

SERIES DL

Drum Louvres

PUBLICATION

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Features

- High Capacity.
- Long Throw Air Distribution.
- Full Horizontal & Vertical Adjustment.
- Wide Size Range.
- Full Range of Volume Control Accessories.
- Extruded Aluminium Construction.



GILBERTS

SERIES DL

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Introduction

Gilberts Drum Louvre Series DL is a highly flexible and versatile unit that has been specifically developed to meet the requirements of the long throw application in the air distribution field. Capable of handling high air volumes the Drum Louvre can deliver a powerful stream of air with a wide variety of horizontal and vertical fields of coverage and velocities. This makes the unit ideal for spot cooling or heating applications such as in factories and process areas or for other difficult applications such as large theatres or auditoria.

Manufactured throughout from extruded aluminium the unit consists of a rotating Drum Assembly which rotates through + or - 30° for coverage in the vertical plane. This angular correction allows the rise and fall in the airstream, caused by temperature differentials between supply and room air, to be offset as well as permitting both horizontal or vertical positioning. Individual blades

housed in the drum can be adjusted independently to provide a jet or diffused airflow, reducing the length of throw with a corresponding equal terminal velocity. Attractively designed and styled the unit is available in 8 different sizes catering for volumes up to 2.0 m³/s. Standard accessories include separate volume controllers, which also act as deflectors /airturns or opposed blade dampers fixed directly to the rear of the drum.

Also available as a thermally adjustable unit, to automatically correct rise and fall from temperature differentials. See Series DL-T, part of our **ThermAstute®** range of intelligent diffusers.

TYPE DL: Standard Drum Louvre available in sizes 1 to 8

TYPE DL/DO: Drum Louvre complete with rear mounted, screwdriver operated opposed blade damper.

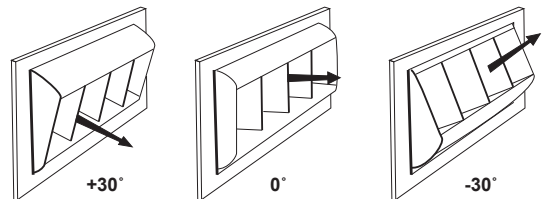
TYPE DL/VCC: Drum Louvre complete with volume controller suitable for concealed ductwork.

TYPE DL/VCE: Drum Louvre complete with volume controller suitable for exposed ductwork.

Standard finish for the Drum Louvre is a polyester powder white with other colours and finish types available on request.

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Performance Data

The performance tables listed in this brochure relate to isothermal heating and cooling applications. Performance figures for throw, pressure drop and also sound data under isothermal conditions can be found in the performance tables on pages 6, 7, 8, and 9. Corresponding figures showing the rise and fall of the jet stream under heating and cooling conditions can be found in the rise and fall charts on pages 10, 11, 12, and 13, with angular corrections indicated on page 14. Vertical performance under heating conditions are given on page 15, with angular variances calculated from figures given on page 16.

Vertical vane adjustment figures indicating percentage reduction in throws are also given on page 14.

References Used

PRESSURE: All pressure are in Pa (N/m²)

THROW: All terminal velocity figures in (m/s) as indicated in the performance charts

SOUND: All figures given in (dbA)

SELECTION PROCEDURE

Dependant upon the Drum Louvres positions worked examples on pages 2 and 16 will guide the designer in the use and selection procedures for either horizontal or vertical applications.



Selection Procedure

HORIZONTAL THROW EXAMPLE (ISOTHERMAL CONDITIONS)

Air volume is $0.425\text{m}^3/\text{s}$ and a throw of 18m is required with a terminal velocity of 0.5m/s . Initially refer to the sizing charts on pages 6, 7, 8 and 9. Using air volume as your primary factor search for the closest air volume to your requirements in the left hand columns of the sizing chart tables. Each table refers to a specific Drum Louvre size (1 to 8) and you may find that more than one size can accommodate your air volume. Throw requirements

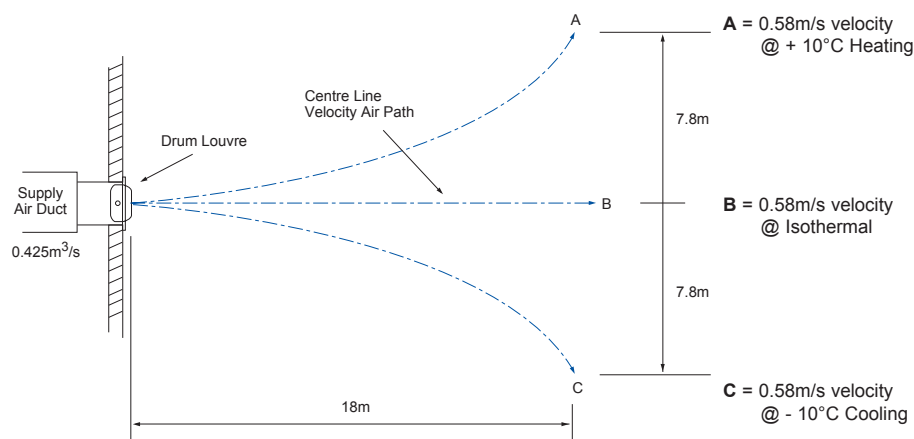
can then be read off on the horizontal axis to reveal the unit with the closest terminal velocity to your needs. In this example size 4 Drum Louvre gives the closest match. At $0.425\text{m}^3/\text{s}$ and an 18m throw the terminal velocity is 0.58m/s . The table also indicates that at this volume the pressure drop will be 50 Pa and the noise level 33 dbA.

HEATING AND COOLING ALLOWANCES

When a temperature difference between supply air and room air exists we can calculate the rise and fall of any airstream.

Using the initial data from our horizontal throw example we can add a temperature differential and determine the effect on performance. For example the effect of a temperature differential of 10°C heating or cooling can be

calculated using our rise and fall charts on pages 10, 11, 12 and 13, (other temp. differentials are also listed). Reviewing our example size 4 Drum Louvre we can see from the Size 4 Rise and Fall chart on page 11 that for an air volume of $0.425\text{m}^3/\text{s}$ at 18m throw and 10°C temp. differential the airstream will rise or fall by 7.8m (see diagram below).



ANGULAR SETTING OF DRUM LOUVRES

Once the throw is established we can use the angular discharge correction chart on page 14 to determine the vertical angular correction required on the drum position to achieve a horizontal throw. In our example at 18m

throw we have a rise/fall effect of 7.8m. The nearest factor available on the chart indicates that a 23° adjustment would correct a 7.2 rise/fall at 18m. From this we can estimate that a 24° angular adjustment would correct to near horizontal throw desired at 18m

VANE SETTING (REDUCTION IN THROW)

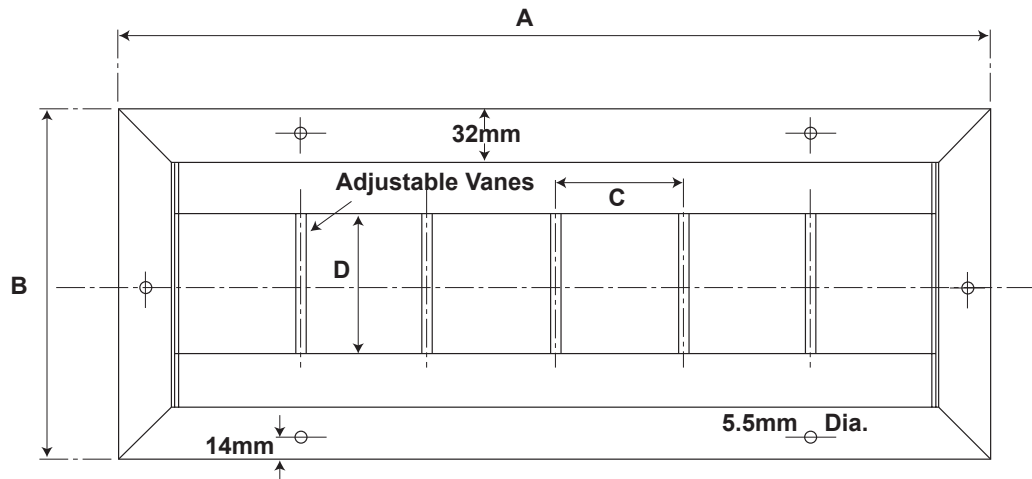
If the throw on the unit size selected is greater than that required, or if a wider jet/spread of air is required we can use the vertical vanes in the Drum Louvre to alter the airstream. The vane adjustment graph on page 16

indicates the percentage decrease in throw for any given angle of vane deflection setting. Again using our example, if we required a 10% reduction in throw down to 16m we would adjust the angle of all vanes by 5° .

