



1. 25mm (1") FRAME.
2. NECK SIZE = OVERALL SIZE - 41mm.
3. CEILING OPENING = OVERALL SIZE - 38mm.

JANFORD 晉福風咀有限公司			
JANFORD AIR FLOW CO. LTD.			
ALUMINIUM JET DIFFUSER			
MODEL	JD-1	PROJECT	
SCALE	NIL	DRAWN BY	DATE 21/11/2016

JET FLOW DIFFUSER

The JD Jet-Flow diffuser is ideal for supply air applications in large areas such as auditoriums and arenas.

JD is also recommended with vertical discharge for spot heating or spot cooling in entrance ways or concentrated machine areas.

Six element sizes, with 1 through 4 diffuser elements per assembly, are furnished as standard. Other combinations are available upon request.

Each Individual element is adjustable from front or back without tools to provide air deflection of 30° from any plane perpendicular to the diffuser face. This and the large number of available diffuser sizes provide an almost unlimited selection of air quantity and throw combinations.

Construction is of heavy gauge steel with aluminium optional.

PERFORMANCE DATA

Throw - Meter

Size No. Elements L/s	6				8				10				12				14			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
94	12				10															
142					12															
189	15	13			13	12														
236	16	15			15	13			13				12							
283		16	13		16	15			15				13				12			
330		18	15		18	16			16				13				12			
378		20	16	13	18	16	15		16	13			15	12			13			
425		21	18	15	21	18	16	13	18	15			16	13			15			
472			19	16		19	18	15	19	16			18	15			16			
566			21	18		19	18	16	21	18	16		19	16	15		18	15		
661			22	19		21	19	18	22	19	18	16	21	18	16		19	16		
755				21		22	21	19		21	19	18	22	19	18		21	18		
849				22			22	21		22	21	19	22	21	19		21	19	18	
944							24	22		24	22	21	24	22	21		22	21	19	
1038							25	24		25	24	22		24	22	21	24	22	21	
1133								25		27	25	24		25	24	22	25	24	22	21
1227								27		28	27	25		27	25	24	27	25	24	22
1321								28		30	28	27		28	27	25	28	27	25	24
1416								30			30	28		30	28	27	30	28	27	25
1652								32			32	30		32	30	28		30	28	27
1888											35	33			33	32		33	32	30
2134											38	36			36	35		36	35	33
2360												39			39	38		39	38	36
2832												42			42	41		42	41	40
3303																44			44	43
3775																47			47	45
4247																			50	49
4719																				53
5191																				56
5663																				61

Throws are based on diffusers mounted without the aid of a ceiling and discharging air at 20°F below average room temperature.

Values are the average distance the air stream envelope travels before the velocity is reduced to a

specified terminal level of 0.25 m/s. Due to the turbulent characteristic of an air stream, the specified terminal velocity condition will cover a throw range of ±10 percent of the average values given.

For other performance data, see succeeding pages.

PERFORMANCE DATA

Size	6			8		
L/s	No. Elements	Static Pressure (Pa)	NC	No. Elements	Static Pressure (Pa)	NC
94	1	42	20	1	15	--
142	1	97	28	1	32	18
189	1	174	39	1	57	24
	2	42	26	2	15	--
236	1	249	49	1	90	32
	2	65	30	2	22	15
283	2	95	34	1	125	36
	3	42	24	2	32	21
330	2	125	37	1	174	39
	3	50	29	2	45	26
378	2	174	42	1	224	46
	3	75	33	2	57	30
	4	42	25	3	25	17
425	2	204	46	2	72	33
	3	97	35	3	32	22
	4	55	29	4	17	15
472				2	90	35
	3	114	39	3	40	26
	4	65	33	4	22	18
566				2	124	39
	3	174	43	3	57	30
	4	97	36	4	32	24
661				2	174	43
	3	224	47	3	77	35
	4	124	40	4	45	30
755				2	224	48
				3	100	38
	4	174	43	4	57	33
849				3	125	41
	4	212	47	4	72	36
944				3	157	44
				4	90	38
1038				3	189	46
				4	105	40
1133				4	125	44
1227				4	149	45
1321				4	174	46
1416				4	199	48
1652				4	274	51

Performance data are based on diffuser elements set for a straight discharge pattern. When adjusted to a full 30° pattern pressure drops will increase up to 40% and sound levels up to 5 dB.

