

Horizontal Drum Louvres with a fixed outer frame and adjustable cylinder core providing both vertical air direction adjustment and horizontal adjustment.

Cylinder diffusers may be used in both vertical and horizontal applications if required. Also they can be used for heating and cooling applications and are specifically designed for use in large areas such as shopping malls, gymnasiums etc. areas where it is desirable to have a controlled ventilation but with a long throw.

The main cylinder spins on a pivot allowing it to move vertically up or down and the individually adjustable vertical pattern control blades can be altered to any angle to allow a wide spread throw.

Materials:

Extruded aluminium frame the cylinder core and adjustable blade are manufactured from aluminium extrusion. The whole of which is fitted with a silicone treated polypropylene seal. The outer frame is mitred and joined by mechanical cleating.

Finish:

Standard finish is natural anodised silver, however we can offer an extensive range of painted and polyester powder coated finishes to match RAL or BS colours.

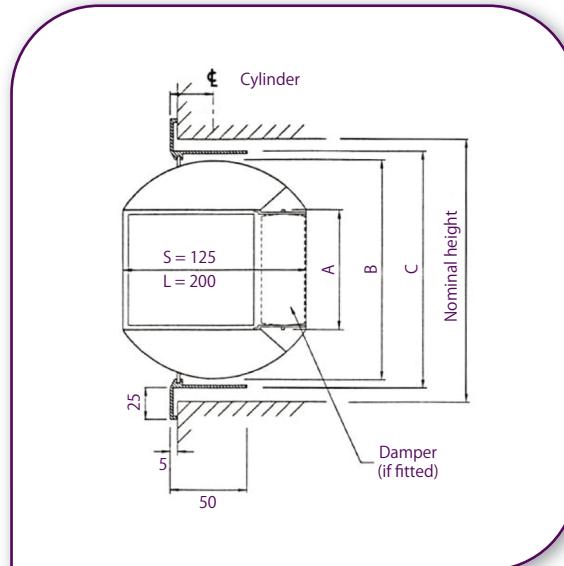
Fixing:

As standard the outer frame is provided with countersunk face fixings for screen to ductwork or to structure.

Dampers:

The units are available with opposed blade dampers which can be fitted to the rear of the cylinder core for volume balancing.

The cylinders are available to rotate for 360° for cleaning with or without damper fitted.



High Velocity Drum Louvre// Type HVCUA

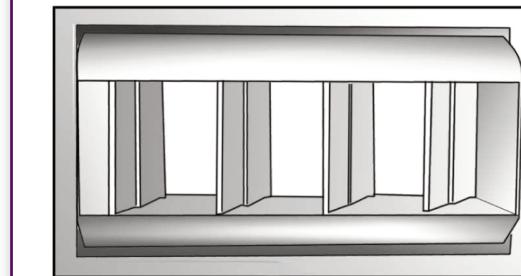


Table of Standard Sizes

Type	Size	Nominal Width	Nominal Height	A	B	C	D	No Blades
S	1	250	175	86	156	166	75	3
S	2	325	175	86	156	166	75	4
S	3	475	175	86	156	166	75	6
S	4	625	175	86	156	166	75	8
L	5	525	275	152	256	266	125	4
L	6	650	275	152	256	266	125	5
L	7	775	275	152	256	266	125	6
L	8	900	275	152	256	266	125	7