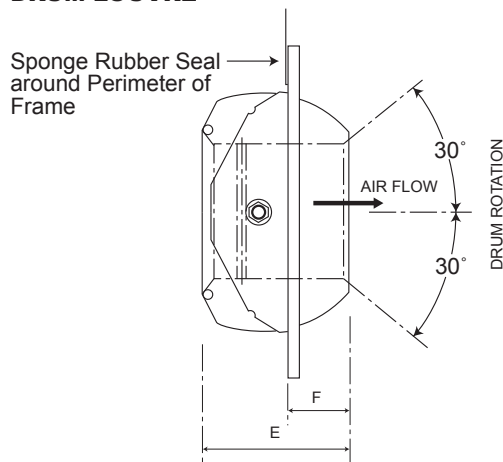
SERIES DL

Drum Louvres

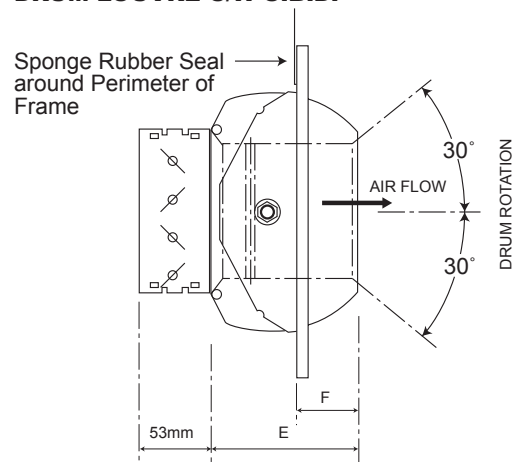
Drum Louvre Dimensions



DRUM LOUVRE



DRUM LOUVRE C/W O.B.D.



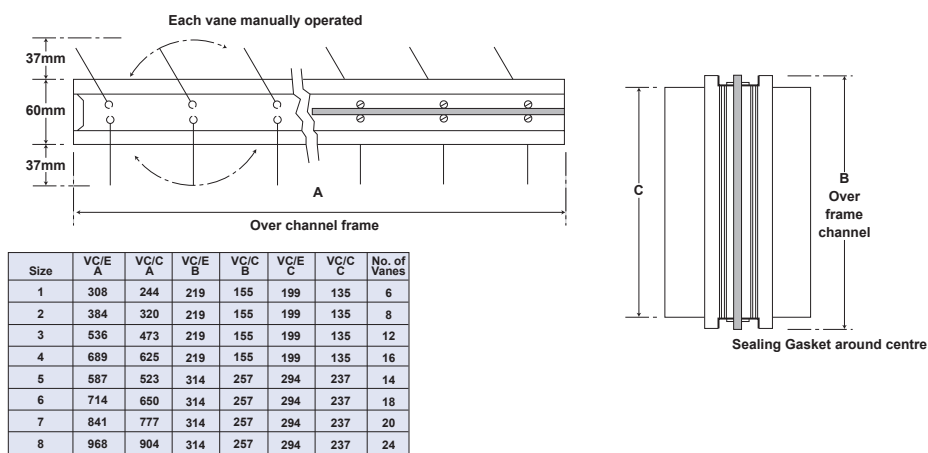
DIMENSIONS (mm)

LIST SIZE	A	B	C	D	E	F	DUCT OPENING	No of Vanes	No of Screws	APPROX WEIGHT kg
1	297	208	76	85	90	35	246 x 157	2	6	1.25
2	373	208	76	85	90	35	322 x 157	3	6	1.59
3	525	208	76	85	90	35	475 x 157	5	10	2.13
4	678	208	76	85	90	35	627 x 157	7	10	2.73
5	576	303	127	150	150	59	525 x 259	3	10	3.89
6	703	303	127	150	150	59	652 x 259	4	10	4.68
7	830	303	127	150	150	59	779 x 259	5	14	5.44
8	957	303	127	150	150	59	907 x 259	6	14	6.44

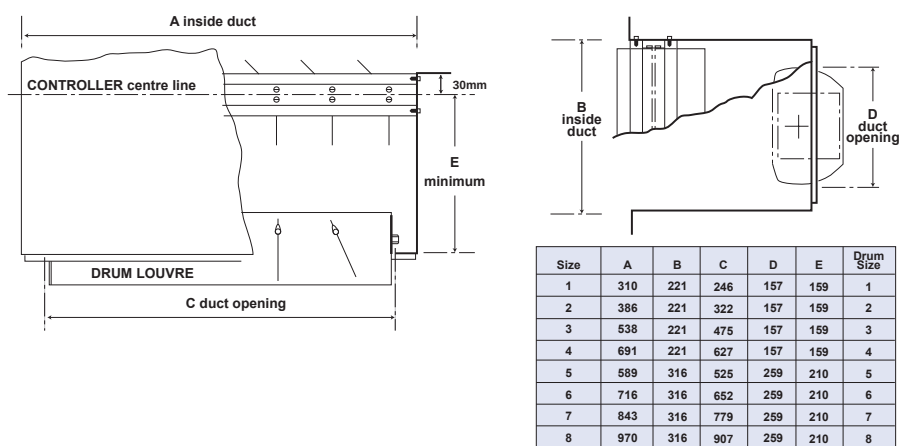


Drum Louvre Dimensions

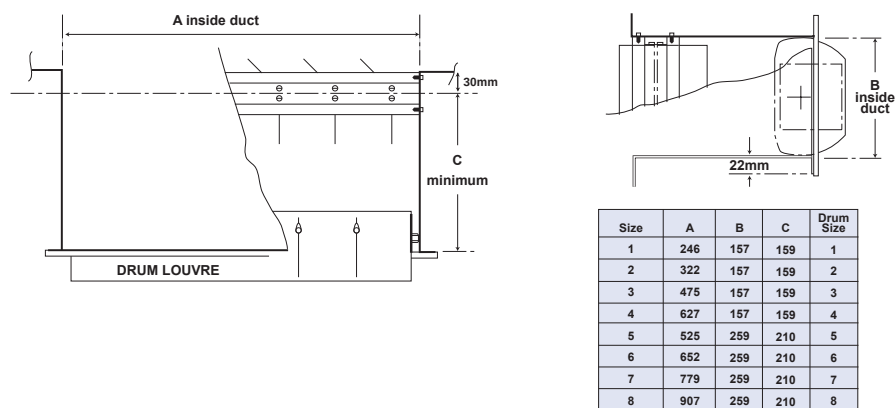
Volume Controller



Volume Controller for Exposed Ductwork ...Ref VCE



Volume Controller for Concealed Ductwork ...Ref VCC

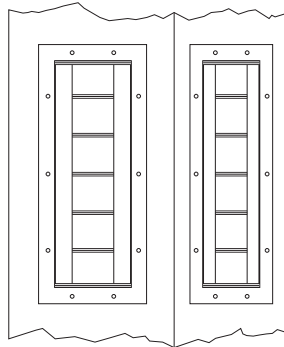


SERIES DL

Drum Louvres

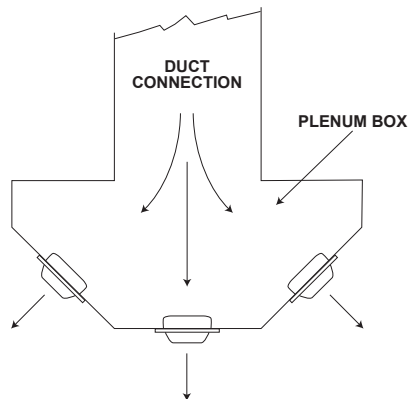
Typical Applications and Installation Guidelines

TYPICAL APPLICATIONS



VERTICAL MOUNTING

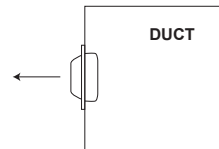
The drum louvre can be adapted to a vertical installation such as a combined decorative pillar and plenum around a structural column.



MULTI-POINT SITUATIONS

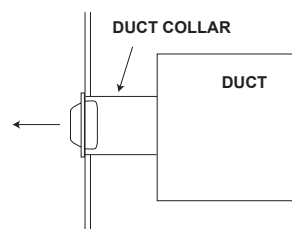
Purpose made plenum boxes can be constructed to accommodate multi-directional requirements.

