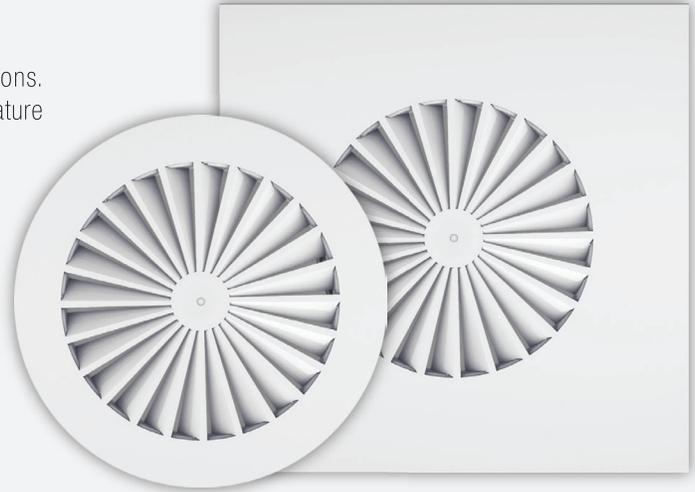


OVERVIEW

Swirl diffuser for ceiling or freely suspended applications. Blade geometry optimised for VAV, including low temperature supply air ($\approx 8^{\circ}\text{C}$).

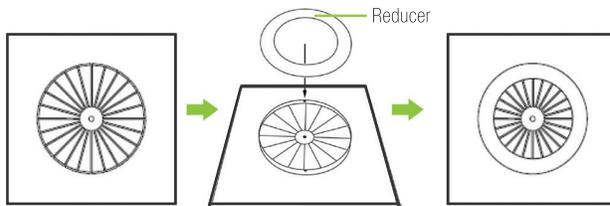
Available in:

- 2 shapes - round or square
- 4 neck sizes - DN200, DN250, DN350, DN500
- 4 discharge patterns, via segment covers
- 6 optional reducers
- Optional perforated face



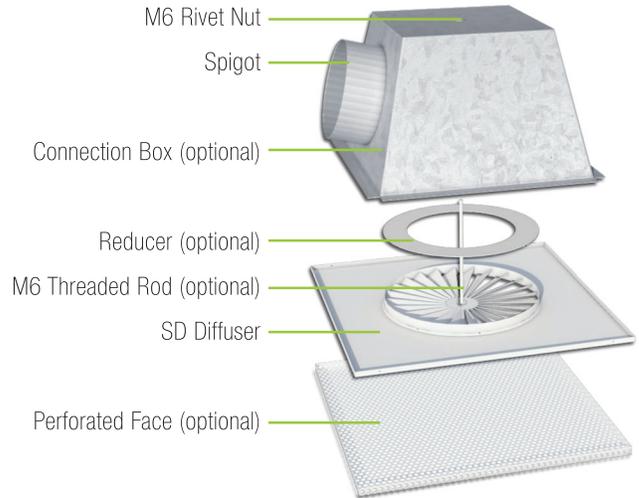
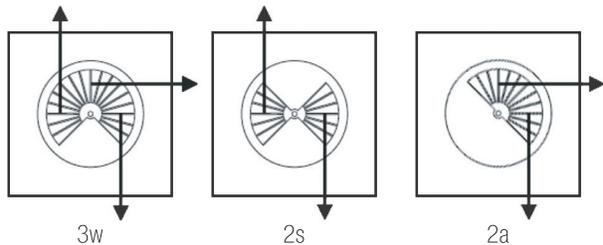
Reducers

The diffuser effective neck diameter may be reduced by the insertion of a suitable reducer to ensure stable airflow patterns at low airflow rates, especially in VAV applications.