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Throw in Metres	Temp in Diff 0°C	L/S Size	Stat press Pa dBA	100 S1 30 22	120 S1 40 24	140 S1 S2 50 20 27 22	165 S1 S2 60 30 31 24	190 S1 S2 S3 80 40 20 33 28 23	210 S1 S2 S3 100 50 30 36 30 24	240 S1 S2 S3 130 60 30 38 32 26	260 S1 S2 S3 150 80 40 40 34 29	280 S1 S2 S3 S4 180 90 40 20 41 36 30 24	310 S1 S2 S3 S4 200 100 50 30 43 37 32 27
3	5 11 16 22	Drop or rise in m	0.1 0.2 0.2 0.3	0.1 0.1 0.1 0.2	0.0 0.1 0.1 0.1 0.1 0.2 0.2 0.2	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.1 0.2 0.2	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.1 0.2 0.2	0.0 0.0 0.1 0.0 0.1 0.1 0.0 0.1 0.2 0.0 0.1 0.2	0.0 0.0 0.0 0.0 0.1 0.1 0.0 0.1 0.1 0.0 0.1 0.1	0.0 0.0 0.0 0.1 0.0 0.0 0.1 0.1 0.0 0.1 0.1 0.2 0.0 0.1 0.1 0.2	0.0 0.0 0.0 0.1 0.0 0.0 0.1 0.1 0.0 0.1 0.1 0.2 0.0 0.1 0.1 0.2	0.0 0.0 0.0 0.1 0.0 0.0 0.1 0.1 0.0 0.1 0.1 0.2 0.0 0.1 0.1 0.2	0.0 0.0 0.0 0.1 0.0 0.0 0.1 0.1 0.0 0.1 0.1 0.2 0.0 0.1 0.1 0.2
6	5 11 16 22	Drop or rise in m	0.6 0.2 0.2 0.3	0.1 0.1 0.1 0.2	0.3 0.5 0.1 0.2 0.1 0.2 0.2 0.2	0.2 0.5 0.1 0.1 0.1 0.2 0.1 0.2	0.2 0.3 0.4 0.1 0.1 0.1 0.1 0.1 0.2 0.1 0.2 0.2	0.1 0.2 0.3 0.0 0.1 0.1 0.0 0.1 0.2 0.1 0.1 0.2	0.1 0.2 0.3 0.0 0.1 0.1 0.0 0.1 0.1 0.1 0.1 0.2	0.1 0.2 0.2 0.0 0.0 0.1 0.0 0.1 0.1 0.0 0.1 0.1	0.1 0.1 0.2 0.4 0.0 0.0 0.1 0.1 0.0 0.1 0.1 0.2 0.0 0.1 0.1 0.2	0.1 0.1 0.2 0.3 0.0 0.0 0.1 0.1 0.0 0.1 0.1 0.2 0.0 0.1 0.1 0.2	0.1 0.1 0.2 0.3 0.0 0.0 0.1 0.1 0.0 0.1 0.1 0.2 0.0 0.1 0.1 0.2
9	5 11 16 22	Drop or rise in m	1.8 3.7 4.0 5.2	1.2 2.4 3.0 4.3	1.0 1.7 1.8 3.4 3.0 5.2 2.8 4.3	0.8 1.5 0.8 1.9 2.8 4.3 3.0	0.5 1.0 1.4 0.8 1.9 2.8 1.8 3.1 4.3 2.1 4.0 5.5	0.4 0.8 1.2 0.8 1.6 2.4 1.4 2.4 3.7 1.7 3.1 4.9	0.3 0.6 1.1 0.7 1.2 2.1 1.0 2.0 3.4 1.4 2.6 4.6	0.3 0.5 0.8 0.6 1.1 1.7 0.8 1.5 2.4 1.1 2.1 3.4	0.2 0.6 0.7 1.3 0.5 0.9 1.4 2.4 0.7 1.3 2.3 4.0 1.0 1.7 3.1 5.2	0.2 0.4 0.6 1.1 0.4 0.8 1.2 2.2 0.6 1.1 1.8 3.4 0.8 1.4 2.4 4.3	0.2 0.4 0.6 1.1 0.4 0.8 1.2 2.2 0.6 1.1 1.8 3.4 0.8 1.4 2.4 4.3
12	5 11 16 22	Drop or rise in m	4.3 5.5 6.8	3.1 4.3 5.2	2.4 4.1 3.1 5.5 3.7 6.4	1.8 3.4 3.1 5.5 5.2	1.2 2.4 3.4 2.3 4.6 5.5 3.7 6.4	1.1 1.8 3.0 1.8 3.7 5.5 3.1 5.5	0.5 0.3 0.2 0.6 1.2 2.0 2.1 3.7 5.5	0.6 0.4 0.3 0.7 1.2 2.0 2.6 4.9	0.5 0.5 0.3 0.6 1.0 1.8 3.1 2.3 4.0 6.1	0.8 0.6 0.4 0.3 0.5 0.9 1.4 2.6 2.0 3.7 5.8	0.8 0.6 0.4 0.3 0.5 0.9 1.4 2.6 2.0 3.7 5.8
15	5 11 16 22	Drop or rise in m	7.9 7.0	5.5 5.5	4.6 7.3 3.4 5.5	3.4 5.5 4.0	2.4 4.6 5.5 3.4 6.4	2.0 3.7 5.5 3.4 6.4 5.5 7.3	1.6 2.9 4.9 2.8 5.5 8.2 4.9 7.6 5.8	1.3 2.4 4.0 2.3 4.9 6.7 4.0 6.4 5.2	1.1 2.0 3.7 5.8 2.0 4.0 6.1 3.4 5.5 4.3 7.0	1.0 1.7 2.8 5.2 1.7 3.4 5.5 2.8 4.9 7.9 4.0 6.1	1.0 1.7 2.8 5.2 1.7 3.4 5.5 2.8 4.9 7.9 4.0 6.1
18	5 11 16 22	Drop or rise in m	9.2 7.0	7.0 5.8 9.5 8.2	5.8 9.5 4.3 7.3 9.5 6.7	4.3 7.3 9.5 5.8 9.5	3.7 5.8 8.5 5.8 9.5	2.8 4.9 7.3 4.6 8.5 7.6 9.8	2.2 4.0 6.1 4.0 7.6 6.1 8.2	2.0 3.4 5.5 8.5 3.4 6.1 9.5 5.5 8.9 7.0	1.7 3.1 4.9 7.6 3.0 5.8 8.9 5.2 7.9 6.1	1.7 3.1 4.9 7.6 3.0 5.8 8.9 5.2 7.9 6.1	
21	5 11 16 22	Drop or rise in m		11.0	8.9	5.8 11.3 9.5	5.5 8.9 7.9	4.6 7.3 6.7	3.7 6.1 9.5 5.5 11.0 9.5	3.1 5.5 8.2 4.9 9.5 8.2 10.7	2.7 4.6 7.3 4.6 8.5 7.3 9.2	2.7 4.6 7.3 4.6 8.5 7.3 9.2	
24	5 11 16 22	Drop or rise in m		0.1	0.1	0.1 0.1	0.2 0.1	0.2 0.2 0.1	0.3 0.2 0.1	0.4 0.3 0.2	0.4 0.3 0.2 0.1	0.4 0.3 0.2 0.2	0.4 0.3 0.2 0.2
		Residual vel m/s											