INSTALLATION GUIDELINES



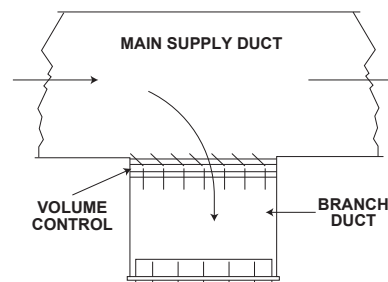
VELOCITIES UP TO 5m/s

The drum louvre can be fixed directly to the ducting using self-tapping screws.



VELOCITIES EXCEEDING 5m/s

In this situation it is recommended that an extension duct collar be fitted to the main ducting.



POSITION REQUIRING VOLUME CONTROL

In many installations it is necessary to use a Volume Controller. This also acts as a Deflectrol, controlling air flow into the branch ducting. Details of our Volume controller can be found on page 5.



Drum Louvre Size 1

Vol in m3/s	Throw in metres								P.S. (Pa)	Sound (dBA)
	3	6	9	12	15	18	21	24		
	Residual Velocity (m/s)									
0.025	0.32	0.18	0.12	-	-	-	-	-	2	-
0.05	0.63	0.35	0.25	0.19	0.14	0.11	-	-	7	-
0.075	0.95	0.53	0.37	0.28	0.22	0.17	0.13	-	14	-
0.1	1.27	0.71	0.49	0.37	0.29	0.23	0.17	0.11	25	22
0.125	1.58	0.88	0.61	0.46	0.36	0.28	0.21	0.13	35	24
0.15	1.89	1.06	0.74	0.55	0.43	0.34	0.25	0.16	45	27
0.175	2.21	1.23	0.86	0.65	0.50	0.40	0.29	0.19	63	31
0.2	2.52	1.41	0.98	0.74	0.57	0.45	0.33	0.22	83	33
0.225	2.84	1.59	1.10	0.83	0.64	0.51	0.37	0.24	100	36
0.25	3.15	1.76	1.23	0.92	0.72	0.56	0.41	0.27	125	38
0.275	3.47	1.94	1.35	1.02	0.79	0.62	0.46	0.30	150	40

Drum Louvre Size 2

Vol in m3/s	Throw in metres								P.S. (Pa)	Sound (dBA)
	3	6	9	12	15	18	21	24		
	Residual Velocity (m/s)									
0.025	0.29	0.16	0.10	-	-	-	-	-	1	-
0.05	0.54	0.30	0.21	0.16	0.12	0.10	-	-	3	-
0.075	0.81	0.46	0.32	0.24	0.19	0.15	0.11	-	5	-
0.1	1.08	0.61	0.42	0.32	0.25	0.20	0.14	-	11	-
0.125	1.35	0.76	0.53	0.40	0.31	0.24	0.18	0.12	18	21
0.15	1.62	0.91	0.64	0.48	0.37	0.29	0.21	0.14	24	23
0.175	1.89	1.06	0.74	0.56	0.43	0.34	0.25	0.16	30	24
0.2	2.16	1.22	0.85	0.64	0.49	0.39	0.29	0.18	40	28
0.225	2.42	1.37	0.95	0.72	0.56	0.44	0.32	0.21	50	30
0.25	2.69	1.52	1.06	0.80	0.62	0.49	0.36	0.23	63	32
0.275	2.96	1.67	1.16	0.88	0.68	0.53	0.39	0.25	75	34
0.3	3.23	1.82	1.27	0.95	0.74	0.58	0.43	0.27	90	36
0.325	3.50	1.98	1.38	1.03	0.80	0.63	0.46	0.30	100	37
0.35	3.77	2.13	1.48	1.11	0.86	0.68	0.50	0.32	120	39
0.375	4.04	2.28	1.59	1.19	0.93	0.73	0.53	0.34	150	42

Drum Louvre Size 3

Vol in	Throw in metres								P.S.	Sound
3	6	9	12	15	18	21	24			
m3/s	Residual Velocity (m/s)								(Pa)	(dBA)
0.075	0.65	0.37	0.26	0.20	0.15	0.12	-	-	3	-
0.1	0.86	0.50	0.35	0.26	0.20	0.16	0.12	-	5	-
0.125	1.08	0.62	0.43	0.33	0.25	0.20	0.15	-	8	-
0.15	1.29	0.75	0.52	0.39	0.30	0.24	0.18	0.11	11	-
0.175	1.51	0.87	0.61	0.46	0.35	0.28	0.20	0.13	15	21
0.2	1.72	1.00	0.69	0.52	0.40	0.32	0.23	0.15	20	23
0.225	1.94	1.12	0.78	0.59	0.45	0.36	0.26	0.17	25	24
0.25	2.15	1.24	0.87	0.65	0.50	0.40	0.29	0.19	30	26
0.275	2.37	1.37	0.95	0.72	0.55	0.44	0.32	0.21	38	29
0.3	2.59	1.49	1.04	0.78	0.60	0.48	0.35	0.22	43	30
0.325	2.80	1.62	1.13	0.84	0.66	0.52	0.38	0.24	50	32
0.35	3.02	1.74	1.21	0.91	0.71	0.55	0.41	0.26	60	33
0.375	3.23	1.87	1.30	0.97	0.76	0.59	0.44	0.28	75	36
0.4	3.45	1.99	1.39	1.04	0.81	0.63	0.47	0.30	79	37
0.425	3.66	2.11	1.47	1.10	0.86	0.67	0.49	0.32	93	38
0.45	3.88	2.24	1.56	1.17	0.91	0.71	0.52	0.34	101	39
0.475	4.09	2.36	1.64	1.23	0.96	0.75	0.55	0.35	112	40
0.5	4.31	2.49	1.73	1.30	1.01	0.79	0.58	0.37	138	42
0.525	4.52	2.61	1.82	1.36	1.06	0.83	0.61	0.39	150	43
0.55	4.74	2.74	1.90	1.43	1.11	0.87	0.64	0.41	163	44

SERIES DL

Drum Louvres

Drum Louvre Size 4

Vol in	Throw in metres								S.P.	Sound
3	6	9	12	15	18	21	24			
m3/s	Residual Velocity (m/s)								(Pa)	(dBA)
0.075	0.55	0.32	0.23	0.17	0.13	0.10	-	-	1	-
0.1	0.73	0.43	0.30	0.23	0.17	0.14	0.10	-	2	-
0.125	0.91	0.54	0.38	0.28	0.22	0.17	0.13	-	4	-
0.15	1.09	0.65	0.45	0.34	0.26	0.21	0.15	0.10	5	-
0.175	1.28	0.76	0.53	0.39	0.31	0.24	0.18	0.11	7	-
0.2	1.46	0.87	0.60	0.45	0.35	0.27	0.20	0.13	10	-
0.225	1.64	0.97	0.68	0.51	0.39	0.31	0.28	0.15	13	20
0.25	1.82	1.08	0.75	0.56	0.44	0.34	0.25	0.16	16	21
0.275	2.00	1.19	0.83	0.62	0.48	0.38	0.28	0.18	19	23
0.3	2.19	1.30	0.90	0.68	0.52	0.41	0.30	0.20	23	24
0.325	2.37	1.41	0.98	0.73	0.57	0.45	0.33	0.21	25	27
0.35	2.55	1.51	1.05	0.79	0.61	0.48	0.35	0.23	35	29
0.375	2.73	1.62	1.13	0.85	0.65	0.51	0.38	0.24	40	31
0.4	2.91	1.73	1.20	0.90	0.70	0.55	0.40	0.26	44	32
0.425	3.10	1.84	1.28	0.96	0.74	0.58	0.43	0.28	50	33
0.45	3.28	1.95	1.35	1.01	0.78	0.62	0.45	0.29	55	34
0.475	3.46	2.06	1.43	1.07	0.83	0.65	0.48	0.31	61	35
0.5	3.64	2.16	1.51	1.13	0.87	0.69	0.50	0.32	70	38
0.525	3.82	2.27	1.58	1.18	0.92	0.72	0.53	0.34	78	38
0.55	4.01	2.38	1.66	1.24	0.96	0.75	0.55	0.36	84	39
0.575	4.18	2.49	1.73	1.30	1.00	0.79	0.58	0.37	90	41

