

Cylinder Jet Diffuser

Model CJD

Features

- Large Air Volume Supply Applications
- Cylinder Rotation through 360 degrees
- Adjustable Vertical Blades
- Aluminium Construction
- Optional Opposed Blade Damper
- Motorised Version 230 Volt or 24 Volt On/Off motors



Air Diffusion

Grilles Diffusers Louvres Chilled Beams

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Introduction

To satisfactorily supply a large volume of air into big open spaces such as shopping malls, leisure arenas and gymnasiums, requires a certain type of diffuser. This type of application is where the design features inherent in the Model CJD are best demonstrated.

With adjustable vertical vanes located in a rotational cylinder drum, the diffuser is capable of supplying controlled ventilation over a long throw in both heating and cooling modes. Whilst normally used for horizontal distribution, the diffuser may also be used for vertical projection if required.

The diffuser is constructed from aluminium extrusions and incorporates a flanged frame for easy installation. A polypropylene bristle is used to seal the cylinder drum inside the outer flange frame. With the diffuser in-situ the cylinder drum is able to rotate a full 360 degrees, to allow cleaning with or without an OBD fitted.

A complete range of eight standard sizes and four non standard sizes comprises of seven small formats (type 'S') and five large formats (type 'L'). See page 10 for complete dimension details.

Standard finish is silver (RAL 9006) or white (RAL 9010) stove enamel. Alternative paint finishes to the relevant RAL colours are available on request.

Opposed blade dampers can be factory fitted and are located to the rear of the cylinder drum. If required a separate opposed blade damper can be supplied for fitting (by others) into the ductwork behind the diffuser assembly.

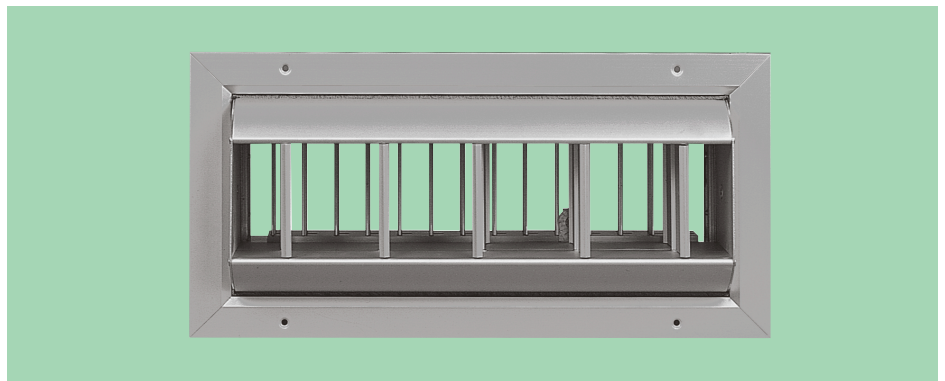
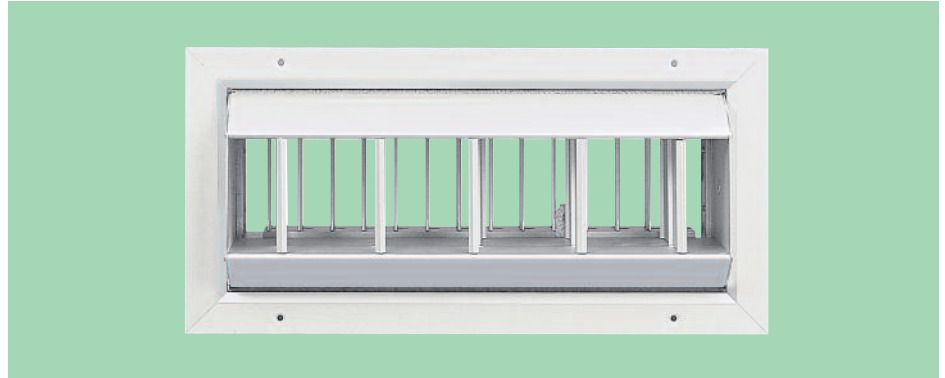
Motorised Operation

To satisfy the demand for remote automatic operation, a motorised version of the Model CJD is also available. The cylinder drum is motorised to alter the air discharge angle for heating or cooling modes. Cylinder travel can be altered to suit on site requirements, by adjustment of the motor. Internal air pattern vanes are manually adjusted to the required position.

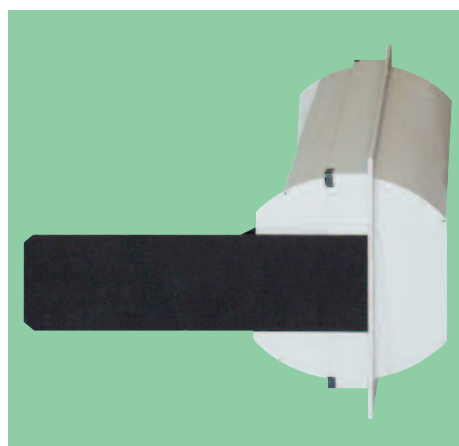
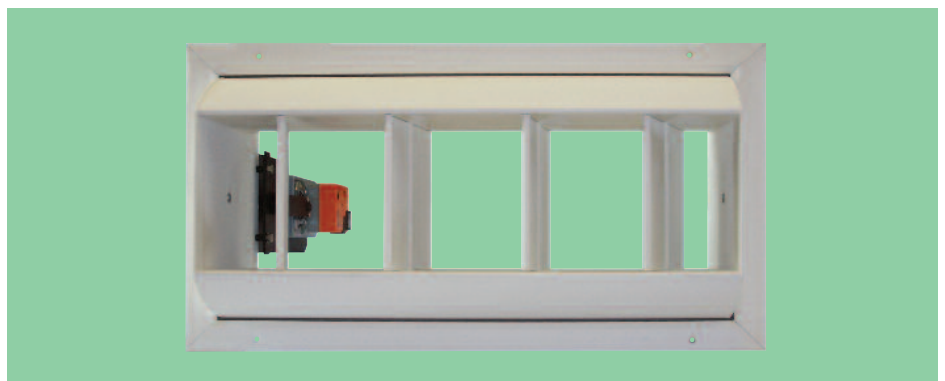
A 230 Volt A.C. or 24 Volt D.C. on/off motor can be fitted to a built-in mounting plate assembly incorporated into the standard diffuser.

