

Slot diffuser with adjustable deflector

SLT



Specifications

Linear slot diffuser with adjustable deflector.

Used for supply and exhaust in ventilation systems.

Material

Aluminium.

Deflector - polycarbonate.

Finish

Standard finish: white RAL9003, with black RAL9005 deflector.

Optional finishing:
- different RAL (extra cost)

Note: the deflector will be always black RAL9005 finish.

Mounting / Fixing

Mounting on wall or ceiling (inside).

Fixing in plenum box with crossbar **BF** (extra cost).

Optional accessories

Plenum box – **PL** (extra cost).

Fixing systems.

Order code: SLT x F bbb +*

Product code

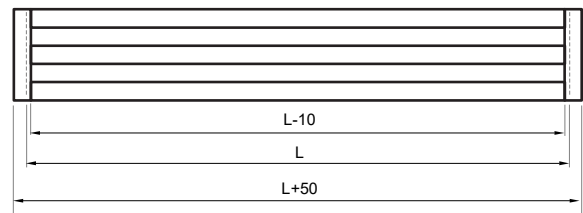
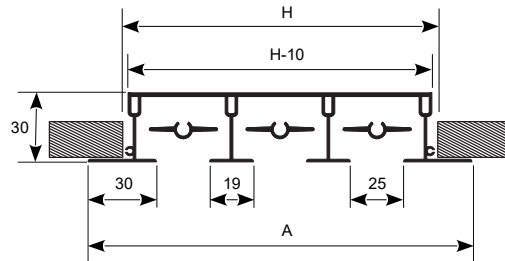
no. of slots

length L (mm)

not specified - white RAL9003 (standard)
RALxxxx - optional RAL code

* optional accessories

Technical data



LxH - opening hole size

Slot diffuser neck size: (L-10) x (H-10)

Dimensions

No. of slots	H-10	A
1	55	80
2	100	125
3	140	165
4	185	210
5	225	255
6	270	300

Sizes

Size H (height) cannot be custom made (only specified size).

Size L (length) standard:

L (mm) standard: 900, 1000, 1200, 1500, 1800, 2000 mm

Custom sizes available (under certain commercial conditions):

L = 200 ~ 3000 mm

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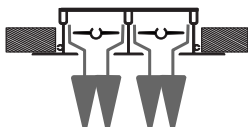
Selection table

Q (m³/h)	LxH (mm)		1-1000	1-1200	1-1500	1-1800	2-900	1-2000	2-1000	2-1200	2-1500	3-1000	2-1800	3-1200	4-900	2-2000	4-1000	3-1500	4-1200	3-1800	4-1500	3-2000	4-1800	4-2000
	A _{ef} (m²)		0,011	0,014	0,017	0,020	0,023	0,027	0,034	0,041	0,045	0,051	0,054	0,061	0,068	0,081	0,090							
100	L _t (m)		1,6	1,4	1,2																			
	L _w (dB(A))		27	23	-																			
	ΔP _t (Pa)		14	9	6																			
150	L _t (m)		2,4	2,1	1,9	1,5	1,4																	
	L _w (dB(A))		37	29	26	23	22																	
	ΔP _t (Pa)		31	21	17	9	8																	
200	L _t (m)		3,2	2,9	2,7	2,2	1,7	1,2	1,2															
	L _w (dB(A))		44	39	34	32	27	20	-															
	ΔP _t (Pa)		46	37	28	18	14	8	6															
250	L _t (m)			3,5	3,1	2,8	2,5	2,2	1,5	1,1														
	L _w (dB(A))			44	42	39	33	29	23	20														
	ΔP _t (Pa)			56	36	30	21	18	9	8														
300	L _t (m)				3,9	3,1	2,9	2,8	2,2	1,7	1,5													
	L _w (dB(A))				48	44	40	38	32	27	23													
	ΔP _t (Pa)				57	46	34	28	18	14	9													
350	L _t (m)					3,9	3,1	3,0	2,5	2,2	2,0	1,5	1,2											
	L _w (dB(A))					48	44	42	36	33	29	23	-											
	ΔP _t (Pa)					57	46	36	24	19	15	9	6											
400	L _t (m)						3,8	3,6	2,8	2,7	2,4	2,0	1,8	1,5	1,2									
	L _w (dB(A))						46	44	39	37	33	29	26	23	20									
	ΔP _t (Pa)						56	51	30	28	22	20	18	9	8									
500	L _t (m)									3,5	3,2	2,8	2,7	2,2	2,0	1,5	1,2							
	L _w (dB(A))									45	42	38	34	32	29	23	-							
	ΔP _t (Pa)									47	40	30	21	18	15	9	8							
600	L _t (m)											3,9	3,7	3,3	2,9	2,5	2,3	2,2	2,0					
	L _w (dB(A))											50	45	41	40	36	31	29	27					
	ΔP _t (Pa)											56	49	45	34	29	26	18	13					
700	L _t (m)												4,1	3,8	3,6	3,2	3,1	2,7	2,3					
	L _w (dB(A))												50	45	43	40	39	37	30					
	ΔP _t (Pa)												58	49	47	35	34	28	19					
800	L _t (m)												4,9	4,6	4,6	3,7	3,3	3,0	2,6					
	L _w (dB(A))												54	50	44	42	40	31	26					
	ΔP _t (Pa)												57	52	49	38	31	26						
900	L _t (m)															4,6	4,4	3,5	3,3					
	L _w (dB(A))															50	47	42	40					
	ΔP _t (Pa)															53	35	31	20					
1000	L _t (m)																4,7	4,1	3,5					
	L _w (dB(A))																51	47	42					
	ΔP _t (Pa)																55	48	35					
1200	L _t (m)																		3,9	3,7				
	L _w (dB(A))																		50	44				
	ΔP _t (Pa)																		56	49				
1400	L _t (m)																						4,0	
	L _w (dB(A))																						50	
	ΔP _t (Pa)																						58	