Drum Louvre Size 5

Vol in m3/s	Throw in metres										S.P.	Sound
	3	6	9	12	15	18	21	24	30	36		
	Residual Velocity (m/s)											
0.1	0.62	0.35	0.24	0.18	0.14	0.11	-	-	-	-	2	-
0.15	0.92	0.52	0.36	0.27	0.21	0.17	0.12	-	-	-	4	-
0.2	1.23	0.70	0.49	0.37	0.28	0.22	0.16	0.11	-	-	7	22
0.25	1.54	0.87	0.61	0.46	0.35	0.28	0.20	0.13	-	-	10	24
0.3	1.85	1.04	0.73	0.55	0.43	0.33	0.24	0.16	-	-	14	26
0.35	2.15	1.22	0.85	0.64	0.50	0.39	0.29	0.18	-	-	18	28
0.4	2.46	1.39	0.97	0.73	0.57	0.45	0.33	0.21	-	-	23	29
0.45	2.77	1.57	1.09	0.82	0.64	0.50	0.37	0.23	-	-	29	31
0.5	3.08	1.74	1.21	0.91	0.71	0.56	0.41	0.26	-	-	35	32
0.55	3.38	1.91	1.33	1.00	0.78	0.61	0.45	0.29	-	-	43	34
0.6	3.69	2.09	1.45	1.09	0.85	0.67	0.49	0.31	-	-	50	35
0.65	3.99	2.26	1.58	1.19	0.92	0.72	0.53	0.34	-	-	56	37
0.7	4.31	2.44	1.70	1.28	0.99	0.78	0.57	0.37	-	-	64	38
0.75	4.62	2.61	1.82	1.37	1.06	0.83	0.61	0.39	0.10	-	73	39
0.8	4.92	2.79	1.94	1.46	1.13	0.89	0.65	0.42	0.10	-	81	40
0.85	5.23	2.96	2.06	1.55	1.20	0.95	0.69	0.44	0.11	-	90	41
0.9	5.54	3.13	2.18	1.64	1.28	1.00	0.73	0.47	0.11	-	100	42
0.95	5.85	3.31	2.31	1.74	1.35	1.06	0.77	0.49	0.12	-	112	43
1	6.15	3.48	2.43	1.83	1.42	1.11	0.81	0.52	0.13	-	120	44



Drum Louvre Size 6

Vol in m3/s	Throw in metres										S.P. (Pa)	Sound (dBA)
	3	6	9	12	15	18	21	24	30	36		
	Residual Velocity (m/s)											
0.15	0.80	0.47	0.33	0.25	0.19	0.15	0.11	-	-	-	3	-
0.2	1.07	0.63	0.44	0.33	0.26	0.20	0.15	0.10	-	-	5	-
0.25	1.34	0.78	0.55	0.41	0.32	0.25	0.18	0.12	-	-	7	-
0.3	1.61	0.94	0.66	0.49	0.38	0.30	0.22	0.14	-	-	10	20
0.35	1.88	1.10	0.77	0.58	0.45	0.35	0.26	0.17	-	-	13	23
0.4	2.14	1.25	0.87	0.66	0.51	0.40	0.29	0.19	-	-	16	25
0.45	2.41	1.41	0.98	0.74	0.57	0.45	0.33	0.21	-	-	20	27
0.5	2.68	1.57	1.09	0.82	0.64	0.50	0.37	0.24	-	-	25	28
0.55	2.95	1.72	1.20	0.90	0.70	0.55	0.40	0.26	-	-	29	31
0.6	3.21	1.88	1.31	0.98	0.76	0.60	0.44	0.28	-	-	33	32
0.65	3.48	2.03	1.42	1.07	0.83	0.65	0.48	0.31	-	-	38	33
0.7	3.75	2.19	1.53	1.15	0.89	0.70	0.51	0.33	-	-	44	34
0.75	4.02	2.35	1.64	1.23	0.96	0.75	0.55	0.35	-	-	50	36
0.8	4.29	2.51	1.75	1.31	1.02	0.80	0.59	0.38	-	-	56	37
0.85	4.55	2.66	1.86	1.40	1.08	0.85	0.62	0.40	0.10	-	63	38
0.9	4.82	2.82	1.97	1.48	1.15	0.90	0.66	0.42	0.11	-	70	39
0.95	5.09	2.98	2.08	1.56	1.21	0.95	0.69	0.45	0.11	-	75	39
1	5.36	3.13	2.19	1.64	1.27	1.00	0.73	0.47	0.12	-	84	43
1.05	5.63	3.29	2.30	1.72	1.34	1.05	0.77	0.49	0.12	-	92	45
1.1	5.89	3.45	2.40	1.81	1.40	1.10	0.80	0.52	0.13	-	100	47
1.15	6.16	3.60	2.51	1.89	1.46	1.15	0.84	0.54	0.13	-	110	48
1.2	6.43	3.76	2.62	1.97	1.53	1.20	0.88	0.56	0.14	-	121	49
1.25	6.70	3.91	2.73	2.05	1.59	1.25	0.91	0.58	0.14	-	130	50
1.3	6.96	4.07	2.84	2.13	1.65	1.30	0.95	0.61	0.15	-	141	51

Drum Louvre Size 7

Vol in m3/s	Throw in metres										S.P. (Pa)	Sound (dBA)
	3	6	9	12	15	18	21	24	30	36		
	Residual Velocity (m/s)											
0.15	0.70	0.43	0.30	0.23	0.18	0.14	0.10	-	-	-	2	-
0.2	0.94	0.58	0.40	0.30	0.23	0.18	0.14	-	-	-	3	-
0.25	1.17	0.72	0.50	0.38	0.29	0.23	0.17	0.11	-	-	5	-
0.3	1.41	0.86	0.60	0.45	0.35	0.28	0.20	0.13	-	-	7	21
0.35	1.64	1.00	0.70	0.53	0.41	0.32	0.24	0.15	-	-	9	22
0.4	1.87	1.15	0.80	0.60	0.47	0.37	0.27	0.18	-	-	11	24
0.45	2.11	1.29	0.90	0.68	0.53	0.41	0.30	0.20	-	-	14	26
0.5	2.34	1.44	1.00	0.75	0.58	0.46	0.34	0.22	-	-	18	27
0.55	2.58	1.58	1.11	0.83	0.64	0.51	0.37	0.24	-	-	21	28
0.6	2.81	1.72	1.21	0.91	0.70	0.55	0.41	0.26	-	-	25	29
0.65	3.04	1.87	1.31	0.98	0.76	0.60	0.44	0.28	-	-	28	31
0.7	3.28	2.01	1.41	1.06	0.82	0.64	0.47	0.31	-	-	33	32
0.75	3.51	2.15	1.51	1.13	0.88	0.69	0.51	0.33	-	-	38	34
0.8	3.75	2.30	1.61	1.21	0.94	0.74	0.54	0.35	-	-	42	35
0.85	3.98	2.44	1.71	1.28	0.99	0.78	0.57	0.37	-	-	47	36
0.9	4.22	2.59	1.81	1.36	1.05	0.83	0.61	0.39	0.10	-	52	37
0.95	4.45	2.73	1.91	1.43	1.11	0.87	0.64	0.41	0.11	-	58	38
1	4.69	2.87	2.01	1.51	1.17	0.92	0.67	0.43	0.11	-	63	38
1.05	4.92	3.02	2.11	1.58	1.23	0.96	0.71	0.46	0.12	-	69	39
1.1	5.15	3.16	2.21	1.66	1.29	1.01	0.74	0.48	0.12	-	75	40
1.15	5.39	3.30	2.31	1.74	1.34	1.06	0.77	0.50	0.13	-	72	41
1.2	5.62	3.45	2.41	1.81	1.40	1.10	0.81	0.52	0.13	-	80	42
1.25	5.86	3.59	2.51	1.89	1.46	1.15	0.84	0.54	0.14	-	85	43
1.3	6.09	3.73	2.61	1.96	1.52	1.19	0.87	0.56	0.14	-	93	44
1.35	6.32	3.88	2.71	2.04	1.58	1.24	0.91	0.58	0.15	-	105	45
1.4	6.56	4.02	2.81	2.11	1.64	1.28	0.94	0.61	0.15	-	117	46
1.45	6.79	4.16	2.91	2.19	1.69	1.33	0.97	0.63	0.16	-	120	47
1.5	7.03	4.31	3.01	2.26	1.75	1.38	1.01	0.65	0.16	-	130	47
1.55	7.26	4.45	3.12	2.34	1.81	1.42	1.04	0.67	0.17	-	135	48
1.6	7.5	4.59	3.22	2.41	1.87	1.47	1.08	0.69	0.17	-	150	49
1.65	7.73	4.74	3.32	2.49	1.93	1.51	1.11	0.71	0.18	-	160	49

