DEKET

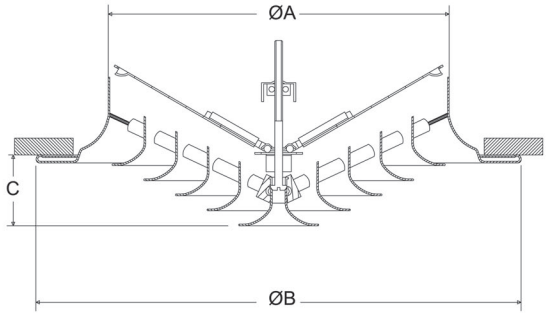
Round Diffusers

دریچه های گرد

Round Protruded Ceiling Diffuser

Model : D-900

دریچه گرد برجسته



Model D-900
Circular Diffuser with flap damper.

Diffuser Size	Ø A	ØB	C	Number of Cones
Ø 6″	147	257	48	4
Ø 8″	198	308	56	5
Ø10″	249	358	63	6
Ø12″	300	409	71	7
Ø14″	350	460	79	8

Dimensions in milimeters

Round Protruded Ceiling Diffuser

Model : D-900

دریچه گرد برجسته

Selection Data

CFM		6"	8"	10"	12"	14"
50	Neck Velocity SP Throw	265 .008 3-5				
75	Neck Velocity SP Throw	398 .017 3-6	222 .006 4-6			
100	Neck Velocity SP Throw	531 .034 4-6	296 .011 4-6			
150	Neck Velocity SP Throw	796 .075 5-7	443 .023 5-7	265 .009 5-8		
200	Neck Velocity SP Throw	1062 .130 6-8	591 .040 5-8	353 .017 5-9	260 .009 6-9	
250	Neck Velocity SP Throw		739 .060 5-8	442 .025 5-10	325 .013 7-11	238 .008 6-9
300	Neck Velocity SP Throw		887 .085 5-9	530 .035 6-12	390 .018 7-12	286 .010 7-11
400	Neck Velocity SP Throw		1183 .145 7-11	706 .060 7-13	520 .031 8-13	381 .018 8-13
500	Neck Velocity SP Throw			883 .090 7-14	650 .046 9-14	467 .027 9-14
600	Neck Velocity SP Throw			1060 .130 8-15	780 .064 11-15	571 .037 11-15
700	Neck Velocity SP Throw				910 .086 12-17	667 .049 12-17
800	Neck Velocity SP Throw				1040 .110 13-19	762 .062 13-19
900	Neck Velocity SP Throw				1170 .140 15-21	857 .078 15-21
1000	Neck Velocity SP Throw					952 .094 18-23

Available Sizes: *D 900 : 6" • 8" • 10" • 12" •14"*

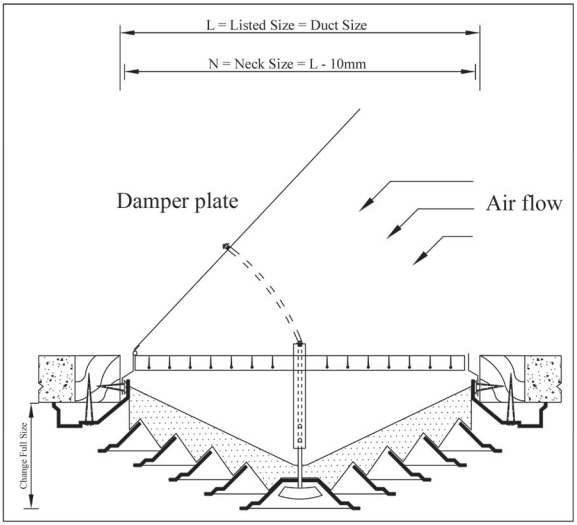
NOTES:

Static Pressure - Static pressure readings are in inches water gauge.
Throw - Throws indicated are based on total number of feet of projected air for a given terminal velocity of 100-to-50 feet per minute.
Neck Velocity - The neck velocity is in feet per minute.