Noise criteria values (NC) are based on a room absorption deduction obtained for a room of average construction having a floor area of approximately 900 sq. ft.

PERFORMANCE DATA

Size	10			12		
	L/s	No. Elements	Static Pressure (Pa)	NC	No. Elements	Static Pressure (Pa)
236	1	30	--	1	15	--
283	1	42	22	1	22	--
330	1	57	26	1	30	17
378	1	75	31	1	40	22
	2	22	--	2	10	--
425	1	95	34	1	50	28
	2	27	--	2	12	15
472	1	120	36	1	62	32
	2	32	18	2	15	16
566	1	189	41	1	90	35
	2	47	26	2	22	17
	3	20	--	3	10	--
661	1	235	49	1	125	39
	2	62	31	2	30	20
	3	25	--	3	12	--
755	2	75	35	1	162	42
	3	32	16	2	40	26
	4	22	--	3	17	17
849	2	95	39	1	199	46
	3	42	24	2	50	31
	4	27	--	3	22	18
944	2	120	42	1	249	50
	3	52	30	2	62	35
	4	32	20	3	27	21
1038	2	144	45	2	75	37
	3	65	33	3	32	24
	4	37	24	4	20	20
1133	2	174	47	2	90	38
	3	75	35	3	40	28
	4	42	27	4	22	21
1227	2	199	50	2	102	40
	3	90	38	3	47	32
	4	50	31	4	27	23
1321	2	237	53	2	125	43
	3	102	40	3	52	34
	4	82	33	4	30	24
1416			--	2	139	45
	3	120	42	3	62	36
	4	67	36	4	35	27
1652			--	2	187	48
	3	154	47	3	77	39
	4	90	39	4	47	32
1888			--	2	249	51
	3	212	52	3	110	41
	4	120	44	4	62	37
2134	3	249	54	3	139	44
	4	149	46	4	77	41
2360			--	3	187	47
	4	187	50	4	100	43
2832			--	3	249	50
	4	249	55	4	144	47
3303			--	4	199	50
3775			--	4	249	54

Performance data are based on diffuser elements set for a straight discharge pattern. When adjusted to a full 30° pattern pressure drops will increase up to 40% and sound levels up to 5 dB.

Noise criteria values (NC) are based on a room absorption deduction obtained for a room of average construction having a floor area of approximately 900 sq. ft.

PERFORMANCE DATA

SIZE	14		
L/s	No. Elements	Static Pressure (Pa)	NC
283	1	10	---
378	1	20	17
472	1	30	24
566	1	42	29
	2	10	---
661	1	60	34
	2	15	---
755	1	77	36
	2	20	18
849	1	115	39
	2	25	22
	3	10	---
944	1	125	42
	2	30	27
	3	15	15
1038	1	149	45
	2	37	31
	3	17	17
1133	1	174	47
	2	42	32
	3	20	19
	4	10	---
1227	1	199	50
	2	52	36
	3	25	22
	4	12	17
1321	1	224	53
	2	60	37
	3	27	25
	4	15	19
1416	1	249	55
	2	70	39
	3	30	29
	4	17	20
1652	2	97	42
	3	42	33
	4	22	25
1888	2	125	45
	3	52	38
	4	30	30
2134	2	157	48
	3	67	40
	4	40	33
2360	2	187	52
	3	80	43
	4	47	36
2832	2	249	58
	3	120	46
	4	67	42
3303	3	164	51
	4	92	45
3775	3	209	56
	4	125	49
4247	3	249	59
	4	157	52
4719	4	187	55
5191	4	219	58
5663	4	249	60

Performance data are based on diffuser elements set for a straight discharge pattern. When adjusted to a full 30° pattern, pressure drops will increase up to 40% and sound levels up to 5 dB.

Noise criteria values (NC) are based on a room absorption deduction obtained for a room of average construction having a floor area of approximately 900 sq. ft.