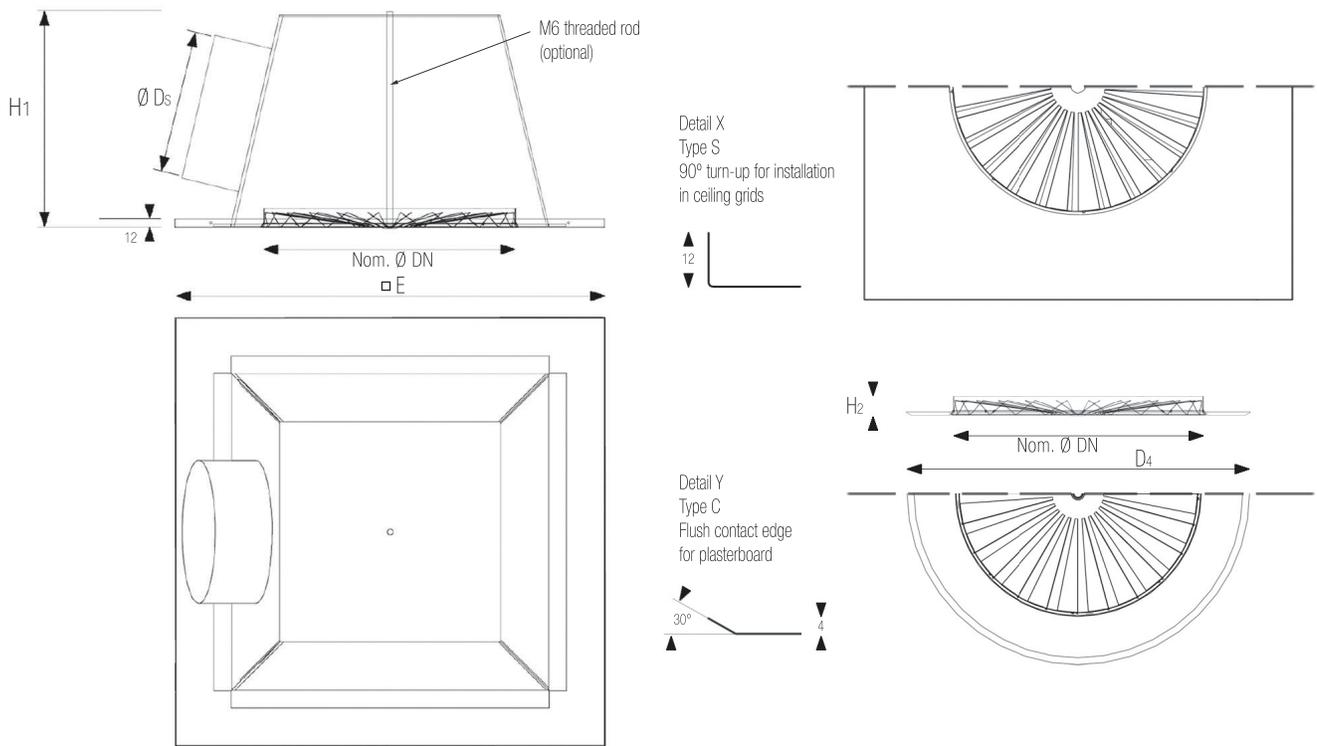


Segment Covers

Segment covers may be used to blank off one or more blade quadrants to create 3-way, 2-way symmetrical or 2-way asymmetrical discharge patterns.



TECHNICAL DATA



Nominal diameter DN	Ceiling grid	Reducer size	Volume flow rate ¹⁾			Dimensions in mm					Weight in Kg	
			\dot{V} L/s at $\Delta T = -15$ K	\dot{V} L/s at $\Delta T = -12$ K	V_{min} in L/s ²⁾ with perf. ⁵⁾ $\Delta T = -10$ K	\square E	$\varnothing D_s$ ⁴⁾	H1	H2	D4	Air Outlet	Connection Box
DN200	\square 300 ³⁾	0	23 - 60	20 - 60	32 - 50	\square 295 ³⁾	≥ 149	250	20	270	0.7	3.0
DN250	\square 300 ³⁾	0	34 - 100	30 - 100	45 - 85	\square 295 ³⁾	≥ 199	250	25	335	1.2	3.5
DN350	\square 400 \square 450 \square 500 \square 600	0	55 - 175	50 - 175	80 - 160	\square 395 ³⁾ \square 445 ³⁾ \square 495 ³⁾ \square 595 ³⁾	≥ 249	340	28	470	2.0 to 3.0	4.8
		1	44 - 140	40 - 140	65 - 125							
		2	38 - 120	35 - 120	55 - 110							
		3	33 - 95	30 - 95	45 - 90							
		4	24 - 75	22 - 75	34 - 70							
		5	18 - 55	16 - 55	25 - 50							
DN500	\square 600	0	130 - 400	120 - 400	180 - 350	\square 595	≥ 349	460	36	675	2.7 to 3.6	7.4
		1	120 - 320	100 - 320	145 - 300							
		2	100 - 290	90 - 290	130 - 260							
		3	75 - 240	70 - 240	110 - 210							
		4	60 - 180	55 - 180	85 - 170							
		5	50 - 145	45 - 145	65 - 135							

1) Δp , less than 45 Pa, L_p per diffuser less than NC30 (based on 10 dB (A) room absorption). \dot{V}_{min} valid for diffuser flush with closed ceiling; add 30% to \dot{V}_{min} if freely suspended.