Diffusers

High Velocity Drum Louvre// Type HVCUA

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Throw in Metres	Temp in Diff 0°C	L/S Size	Stat press Pa dBA level	330	380	425	470	520	570	610			
		S1	S2	S3	S4	S2	S3	S4	S5	S3	S4	S5	S6
		240	120	60	40	150	80	40	30	230	110	60	30
		44	39	33	29	42	36	31	28	46	40	35	31
3	5 11 16 22	Drop or rise in m	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.1 0.1 0.0 0.0 0.1 0.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.1 0.1 0.0 0.0 0.1 0.1	0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.0 0.0 0.1 0.1 0.0 0.0 0.1 0.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.1 0.1 0.0 0.0 0.1 0.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.1 0.1 0.0 0.0 0.1 0.1						
6	5 11 16 22	Drop or rise in m	0.1 0.1 0.2 0.3 0.1 0.2 0.3 0.5 0.2 0.3 0.5 0.8 0.2 0.3 0.6 1.0	0.1 0.1 0.2 0.2 0.2 0.4 0.2 0.3 0.5 0.3 0.5 0.9	0.1 0.1 0.2 0.3 0.1 0.2 0.3 0.5 0.2 0.3 0.5 0.8 0.3 0.4 0.7 1.1	0.1 0.1 0.2 0.2 0.1 0.2 0.3 0.4 0.2 0.2 0.4 0.6 0.2 0.3 0.6 0.9	0.1 0.1 0.2 0.2 0.1 0.2 0.4 0.5 0.2 0.3 0.5 0.7 0.2 0.4 0.7 0.9	0.1 0.1 0.2 0.2 0.1 0.2 0.3 0.4 0.2 0.3 0.4 0.6 0.2 0.4 0.6 0.8	0.1 0.1 0.2 0.2 0.1 0.2 0.3 0.4 0.2 0.3 0.4 0.6 0.2 0.3 0.5 0.8	0.0 0.1 0.1 0.2 0.2 0.1 0.2 0.2 0.4 0.5 0.1 0.2 0.5 0.6 0.7 0.2 0.3 0.5 0.8 0.9			
9	5 11 16 22	Drop or rise in m	0.2 0.3 0.5 0.8 0.3 0.5 1.0 1.7 0.5 1.0 1.5 2.5 0.7 1.3 2.1 3.4	0.2 0.4 0.7 0.5 0.8 1.4 0.8 1.2 2.3 1.0 1.6 2.8	0.2 0.3 0.6 0.9 0.4 0.6 1.1 1.8 0.6 0.9 1.8 2.8 0.8 1.2 2.4 3.7	0.2 0.3 0.6 0.9 0.3 0.5 1.0 1.4 0.5 0.8 1.4 2.3 0.7 1.0 1.9 3.1	0.2 0.4 0.6 0.8 0.4 0.7 1.5 1.7 0.6 1.1 1.8 2.4 0.8 1.4 2.4 3.4	0.2 0.4 0.6 0.4 0.4 0.8 1.2 1.8 0.6 1.1 2.3 4.0 5.2 0.8 1.4 2.4 3.4	0.2 0.4 0.6 0.4 0.4 0.8 1.2 1.8 0.6 1.1 2.3 4.0 5.2 0.8 1.4 2.4 3.4	0.2 0.3 0.5 0.6 0.8 0.3 0.6 0.9 1.3 1.6 0.4 0.9 1.4 2.0 2.4 0.6 1.1 1.8 2.6 3.1			
12	5 11 16 22	Drop or rise in m	0.4 0.7 1.2 2.0 0.8 1.5 2.3 4.0 1.4 2.3 3.7 6.1 1.7 3.0 4.6	0.6 1.0 1.7 1.2 1.9 3.4 1.7 2.9 5.5 2.3 3.7 6.4	0.5 0.7 1.4 2.3 1.0 1.4 2.8 4.6 1.4 2.2 4.0 6.4 2.0 2.9 5.5	0.4 0.6 1.1 1.8 0.8 1.2 2.2 3.4 1.2 1.7 3.4 5.5 1.6 2.3 4.3 6.4	0.5 0.9 1.5 2.0 1.0 1.0 3.1 4.0 1.5 1.1 4.6 6.1 1.9 1.5 6.1	0.4 0.8 1.2 1.8 0.8 1.5 2.4 3.7 1.2 2.3 4.0 5.2 1.6 3.1 4.9 6.1	0.4 0.7 1.1 1.5 1.8 0.7 1.3 2.2 3.1 3.7 1.1 1.9 3.4 4.6 5.8 1.4 2.5 4.3 5.8				
15	5 11 16 22	Drop or rise in m	0.9 1.5 2.4 4.0 1.5 3.1 4.6 7.0 2.6 4.3 6.4 3.4 5.8	1.1 1.8 3.4 2.3 3.7 6.1 3.4 5.5 4.6 6.7	1.0 1.4 2.8 4.3 1.9 2.9 5.2 8.2 1.5 4.8 7.9 3.7 5.5 9.8	0.8 1.2 2.3 3.4 1.6 2.3 4.3 6.4 2.4 3.7 6.4 3.1 4.9 7.6	1.0 1.7 3.1 4.0 1.9 1.7 5.8 7.6 2.9 2.5 3.2 3.4	0.8 1.5 2.4 3.7 1.6 2.9 4.9 6.1 2.4 4.6 7.0 3.1 5.5 8.9	0.7 1.3 2.2 3.1 3.7 1.4 2.2 4.3 6.1 6.7 2.1 4.0 6.1 2.8 5.2 8.2				
18	5 11 16 22	Drop or rise in m	1.6 2.6 4.0 6.1 2.5 5.2 7.0 4.3 6.7 5.8 9.2	2.0 3.1 5.8 4.0 6.1 9.8 5.8 8.5 7.6	1.7 2.5 4.6 7.0 3.4 4.9 7.9 2.9 7.0 5.8 8.5	1.3 2.0 3.7 6.1 2.7 4.0 6.7 4.0 5.8 5.2 7.6	1.7 2.9 5.2 6.4 3.2 5.8 9.5 4.9 8.5 6.1	1.3 2.6 4.3 5.8 2.8 4.9 8.2 4.3 7.0 5.2 8.5	1.2 2.2 3.7 5.5 5.8 2.4 4.3 7.3 9.5 3.7 6.1 4.6 8.2				
21	5 11 16 22	Drop or rise in m	2.3 4.0 6.1 9.2 4.0 7.6 10.7 6.4 10.1 8.5	3.1 5.2 8.2 6.1 9.2 8.5 11.0	2.7 4.0 6.7 10.7 5.2 7.0 6.7 10.7 8.5	2.1 3.4 5.8 8.9 4.3 5.8 10.4 6.1 8.5 7.9	2.8 4.6 7.6 10.1 5.2 7.9 7.0 8.9	2.1 4.0 6.4 8.5 4.3 6.7 6.1 10.7 7.9	1.9 3.5 5.8 7.9 9.2 4.0 6.1 5.5 9.8 6.7				
24	5 11 16 22	Drop or rise in m	2.5 0.3 0.2 0.2 0.4 0.3 0.2	0.5 0.3 0.2	0.6 0.4 0.3 0.2	0.6 0.4 0.3 0.2	0.5 0.3 0.2 0.2	0.5 0.4 0.2 0.2	0.5 0.4 0.3 0.2 0.2	0.5 0.4 0.3 0.2 0.2			
		Residual vel m/s											
		Residual vel m/s											