SERIES DL

Drum Louvres

Drum Louvre Size 8

Vol in m3/s	Throw in metres										S.P. (Pa)	Sound (dBA)
	3	6	9	12	15	18	21	24	30	36		
	Residual Velocity (m/s)											
0.200	0.82	0.53	0.38	0.28	0.22	0.17	0.13	-	-	-	2	-
0.250	1.03	0.66	0.47	0.35	0.27	0.22	0.16	0.10	-	-	3	-
0.300	1.23	0.80	0.56	0.42	0.33	0.26	0.19	0.12	-	-	4	20
0.350	1.44	0.93	0.66	0.49	0.38	0.30	0.22	0.14	-	-	5	22
0.400	1.64	1.06	0.75	0.56	0.44	0.34	0.25	0.16	-	-	7	23
0.450	1.85	1.20	0.84	0.63	0.49	0.39	0.28	0.18	0.10	-	9	25
0.500	2.05	1.33	0.94	0.70	0.54	0.43	0.32	0.21	0.11	-	11	26
0.550	2.26	1.46	1.03	0.77	0.60	0.47	0.35	0.23	0.12	-	13	26
0.600	2.47	1.59	1.12	0.84	0.65	0.51	0.38	0.25	0.13	-	16	27
0.650	2.67	1.73	1.22	0.91	0.71	0.56	0.41	0.27	0.15	-	19	29
0.700	2.88	1.86	1.31	0.98	0.76	0.60	0.44	0.29	0.16	-	22	30
0.750	3.08	1.99	1.41	1.06	0.82	0.64	0.47	0.31	0.17	-	25	31
0.800	3.29	2.13	1.50	1.13	0.87	0.69	0.50	0.33	0.18	-	28	32
0.850	3.49	2.26	1.59	1.20	0.93	0.73	0.54	0.35	0.19	-	33	33
0.900	3.69	2.39	1.69	1.27	0.98	0.77	0.57	0.37	0.20	0.10	36	34
0.950	3.90	2.52	1.78	1.34	1.03	0.81	0.60	0.39	0.21	0.10	38	35
1.000	4.11	2.66	1.87	1.41	1.09	0.86	0.63	0.41	0.22	0.11	44	36
1.050	4.31	2.79	1.96	1.48	1.14	0.90	0.66	0.43	0.23	0.11	48	36
1.100	4.52	2.92	2.06	1.55	1.20	0.94	0.69	0.45	0.25	0.12	53	37
1.150	4.73	3.05	2.15	1.62	1.25	0.98	0.72	0.47	0.26	0.12	59	38
1.200	4.93	3.19	2.25	1.69	1.31	1.03	0.75	0.49	0.27	0.13	62	39
1.250	5.14	3.32	2.34	1.76	1.36	1.07	0.79	0.51	0.28	0.13	68	40
1.300	5.34	3.45	2.44	1.83	1.41	1.11	0.82	0.53	0.29	0.13	73	41
1.350	5.55	3.59	2.53	1.90	1.47	1.15	0.85	0.55	0.30	0.14	79	42
1.400	5.75	3.72	2.62	1.97	1.52	1.20	0.88	0.57	0.31	0.14	86	43
1.450	5.96	3.85	2.72	2.04	1.58	1.24	0.91	0.59	0.32	0.15	92	43
1.500	6.16	3.98	2.81	2.11	1.63	1.28	0.94	0.61	0.33	0.15	98	44
1.550	6.37	4.12	2.90	2.18	1.69	1.32	0.97	0.63	0.34	0.16	104	45
1.600	6.57	4.25	3.00	2.25	1.74	1.37	1.00	0.65	0.35	0.16	108	45
1.650	6.78	4.38	3.09	2.32	1.79	1.41	1.04	0.67	0.36	0.17	115	46
1.700	6.98	4.51	3.18	2.39	1.85	1.45	1.07	0.69	0.38	0.17	125	47
1.750	7.19	4.64	3.28	2.46	1.90	1.50	1.10	0.71	0.39	0.18	132	48
1.800	7.40	4.78	3.37	2.53	1.96	1.54	1.13	0.73	0.40	0.18	140	49
1.850	7.60	4.91	3.46	2.60	2.01	1.58	1.16	0.75	0.41	0.19	145	50
1.900	7.80	5.04	3.56	2.67	2.07	1.62	1.19	0.77	0.42	0.19	155	51
1.950	8.01	5.18	3.65	2.74	2.12	1.66	1.22	0.79	0.43	0.20	165	52
2.000	8.22	5.31	3.74	2.81	2.17	1.71	1.26	0.81	0.44	0.20	172	52



UNIT SIZE 1

VOLUME m³/s	TEMP DIFF °C	THROW METRES	3	6	9	12	15	18	21
0.025	5	RISE	2360						
	10	OR	5680						
	15	FALL	8800						
0.05	5	RISE	320	2970					
	10	OR	840	7650					
	15	FALL	1550						
0.075	5	RISE	130	1100	3980	8260			
	10	OR	340	2620	8300				
	15	FALL	540	4500					
0.1	5	RISE	90	540	1920	4560	7720		
	10	OR	150	1410	4540				
	15	FALL	310	2220	7690				
0.125	5	RISE	60	390	1200	3000	5400	9000	
	10	OR	120	570	2400	5400			
	15	FALL	180	1200	3900				
0.15	5	RISE	30	300	900	2400	4500	6900	
	10	OR	90	600	1800	4200	6900		
	15	FALL	120	900	3000	6600			
0.175	5	RISE	30	210	750	1800	3300	5700	8700
	10	OR	60	450	1200	3000	5400	8100	
	15	FALL	90	600	2700	5100			
0.2	5	RISE	30	150	510	1200	2400	4200	5700
	10	OR	60	300	750	2250	3900	6600	9300
	15	FALL	60	450	1800	3600	6600		
0.225	5	RISE	0	120	420	1050	1950	3600	5400
	10	OR	30	270	810	1800	3300	5700	7800
	15	FALL	60	300	1410	3000	5400	9300	
0.25	5	RISE	0	90	330	810	1560	2700	4500
	10	OR	30	210	690	1500	2700	5400	6600
	15	FALL	30	300	1050	2550	4800	7500	
0.275	5	RISE	0	90	270	660	1260	2160	3600
	10	OR	30	150	540	1200	2250	3900	5400
	15	FALL	30	180	810	2100	3900	6000	9300

UNIT SIZE 2

VOLUME m³/s	TEMP DIFF °C	THROW METRES	3	6	9	12	15	18	21
0.075	5	RISE	300	1950	7050				
	10	OR	550	5130					
	15	FALL	1050	8030					
0.1	5	RISE	130	1000	3250	7550			
	10	OR	320	2450	7800				
	15	FALL	540	4000					
0.125	5	RISE	110	530	1870	4700	7850		
	10	OR	210	1300	4770				
	15	FALL	300	2200	7710				
0.15	5	RISE	90	330	580	2870	5600	8300	
	10	OR	180	800	2790	7050			
	15	FALL	220	1300	4880				
0.175	5	RISE	110	550	850	1800	3450	6050	
	10	OR	170	1050	1960	4600	8470		
	15	FALL	210	1300	3100	7650			
0.2	5	RISE	30	300	990	2400	4500	7200	
	10	OR	90	600	1890	4500			
	15	FALL	120	900	3000	6300			
0.225	5	RISE	30	210	780	1800	3600	5700	8700
	10	OR	60	450	1560	3600	6300		
	15	FALL	90	750	2340	5400			
0.25	5	RISE	30	180	630	1500	2850	4800	7200
	10	OR	60	450	1200	3000	5400	8400	
	15	FALL	60	600	1920	4200	7500		
0.275	5	RISE	0	150	510	1200	2400	3900	6000
	10	OR	30	300	1550	3600	4800	7500	
	15	FALL	60	450	2100	6300			
0.3	5	RISE	0	120	600	990	1920	3300	5400
	10	OR	30	270	900	1650	3900	6000	8300
	15	FALL	60	450	1290	2760	5400	8700	
0.325	5	RISE	0	120	360	840	1650	3000	4500
	10	OR	30	210	750	1800	3300	5700	8400
	15	FALL	30	330	1110	2550	4800	7800	
0.35	5	RISE	0	90	330	750	1440	2250	3900
	10	OR	30	180	510	1500	3000	5100	7500
	15	FALL	30	270	960	2220	4200	6600	9900
0.375	5	RISE	0	60	240	570	1110	1950	3000
	10	OR	0	150	510	1200	2250	3900	6000
	15	FALL	30	210	750	1710	3300	5700	8400