2) Perforated face adds 3 dB and increases pressure loss by 10%.

3) Other dimensions available on request.

4) Min. \varnothing s valid for R0-4w. For other reducer sizes / discharge patterns refer to performance tables.

5) Perforation details on request; diffuser height increases by 10 mm.

Products supplied may differ slightly from those described in this technical brochure due to on-going product development.

PERFORMANCE TABLES - DN200 & DN250

Quick selection guide. Refer to the online selection tool for detailed selections.

DN200-4w

\dot{V}	P_{st}	P_t	$L_{W(A)}$	$L_{P(A)}^{(1)}$	$C_{min}^{(2)}$	$C_{max}^{(2)}$
L/s	Pa	Pa	dB(A)	NC	m	m
21 ⁽³⁾	4.4	5.3	<25	<10	1.2 ⁽⁶⁾	4.6 ⁽⁶⁾
23 ⁽⁴⁾	5.2	6.3	<25	<10	1.3 ⁽⁷⁾	4.8 ⁽⁷⁾
25	6.1	7.3	<25	<10	1.4 ⁽⁷⁾	5.1 ⁽⁷⁾
30	8.6	10.3	27	12	1.5 ⁽⁷⁾	5.9 ⁽⁷⁾
40	14.7	17.7	34	19	1.8 ⁽⁷⁾	7.4 ⁽⁷⁾
50	22.2	27	40	25	2.0 ⁽⁷⁾	8.9 ⁽⁷⁾
61 ⁽⁵⁾	32.1	39.3	45	30	4.0 ⁽⁷⁾	16.0 ⁽⁷⁾

DN200-3w

\dot{V}	P_{st}	P_t	$L_{W(A)}$	$L_{P(A)}^{(1)}$	$C_{min}^{(2)}$	$C_{max}^{(2)}$
L/s	Pa	Pa	dB(A)	NC	m	m
16 ⁽³⁾	4.4	5.4	<25	<10	1.0 ⁽⁶⁾	4.0 ⁽⁶⁾
17 ⁽⁴⁾	4.9	6.1	<25	<10	1.2 ⁽⁷⁾	4.1 ⁽⁷⁾
20	6.7	8.3	<25	<10	1.2 ⁽⁷⁾	4.6 ⁽⁷⁾
25	10.1	12.6	28	13	1.4 ⁽⁷⁾	5.5 ⁽⁷⁾
30	14.1	17.7	33	18	1.5 ⁽⁷⁾	6.4 ⁽⁷⁾
40	24.1	30.5	40	25	1.8 ⁽⁷⁾	8.1 ⁽⁷⁾
45 ⁽⁵⁾	30	38.1	43	28	2.0 ⁽⁷⁾	9.0 ⁽⁷⁾

DN200-2w

\dot{V}	P_{st}	P_t	$L_{W(A)}$	$L_{P(A)}^{(1)}$	$C_{min}^{(2)}$	$C_{max}^{(2)}$
L/s	Pa	Pa	dB(A)	NC	m	m
11 ⁽³⁾	4.6	5.7	<25	<10	0.8 ⁽⁶⁾	3.4 ⁽⁶⁾
12 ⁽⁴⁾	5.4	6.8	<25	<10	0.9 ⁽⁷⁾	3.6 ⁽⁷⁾
14	7.1	9.1	<25	<10	0.9 ⁽⁷⁾	4.0 ⁽⁷⁾
16	9.2	11.6	26	11	1.0 ⁽⁷⁾	4.4 ⁽⁷⁾
20	13.8	17.7	31	16	1.1 ⁽⁷⁾	5.2 ⁽⁷⁾
25	20.9	27	37	22	1.3 ⁽⁷⁾	6.3 ⁽⁷⁾
30 ⁽⁵⁾	29.3	38.1	41	26	1.6 ⁽⁷⁾	7.3 ⁽⁷⁾