Diffusers

Throw in Metres	Temp in Diff 0°C	L/S Size Stat press Pa dBA level	660 S3 220 47	710 S4 140 43	760 S4 150 45	850 S4 190 47	940 S4 230 49
			S3 220 47	S4 120 42	S4 160 37	S4 170 33	S4 180 31
			L5 60	L5 40	L6 30	L7 31	L8 30
			Pa 47	Pa 42	Pa 37	Pa 33	Pa 31
			dBA 47	dBA 42	dBA 37	dBA 33	dBA 31
6	5	Drop or rise in m	0.0 0.1 0.1 0.2 0.2	0.1 0.1 0.2 0.2	0.1 0.1 0.1 0.2 0.2	0.0 0.1 0.1 0.1 0.2	
	11	Drop or rise in m	0.1 0.2 0.2 0.3 0.4	0.1 0.2 0.3 0.3	0.1 0.2 0.2 0.3 0.4	0.1 0.1 0.2 0.2 0.3	
9	16	Drop or rise in m	0.1 0.2 0.3 0.5 0.7	0.2 0.3 0.4 0.5	0.2 0.2 0.4 0.4 0.7	0.1 0.2 0.2 0.4 0.5	
	22	Drop or rise in m	0.2 0.3 0.5 0.6 0.8	0.2 0.4 0.6 0.7	0.2 0.3 0.5 0.6 0.9	0.2 0.3 0.4 0.5 0.6	
12	Residual vel m/s		1.5 1.3 0.8 0.6 0.5	1.3 0.9 0.7 0.6	1.5 0.9 0.7 0.7 0.5	1.9 1.1 0.9 0.7 0.6	
	5	Drop or rise in m	0.1 0.2 0.4 0.6 0.8	0.2 0.3 0.6 0.6	0.2 0.3 0.4 0.5 0.7	0.2 0.2 0.4 0.4 0.6	0.1 0.2 0.3 0.3 0.5
15	11	Drop or rise in m	0.2 0.5 0.7 1.1 1.5	0.4 0.6 1.1 1.2	0.4 0.6 0.8 1.0 1.4	0.3 0.5 0.7 0.9 1.1	0.2 0.4 0.5 0.7 0.9
	16	Drop or rise in m	0.4 0.7 1.1 1.7 2.1	0.6 1.0 1.6 1.7	0.6 0.9 1.3 1.5 2.1	0.5 0.7 1.0 1.3 1.6	0.4 0.6 0.8 1.0 1.4
18	22	Drop or rise in m	0.5 1.0 1.6 2.2 2.9	0.8 1.3 2.1 2.3	0.9 1.2 1.8 2.1 2.9	0.6 1.0 1.4 1.7 2.1	0.5 0.8 1.0 1.4 1.8
	Residual vel m/s		1.1 0.9 0.6 0.4 0.4	0.9 0.6 0.5 0.4	1.1 0.6 0.5 0.5 0.4	1.3 0.8 0.6 0.5 0.5	1.5 0.9 0.7 0.7 0.5
21	5	Drop or rise in m	0.3 0.6 0.9 1.3 1.8	0.5 0.8 1.3 1.4	0.4 0.7 1.1 1.2 1.7	0.3 0.6 0.9 1.0 1.4	0.3 0.5 0.7 0.8 1.1
	11	Drop or rise in m	0.6 1.1 1.8 2.8 3.7	1.0 1.6 2.6 2.8	0.8 1.4 2.1 2.4 3.4	0.7 1.1 1.7 2.1 2.7	0.6 0.9 1.3 1.6 2.3
24	16	Drop or rise in m	0.9 1.7 2.9 4.0 5.2	1.5 2.5 3.7 4.6	1.3 2.1 3.1 3.7 5.2	1.0 1.7 2.4 3.0 4.0	0.9 1.4 1.8 2.4 3.4
	22	Drop or rise in m	1.2 2.4 3.4 5.5 6.1	1.9 3.4 4.9 5.8	1.7 2.9 4.3 4.9 6.4	1.4 2.3 3.4 4.0 5.5	1.1 1.8 2.6 3.4 4.6
27	Residual vel m/s		0.8 0.7 0.5 0.3 0.3	0.8 0.5 0.4 0.3	0.8 0.5 0.4 0.4 0.3	1.0 0.6 0.5 0.4 1.2	0.7 0.6 0.5 0.4
	5	Drop or rise in m	0.6 1.1 1.8 2.8 3.4	0.1 1.6 2.5 2.8	0.8 1.4 2.1 2.4 3.4	0.7 1.1 1.7 2.0 2.6	0.6 0.9 1.3 1.7 2.3
30	11	Drop or rise in m	1.2 2.1 3.7 5.5 6.4	1.8 3.1 5.2 5.8	1.6 2.9 4.3 4.6 6.4	1.3 2.3 3.4 4.0 5.2	1.0 1.8 2.5 3.1 4.6