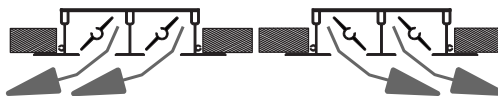
Data is valid for:

- H ceiling = 2,5±0,5m
- L_t (m) @ V_i=0,2 m/s (with Coanda effect)
- L_w(dB(A)) incl. room attenuation 5dB(A)
- Temperature difference Δt=-10K

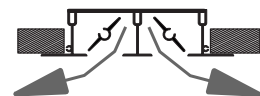
Adjusting flow pattern



Vertical diffusion



Unidirectional horizontal diffusion



Bidirectional horizontal diffusion

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Mounting / Fixing

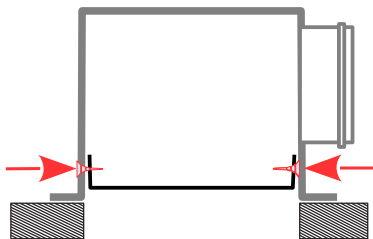
Note: Plenum box **PL** and crossbar **BF** are not included (extra cost).
The crossbars are not delivered mounted in plenum box.



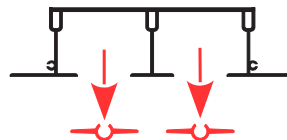
Crossbar **BF**

SLT	L
1 F	60
2 F	105
3 F	145
4 F	190

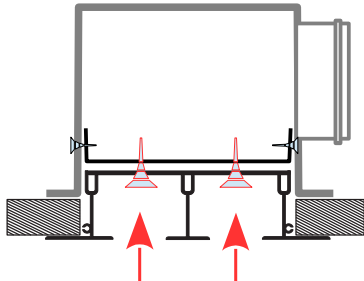
A. Plenum box with external border



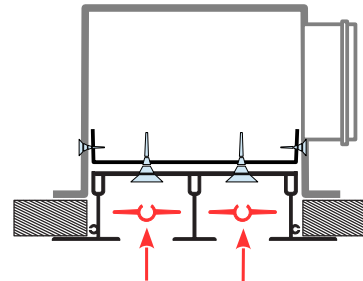
1. Adjust and mount the crossbar



2. Take the defectors out of the slot diffuser

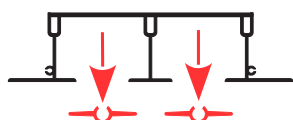


3. Screw the slot diffuser to the crossbar

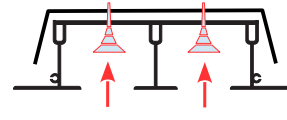


4. Reinsert the defectors in the slot diffuser

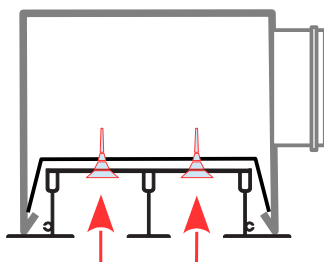
B. Plenum box with inside border frame



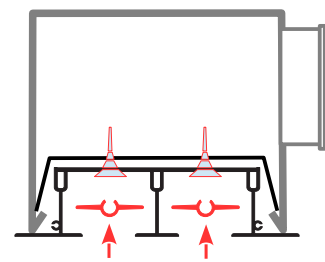
1. Take the defectors out of the slot diffuser



2. Attach the crossbar
(without tightening the screws)



3. Insert the crossbar into the plenum box
and tighten the screws



4. Reinsert the defectors in the slot diffuser