DN250-4w

\dot{V}	P_{st}	P_t	$L_{W(A)}$	$L_{P(A)}^{(1)}$	$C_{min}^{(2)}$	$C_{max}^{(2)}$
L/s	Pa	Pa	dB(A)	NC	m	m
31 ⁽³⁾	3.8	4.3	<25	<10	1.4 ⁽⁶⁾	5.6 ⁽⁶⁾
34 ⁽⁴⁾	4.5	5.2	<25	<10	1.6 ⁽⁷⁾	5.8 ⁽⁷⁾
40	6.1	7.1	<25	<10	1.7 ⁽⁷⁾	6.5 ⁽⁷⁾
60	13.1	15.3	31	14	2.1 ⁽⁷⁾	8.8 ⁽⁷⁾
80	22.5	26.4	38	21	2.5 ⁽⁷⁾	11.0 ⁽⁷⁾
100	34.2	40.3	44	27	2.9 ⁽⁷⁾	13.3 ⁽⁷⁾
105 ⁽⁵⁾	37.5	44.2	45	28	3.0 ⁽⁷⁾	13.8 ⁽⁷⁾

DN250-3w

\dot{V}	P_{st}	P_t	$L_{W(A)}$	$L_{P(A)}^{(1)}$	$C_{min}^{(2)}$	$C_{max}^{(2)}$
L/s	Pa	Pa	dB(A)	NC	m	m
23 ⁽³⁾	3.7	4.3	<25	<10	1.2 ⁽⁶⁾	4.8 ⁽⁶⁾
26 ⁽⁴⁾	4.7	5.4	<25	<10	1.4 ⁽⁷⁾	5.1 ⁽⁷⁾
40	10.5	12.2	27	<10	1.7 ⁽⁷⁾	6.9 ⁽⁷⁾
50	16	18.6	32	15	2.0 ⁽⁷⁾	8.2 ⁽⁷⁾
60	22.6	26.4	37	20	2.2 ⁽⁷⁾	9.5 ⁽⁷⁾
70	30	35	41	24	2.4 ⁽⁷⁾	10.8 ⁽⁷⁾
78 ⁽⁵⁾	37.1	43.4	44	27	2.6 ⁽⁷⁾	11.9 ⁽⁷⁾

DN250-2w

\dot{V}	P_{st}	P_t	$L_{W(A)}$	$L_{P(A)}^{(1)}$	$C_{min}^{(2)}$	$C_{max}^{(2)}$
L/s	Pa	Pa	dB(A)	NC	m	m
16 ⁽³⁾	4.1	4.6	<25	<10	1.0 ⁽⁶⁾	4.0 ⁽⁶⁾
18 ⁽⁴⁾	5.1	5.8	<25	<10	1.2 ⁽⁷⁾	4.3 ⁽⁷⁾
20	6.3	7.1	<25	<10	1.2 ⁽⁷⁾	4.6 ⁽⁷⁾
30	13.5	15.3	28	11	1.5 ⁽⁷⁾	6.2 ⁽⁷⁾
40	23.3	26.4	35	18	1.8 ⁽⁷⁾	7.8 ⁽⁷⁾
50	35.5	40.3	41	24	2.1 ⁽⁷⁾	9.4 ⁽⁷⁾
52 ⁽⁵⁾	38.2	43.4	42	25	2.1 ⁽⁷⁾	9.7 ⁽⁷⁾

Key:

4w = 4-way blow; 3w = 3-way blow; 2w = 2-way blow

Notes:

- 1) Based on 10 dB room absorption per diffuser.
- 2) Centre-line distance between diffusers, based on 2.7 to 4 m discharge height & ADPI \geq 90%.
- 3) Minimum airflow rate @ $\Delta T_{supply-room} = -12$ K.
- 4) Minimum airflow rate @ $\Delta T_{supply-room} = -15$ K.
- 5) Maximum airflow rate for $P_t \leq 45$ Pa and $L_p \leq NC30$.
- 6) Diffuser centre-line spacing @ $\Delta T_{supply-room} = -12$ K for ADPI \geq 90%.
- 7) Diffuser centre-line spacing @ $\Delta T_{supply-room} = -15$ K for ADPI \geq 90%.

PERFORMANCE TABLES - DN350

Quick selection guide. Refer to the online selection tool for detailed selections.