	16	Drop or rise in m	1.8 3.4 5.5 7.6	2.8 4.9 7.0 8.2	2.4 4.3 6.1 7.0	2.0 3.4 4.6 5.8 7.3	1.7 2.8 3.7 4.9 6.4
36	22	Drop or rise in m	2.4 4.3 6.4 9.5	3.7 6.1	3.4 5.8 7.9	2.8 4.3 6.1 7.6	2.1 3.4 4.9 6.1 8.2
	Residual vel m/s		0.7 0.6 0.4 0.3 0.2	0.7 0.5 0.3 0.3	0.7 0.5 0.4 0.3 0.3	0.9 0.5 0.4 0.4 0.3	0.9 0.6 0.5 0.4 0.3
5	11	Drop or rise in m	1.1 1.9 3.4 4.6 5.8	1.6 2.8 4.3 4.9	1.4 2.4 3.7 4.3 5.8	1.2 2.0 2.8 3.4 4.4	1.0 1.6 2.2 2.8 4.0
	16	Drop or rise in m	2.1 3.7 6.1 8.5	3.1 5.5 8.2 8.9	2.8 2.8 6.7 7.6	2.3 4.0 5.5 6.4 8.2	1.7 3.1 4.6 5.5 7.3
18	22	Drop or rise in m	3.1 5.8 9.5	4.9 8.2	4.6 7.3	3.4 5.5 7.6 9.5	2.8 4.9 6.1 7.6
			4.3 7.0	7.3	5.8 8.9	4.6 7.0	3.7 6.1 8.2
21	Residual vel m/s		0.7 0.5 0.3 0.3 0.2	0.6 0.4 0.3 0.2	1.6 0.4 0.3 0.3 0.2	0.7 0.5 0.4 0.3 0.3	0.8 0.5 0.4 0.4 0.3
	5	Drop or rise in m	1.7 2.9 5.2 7.0 8.2	2.2 4.6 6.4 7.0	2.3 4.0 5.8 6.1 8.5	1.8 3.1 4.3 5.5 6.4	1.5 2.6 3.4 4.6 6.1
24	11	Drop or rise in m	3.4 5.8 9.8	4.9 8.2	4.6 7.9 10.4	3.5 6.1 8.2 10.1	2.9 5.2 6.7 8.2
	16	Drop or rise in m	5.2 8.5	7.0	6.4 11.0	5.8 8.5	4.6 7.3 9.8
27	22	Drop or rise in m	6.1 11.0	11.0	8.2	6.7 11.3	5.8 8.9
	Residual vel m/s		0.6 0.5 0.3 0.2 0.2	0.5 0.3 0.2 0.2	0.6 0.4 0.3 0.2 0.2	0.7 0.4 0.3 0.3 0.2	0.7 0.5 0.4 0.3 0.3
30	5	Drop or rise in m	2.6 4.6 7.3 10.4 11.9	3.7 6.4 9.8 10.1	3.4 5.8 7.9 9.2 12.2	2.8 4.6 6.1 7.6 9.8	2.2 3.7 5.5 6.1 8.5
	11	Drop or rise in m	5.2 7.9	6.7 11.9	6.1 11.0	5.2 8.6 12.2	4.3 7.0 10.1 11.9
36	16	Drop or rise in m	7.0 12.5	10.4	9.5	7.6 12.2	6.4 10.7
	22	Drop or rise in m	8.9		11.9	9.5	8.5 12.8
45	Residual vel m/s		0.5 0.4 0.3 0.2 0.2	0.5 0.3 0.2 0.2	0.5 0.3 0.2 0.2 0.2	0.6 0.4 0.3 0.3 0.2	0.7 0.4 0.3 0.3 0.2
	5	Drop or rise in m					
54	11	Drop or rise in m					3.0 5.2 7.3 8.9 11.9
	16	Drop or rise in m					5.8 8.9 14.0
63	22	Drop or rise in m					9.2
							11.3
72	Residual vel m/s						0.6 0.4 0.3 0.3 0.2
	5	Drop or rise in m					
81	11	Drop or rise in m					4.3 6.7 9.5 11.6
	16	Drop or rise in m					7.6 13.7
90	22	Drop or rise in m					12.2
							15.0
108	Residual vel m/s						0.6 0.4 0.3 0.3 0.2
	5	Drop or rise in m					
126	11	Drop or rise in m					6.7 11.3 16.2
	16	Drop or rise in m					12.2
144	22	Drop or rise in m					