SERIES DL

Drum Louvres

Drum Louvre
Rise & Fall
Charts

UNIT SIZE 3

VOLUME m³/s	TEMP DIFF °C	THROW METRES	3	6	9	12	15	18	21	24
0.075	5	RISE	550	4700	8850					
	10	OR	3900							
	15	FALL	5950							
0.1	5	RISE	320	2160	7570					
	10	OR	1600	7940						
	15	FALL	2780							
0.125	5	RISE	140	1250	4350	7900				
	10	OR	770	5730						
	15	FALL	1590	7900						
0.150	5	RISE	110	870	2520	6450	8450			
	10	OR	540	3700	8300					
	15	FALL	1030	6100						
0.175	5	RISE	90	510	1680	4280	7700			
	10	OR	310	2450	7920					
	15	FALL	530	3880	8800					
0.2	5	RISE	60	390	1350	3300	5400	9300		
	10	OR	120	780	2700	5400				
	15	FALL	150	1200	4200					
0.225	5	RISE	60	360	1200	2940	5400	8400		
	10	OR	90	720	2400	5400				
	15	FALL	150	1110	3600					
0.25	5	RISE	30	330	1110	2700	4800	7200		
	10	OR	90	690	2100	4800	8100			
	15	FALL	120	990	3300	6600				
0.275	5	RISE	30	240	810	1950	3900	6000	9300	
	10	OR	60	480	1650	3600	6600			
	15	FALL	90	750	2400	5400				
0.3	5	RISE	30	210	690	1800	3600	5400	8100	
	10	OR	60	420	1410	3300	6000	6200		
	15	FALL	90	660	2220	5100				
0.35	5	RISE	0	150	510	1200	2400	3900	6000	
	10	OR	30	300	1020	2280	4500	6900		
	15	FALL	60	450	1500	3600	6300			
0.4	5	RISE	0	90	300	720	1410	2460	3900	
	10	OR	0	180	630	1380	2820	4800	6900	
	15	FALL	30	270	900	2160	4200	6900		
0.45	5	RISE	0	60	240	570	1170	1980	3300	
	10	OR	0	150	510	1200	2280	2900	5700	
	15	FALL	30	210	750	1680	3600	5700	8400	
0.55	5	RISE		60	150	360	750	1290	2070	3000
	10	OR		90	300	780	1530	2700	4200	6000
	15	FALL		180	660	1590	3060	4200	6000	8700

UNIT SIZE 4

VOLUME m³/s	TEMP DIFF °C	THROW METRES	3	6	9	12	15	18	21	24
0.075	5	RISE	1300	8400						
	10	OR	3440							
	15	FALL	5930							
0.125	5	RISE	310	2150	7450					
	10	OR	780	5800						
	15	FALL	1600	7950						
0.175	5	RISE	130	1020	3550	7400				
	10	OR	320	2170	7500					
	15	FALL	520	4520	8650					
0.225	5	RISE	110	520	1850	4100	7460			
	10	OR	200	1310	4700	7880				
	15	FALL	320	2100	7650					
0.275	5	RISE	80	280	930	2440	4800	7600		
	10	OR	120	760	2680	6350	8430			
	15	FALL	200	1270	4320	8150				
0.3	5	RISE	60	390	1260	3000	5700	8400		
	10	OR	90	750	2400	6000				
	15	FALL	150	1110	3900					
0.325	5	RISE	60	330	1080	2580	5100	7500		
	10	OR	90	680	2160	5100				
	15	FALL	120	1020	3300					
0.35	5	RISE	30	270	810	1980	3900	6000	9000	
	10	OR	60	450	1650	3900	6900			
	15	FALL	90	750	2460	6000				
0.375	5	RISE	30	210	720	1710	3300	5700	8100	
	10	OR	60	420	1410	3300	6000	9600		
	15	FALL	90	660	2250	5400				
0.425	5	RISE	30	180	570	1350	2700	4500	6600	
	10	OR	60	330	1110	2700	5100	7800		
	15	FALL	90	510	1800	3900	7800			
0.475	5	RISE	0	150	480	1110	2250	3600	5700	
	10	OR	30	270	960	2160	4200	6600		
	15	FALL	60	420	1410	3300	6300			
0.5	5	RISE		120	360	840	1650	2850	4500	6000
	10	OR		210	720	1580	3120	5040	7800	
	15	FALL		330	1050	2160	4260	6480		
0.55	5	RISE		90	270	660	1320	2160	3450	5100
	10	OR		180	540	1080	2160	3450	5100	8700
	15	FALL		270	810	1620	3240	4950	7350	



UNIT SIZE 5

VOLUME m³/s	TEMP DIFF °C	THROW METRES	3	6	9	12	15	18	21	24	27
0.1	5	RISE	1310	7580							
	10	OR	3100								
	15	FALL	5100								
0.15	5	RISE	350	3080	8400						
	10	OR	1050	6980							
	15	FALL	1890	8290							
0.2	5	RISE	160	1300	4800	8300					
	10	OR	560	3560	8320						
	15	FALL	790	5920							
0.25	5	RISE	120	810	2800	6750	8600				
	10	OR	340	2000	7100						
	15	FALL	450	3100	8310						
0.3	5	RISE	80	550	1710	4080	7720	8800			
	10	OR	150	1330	4100	7800					
	15	FALL	290	1880	7210						
0.35	5	RISE	80	340	1010	2600	5250	7930			
	10	OR	80	800	2750	6830	8480				
	15	FALL	170	1340	5000	8240					
0.4	5	RISE	550	280	840	1900	3800	6050			
	10	OR	550	960	1750	4650	8100				
	15	FALL	140	220	3410	7560					
0.475	5	RISE	30	220	720	1800	3300	6000	8700		
	10	OR	60	390	1380	3300	6300				
	15	FALL	60	600	2220	5400					
0.55	5	RISE	150	150	510	1200	2400	4200	6300	9300	
	10	OR	270	270	960	2400	4800	8100			
	15	FALL	360	360	1470	3900	6900				
0.6	5	RISE	120	120	450	1080	2160	3600	5700	8400	
	10	OR	240	240	900	2190	4200	7200			
	15	FALL	450	450	1350	3300	6000				
0.65	5	RISE	120	120	360	900	1800	3300	5100	7200	
	10	OR	210	210	720	1800	3600	6000	9600		
	15	FALL	330	330	1110	2820	5400	9300			
0.75	5	RISE	90	90	300	720	1410	2400	3900	5700	
	10	OR	150	150	540	1410	2820	4800	7800		
	15	FALL	240	240	870	2100	4200	7200			
0.85	5	RISE	60	60	240	570	1110	1920	3000	4500	
	10	OR	120	120	450	1110	2250	3900	6000	8700	
	15	FALL	180	180	690	1680	3300	5400	8400		
0.95	5	RISE	270	270	960	2220	4200	6900	2550	3600	5100
	10	OR			180	450	900	1530	2550	3600	5100
	15	FALL			360	900	1800	3000	4500	6000	8700

UNIT SIZE 6

VOLUME m³/s	TEMP DIFF °C	THROW METRES	6	9	12	15	18	21	24	27	30
0.15	5	RISE	4920								
	10	OR	8300								
	15	FALL									
0.2	5	RISE	2220	6650							
	10	OR	6050								
	15	FALL	7850								
0.25	5	RISE	1320	4390	8280						
	10	OR	3000	7700							
	15	FALL	3400	8000							
0.3	5	RISE	800	2750	6500	8450					
	10	OR	3150	7900							
	15	FALL	3800	8480							
0.35	5	RISE	1900	1900	4350	7550	9500				
	10	OR	1900	6000	8850						
	15	FALL	2300	7300							
0.4	5	RISE	380	1200	2950	6000	8350				
	10	OR	880	3200	7150	9100					
	15	FALL	1650	5750	8400						
0.45	5	RISE	330	1050	2150	4250	6800				
	10	OR	800	2400	5550	8150					
	15	FALL	1100	4100	8000						
0.5	5	RISE	240	810	1950	3900	6300	9900			
	10	OR	450	1650	3900	7500					
	15	FALL	690	2400	6000						
0.55	5	RISE	210	750	1800	3600	5700	8400			
	10	OR	420	1500	3600	6000					
	15	FALL	600	2100	5100						
0.65	5	RISE	150	540	1320	2700	4500	6900			
	10	OR	330	1080	2700	5400	8400				
	15	FALL	480	1650	3900	7500					
0.75	5	RISE	120	420	1050	2100	3600	5700	7800		
	10	OR	240	810	2100	4200	6600				
	15	FALL	360	1260	3000	6000					
0.95	5	RISE	510	1800	4200	7800					
	10	OR	510	510	1260	2460	4500	6900	9300		
	15	FALL	750	2100	3600	6000	9600				
1.1	5	RISE	420	1500	3600	6000	8100	10000	12000	14000	
	10	OR	420	420	1080	2160	3600	5400	8100	10000	
	15	FALL	690	1620	3000	5400	8100	10000	12000	14000	
1.2	5	RISE	360	1350	3000	5400	8100	10000	12000	14000	
	10	OR	360	360	900	1800	2700	3600	4500	5400	6300
	15	FALL	540	1620	3000	5400	8100	10000	12000	14000	
1.3	5	RISE	300	1050	2400	4200	6000	8400	10800	13200	15600
	10	OR	300	300	750	1500	2250	3000	3750	4500	5250
	15	FALL	450	1350	3000	5400	8100	10800	13200	15600	