R0-4w Min. $\varnothing D_S = 250$ mm

\dot{V} L/s	P_{st} Pa	P_t Pa	$L_{W(A)}$ dB(A)	$L_{P(A)}$ ¹⁾ NC	C_{min} ²⁾ m	C_{max} ²⁾ m
50 ³⁾	3.1	3.7	<25	<10	1.8 ⁶⁾	7.1 ⁶⁾
55 ⁴⁾	3.7	4.4	<25	<10	2.1 ⁷⁾	7.4 ⁷⁾
75	6.3	7.7	<25	<10	2.4 ⁷⁾	9.1 ⁷⁾
100	10.3	12.8	30	16	2.7 ⁷⁾	11.3 ⁷⁾
125	15	18.9	36	21	3.1 ⁷⁾	13.4 ⁷⁾
150	20.5	26.1	40	25	3.5 ⁷⁾	15.5 ⁷⁾
180 ⁵⁾	28	36.1	44	30	4.0 ⁷⁾	16.0 ⁷⁾

R1-4w / R0-3w Min. $\varnothing D_S = 225$ mm

\dot{V} L/s	P_{st} Pa	P_t Pa	$L_{W(A)}$ dB(A)	$L_{P(A)}$ ¹⁾ NC	C_{min} ²⁾ m	C_{max} ²⁾ m
40 ³⁾	3.2	3.8	<25	<10	1.6 ⁶⁾	6.3 ⁶⁾
45 ⁴⁾	4	4.8	<25	<10	1.9 ⁷⁾	6.7 ⁷⁾
60	6.7	8.1	26	<10	2.1 ⁷⁾	8.2 ⁷⁾
80	11.3	13.8	33	16	2.5 ⁷⁾	10.1 ⁷⁾
100	17	20.8	39	22	2.8 ⁷⁾	12.1 ⁷⁾
120	23.6	29.1	43	26	3.2 ⁷⁾	14.0 ⁷⁾
139 ⁵⁾	30.9	38.2	47	30	3.5 ⁷⁾	15.9 ⁷⁾

R2-4w / R1-3w / R2-2w Min. $\varnothing D_S = 200$ mm

\dot{V} L/s	P_{st} Pa	P_t Pa	$L_{W(A)}$ dB(A)	$L_{P(A)}$ ¹⁾ NC	C_{min} ²⁾ m	C_{max} ²⁾ m
34 ³⁾	3.6	4.3	<25	<10	1.5 ⁶⁾	5.8 ⁶⁾
39 ⁴⁾	4.7	5.6	<25	<10	1.7 ⁷⁾	6.3 ⁷⁾
40	4.8	5.9	<25	<10	1.8 ⁷⁾	6.4 ⁷⁾
60	10.3	12.5	28	13	2.1 ⁷⁾	8.5 ⁷⁾
80	17.6	21.4	35	20	2.5 ⁷⁾	10.6 ⁷⁾
100	26.5	32.5	41	26	2.9 ⁷⁾	12.7 ⁷⁾
118 ⁵⁾	35.8	44.3	45	30	3.2 ⁷⁾	14.6 ⁷⁾

R3-4w / R2-3w / R1-2w Min. $\varnothing D_S = 175$ mm

\dot{V} L/s	P_{st} Pa	P_t Pa	$L_{W(A)}$ dB(A)	$L_{P(A)}$ ¹⁾ NC	C_{min} ²⁾ m	C_{max} ²⁾ m
30 ³⁾	3.8	4.7	<25	<10	1.4 ⁶⁾	5.5 ⁶⁾
34 ⁴⁾	4.8	6	<25	<10	1.6 ⁷⁾	5.9 ⁷⁾
40	6.6	8.2	<25	<10	1.8 ⁷⁾	6.6 ⁷⁾
50	10.1	12.7	<25	12	2.0 ⁷⁾	7.8 ⁷⁾
65	16.8	21.2	29	18	2.0 ⁷⁾	9.6 ⁷⁾
80	25.1	31.8	34	23	2.3 ⁷⁾	11.4 ⁷⁾
95 ⁵⁾	35	44.4	38	27	2.6 ⁷⁾	13.1 ⁷⁾

R4-4w / R3-3w / R2-2w Min. $\varnothing D_S = 150$ mm

\dot{V} L/s	P_{st} Pa	P_t Pa	$L_{W(A)}$ dB(A)	$L_{P(A)}$ ¹⁾ NC	C_{min} ²⁾ m	C_{max} ²⁾ m
22 ³⁾	3.1	4	<25	<10	1.2 ⁶⁾	4.7 ⁶⁾
25 ⁴⁾	4	5.2	<25	<10	1.4 ⁷⁾	5.0
35	7.6	9.9	<25	<10	1.6 ⁷⁾	6.4
45	12.3	16.2	28	13	1.9 ⁷⁾	7.7
55	18.2	24	33	18	2.1 ⁷⁾	9.0 ⁷⁾
65	25.1	33.2	38	22	2.3 ⁷⁾	10.3
75 ⁵⁾	33.1	43.9	41	26	2.6 ⁷⁾	11.7