The built-in motor mounting assembly is suitable for 275 high diffuser sizes only.

Manual Operation



Motorised Operation



Diffuser Specification

Material

Cylinder drum, adjustable direction vanes and 25mm flange border from extruded aluminium sections, cylinder drum ends from aluminium sheet. Silicone treated polypropylene bristle used as seal between cylinder drum and flanged outer frame.

Construction

Outer flanged frame mitred with corners mechanically cleated. Cylinder drum, adjustable vanes joined by mechanical fittings.

Standard Installation Method

Countersunk screws holes in the flange frame for easy face fixing onto ductwork or structural opening.

Accessories

Optional opposed blade dampers. Motorised option.

Finish

Standard finish is silver (RAL 9006) or white (RAL 9010) stove enamel paint. Alternative stove enamel paint finishes to RAL colours also available, on request.

Standard Model Types

CJD – Cylinder Jet Diffuser

Standard Types

Type	Size	Nominal Width	Nominal Height
S	1	250	175
S	2	325	175
S	3	475	175
S	4	625	175
L	5	525	275
L	6	650	275
L	7	775	275
L	8	900	275

Non Standard Types

S	9	175	175
S	10	400	175
S	11	550	175
L	12	1025	275

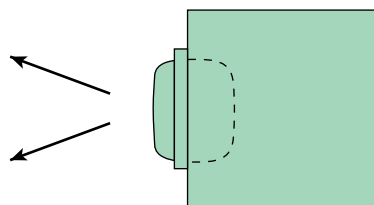
For complete dimensional data please refer to page 10.

Selection Guide

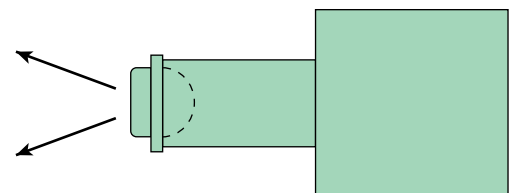
Cylinder diffusers can be mounted on horizontal or vertical position without affecting the air distribution patterns from the unit.

When mounting on main ducts with a velocity below 5m/s, cylinder diffusers can be mounted directly on the side of the duct. (See sketch).

Where main duct velocity exceeds 5m/s it is recommended that extension collars be installed to take cylinder diffusers out of the main duct airstream. (See sketch).



VELOCITY up to 5m/s

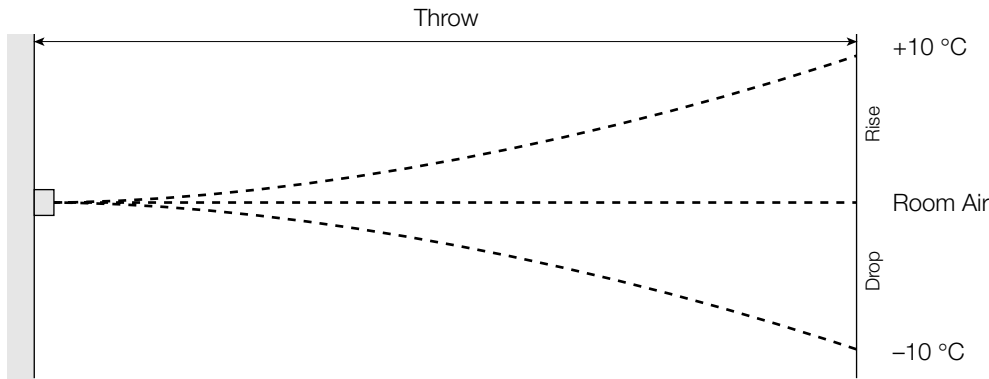


VELOCITY over 5m/s

Selection Guide

Continuation

Discharge Correction

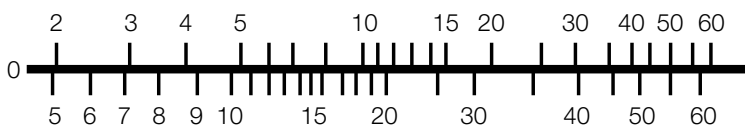


Supply air temperature will affect the throw and air jet will need correction to achieve table throw figures.

Rise or drop (meters)	Throw (metres)											
	3	6	9	12	15	18	21	24	27	31	37	
0.14	3	2	1	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			Correction in Degrees							26	24	20
15										26	22	
16.5											24	
18											26	

Example: from performance table, required throw 15m and air vol 610 L/S, using S4 diffuser @ 11 °C gives 2.2m drop/rise, air will need directing up (cooling) 9 °C or down (heating) 9 °C (figs by interpolation).

Vertical Vane Angle Setting (Degrees)



Percentage Decrease in Throw

Example: a 5 degree change of blade angle causes a 10% decrease in throw.

