



STAR/STBR

Line diffuser Supply T-bar mounted Small version

Available types

S T - R - - -

- S** line diffuser
- T** supply

- Discharge patterns

- A** two pattern adjustment blades
- B** one pattern adjustment blade

R T-bar mounted

- End caps

- A** no end caps
- B** one flat end cap
- D** two flat end caps (T-bar mounting)

- Plenum box

- R** assembled, internally insulated plenum box
- U** assembled, uninsulated plenum box

- Mounting brackets (supplied separately)

- B** plenum mounting brackets B
- O** none

Plenum box

S O O O - -

- S** line diffuser
- O** plenum box only
- O** not applicable
- O** not applicable

- Fitted plenum box

- R** internally insulated plenum box
- U** uninsulated plenum box

- Mounting bracket preparation

- O** none; straight plenum box

SA-Select

Check SA-Select to create extended order codes and selection details online. **NB!** At this moment, SA-Select is only available in Dutch. But it is possible to create extended order codes and selection details online.

Use

The STAR/STBR line diffusers are suitable for supplying cooled or heated air with a large temperature difference in respect of the room temperature. The diffuser can be T-bar mounted into a modular ceiling, and is fitted standard with an insulated or uninsulated plenum box. As standard, the plenum box is equipped with 8 mm hanging holes in the edge of the plenum. The STAR type has an adjustable discharge pattern as it has two built-in pattern blades. The STBR has one pattern blade and the discharge pattern is directed at the spigot of the plenum box.

Characteristics

Max. number of air changes:	up to 10 x
Undertemperature:	up to 10 K
Overtemperature:	up to 15 K

Version

Line diffuser

Frame:	extruded aluminium
Post-treatment:	epoxy
Colour:	white RAL 9010, optional RAL colour of your choice
Pattern blades:	extruded aluminium
Post-treatment:	black

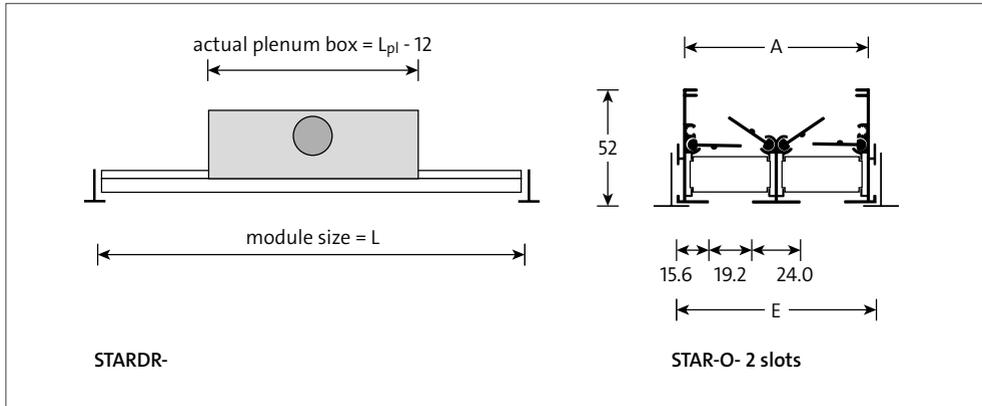
Plenum box

Material:	sendzimir galvanised steel
Internal insulation:	1/2" duct liner
Post-treatment:	none

Optional

Plenum box:	several connections oval connection different heights
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Dimensions



Available dimensions, sizes and weights

number of slots	E	P	D	A	diffuser	plenum
					kg	kg
L = 600						
1	51	245	123	46	0.8	2.1
2	94	280	158	89	1.2	2.6
L = 750						
1	51	245	123	46	1.0	2.7
2	94	280	158	89	1.5	3.2
L = 900						
1	51	245	123	46	1.2	3.2
2	94	280	158	89	1.8	3.9
L = 1200						
1	51	280	158	46	1.6	4.8
2	94	320	198	89	2.4	5.8
L = 1500						
1	51	280	158	46	2.0	6.0
2	94	320	198	89	3.0	7.2

Note

- The listed dimensions are in mm.
- One-piece diffuser elements up to approx. 2400 mm.
- The diffuser parts that protrude outside the plenum box can be covered with blanking plates at additional cost.
- For this type of small profile line diffuser, a return version without adjustable pattern blades is also available as type SROR.