R5-4w / R4-3w / R3-2w Min. $\varnothing D_S = 125$ mm

\dot{V} L/s	P_{st} Pa	P_t Pa	$L_{W(A)}$ dB(A)	$L_{P(A)}$ ¹⁾ NC	C_{min} ²⁾ m	C_{max} ²⁾ m
17 ³⁾	3.6	4.7	<25	<10	1.0 ⁶⁾	4.2 ⁶⁾
19 ⁴⁾	4.4	5.8	<25	<10	1.2 ⁷⁾	4.4 ⁷⁾
25	7.5	9.9	<25	<10	1.4 ⁷⁾	5.3 ⁷⁾
30	10.6	14.2	<25	<10	1.5 ⁷⁾	6.1 ⁷⁾
40	18.4	24.7	31	16	1.8 ⁷⁾	7.7 ⁷⁾
50	28.2	38.1	37	22	2.1 ⁷⁾	9.3 ⁷⁾
54 ⁵⁾	32.7	44.3	39	24	2.2 ⁷⁾	9.9 ⁷⁾

R6-4w / R5-3w / R4-2w Min. $\varnothing D_S = 125$ mm

\dot{V} L/s	P_{st} Pa	P_t Pa	$L_{W(A)}$ dB(A)	$L_{P(A)}$ ¹⁾ NC	C_{min} ²⁾ m	C_{max} ²⁾ m
13 ³⁾	5	5.7	<25	<10	0.9 ⁶⁾	3.5 ⁶⁾
15 ⁴⁾	6.6	7.5	<25	<10	1.1 ⁷⁾	3.9 ⁷⁾
20	11.4	13	<25	<10	1.2 ⁷⁾	5.0 ⁷⁾
25	17.4	19.9	26	11	1.4 ⁷⁾	6.0 ⁷⁾
30	24.6	28.2	30	15	1.6 ⁷⁾	7.0 ⁷⁾
35	33	37.9	34	19	1.7 ⁷⁾	8.0 ⁷⁾
38 ⁵⁾	38.6	44.3	37	21	1.8 ⁷⁾	8.3 ⁷⁾

Key:

R0 = No reducer
R1 to R6 = reducers 1 to 6
4w = 4-way blow; 3w = 3-way blow; 2w = 2-way blow

Notes:

- 1) Based on 10 dB room absorption per diffuser.
- 2) Centre-line distance between diffusers, based on 2.7 to 4 m discharge height & ADPI \geq 90%.
- 3) Minimum airflow rate @ $\Delta T_{supply-room} = -12$ K.
- 4) Minimum airflow rate @ $\Delta T_{supply-room} = -15$ K.
- 5) Maximum airflow rate for $P_t \leq 45$ Pa and $L_p \leq NC30$.
- 6) Diffuser centre-line spacing @ $\Delta T_{supply-room} = -12$ K for ADPI \geq 90%.
- 7) Diffuser centre-line spacing @ $\Delta T_{supply-room} = -15$ K for ADPI \geq 90%.

PERFORMANCE TABLES - DN500

Quick selection guide. Refer to the online selection tool for detailed selections.

R0-4w Min. $\varnothing D_S = 350$ mm

\dot{V}	P_{st}	P_t	$L_{W(A)}$	$L_{P(A)}^{(1)}$	$C_{min}^{(2)}$	$C_{max}^{(2)}$
L/s	Pa	Pa	dB(A)	NC	m	m
117 ⁽³⁾	2.2	3.1	<25	<10	2.7 ⁽⁶⁾	10.8 ⁽⁶⁾
131 ⁽⁴⁾	2.8	3.9	<25	<10	3.2 ⁽⁷⁾	11.4 ⁽⁷⁾
200	6.7	9.3	28	13	3.9 ⁽⁷⁾	15.4 ⁽⁷⁾
250	10.5	14.6	33	18	4.4 ⁽⁷⁾	16.0 ⁽⁷⁾
300	15.3	21.2	38	23	4.9 ⁽⁷⁾	16.0 ⁽⁷⁾
350	21.1	29	41	27	5.4 ⁽⁷⁾	16.0 ⁽⁷⁾
400 ⁽⁵⁾	27.7	38.1	45	30	5.9 ⁽⁷⁾	16.0 ⁽⁷⁾