High Velocity Drum Louvre// Type HVCUA

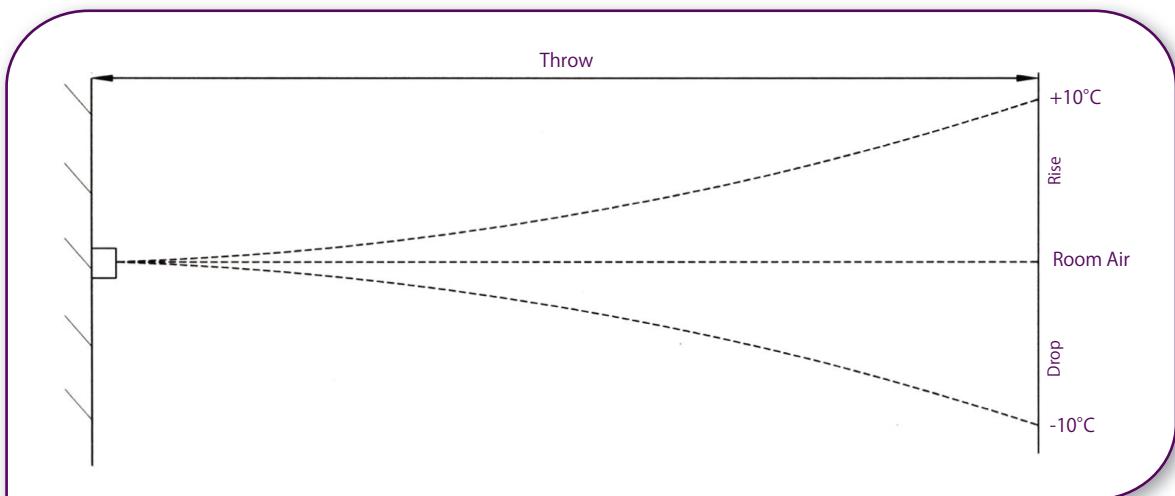
tek limited

2.8

Throw in Metres	Temp in Diff 0°C	L/S Size Stat press Pa dBA level	1040 L5 L6 L7 L8 140 90 70 50 47 42 40 37	1130 L5 L6 L7 L8 170 110 80 60 46 42 40 37	1230 L5 L6 L7 L8 190 130 90 70 49 46 43 40	1320 L5 L6 L7 L8 220 140 100 80 46 42 40 37	1420 L5 L6 L7 L8 250 160 120 80 52 48 46 43	1650 L6 L7 L8 220 160 110 52 49 46	1890 L7 L8 210 150 52 49	2125 L7 L8 250 180 53 51	2360 L8 220 54
6	5 11 16 22	Drop or rise in m									
9	5 11 16 22	Residual vel m/s									
12	5 11 16 22	Drop or rise in m	0.2 0.2 0.3 0.4 0.3 0.4 0.6 0.8 0.5 0.7 0.9 1.1 0.6 0.9 1.1 1.5	0.1 0.2 0.2 0.3 0.2 0.4 0.5 0.6 0.3 0.5 0.6 0.7 0.4 0.6 0.8 1.2	0.1 0.2 0.2 0.2 0.2 0.3 0.3 0.5 0.3 0.4 0.5 0.7 0.4 0.6 0.7 0.9	0.1 0.1 0.2 0.2 0.2 0.2 0.3 0.4 0.2 0.3 0.5 0.6 0.3 0.5 0.6 0.8	0.1 0.1 0.2 0.2 0.2 0.2 0.3 0.4 0.2 0.3 0.3 0.4 0.4 0.4 0.6 0.9	0.2 0.2 0.2 0.2 0.4 0.5 0.5 0.6 0.6 0.8 0.8 0.9 0.9 1.0 0.9 0.3	0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.3 0.3 0.2 0.3 0.4 0.4 0.3	0.2 0.2 0.2 0.2 0.4 0.5 0.5 0.6 0.6 0.8 0.8 0.9 0.9 1.0 0.9 0.3	0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.3 0.3 0.2 0.3 0.4 0.4 0.3
15	5 11 16 22	Residual vel m/s	1.1 0.9 0.8 0.6 1.1 0.9 0.8 0.7 1.4 1.0 0.9 0.7 1.5 1.2 1.0 0.9	1.1 0.9 0.8 0.6 1.1 0.9 0.8 0.7 1.4 1.0 0.9 0.7 1.5 1.2 1.0 0.9	1.8 1.2 1.1 0.9 1.8 1.2 1.1 0.9 1.6 1.4 1.1 1.0 1.6 1.4 1.1 1.0	1.8 1.2 1.1 0.9 1.8 1.2 1.1 0.9 1.6 1.4 1.1 1.0 1.6 1.4 1.1 1.0	1.2 1.0 1.1 1.0 1.2 1.0 1.1 1.0 1.2 1.0 1.1 1.0 1.2 1.0 1.1 1.0	1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.0	1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.0	1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.0	1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.0