SERIES DL

Drum Louvres

Drum Louvre
Rise & Fall
Charts

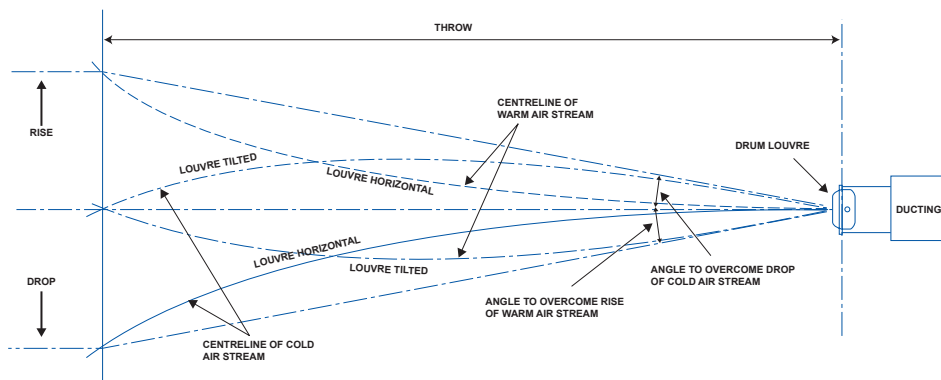
UNIT SIZE 8

VOLUME m³/s	TEMP DIFF °C	THROW METRES	6	9	12	15	18	21	24	27	30
0.25	5	RISE	2600	7700							
	10	OR	6470								
	15	FALL	8480								
0.35	5	RISE	1050	3700	7750						
	10	OR	2800	7920							
	15	FALL	4850								
0.45	5	RISE	570	1900	4400	7600					
	10	OR	1350	4670							
	15	FALL	2590	7600							
0.55	5	RISE	390	1150	2450	5150	7600				
	10	OR	780	2800	6550						
	15	FALL	1350	4720	8350						
0.65	5	RISE	235	895	1720	3560	5930				
	10	OR	560	1740	4050	7500					
	15	FALL	1020	3210	6670	8620					
0.75	5	RISE	210	720	1650	3300	5700	8400			
	10	OR	390	1410	3300	6300					
	15	FALL	660	2100	5100						
0.85	5	RISE	180	540	1350	2550	4200	6300	9600		
	10	OR	300	1080	2840	5100	8100				
	15	FALL	450	1590	3900	7200					
0.95	5	RISE		450	1110	2220	3900	6000	8400		
	10	OR		900	2250	4500	7200				
	15	FALL		1410	3600	6300					
1.1	5	RISE		300	750	1500	2550	4200	6000	8100	
	10	OR		600	1500	3000	5400	7800			
	15	FALL		900	2100	4500	7200				
1.2	5	RISE		240	600	1200	2100	3300	5100	6900	9300
	10	OR		510	1260	2460	4500	6600	9300		
	15	FALL		660	1980	3600	6000	8400			
1.3	5	RISE		240	540	1050	1800	3000	4500	6000	8100
	10	OR		450	1080	2100	3900	6000	8700		
	15	FALL		690	1650	3300	5700	8400			
1.4	5	RISE		210	480	990	1740	2700	3900	5400	7200
	10	OR		390	990	1980	3300	5100	7200		
	15	FALL		630	1500	3000	5100	7500			
1.6	5	RISE		150	360	690	1200	1920	2850	3900	5400
	10	OR		270	660	1350	2400	3900	5700	7800	
	15	FALL		330	810	1650	3000	4500	6900	9900	
1.9	5	RISE		120	270	510	870	1500	2250	3300	4200
	10	OR		230	480	990	1710	2820	4500	6000	8100
	15	FALL		330	810	1650	3300	5700	8700		

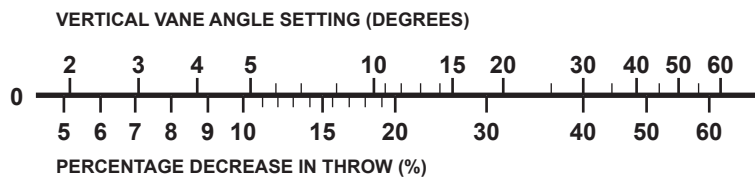
UNIT SIZE 7

VOLUME m³/s	TEMP DIFF °C	THROW METRES	6	9	12	15	18	21	24	27	30
0.15	5	RISE	8600								
	10	OR									
	15	FALL									
0.25	5	RISE	2740	8040							
	10	OR	6700								
	15	FALL	8400								
0.35	5	RISE	1070	3900	7600						
	10	OR	2700	7850							
	15	FALL	4400								
0.45	5	RISE	530	1900	4500	8000					
	10	OR	1550	4700							
	15	FALL	2480	7470							
0.55	5	RISE	300	1040	2420	4800	7470				
	10	OR	800	2800	6320						
	15	FALL	1400	4820	8400						
0.65	5	RISE	210	750	1800	3300	5700	8100			
	10	OR	420	1470	3600	6300					
	15	FALL	720	2100	5100						
0.75	5	RISE	150	480	1200	2400	4200	6000	9000		
	10	OR	300	960	2400	4800	7500				
	15	FALL	420	1500	3600	6900					
0.85	5	RISE	120	420	1020	1950	3300	5400	7500		
	10	OR	240	840	2040	3900	6300	9900			
	15	FALL	360	1260	2900	5700	9300				
0.95	5	RISE		330	810	1650	2700	4500	6000	8700	
	10	OR		660	1560	3000	5400	8100			
	15	FALL		990	2400	4800	7500				
1.1	5	RISE		240	570	1080	2220	3000	4500	6000	8100
	10	OR		450	1080	2160	3900	5700	8400		
	15	FALL		690	1650	3300	5400	8400			
1.2	5	RISE		210	480	960	1650	2640	3900	5700	7200
	10	OR		390	960	1950	3300	5100	7200		
	15	FALL		600	1470	2940	4800	7500			
1.3	5	RISE		150	420	810	1350	2160	3300	4800	6000
	10	OR		330	780	1560	2760	4500	6300	9000	
	15	FALL		480	1200	2400	4200	6300	9300		
1.4	5	RISE		150	360	690	1260	1980	3000	4500	5700
	10	OR		300	720	1410	2520	3900	5700	8100	
	15	FALL		450	1050	2100	3600	6000	8100		
1.6	5	RISE		90	240	480	840	1350	2040	2850	4050
	10	OR		180	480	960	1650	2700	4200	5700	7500
	15	FALL		300	750	1500	2580	3900	6000	8100	

Angular Discharge Correction Chart

[illegible]

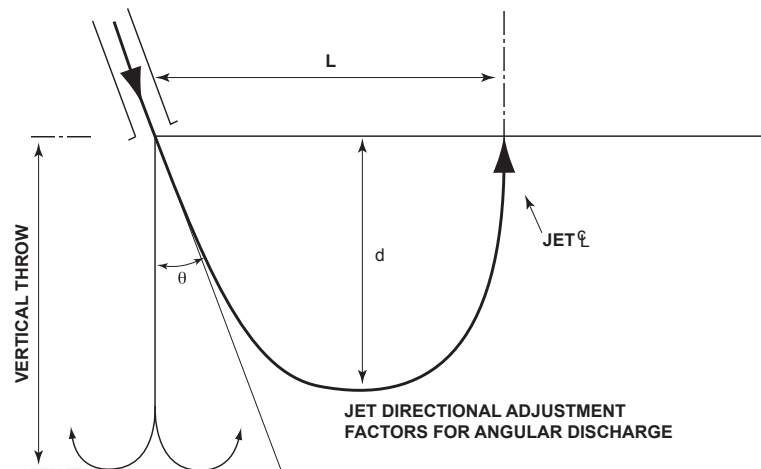
Vane Adjustment



EXAMPLE: A 5° DEGREE CHANGE OF BLADE ANGLE CAUSES A 10% DECREASE IN THROW.