Performance Tables

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

Performance Tables

Throw in Metres	Temp in	L/S Size	330				380			425				470				520				570				610					
			S1	S2	S3	S4	S2	S3	S4	S2	S3	S4	L5	S2	S3	S4	L5	S3	S4	L5	L6	S3	S4	L5	L6	S3	S4	L5	L6	L7	
	Diff	Stat press Pa	240	120	60	40	150	80	40	190	90	50	30	230	110	60	30	140	80	40	30	170	90	50	30	190	100	50	30	30	
	0 °C	dBa level	44	39	33	29	42	36	31	44	38	33	28	46	40	35	31	42	38	32	28	44	39	34	31	46	41	35	32	29	
3	5	Drop	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	11	or	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1														
	16	rise	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.1														
	22	in m	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1														
	Residual vel m/s			2.0	1.5	1.0	0.8	1.8	1.2	0.9	2.0	1.5	1.0	0.8	2.5	1.6	1.3	0.9													
6	5	Drop	0.1	0.1	0.2	0.3	0.1	0.1	0.2	0.1	0.1	0.2	0.3	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.0	0.1	0.1	0.2	0.2	
	11	or	0.1	0.2	0.3	0.5	0.2	0.2	0.4	0.1	0.2	0.3	0.5	0.1	0.2	0.3	0.4	0.1	0.2	0.4	0.5	0.1	0.2	0.3	0.4	0.1	0.2	0.2	0.4	0.5	
	16	rise	0.2	0.3	0.5	0.8	0.2	0.4	0.7	0.2	0.3	0.5	0.8	0.2	0.2	0.4	0.6	0.2	0.3	0.5	0.7	0.2	0.3	0.4	0.6	0.1	0.2	0.5	0.6	0.7	
	22	in m	0.2	0.3	0.6	1.0	0.3	0.5	0.9	0.3	0.4	0.7	1.1	0.2	0.3	0.6	0.9	0.2	0.4	0.7	0.9	0.2	0.4	0.6	0.8	0.2	0.3	0.5	0.8	0.9	
	Residual vel m/s			1.2	0.9	0.6	0.5	1.0	0.7	0.6	1.3	0.8	0.6	0.4	1.5	0.9	0.7	0.5	1.0	0.8	0.6	0.4	2.5	1.6	1.3	0.9	1.3	1.1	0.7	0.6	0.5
9	5	Drop	0.2	0.3	0.5	0.8	0.2	0.4	0.7	0.2	0.3	0.6	0.9	0.2	0.2	0.5	0.7	0.2	0.4	0.6	0.8	0.4	0.8	1.2	1.8	0.2	0.3	0.5	0.6	0.8	
	11	or	0.3	0.5	1.0	1.7	0.5	0.8	1.4	0.4	0.6	1.1	1.8	0.3	0.5	1.0	1.4	0.4	0.7	1.5	1.7	0.8	1.5	2.4	3.7	0.3	0.6	0.9	1.3	1.6	
	16	rise	0.5	1.0	1.5	2.5	0.8	1.2	2.3	0.6	0.9	1.8	2.8	0.5	0.8	1.4	2.3	0.6	1.1	1.8	2.4	1.2	2.3	4.0	5.2	0.4	0.9	1.4	2.0	2.4	
	22	in m	0.7	1.3	2.1	3.4	1.0	1.6	2.8	0.8	1.2	2.4	3.7	0.7	1.0	1.9	3.1	0.8	1.4	2.4	3.4	1.6	3.1	4.9	6.1	0.6	1.1	1.8	2.6	3.1	
	Residual vel m/s			0.9	0.6	0.4	0.4	0.7	0.5	0.4	0.9	0.6	0.5	0.3	1.1	0.7	0.6	0.4	0.8	0.7	0.4	0.3	0.7	0.6	0.4	0.3	1.0	0.8	0.5	0.4	0.4
12	5	Drop	0.4	0.7	1.2	2.0	0.6	1.0	1.7	0.5	0.7	1.4	2.3	0.4	0.6	1.1	1.8	0.5	0.9	1.5	2.0	0.4	0.8	1.2	1.8	0.4	0.7	1.1	1.5	1.8	
	11	or	0.8	1.5	2.3	4.0	1.2	1.9	3.4	1.0	1.4	2.8	4.6	0.8	1.2	2.2	3.4	1.0	1.0	3.1	4.0	0.8	1.5	2.4	3.7	0.7	1.3	2.2	3.1	3.7	
	16	rise	1.4	2.3	3.7	6.1	1.7	2.9	5.5	1.4	2.2	4.0	6.4	1.2	1.7	3.4	5.5	1.5	1.1	4.6	6.1	1.2	2.3	4.0	5.2	1.1	1.9	3.4	4.6	5.8	
	22	in m	1.7	3.0	4.6	2.3	3.7	6.4	2.0	2.9	5.5	1.6	2.3	4.3	6.4	1.9	1.5	6.1	1.6	3.1	4.9	6.1	1.6	3.1	4.9	6.1	1.4	2.5	4.3	5.8	
	Residual vel m/s			0.7	0.5	0.3	0.3	0.6	0.4	0.3	0.7	0.5	0.4	0.2	0.8	0.6	0.4	0.3	0.6	0.5	0.3	0.3	0.7	0.6	0.4	0.3	0.8	0.6	0.4	0.3	0.3
15	5	Drop	0.9	1.5	2.4	4.0	1.1	1.8	3.4	1.0	1.4	2.8	4.3	0.8	1.2	2.3	3.4	1.0	1.7	3.1	4.0	0.8	1.5	2.4	3.7	0.7	1.3	2.2	3.1	3.7	
	11	or	1.5	3.1	4.6	7.0	2.3	3.7	6.1	1.9	2.9	5.2	8.2	1.6	2.3	4	6.4	1.9	1.7	5.8	7.6	1.6	2.9	4.9	6.1	1.4	2.2	4.3	6.1	6.7	
	16	rise	2.6	4.3	6.4	3.4	5.5	1.5	4.8	7.9	2.4	3.7	6.4	2.9	2.5	2.4	4.6	7.0	2.4	4.6	7.0	2.1	4.0	6.1	2.1	4.0	6.1				
	22	in m	3.4	5.8	4.6	6.7	3.7	5.5	9.8	3.1	4.9	7.6	3.7	3.4	3.7	3.4	3.1	5.5	8.9	3.1	5.5	8.9	2.8	5.2	8.2						
	Residual vel m/s			0.6	0.4	0.3	0.2	0.5	0.4	0.3	0.6	0.4	0.3	0.2	0.7	0.5	0.4	0.3	0.6	0.4	0.3	0.2	0.6	0.5	0.3	0.3	0.7	0.5	0.4	0.3	0.2
18	5	Drop	1.6	2.6	4.0	6.1	2.0	3.1	5.8	1.7	2.5	4.6	7.0	1.3	2.0	3.7	6.1	1.7	2.9	5.2	6.4	1.3	2.6	4.3	5.8	1.2	2.2	3.7	5.5	5.8	
	11	or	2.5	5.2	7.0	4.0	6.1	9.8	3.4	4.9	7.9	2.7	4.0	6.7	3.2	5.8	9.5	2.8	4.9	8.2	2.8	4.9	8.2	2.4	4.3	7.3	9.5				
	16	rise	4.3	6.7	5.8	8.5	2.9	7.0	4.0	5.8	4.9	8.5	4.3	7.0	4.3	7.0	3.7	6.1	4.6	8.2	4.6	8.2									
	22	in m	5.8	9.2	7.6	5.8	8.5	5.2	7.6	6.1	5.2	7.6	6.1	5.2	7.6	6.1	5.2	7.6	6.1	5.2	7.6	6.1	5.2	7.6	6.1	5.2	7.6	6.1	5.2	7.6	
	Residual vel m/s			0.5	0.4	0.3	0.2	0.5	0.3	0.2	0.5	0.4	0.3	0.2	0.6	0.4	0.3	0.2	0.5	0.4	0.2	0.2	0.5	0.4	0.3	0.2	0.6	0.5	0.3	0.2	0.2
21	5	Drop	2.3	4.0	6.1	9.2	3.1	5.2	8.2	2.7	4.0	6.7	10.7	2.1	3.4	5.8	8.9	2.8	4.6	7.6	10.1	2.1	4.0	6.4	8.5	1.9	3.5	5.8	7.9	9.2	
	11	or	4.0	7.6	10.7	6.1	9.2	5.2	7.0	4.3	5.8	10.4	5.2	7.9	4.3	6.7	4.0	6.1	4.0	6.1	4.0	6.1	4.0	6.1	4.0	6.1	4.0	6.1	4.0	6.1	
	16	rise	6.4	10.1	8.5	6.7	10.7	6.1	8.5	6.1	8.5	7.0	10.7	6.1	10.7	6.1	10.7	6.1	10.7	6.1	10.7	6.1	10.7	6.1	10.7	6.1	10.7	6.1	10.7	6.1	10.7
	22	in m	8.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	Residual vel m/s			2.5	0.3	0.2	0.2	0.4	0.3	0.2	0.5	0.3	0.2	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
24	5	Drop																4.0	6.1	13.1	3.1	5.8	9.5	12.5	3.0	5.2	8.5	11.6			
	11	or																7.0	11.9	6.1	9.8	5.5	8.9	5.5	8.9						
	16	rise																10.4	8.6	7.9	9.8	7.9	9.8	7.9	9.8						
	22	in m																			10.7	9.8	9.8	9.8	9.8	9.8					
	Residual vel m/s																	0.4	0.3	0.2	0.1	0.4	0.3	0.2	0.2	0.5	0.4	0.2	0.2	0.2	