18	5 11 16 22	Drop or rise in m	0.4 0.5 0.7 1.0 0.7 1.1 1.4 1.9 1.1 1.7 2.2 2.8 1.3 2.1 2.8 3.7	0.3 0.5 0.6 0.8 0.6 0.9 1.1 1.5 0.5 0.8 1.0 1.3 0.9 1.3 1.7 2.1	0.3 0.4 0.5 0.6 0.4 0.6 0.8 1.1 0.6 1.0 1.2 1.7 1.1 1.4 2.0 2.6	0.2 0.3 0.4 0.6 0.4 0.6 0.7 1.0 0.6 0.8 1.1 1.5 0.9 1.3 1.6 2.1	0.2 0.3 0.4 0.5 0.4 0.6 0.7 1.0 0.6 0.8 1.1 1.5 0.9 1.0 1.5 2.0	0.2 0.2 0.4 0.5 0.4 0.5 0.7 0.5 0.6 0.8 1.1 0.6 0.9 1.0 1.5 0.7	0.2 0.3 0.3 0.2 0.5 0.5 0.5 0.4 0.6 0.8 0.8 0.5 0.7 1.1 1.1 0.6	0.2 0.2 0.2 0.2 0.3 0.4 0.4 0.3 0.5 0.7 0.7 0.5 0.6 0.9 0.9 0.8	0.2 0.2 0.2 0.2 0.3 0.4 0.4 0.3 0.5 0.5 0.5 0.4 0.6 0.9 0.9 0.8
21	5 11 16 22	Residual vel m/s	0.9 0.7 0.6 0.5 0.9 0.7 0.6 0.5 1.1 0.9 0.7 0.6 1.2 0.9 0.8 0.7	0.9 0.7 0.6 0.5 0.9 0.7 0.6 0.5 1.1 0.9 0.7 0.6 1.2 0.9 0.8 0.7	1.2 0.9 0.8 0.7 1.2 0.9 0.8 0.7 1.3 1.0 0.9 0.7 1.3 1.0 0.9 0.7	1.2 0.9 0.8 0.7 1.2 0.9 0.8 0.7 1.3 1.0 0.9 0.7 1.3 1.0 0.9 0.7	1.2 1.0 0.9 0.9 1.2 1.0 0.9 0.9 1.2 1.0 0.9 0.9 1.2 1.0 0.9 0.9	1.1 1.0 1.0 1.0 1.1 1.0 1.0 1.0 1.1 1.0 1.0 1.0 1.1 1.0 1.0 1.0	1.1 1.0 1.0 1.0 1.1 1.0 1.0 1.0 1.1 1.0 1.0 1.0 1.1 1.0 1.0 1.0	1.5 1.2 1.2 1.2 1.5 1.2 1.2 1.2 1.5 1.2 1.2 1.2 1.5 1.2 1.2 1.2	1.5 1.2 1.2 1.2 1.5 1.2 1.2 1.2 1.5 1.2 1.2 1.2 1.5 1.2 1.2 1.2
24	5 11 16 22	Drop or rise in m	0.7 1.1 1.4 1.9 1.4 2.2 2.8 3.7 2.3 3.1 4.0 5.8 2.9 4.3 5.2 6.7	0.6 0.9 1.1 1.5 0.8 1.8 2.2 3.1 1.8 2.7 3.4 4.6 2.4 3.7 4.3 6.1	0.5 0.8 1.0 1.2 1.0 1.5 2.0 2.5 1.6 2.2 3.0 3.7 2.1 2.9 3.7 5.2	0.5 0.6 0.8 1.1 0.9 1.2 1.6 2.1 1.3 1.9 2.4 3.4 1.7 2.6 3.4 4.3	0.4 0.6 0.7 1.0 0.7 1.1 1.4 2.0 1.1 1.6 2.1 3.1 1.5 2.1 3.1 4.0	0.4 0.5 0.7 1.0 0.8 1.0 1.4 2.0 1.2 1.7 2.1 3.1 1.7 2.0 2.9 5.2	0.4 0.5 0.5 0.6 0.8 1.0 1.4 2.0 1.2 1.7 2.1 3.1 1.5 2.2 2.9 5.2	0.3 0.4 0.4 0.5 0.6 0.9 0.9 0.7 1.0 1.4 1.4 1.1 1.3 1.8 1.8 1.4	0.3 0.4 0.4 0.5 0.6 0.9 0.9 0.7 1.0 1.4 1.4 1.1 1.3 1.8 1.8 1.4
27	5 11 16 22	Residual vel m/s	0.8 0.6 0.5 0.4 0.8 0.6 0.5 0.5 0.9 0.7 0.6 0.5 1.0 0.8 0.7 0.6	0.8 0.6 0.5 0.4 0.8 0.6 0.5 0.5 0.9 0.7 0.6 0.5 1.0 0.8 0.7 0.6	1.1 0.8 0.7 0.6 1.1 0.8 0.7 0.6 1.2 0.9 0.8 0.7 1.2 0.9 0.8 0.7	1.1 0.8 0.7 0.6 1.1 0.8 0.7 0.6 1.2 0.9 0.8 0.7 1.2 0.9 0.8 0.7	1.1 0.9 0.7 0.6 1.1 0.9 0.7 0.6 1.2 1.0 0.9 0.7 1.2 1.0 0.9 0.7	0.9 0.9 0.7 0.6 0.9 0.9 0.7 0.6 1.1 1.1 1.0 0.9 1.1 1.1 1.0 0.9	1.3 1.1 1.1 1.0 1.3 1.1 1.1 1.0 1.4 1.2 1.2 1.1 1.4 1.2 1.2 1.1	1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2