Round Protruded Ceiling Diffuser

Model : D-950

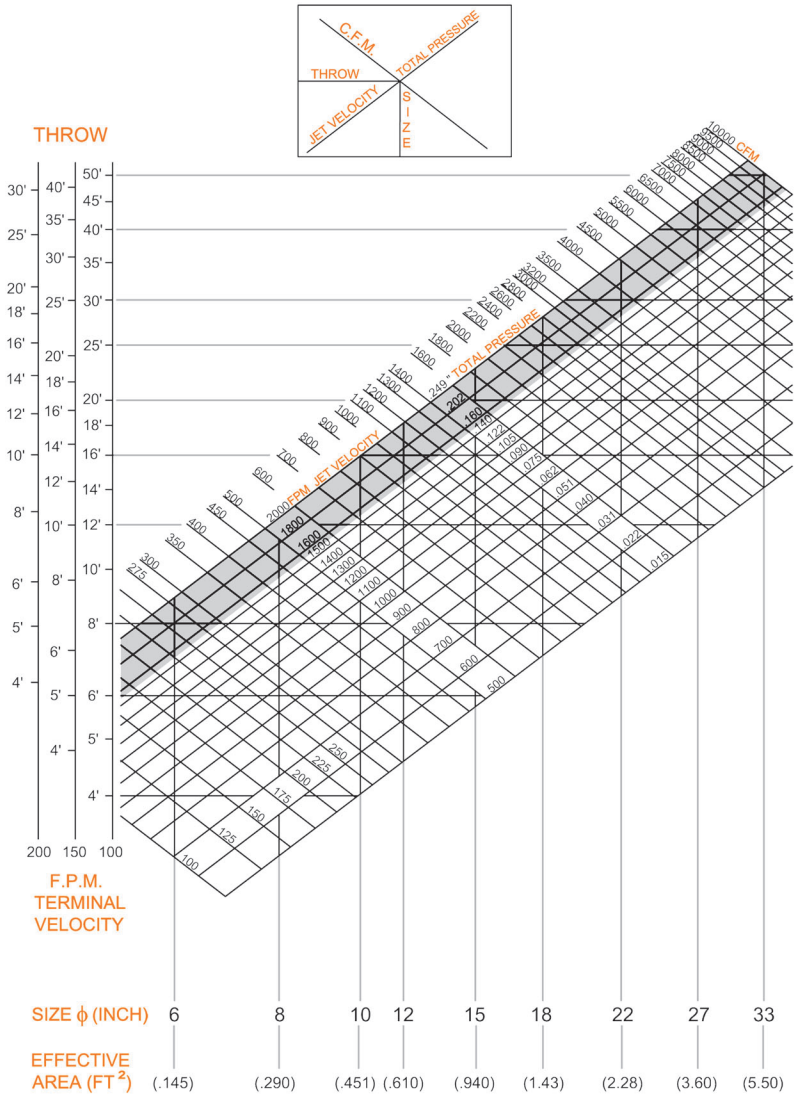
دریچه گرد برجسته



Aluminium diffuser

Listed Size ø	6"	9"	12"	15"	18"	21"	22"	24"

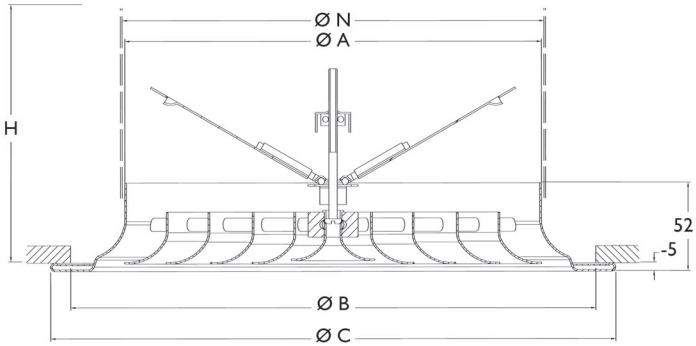
Size Selection Chart Type D-950



Round Flat Ceiling Diffuser

Model : D-800

دریچه گرد تخت



Model D-800
Circular Diffuser with flap damper.

Diffuser Size	ØN	Ø A	ØB	ØC	H
Ø 6″	160	159	213	247	132
Ø 8″	200	199	264	287	152
Ø10″	250	249	315	337	177
Ø12″	315	314	366	402	209
Ø14″	355	354	417	442	229

Dimensions in milimeters

Round Flat Ceiling Diffuser

Model : D-800

دریچه گرد تخت

Selection Data

CFM		6"	8"	10"	12"	14"
50	Neck Velocity SP Throw	505 .012 2.5				
75	Neck Velocity SP Throw	770 .022 3.86	515 .01 3.16			
100	Neck Velocity SP Throw	1020 .043 5.26	680 .019 4.33			
150	Neck Velocity SP Throw	1540 .09 7.73	1025 .04 6.38	700 .018 5.04		
200	Neck Velocity SP Throw	2060 .17 10.21	1360 .075 8.3	915 .033 6.7	600 .014 5.42	
250	Neck Velocity SP Throw		1720 .1 10.45	1150 .048 8.70	765 .02 6.96	615 .013 6.27
300	Neck Velocity SP Throw		2050 .16 12.68	1360 .072 10.35	915 .031 8.34	730 .02 7.35
400	Neck Velocity SP Throw			1830 .13 13.7	1200 .058 11.16	970 .038 9.89
500	Neck Velocity SP Throw			2300 .2 17	1500 .09 13.94	1230 .058 12.46
600	Neck Velocity SP Throw				1800 .12 16.7	1460 .08 15.02
700	Neck Velocity SP Throw				2100 .17 19.51	1700 .11 17.56
800	Neck Velocity SP Throw				2430 .23 22.3	1950 .15 20.06
900	Neck Velocity SP Throw					2200 .19 22.6
1000	Neck Velocity SP Throw					2450 .22 25.08