Performance Tables

Throw in Metres	Temp in	L/S Size	660					710				760					850					940				
			S3	S4	L5	L6	L7	S4	L5	L6	L7	S4	L5	L6	L7	L8	S4	L5	L6	L7	L8	S4	L5	L6	L7	L8
	Diff	Stat press Pa	220	120	60	40	30	140	70	40	30	150	80	50	40	30	190	100	60	50	30	230	110	80	60	40
	0 °C	dBA level	47	42	37	33	31	43	38	34	32	45	39	36	34	32	47	41	38	36	33	49	43	39	36	35
6	5	Drop	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	or	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					
	16	rise	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	in m	0.2	0.3	0.5	0.16	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					
	Residual vel m/s		1.5	1.3	0.8	1.6	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					
9	5	Drop	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
	11	or	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	rise	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
	22	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
12	5	Drop	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	or	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
	16	rise	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	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
	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	0.4	1.2	0.7	0.6	0.5	0.4
15	5	Drop	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
	11	or	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	rise	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		
	22	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	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
18	5	Drop	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	4.3	1.0	1.6	2.2	2.8	4.0
	11	or	2.1	3.7	6.1	8.5	3.1	5.8	8.2	8.9	2.8	2.8	6.7	7.6	2.3	4.0	5.5	6.4	8.2	1.8	3.1	4.6	5.5	7.3		
	16	rise	3.1	5.8	9.5	4.9	8.2	4.6	7.3	3.7	5.5	7.6	9.5	2.8	4.9	6.1	7.6	2.8	4.9	6.1	7.6	2.8	4.9	6.1	7.6	
	22	in m	4.3	7.0	7.3	5.8	8.9	5.8	8.9	4.6	7.0	4.6	7.0	3.7	6.1	8.2	3.7	6.1	8.2	3.7	6.1	8.2	3.7	6.1	8.2	
	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
21	5	Drop	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
	11	or	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	2.9	5.2	6.7	8.2	2.9	5.2	6.7	8.2
	16	rise	5.2	8.5	7.0	6.1	11.0	6.4	11.0	5.8	8.5	5.8	8.5	4.6	7.3	9.8	4.6	7.3	9.8	4.6	7.3	9.8	4.6	7.3	9.8	
	22	in m	6.1	11.0	11.0	8.2	11.0	8.2	6.7	11.3	6.7	11.3	5.8	8.9	5.8	8.9	5.8	8.9	5.8	8.9	5.8	8.9	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
24	5	Drop	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	or	5.2	7.9	6.7	11.9	6.7	11.9	6.1	11.0	5.2	8.6	12.2	4.3	7.0	10.1	11.9	4.3	7.0	10.1	11.9	4.3	7.0	10.1	11.9	
	16	rise	7.0	12.5	10.4	9.5	11.9	9.5	7.6	12.2	7.6	12.2	6.4	10.7	6.4	10.7	6.4	10.7	6.4	10.7	6.4	10.7	6.4	10.7		
	22	in m	8.9	11.9	11.9	11.9	11.9	11.9	8.9	11.9	8.9	11.9	8.9	11.9	8.9	11.9	8.9	11.9	8.9	11.9	8.9	11.9	8.9	11.9		
	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
27	5	Drop																				3.0	5.2	7.3	8.9	11.9
	11	or																				5.8	8.9	14.0		
	16	rise																				9.2				
	22	in m																				11.3				
	Residual vel m/s																					0.6	0.4	0.3	0.3	0.2
30	5	Drop																				4.3	6.7	9.5	11.6	
	11	or																				7.6	13.7			
	16	rise																				12.2				
	22	in m																				15.0				
	Residual vel m/s																					0.6	0.4	0.3	0.2	0.2
36	5	Drop																				6.7	11.3	16.2		
	11	or																				12.2				
	16	rise																								
	22	in m																								
	Residual vel m/s																					0.5	0.3	0.2	0.2	0.2

