SRR-N

- Circular conical diffusers
- Circular
- Aluminium
- White, RAL 9010

Accessories

- **DR**
  Volume dampers

Round ceiling diffusers type SRR-N

Round ceiling diffusers with adjustable cones

Application

- For supply and exhaust air in ventilation and air conditioning systems.

Material

- Aluminium

Colour

- White, RAL 9010

Composition

- Adjustable rings

Mounting

- Direct mounting by the collar in the duct

Accessories

- Butterfly volume control damper type **DR** for SRR-N Ø160 to Ø400. Regulating dampers for Ø450 to Ø630 available upon request.

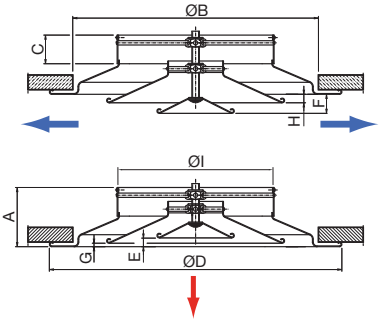
Text for tender

- The circular ceiling diffusers shall have adjustable diffusion rings. They shall be made of aluminium with white powder coated finish RAL 9010 and supplied with volume control damper
- Type ATC **SRR-N**+**DR**

Order example

- **SRR-N, 200 + DR**

Explanation
SRR-N = Type diffuser
200 = Size diffuser (Ø diffuser neck connection)
Accessories (optional)
DR = Volume damper



Dimensions

SRR-N	A [mm]	ØB [mm]	C [mm]	ØD [mm]	E [mm]	F [mm]	G [mm]	H [mm]	ØI [mm]
160	86	245	50	291	15	33.5	8	14.5	159
200	94.5	324	55	378	15	33.5	8	14.5	199
250	103.5	390	55	454	15	33.5	8	14.5	249
315	120.5	468	64	537	15	33.5	8	14.5	314
355	133.5	545	73	624	29	33.5	9	14.5	354
400	171.5	614	107	704	40	33.5	20	14.5	399
450	187.5	689	115	788	50	33.5	25	14.5	449
500	200	764	115	872	54	33.5	30	14.5	499
630	222	955	135	1063	56	33.5	37	14.5	629

Horizontal Discharge

	Ø	160	200	250	315	355	400	450	500	630
Q	Aeff	0.01	0.02	0.03	0.05	0.06	0.07	0.08	0.09	0.12
200	veff	5.34	2.98	1.92	1.21					
	Lth	2.32	1.73	1.39	1.10					
	Ps	13.06	4.59	1.86	0.74					
	Lw	31.85	<20	<20	<20					
300	veff	8.01	4.47	2.88	1.81					
	Lth	3.48	2.60	2.09	1.65					
	Ps	29.39	10.33	4.20	1.65					
	Lw	42.61	<20	<20	<20					
400	veff	10.68	5.95	3.84	2.41	1.81				
	Lth	4.64	3.46	2.78	2.20	1.91				
	Ps	52.25	18.37	7.46	2.94	1.73				
	Lw	50.25	27.78	<20	<20	<20				
500	veff		7.44	4.80	3.01	2.26				
	Lth		4.33	3.48	2.75	2.39				
	Ps		28.71	11.65	4.60	2.70				
	Lw		34.01	20.73	<20	<20				
600	veff		8.93	5.77	3.62	2.72	2.27			
	Lth		5.19	4.17	3.30	2.86	2.62			
	Ps		41.34	16.78	6.62	3.89	2.62			
	Lw		39.09	26.03	<20	<20	<20			
800	veff			7.69	4.82	3.62	3.03	2.63		
	Lth			5.56	4.41	3.82	3.49	3.25		
	Ps			29.84	11.76	6.91	4.66	3.25		
	Lw			34.38	23.65	<20	<20	<20		
1000	veff			9.61	6.03	4.53	3.79	3.28	2.93	
	Lth			6.95	5.51	4.77	4.36	4.06	3.84	
	Ps			46.62	18.38	10.79	7.29	5.07	3.78	
	Lw			40.86	30.41	21.83	<20	<20	<20	
1200	veff				7.23	5.43	4.54	3.94	3.52	
	Lth				6.61	5.73	5.24	4.88	4.61	
	Ps				26.47	15.54	10.49	7.31	5.45	
	Lw				35.94	27.60	21.37	<20	<20	
1400	veff				8.44	6.34	5.30	4.59	4.11	3.34
	Lth				7.71	6.68	6.11	5.69	5.38	4.85
	Ps				36.03	21.15	14.28	9.95	7.42	4.23
	Lw				40.61	32.47	26.43	20.82	<20	<20
1600	veff				9.64	7.24	6.06	5.25	4.69	3.81
	Lth				8.81	7.64	6.98	6.50	6.15	5.54
	Ps				47.06	27.63	18.65	12.99	9.69	5.53
	Lw				44.65	36.69	30.81	25.38	20.25	<20
1800	veff					8.15	6.81	5.91	5.28	4.29
	Lth					8.59	7.85	7.31	6.91	6.23
	Ps					34.97	23.61	16.44	12.26	7.00
	Lw					40.42	34.68	29.39	24.42	<20
2000	veff					9.05	7.57	6.56	5.87	4.76
	Lth					9.54	8.73	8.13	7.68	6.92
	Ps					43.17	29.15	20.30	15.14	8.64
	Lw					43.75	38.14	32.99	28.15	<20
3000	veff							9.85	8.80	7.15
	Lth							12.19	11.52	10.39
	Ps							45.67	34.06	19.44
	Lw							46.82	42.50	29.93

