></tr> <tr><td>o</td><td>600</td></tr> <tr><td>o</td><td>800</td></tr> <tr><td>o</td><td>1000</td></tr> <tr><td>o</td><td>1200</td></tr> </tbody> </table> <p>Manufacturer: LTG Aktiengesellschaft Series: Silencer Type: SDF</p>		Width	Height	Length	aktive Length	o	200	100	1300	1000	o	300	o	400	o	500	o	600	o	300	150	o	400	o	500	o	600	200	o	200	o	300	o	400	o	500	o	600	o	800	250	o	300	o	400	o	500	o	600	o	800	300	o	1000	o	300	1500	o	400	o	500	o	600	o	800	o	1000	o	1200	o	400	400	o	500	o	600	o	800	o	1000	o	1200		
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