Performance Tables

Throw in Metres	Temp in	L/S	1040				1130				1230				1320				1420				1650			1890		2125		2360						
			Size	L5	L6	L7	L8	L5	L6	L7	L8	L5	L6	L7	L8	L5	L6	L7	L8	L5	L6	L7	L8	L6	L7	L8	L7	L8	L7	L8	L8					
	Diff	Stat press Pa																																		
	0 °C	dBA level																																		
6	5	Drop or rise in m																																		
	11																																			
16																																				
22																																				
	Residual vel m/s																																			
9	5	Drop or rise in m	0.2	0.2	0.3	0.4	0.1	0.2	0.2	0.3	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1					
	11		0.3	0.4	0.6	0.8	0.2	0.4	0.5	0.6	0.2	0.3	0.4	0.5	0.2	0.3	0.3	0.5	0.2	0.2	0.3	0.4	0.2	0.2	0.3	0.4	0.2	0.3	0.3	0.4	0.5	0.1	0.2	0.2		
16	0.5		0.7	0.9	1.1	0.4	0.6	0.7	0.9	0.3	0.5	0.6	0.7	0.3	0.4	0.5	0.7	0.2	0.3	0.5	0.6	0.2	0.3	0.3	0.6	0.8	0.2	0.3	0.2	0.2	0.3	0.2	0.2			
22	0.6		0.9	1.1	1.5	0.5	0.7	0.9	1.2	0.4	0.6	0.8	1.1	0.4	0.6	0.7	0.9	0.3	0.5	0.6	0.8	0.4	0.4	0.6	0.9	1.0	0.3	0.4	0.3	0.3	0.4	0.3	0.3			
	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	1.8	1.2	1.1	0.9	1.6	1.4	1.1	1.2	1.0	1.9	1.6	1.8	1.8	1.8				
12	5	Drop or rise in m	0.4	0.5	0.7	1.0	0.3	0.5	0.6	0.8	0.3	0.4	0.5	0.6	0.2	0.3	0.4	0.6	0.2	0.3	0.4	0.5	0.2	0.2	0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2			
	11		0.7	1.1	1.4	1.9	0.6	0.9	1.1	1.5	0.5	0.8	1.0	1.3	0.4	0.6	0.8	1.1	0.4	0.6	0.7	1.0	0.4	0.5	0.7	0.5	0.5	0.3	0.4	0.3	0.3	0.3	0.3			
16	1.1		1.7	2.2	2.8	0.9	1.3	1.7	2.1	0.8	1.1	1.5	2.0	0.6	1.0	1.2	1.7	0.6	0.8	1.1	1.5	0.6	0.8	1.1	0.6	0.8	0.5	0.7	0.5	0.5	0.5	0.5	0.5			
22	1.3		2.1	2.8	3.7	1.2	1.8	2.2	2.7	1.1	1.4	2.0	2.6	0.9	1.3	1.6	2.1	0.8	1.1	1.4	2.0	0.9	1.0	1.5	0.7	1.1	0.6	0.9	0.8	0.8	0.8	0.8	0.8			
	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	1.3	1.0	0.9	0.7	1.2	1.0	0.9	1.1	1.0	1.5	1.2	1.4	1.4	1.4	1.4			
15	5	Drop or rise in m	0.7	1.1	1.4	1.9	0.6	0.9	1.1	1.5	0.5	0.8	1.0	1.2	0.5	0.6	0.8	1.1	0.4	0.6	0.7	1.0	0.4	0.5	0.7	0.4	0.5	0.3	0.4	0.3	0.3	0.3	0.3			
	11		1.4	2.2	2.8	3.7	0.8	1.8	2.2	3.1	1.0	1.5	2.0	2.5	0.9	1.2	1.6	2.1	0.7	1.1	1.4	2.0	0.8	1.0	1.4	0.8	1.0	0.6	0.9	0.7	0.7	0.7	0.7			
16	2.3		3.1	4.0	5.8	1.8	2.7	3.4	4.6	1.6	2.2	3.0	3.7	1.3	1.9	2.4	3.4	1.1	1.6	2.1	3.1	1.2	1.5	2.1	1.2	1.7	1.0	1.4	1.1	1.1	1.1	1.1	1.1			
22	2.9		4.3	5.2	6.7	2.4	3.7	4.3	6.1	2.1	2.9	3.7	5.2	1.7	2.6	3.4	4.3	1.5	2.1	3.1	4.0	1.7	2.0	2.9	1.5	2.2	1.3	1.8	1.4	1.4	1.4	1.4	1.4			
	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	1.1	0.8	0.7	0.6	1.1	0.9	0.7	0.9	0.9	1.3	1.1	1.2	1.2	1.2	1.2			
18	5	Drop or rise in m	1.3	1.2	2.4	3.4	1.0	1.5	2.3	2.6	0.9	1.3	1.7	2.1	0.8	1.1	1.4	1.8	0.7	1.0	1.3	1.8	0.7	0.9	1.2	0.7	0.9	0.6	0.8	0.6	0.6	0.6	0.6			
	11		2.5	3.7	4.6	6.1	2.1	3.1	4.0	5.5	1.8	2.6	3.4	4.6	1.5	2.3	2.8	4.0	1.3	1.8	2.6	3.4	1.4	1.7	2.4	1.4	1.7	1.1	1.5	1.2	1.2	1.2	1.2			
16	3.7		5.5	6.4	9.2	3.4	4.6	5.5	7.3	2.9	4.0	4.9	6.1	2.3	3.4	4.3	5.8	2.0	2.8	3.7	5.2	2.1	2.6	3.7	2.0	2.8	1.7	2.4	1.8	1.8	1.8	1.8	1.8			
22	4.9		7.0	8.2		4.0	6.1	7.0	9.5	3.4	5.2	6.1	8.2	3.1	4.6	5.8	7.0	2.7	3.7	5.2	6.1	2.9	3.4	4.6	2.7	3.4	2.1	3.1	2.4	2.4	2.4	2.4	2.4			
	Residual vel m/s		0.6	0.5	0.4	0.3	0.7	0.5	0.5	0.4	0.8	0.6	0.5	0.4	0.9	0.7	0.6	0.5	0.9	0.7	0.6	0.5	0.9	0.8	0.7	1.1	1.0	1.1	0.9	1.0	1.0	1.0	1.0			