Symbols and specifications

- Values at ceiling height of 3.0m
- Temperature difference Dt = -10K
- Lth 0.25 = Horizontal throw in m at vt = 0.25m/s
- Ps = Static pressure loss in Pa
- Lw = Acoustic power in dB(A)
- Qv = Air Volume in m³/h
- Ø = neck size diffuser in mm
- Aeff = Effective air passage in m²
- veff = Effective air velocity between the blades of the diffuser in m/s

Vertical Discharge

Q	Ø	160	200	250	315	355	400	450	500	630
	Aeff	0.01	0.01	0.02	0.03	0.04	0.06	0.08	0.10	0.18
200	veff	5.39	3.72	2.69	1.93					
	Ltv	2.86	2.17	1.70	1.32					
	Ps	19.24	8.91	4.62	3.85					
	Lw	32.47	<20	<20	<20					
300	veff	8.09	5.58	4.04	2.90	2.00				
	Ltv	4.29	3.25	2.55	1.99	1.51				
	Ps	43.28	20.05	10.39	8.67	7.49				
	Lw	43.07	25.97	<20	<20	<20				
400	veff		7.44	5.38	3.86	2.67	1.95			
	Ltv		4.33	3.40	2.65	2.01	1.58			
	Ps		35.65	18.47	15.41	13.31	7.68			
	Lw		34.11	26.77	26.52	24.62	21.83			
500	veff		9.30	6.73	4.83	3.34	2.43	1.79		
	Ltv		5.42	4.25	3.31	2.51	1.98	1.58		
	Ps		55.70	28.86	24.07	20.79	12.00	7.00		
	Lw		40.42	33.57	32.94	30.65	27.49	23.31		
600	veff			8.07	5.79	4.01	2.92	2.15		
	Ltv			5.10	3.97	3.01	2.38	1.89		
	Ps			41.56	34.67	29.94	17.28	10.08		
	Lw			39.12	38.19	35.57	32.12	27.62		
800	veff				7.72	5.34	3.89	2.87	2.18	
	Ltv				5.30	4.02	3.17	2.52	2.05	
	Ps				61.63	53.23	30.72	17.91	11.00	
	Lw				46.47	43.33	39.41	34.43	28.75	
1000	veff					6.68	4.87	3.59	2.73	1.51
	Ltv					5.02	3.96	3.15	2.57	1.65
	Ps					83.17	48.00	27.99	17.19	5.97
	Lw					49.36	45.08	39.70	33.64	26.72
1200	veff						5.84	4.31	3.28	1.82
	Ltv						4.75	3.78	3.08	1.98
	Ps						69.12	40.31	24.76	8.60
	Lw						49.70	44.02	37.64	30.20
1400	veff							5.02	3.82	2.12
	Ltv							4.41	3.60	2.31
	Ps							54.86	33.70	11.70
	Lw							47.66	41.03	33.14
1600	veff							5.74	4.37	2.42
	Ltv							5.05	4.11	2.64
	Ps							71.65	44.02	15.28
	Lw							50.82	43.96	35.70
1800	veff								4.91	2.73
	Ltv								4.62	2.97
	Ps								55.71	19.34
	Lw								46.54	37.95
2000	veff								5.46	3.03
	Ltv								5.14	3.30
	Ps								68.77	23.88
	Lw								48.85	39.96
3000	veff									4.54
	Ltv									4.95
	Ps									53.73
	Lw									47.71

Symbols and specifications

- Temperature difference Dt = -10K
- Ltv 0.25 = Vertical throw in m at vt = 0.25m/s
- Ps = Static pressure loss in Pa
- Lw = Acoustic power in dB(A)
- Qv = Air Volume in m³/h
- Ø = neck size diffuser in mm
- Aeff = Effective air passage in m²
- veff = Effective air velocity between the blades of the diffuser in m/s

Accessories

■ **DR** Volume dampers