R1-4w / R0-3w Min. $\varnothing D_S = 325$ mm

\dot{V}	P_{st}	P_t	$L_{W(A)}$	$L_{P(A)}^{(1)}$	$C_{min}^{(2)}$	$C_{max}^{(2)}$
L/s	Pa	Pa	dB(A)	NC	m	m
108 ⁽³⁾	3.1	4.1	<25	<10	2.6 ⁽⁶⁾	10.4 ⁽⁶⁾
121 ⁽⁴⁾	3.9	5.2	<25	<10	3.1 ⁽⁷⁾	11.0 ⁽⁷⁾
150	6.1	8	27	10	3.4 ⁽⁷⁾	12.9 ⁽⁷⁾
200	11	14.5	34	17	4.0 ⁽⁷⁾	16.0 ⁽⁷⁾
250	17.4	22.8	40	23	4.5 ⁽⁷⁾	16.0 ⁽⁷⁾
300	25.3	33.2	44	27	5.1 ⁽⁷⁾	16.0 ⁽⁷⁾
320 ⁽⁵⁾	28.9	37.9	46	29	5.3 ⁽⁷⁾	16.0 ⁽⁷⁾

R2-4w / R1-3w / R2-2w Min. $\varnothing D_S = 300$ mm

\dot{V}	P_{st}	P_t	$L_{W(A)}$	$L_{P(A)}^{(1)}$	$C_{min}^{(2)}$	$C_{max}^{(2)}$
L/s	Pa	Pa	dB(A)	NC	m	m
90 ⁽³⁾	2.4	3.4	<25	<10	2.4 ⁽⁶⁾	9.5 ⁽⁶⁾
101 ⁽⁴⁾	3.1	4.4	<25	<10	2.8 ⁽⁷⁾	10.1 ⁽⁷⁾
125	5	6.8	<25	<10	3.1 ⁽⁷⁾	11.7 ⁽⁷⁾
150	7.3	10	29	13	3.4 ⁽⁷⁾	13.4 ⁽⁷⁾
200	13.6	18.4	36	20	4.0 ⁽⁷⁾	16.0 ⁽⁷⁾
250	21.9	29.4	42	26	4.6 ⁽⁷⁾	16.0 ⁽⁷⁾
290 ⁽⁵⁾	30.2	40.3	45	30	5.0 ⁽⁷⁾	16.0 ⁽⁷⁾

R3-4w / R2-3w / R1-2w Min. $\varnothing D_S = 275$ mm

\dot{V}	P_{st}	P_t	$L_{W(A)}$	$L_{P(A)}^{(1)}$	$C_{min}^{(2)}$	$C_{max}^{(2)}$
L/s	Pa	Pa	dB(A)	NC	m	m
68 ⁽³⁾	2.7	3.7	<25	<10	2.1 ⁽⁶⁾	8.4 ⁽⁶⁾
75 ⁽⁴⁾	3.4	4.3	<25	<10	2.4 ⁽⁷⁾	8.7 ⁽⁷⁾
100	6.2	7.9	<25	<10	2.8 ⁽⁷⁾	10.6 ⁽⁷⁾
125	9.9	12.6	29	13	3.1 ⁽⁷⁾	12.5 ⁽⁷⁾
150	14.6	18.4	33	18	3.4 ⁽⁷⁾	14.4 ⁽⁷⁾
200	26.8	33.6	40	25	4.1 ⁽⁷⁾	16.0 ⁽⁷⁾
229 ⁽⁵⁾	35.7	44.6	44	28	4.5 ⁽⁷⁾	16.0 ⁽⁷⁾

R4-4w / R3-3w / R2-2w Min. $\varnothing D_S = 250$ mm

\dot{V}	P_{st}	P_t	$L_{W(A)}$	$L_{P(A)}^{(1)}$	$C_{min}^{(2)}$	$C_{max}^{(2)}$
L/s	Pa	Pa	dB(A)	NC	m	m
54 ⁽³⁾	2.8	3.5	<25	<10	1.9 ⁽⁶⁾	7.4 ⁽⁶⁾
60	3.5	4.4	<25	<10	2.2 ⁽⁷⁾	7.7 ⁽⁷⁾
80	6.4	8	<25	<10	2.5 ⁽⁷⁾	9.5 ⁽⁷⁾
100	10.4	12.9	28	12	2.8 ⁽⁷⁾	11.2 ⁽⁷⁾
125	16.9	20.8	33	18	3.1 ⁽⁷⁾	13.4 ⁽⁷⁾
150	25	30.6	38	22	3.5 ⁽⁷⁾	15.5 ⁽⁷⁾
179 ⁽⁵⁾	36.5	44.5	42	26	3.9 ⁽⁷⁾	16.0 ⁽⁷⁾