21	5	Drop or rise in m	2.1	3.1	3.7	5.2	1.7	2.4	3.1	4.3	1.8	2.1	2.7	3.4	1.2	1.8	2.2	3.1	1.1	1.5	2.0	2.8	1.1	1.4	2.0	1.1	1.5	0.9	1.2	0.9	0.9	0.9	0.9			
	11		4.0	5.5	6.7	9.8	3.4	4.9	5.8	7.9	2.8	4.3	5.2	6.7	2.4	3.7	4.6	6.1	2.1	3.1	4.0	5.2	2.4	2.8	4.0	2.1	2.9	1.8	2.4	2.0	2.0	2.0	2.0	2.0		
16	5.8		8.2	10.1		5.8	7.0	8.5	11.0	4.6	6.1	7.6	9.5	4.0	5.5	6.4	8.5	3.4	4.6	6.1	7.6	3.4	4.0	5.8	3.4	4.6	2.8	3.7	3.0	3.0	3.0	3.0	3.0	3.0		
22	7.0		11.0			6.1	9.5	11.0		5.5	6.7	9.8		4.9	6.7	8.2	10.7	4.3	5.8	7.6	9.5	4.6	5.2	7.0	4.3	5.8	3.4	4.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
	Residual vel m/s		0.6	0.4	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	0.8	0.7	0.6	0.5	0.8	0.7	0.6	0.7	0.7	0.9	0.8	0.9	0.9	0.9	0.9	0.9		
24	5	Drop or rise in m	3.1	4.4	5.5	7.0	2.6	3.7	4.6	6.1	2.2	3.1	4.0	5.2	1.8	2.8	3.4	4.6	1.6	2.2	3.1	4.0	1.7	2.1	2.9	1.6	2.3	1.4	1.8	1.4	1.4	1.4	1.4	1.4		
	11		5.8	8.2	10.4		5.2	7.0	8.5	11.3	4.3	6.1	7.3	9.8	3.8	5.5	6.4	8.9	3.1	4.6	5.8	7.3	3.4	4.3	5.8	3.4	4.6	2.8	3.7	3.0	3.0	3.0	3.0	3.0		
16	8.5		11.9			7.3	10.1	12.5		6.4	8.5	10.7		5.5	7.6	9.5	12.2	5.2	6.4	8.2	10.7	5.2	6.1	8.2	4.9	6.1	4.1	5.5	4.6	4.6	4.6	4.6	4.6	4.6		
22	10.4					8.9				7.6	11.0			7.0	9.8	12.2		6.1	8.2	11.0		6.4	7.3	10.1	6.1	8.2	5.2	6.4	5.8	5.8	5.8	5.8	5.8	5.8	5.8	
	Residual vel m/s		0.5	0.4	0.3	0.3	0.6	0.4	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	0.6	0.5	0.7	0.6	0.9	0.7	0.8	0.8	0.8	0.8	0.8	0.8	
27	5	Drop or rise in m	4.4	6.1	7.3	10.1	3.5	5.2	6.1	8.2	3.4	4.4	5.8	7.0	2.8	4.0	4.9	6.1	2.3	3.1	4.6	5.5	2.4	2.9	4.0	2.3	3.4	1.8	2.6	2.0	2.0	2.0	2.0	2.0		
	11		8.2	11.3	14.0		6.7	9.5	11.3		6.1	8.2	10.4	14.0	5.2	7.3	9.2	11.9	4.6	6.1	8.2	10.4	5.2	5.8	7.9	4.7	6.1	3.8	5.2	4.3	4.3	4.3	4.3	4.3	4.3	
16	12.2					10.1				9.2	12.2			7.9	10.7	13.1		6.7	9.2	11.3	15.3	7.0	8.2	11.0	6.4	8.9	5.8	7.3	6.1	6.1	6.1	6.1	6.1	6.1	6.1	
22						12.2				10.7				9.5	12.2			8.5	11.3			9.2	10.4			8.2	11.0	7.0	9.5	7.9	7.9	7.9	7.9	7.9	7.9	7.9
	Residual vel m/s		0.5	0.4	0.3	0.2	0.5	0.4	0.3	0.3	0.6	0.5	0.4	0.3	0.6	0.5	0.4	0.4	0.7	0.5	0.5	0.4	0.7	0.6	0.5	0.7	0.6	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
30	5	Drop or rise in m	5.8	8.2	9.8	13.4	5.2	6.4	8.2	10.7	4.4	6.1	7.3	9.5	3.8	5.3	6.1	8.2	3.2	4.0	5.8	7.3	3.4	4.1	5.5	3.4	4.3	2.7	3.4	2.8	2.8	2.8	2.8	2.8	2.8	
	11		11.3	15.3			9.5	13.4			8.2	11.0	14.0		7.3	9.8	12.2		6.1	8.2	11.0	14.3	6.4	7.6	10.4	6.1	8.2	5.5	6.4	5.8	5.8	5.8	5.8	5.8	5.8	5.8
16						14.0				11.9				10.7	14.6			9.5	11.9			9.5	10.7	15.6	8.9	11.9	7.3	9.8	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
22										14.3				12.8				11.6				12.2	14.3			11.3	15.6	9.5	12.2	10.4	10.4	10.4	10.4	10.4	10.4	10.4
	Residual vel m/s		0.4	0.3	0.3	0.2	0.5	0.4	0.3	0.3	0.5	0.4	0.3	0.3	0.6	0.5	0.4	0.3	0.6	0.5	0.4	0.4	0.6	0.5	0.4	0.6	0.5	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
36	5	Drop or rise in m	9.5	13.4	16.2		8.2	10.7	14.3		7.0	9.5	11.9	16.2	6.6	8.2	10.4	13.7	5.6	7.0	9.2	11.9	6.0	6.4	8.5	5.6	6.7	4.6	6.1	4.9	4.9	4.9	4.9	4.9	4.9	4.9
	11						15.9				13.4				11.9	16.8			10.1	14.3	18.6		11.7	12.8	18.3	10.4	14.0	8.5	11.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5
16														18.3					16.2																	