Selection details

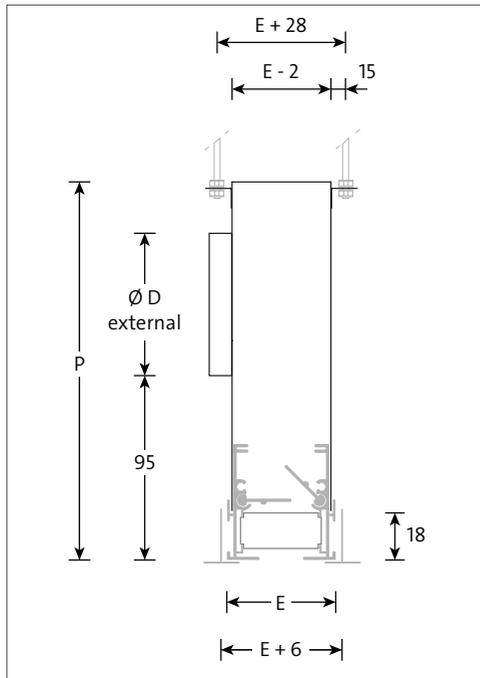
STAR/STBR

air volume		number of slots	plenum box length														
m ³ /s	m ³ /h		600			750			900			1200			1500		
			throw m	Δp _s Pa	L _{pA} dB(A)	throw m	Δp _s Pa	L _{pA} dB(A)	throw m	Δp _s Pa	L _{pA} dB(A)	throw m	Δp _s Pa	L _{pA} dB(A)	throw m	Δp _s Pa	L _{pA} dB(A)
0.0125	45	1	2.4	5	16	2.3	3	11	2.1	2	6						
0.015	54	1	2.7	6	21	2.5	5	15	2.3	3	11						
0.020	72	1	3.1	12	29	2.9	8	23	2.7	6	18	2.5	4	12	2.3	3	8
		2	2.8	3	14												
0.025	90	1	3.8	18	35	3.2	13	29	3.0	10	24	2.8	6	18	2.6	5	13
		2	3.2	4	19	3.0	3	14	2.8	2	9						
0.030	108	1	4.6	26	39	3.8	18	34	3.3	14	29	3.0	9	22	2.8	7	18
		2	3.5	6	24	3.2	4	18	3.1	3	14						
0.040	144	1				5.1	32	41	4.4	25	36	3.5	15	30	3.3	12	26
		2	4.0	10	32	3.7	7	26	3.5	5	21	3.2	3	15	3.0	2	9
0.050	180	1										4.3	24	36	3.6	18	32
		2	5.1	16	38	4.2	11	32	3.9	8	27	3.6	4	21	3.4	3	15
0.060	216	1										5.2	34	41	4.3	26	36
		2	6.1	23	42	5.1	15	36	4.3	11	32	3.9	6	26	3.7	4	20
0.080	288	1													5.8	47	44
		2				6.8	27	44	5.8	19	39	4.6	11	33	4.2	8	28
0.100	360	2										5.8	18	39	4.7	12	33
0.125	450	2										7.2	28	45	6.0	19	39
0.150	540	2													7.2	27	44

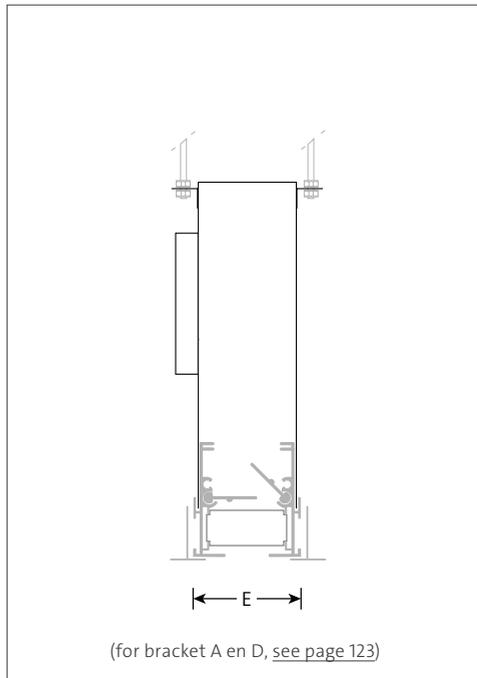
General

- The throw applies to flush-mounting in a flat, closed ceiling, if the discharge pattern is directed to one side.
- The assumed room attenuation is 10 dB.
- It is permitted to interpolate the interim values.

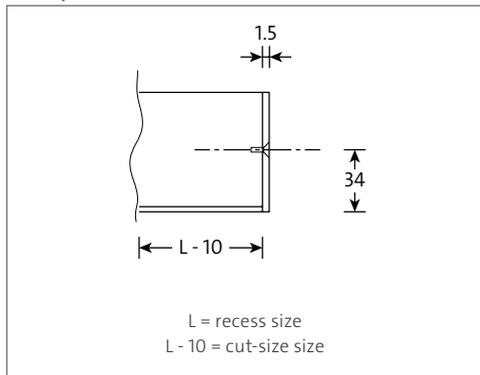
Plenum boxes



Mounting brackets



End cap



Note

- The listed dimensions are in mm.