R5-4w / R4-3w / R3-2w Min. $\varnothing D_S = 225$ mm

\dot{V}	P_{st}	P_t	$L_{W(A)}$	$L_{P(A)}^{(1)}$	$C_{min}^{(2)}$	$C_{max}^{(2)}$
L/s	Pa	Pa	dB(A)	NC	m	m
45 ⁽³⁾	4.2	5	<25	<10	1.7 ⁽⁶⁾	6.7 ⁽⁶⁾
50 ⁽⁴⁾	5.1	6.1	<25	<10	2.0 ⁽⁷⁾	7.1 ⁽⁷⁾
60	7.2	8.5	<25	<10	2.1 ⁽⁷⁾	8.0 ⁽⁷⁾
80	12.2	14.6	28	12	2.5 ⁽⁷⁾	10.0 ⁽⁷⁾
100	18.4	22.2	34	18	2.8 ⁽⁷⁾	11.9 ⁽⁷⁾
120	25.7	31.2	38	22	3.1 ⁽⁷⁾	13.8 ⁽⁷⁾
145 ⁽⁵⁾	36.4	44.4	43	27	3.6 ⁽⁷⁾	16.0 ⁽⁷⁾

Key:

R0 = No reducer

R1 to R6 = reducers 1 to 6

4w = 4-way blow; 3w = 3-way blow; 2w = 2-way blow

Notes:

- Based on 10 dB room absorption per diffuser.
- Centre-line distance between diffusers, based on 2.7 to 4 m discharge height & ADPI \geq 90%.
- Minimum airflow rate @ $\Delta T_{supply-room} = -12$ K.
- Minimum airflow rate @ $\Delta T_{supply-room} = -15$ K.
- Maximum airflow rate for $P_t \leq 45$ Pa and $L_p \leq NC30$.
- Diffuser centre-line spacing @ $\Delta T_{supply-room} = -12$ K for ADPI \geq 90%.
- Diffuser centre-line spacing @ $\Delta T_{supply-room} = -15$ K for ADPI \geq 90%.

ORDER DETAILS

SD-DN ____ - ____ -R ____ -P ____ - ____ - ____

CONNECTION TYPE:

- 0* = No connection box.
- KF = Thermally insulated foam connection box with magnetic fastener & blanking cap.
- KFR = As for KF plus threaded rod fastener and cap.

SURFACE FINISH:

- 9003* = Face powder coated to RAL 9003 (Signal White).
- ____ = Face powder coated to RAL ____ .

FACE FINISH:

- 0* = No perforated face.
- 1 = Perforated face.

DISCHARGE PATTERN:

- 4w* = No blanking segments.
- 3w = 1/4 blanking segment – for diffuser adjacent to wall.
- 2s = 2/4 blanking segments – for diffuser in corridor.
- 2a = 1/2 blanking segment – for diffuser in corner.

REDUCER:

- 0* = No reducer
- 1 – 6 = Reducers 1 to 6 for size DN355.
- 1 – 5 = Reducers 1 to 5 for size DN500.

FACE SHAPE:

- S* = Square face with 90° turn-up for coffered ceilings:
 - □ 295 mm* for size DN250;
 - □ 595 mm* (445 mm to 595 mm available) for size DN350;
 - □ 595 mm* for size DN500.
- C = Circular face with flush contact edge (4 mm / 30°) for closed false ceilings:
 - Ø 270 mm* for size DN200;
 - Ø 335 mm* for size DN250;
 - Ø 470 mm* for size DN350;
 - Ø 675 mm* for size DN500.

NECK DIAMETER:

- DN200 = Nominal neck diameter 200 mm.
- DN250 = Nominal neck diameter 250 mm.
- DN350 = Nominal neck diameter 350 mm.
- DN500 = Nominal neck diameter 500 mm.

MODEL:

- Harmony Swirl Diffuser

Note: * Standard, if no type code entered.

Products supplied may differ slightly from those described in this technical brochure due to on-going product development.