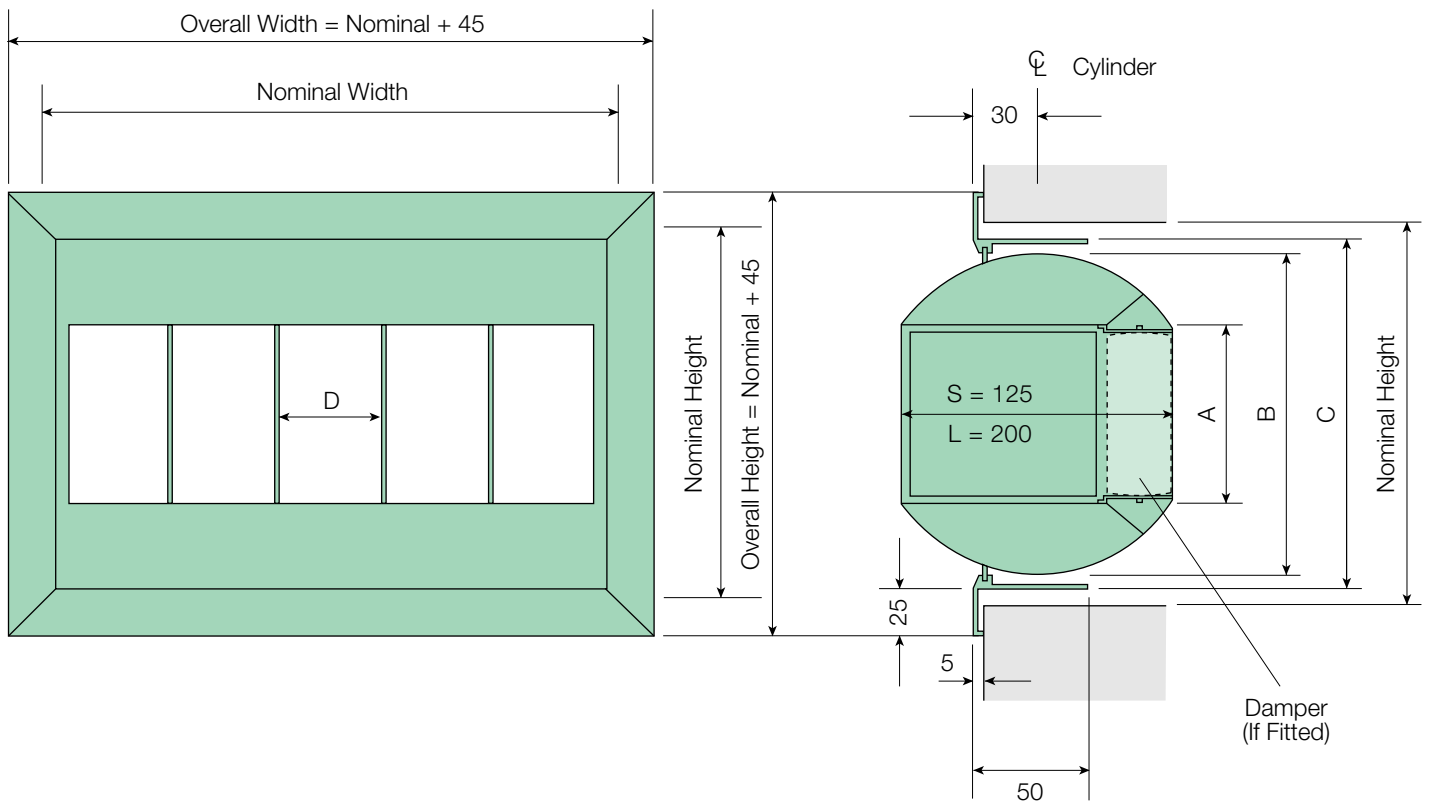
Dimension Data

Standard Sizes

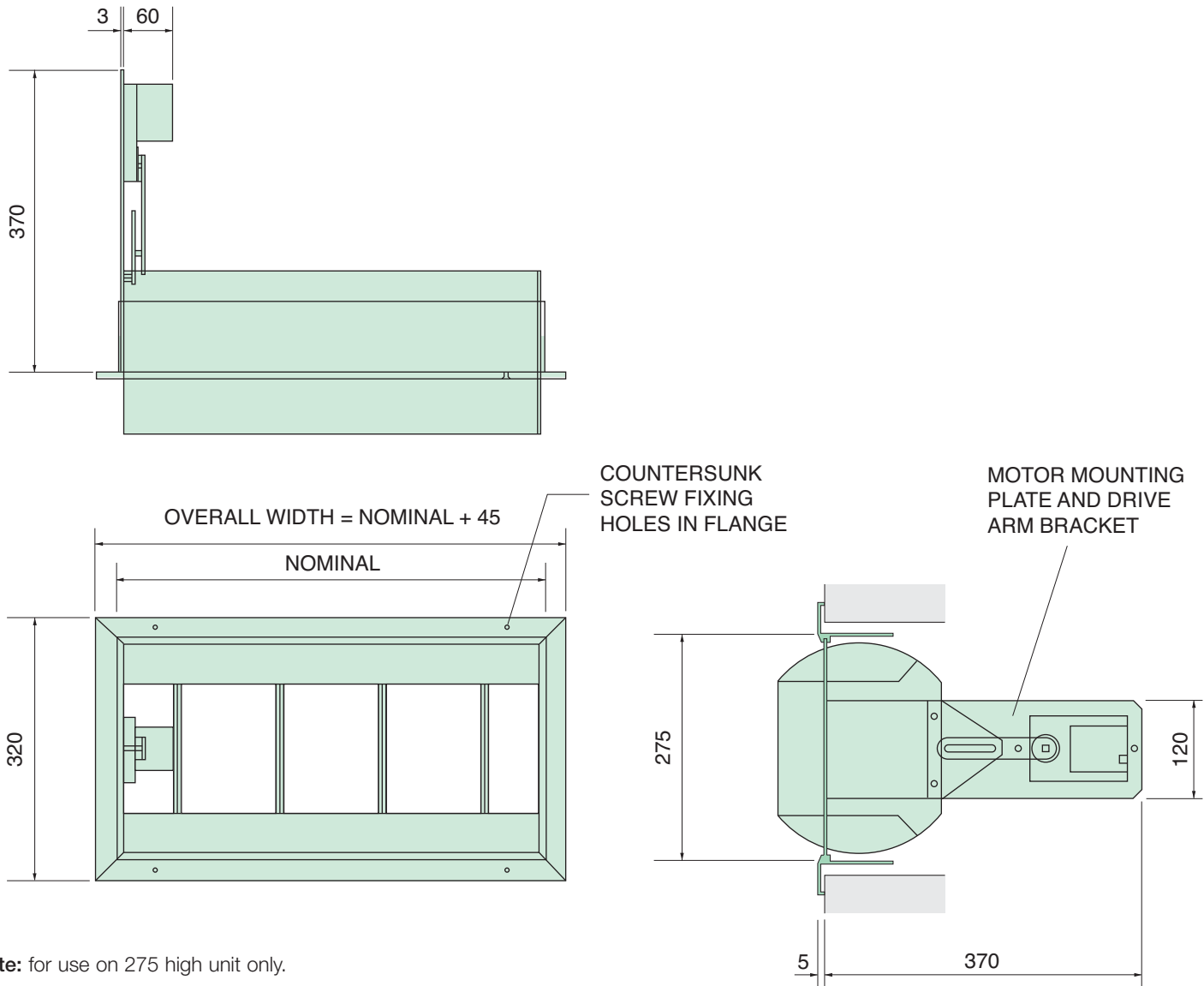
Type	Size	Nominal Width	Nominal Height	A	B	C	D	No. Blades
S	1	250	175	86	156	166	75	3
S	2	325	175	86	156	166	75	4
S	3	475	175	86	156	166	75	6
S	4	625	175	86	156	166	75	8
L	5	525	275	152	256	266	125	4
L	6	650	275	152	256	266	125	5
L	7	775	275	152	256	266	125	6
L	8	900	275	152	256	266	125	7

Non Standard Sizes

Type	Size	Nominal Width	Nominal Height	A	B	C	D	No. Blades
S	9	175	175	86	156	166	75	2
S	10	400	175	86	156	166	75	5
S	11	550	175	86	156	166	75	7
L	12	1025	275	152	256	266	125	8



Dimension Data - Motorised



Note: for use on 275 high unit only.

Ordering Information

How to Order

To order a Cylinder Jet Diffuser size L5 525 x 275 flange fixing damper and silver finish. This model would be **25C - CJD - R - F1 - 2 - L5**

Flange Style	Model	Damper	Fixing	Finish	Type	Size
25C	CJD	R	F1	2	L	5
25C - 25mm Flat surface mitred and mechanically cleated	CJD Cylinder Jet Diffuser CJD/M - CJD Motorised Cylinder Jet Diffuser with mounting plate and 230V or 24V D.C. On/Off Motor	R Damper fitted within cylinder G No damper	F0 No fixing (holes to be drilled on site) F1 Countersunk screw fixing holes in flange	2 Silver (RAL 9006) stove enamel 3 White (RAL 9010) stove enamel	S Nominal height 175mm L Nominal height 275mm	1 - 8 Standard Nominal width of unit 9 - 12 Non standard nominal widths (see page 10)
<p>Note: please specify motor voltage. Motorised only available on 275mm high sizes</p>						
<p>Important Note: All orders must be addressed to Air Diffusion, Ruskin Air Management Limited.</p>						

Ruskin Air Management Limited **a BS EN ISO 9000 registered company**

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Due to a policy of continuous product development the specification and details contained herein are subject to alteration without prior notice.

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Air Diffusion

Grilles Diffusers Louvres Chilled Beams