Correctional Figures for Angular Variance to Vertical Performance



Take Maximum Throw (T_M) from Tables

Hence, $d = K_1 T_M$

$L = K_2 T_M$

θ°	K_1	K_2
0 -10	1.00	0.00
11 -20	0.98	0.45
21 -30	0.91	0.86
31 -40	0.81	1.21
41 -50	0.67	1.28
51 -60	0.52	1.60
61 -70	0.35	1.59
71 -80	0.20	1.43
81 -90	0.07	1.07

VERTICAL THROW EXAMPLE (ISOTHERMAL CONDITIONS)

Select and size Drum Louvre from sizing charts on pages 7 to 10 in accordance with the first part of the selection procedure on pages 2 and 3.

VERTICAL THROW (HEATING)

A requirement for 10°C heating is required at a volume of $0.4 \text{ M}^3/\text{s}$ to throw vertically to floor level 10m away.

To select a Drum Louvre size we simply view our table on page 17.

Reviewing $\Delta t = 10^\circ\text{C}$ chart with a volume of $0.4 \text{ m}^3/\text{s}$ gives a size 4 drum louvre selection to give a 10m throw to 0.1 m/s terminal velocity. Therefore a size DL/4 unit should be selected.

VERTICAL THROW ANGULAR ADJUSTMENT (HEATING)

All previous data has assumed a direct vertical discharge, although we can calculate a throw pattern for an angular discharge using our table above.

Using the previous data of $+10^\circ\text{C}$ Δt and $0.4 \text{ m}^3/\text{s}$ we can calculate the new air path by using the listed formulas, assuming a 30° angle, by using the formula stated.

Discharge at 30° off set from vertical

$$d = K_1 \times T_M, \quad d = 0.91 \times 10\text{m}, \quad d = 9.1\text{m vertical}$$

$$L = K_2 \times T_M, \quad L = 0.86 \times 10\text{m}, \quad L = 8.6\text{m horizontal}$$



Drum Louvre

Vertical Performance Under Heating Conditions

(this data is for reference
only with throws shown to
0.1m/s terminal velocity)

$\Delta T = 5^{\circ}\text{C}$

Q (m³/s)	Maximum Throw (m)							
	2.5	5	7.5	10	15	20	25	30
0.05	3							
0.10	5	3	2	1				
0.15	8	4	3	2	1			
0.20		5	6	4	2	1		
0.30		8	7	5	4	2	1	
0.40			8	7	6	4	3	2
0.60				8	7	6	4	3
0.80					8	7	6	5
1.00						8	7	6
1.50	DRUM LOUVRE SIZE							8
2.00								
3.00								
4.00								

$\Delta T = 10^{\circ}\text{C}$

Q (m³/s)	Maximum Throw (m)							
	2.5	5	7.5	10	15	20	25	30
0.05								
0.10	4							
0.15	6	3	2					
0.20	7	4	3	2				
0.30		6	5	3	2			
0.40		8	6	4	3	2		
0.60			8	6	5	4	3	2
0.80				8	6	5	4	3
1.00					8	6	5	4
1.50	DRUM LOUVRE SIZE					8	6	5
2.00							8	7
3.00								
4.00								

$\Delta T = 15^{\circ}\text{C}$

Q (m³/s)	Maximum Throw (m)							
	2.5	5	7.5	10	15	20	25	30
0.05	1							
0.10	3	1						
0.15	5	2	1					
0.20	6	4	2	1				
0.30		5	4	3	1			
0.40		7	5	4	2	1		
0.60			7	5	4	3	2	1
0.80				7	5	4	3	2
1.00					7	5	4	3
1.50	DRUM LOUVRE SIZE					7	5	4
2.00							8	6
3.00								
4.00								

$\Delta T = 20^{\circ}\text{C}$

Q (m³/s)	Maximum Throw (m)							
	2.5	5	7.5	10	15	20	25	30
0.05								
0.10	3							
0.15	4	1						
0.20	5	3	2	1				
0.30	8	4	3	2				
0.40		5	4	3	1			
0.60			6	4	3	2		
0.80			8	6	4	3	2	1
1.00				8	5	4	3	2
1.50	DRUM LOUVRE SIZE				8	6	5	4
2.00						8	6	5
3.00								
4.00								

$\Delta T = 30^{\circ}\text{C}$

Q (m³/s)	Maximum Throw (m)							
	2.5	5	7.5	10	15	20	25	30
0.05								
0.10	2							
0.15	3	1						
0.20	4	2	1					
0.30	7	4	3	1				
0.40		5	4	3	1			
0.60		7	5	3	2			
0.80			7	5	4	3	2	1
1.00			8	6	5	4	3	2
1.50	DRUM LOUVRE SIZE				6	5	4	3
2.00					8	6	5	4
3.00							8	7
4.00								

$\Delta T = 40^{\circ}\text{C}$

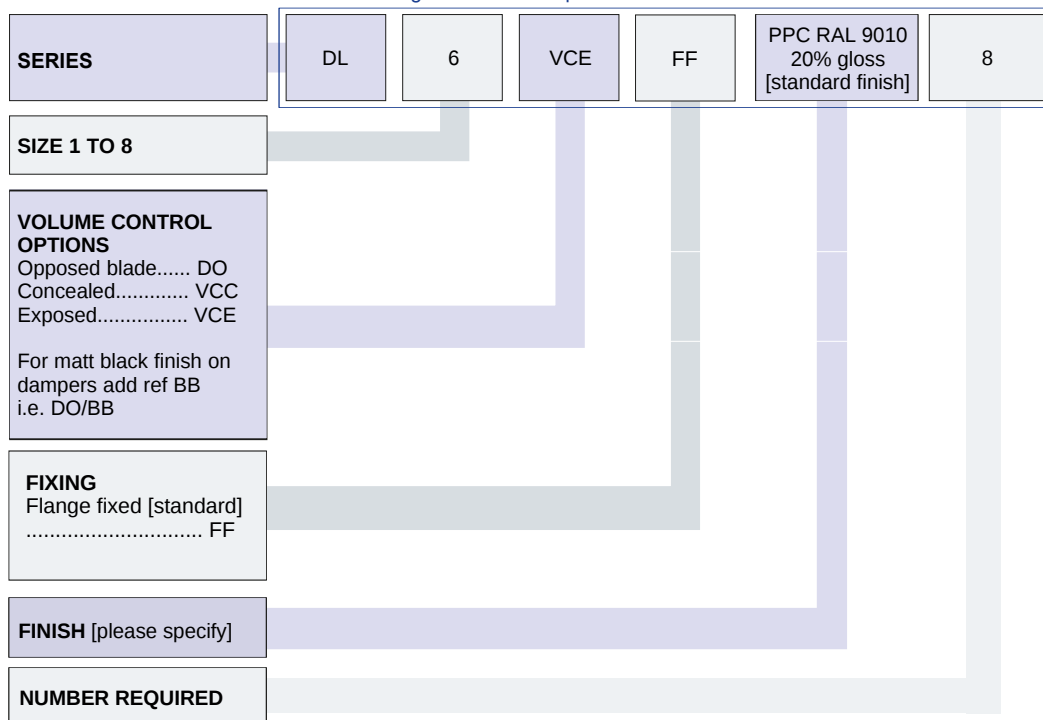
Q (m³/s)	Maximum Throw (m)							
	2.5	5	7.5	10	15	20	25	30
0.05								
0.10	1							
0.15	2	1						
0.20	4	2						
0.30	5	3	2	1				
0.40		4	3	2				
0.60		6	4	3	2	1		
0.80		8	6	4	3	2		
1.00			7	5	4	3	2	1
1.50	DRUM LOUVRE SIZE			8	5	4	3	2
2.00					8	5	4	3
3.00						8	7	5
4.00								7

SERIES DL

Drum Louvres

Ordering Specification

Customer string selection example:



Finish

Standard Finish: Polyester Powder Coat White RAL 9010 20% Gloss.

Special Finishes: PPC to Stock BS or RAL colour.

Fixing

Standard flange screw fixing using self tapping screws.

Thermal Adjustment

See Series DL-T for thermally actuated option.

GILBERTS

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