30	5 11 16 22	Drop or rise in m	1.3 2.1 2.4 3.4 2.5 3.7 4.6 6.1 3.7 5.5 6.4 9.2 4.9 7.0 8.2	1.0 1.5 2.3 2.6 2.1 3.1 4.0 5.5 3.4 4.6 5.5 7.3 4.0 6.1 7.0 9.5	0.9 1.3 1.7 2.1 1.8 2.6 3.4 4.6 2.9 4.0 4.9 6.1 3.4 5.2 6.1 8.2	0.8 1.1 1.4 1.8 1.5 2.3 2.8 4.0 2.3 3.4 4.3 5.8 3.1 4.6 5.8 7.0	0.7 1.0 1.3 1.8 1.3 1.8 2.6 3.4 2.0 2.8 3.7 5.2 2.7 3.7 5.2 6.1	0.7 0.9 1.2 1.5 1.4 1.7 2.4 3.4 2.1 2.6 3.7 5.2 2.9 3.4 4.6 6.1	0.7 0.9 0.8 0.6 1.4 1.7 1.5 2.2 2.0 2.8 2.4 3.4 2.7 3.4 3.1 4.2	0.6 0.8 0.6 0.5 1.1 1.5 1.5 2.0 1.7 2.4 2.4 3.0 2.1 3.1 3.1 4.0	0.6 0.8 0.6 0.5 1.1 1.5 1.5 2.0 1.7 2.4 2.4 3.0 2.1 3.1 3.1 4.0
36	5 11 16 22	Residual vel m/s	0.6 0.5 0.4 0.3 0.6 0.5 0.4 0.4 0.7 0.5 0.5 0.4 0.8 0.6 0.5 0.4	0.7 0.5 0.5 0.4 0.8 0.6 0.5 0.4 0.9 0.7 0.6 0.5 1.0 0.8 0.7 0.6	0.9 0.7 0.6 0.5 0.9 0.7 0.6 0.5 1.0 0.8 0.7 0.6 1.1 0.9 0.8 0.7	0.9 0.7 0.6 0.5 0.9 0.7 0.6 0.5 1.0 0.8 0.7 0.6 1.1 0.9 0.8 0.7	0.9 0.8 0.7 0.6 0.9 0.8 0.7 0.6 1.1 1.0 0.9 0.8 1.1 1.0 0.9 0.8	0.9 0.9 0.7 0.6 0.9 0.9 0.7 0.6 1.1 1.1 1.0 0.9 1.1 1.1 1.0 0.9	1.3 1.1 1.1 1.0 1.3 1.1 1.1 1.0 1.4 1.2 1.2 1.1 1.4 1.2 1.2 1.1	1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2

Diffusers

Type HVCA Selection Data											
Rise or drop (metres)	Throw (metres)										
	3	6	9	12	15	18	21	24	27	31	37
0.14	3	2	1								
0.3	6	3	2	1	1	1					
0.5	11	6	4	3	2	2	2				
1.1		11	8	6	5	4	3	3			
1.6		16	10	9	7	6	5	4	4		
2.5		23	16	12	10	9	8	7	5	5	
3		27	18	14	11	10	8	7	6	6	
4.5			27	21	17	14	12	11	9	9	7
5.5				26	21	17	15	14	12	12	10
7.5					26	22	19	16	15	13	11
9						26	22	20	19	16	13
10.5							26	23	20	18	15
12								26	23	21	17
13.5									26	24	20
15										26	22
16.5											24
18											26



Supply air temperature will affect the throw and air jet will need correction to achieve table throw figures.

Example:

From selection table, required throw 15m and air volume 610 l/s, using S4 diffuser @ 11°C gives 2.2m drop/rise, air will need directing up (cooling) 9° or down (heating) 9° (figs by interpolation).

Decrease in Throw (%) Example:

A 5° change of blade angle causes a 10% decrease in throw.