- 1m/s = 200 F.P.M.
- 1m = 3.28 FT.
- 1Pa = 0.004" H_2O.

RECOMMENDED TERMINAL VELOCITY

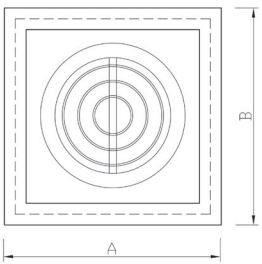
OCCUPANCY	TERMINAL VELOCITY F.P.M
where people are located adjacent to walls of structure for extended periods of time at sedentary occupations: Private offices Residences Apartments Hotel bedrooms Hospitals	**100**
where people are not located adjacent to walls of structure for extended periods of time: General offices Department stores Restaurants Clothing stores Theatres Churches	**150**
where people are not located adjacent to walls of structure at any time: Industrial plants Corridors Process areas	**200**

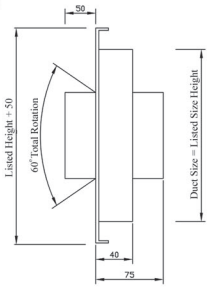
Recommended Maximum Jet Delivery Velocities

Application	JET VELOCITY F.P.M
Broadcasting studios	500
Residences	750
Apartments	750
Churches	750
Hotel bedrooms	750
Legitimate theatres	1000
Private offices, acoustically treated	1000
Motion picture theatres	1250
Private offices, not treated	1250
General offices	1500
Stores, upper floors	1500
Stores, main floors	1500
Industrial buildings	2000

Jet Diffuser

دریچه جت نازل





Element Size	Listed Height	Listed Width-Number of Elements			
		1	2	3	4
6"	250	250	480	710	940
8"	300	300	580	860	1140
10"	350	350	680	1000	1340
12"	400	400	780	1160	1540
14"	455	455	885	1300	1750

Dimensions in milimeters

اندازه ها به میلیمتر است

Tech. Spec.

مشخصات فنی

- Frame and inner rings are of high quality aluminium construcion with the advantage of corrosion resistance.
- Nozzles can be adjusted 30° upwards and downwards to achieve required throw as per site condition.
- Jet diffuser can be rotated by 360° by adjusting the mounting frame.
- Suitable to handle large quantity of air with long throw.
- Jet diffuser can be fixed on a plenum box.

- قاب و رینگهای داخلی از جنس آلومینیوم مقاوم در برابر زنگ زدگی.
- گردش نازل ها بصورت بالا و پایین با حداکثر زاویه ۳۰ درجه.
- تنظیم دریچه روی صفحه تا زاویه ۳۶۰ درجه.
- مناسب برای هوا دهی بیشتر و پرتاب هوا در طول زیاد.
- امکان قرارگیری دریچه روی یک جعبه هوا.

CFM	SIZE 6				SIZE 8			
	No. Elements	Static Pressure Drop (Inches of Water)	NC	Throw	No. Elements	Static Pressure Drop (Inches of Water)	NC	Throw
200	1	.17	20	40	1	.06	-	35
300	1	.39	28	45	1	.13	18	40
400	1	.70	39	50	1	.23	24	45
	2	.17	26	45	2	.06	-	40
500	1	1.00	49	55	1	.36	32	50
	2	.26	30	50	2	.09	15	45
600	2	.38	34	55	1	.50	36	55
	3	.17	24	45	2	.13	21	50
700	2	.50	37	60	1	.70	39	60
	3	.20	29	50	2	.18	26	55
800	2	.70	42	65	1	.90	46	60
	3	.30	33	55	2	.23	30	55
	4	.17	25	45	3	.10	17	50
900	2	.82	46	70	2	.29	33	60
	3	.39	35	60	3	.13	22	55
	4	.22	29	50	4	.07	15	45
1000					2	.36	35	65
	3	.46	39	65	3	.16	26	60
	4	.26	33	55	4	.09	18	50
1200					2	.50	39	65
	3	.70	43	70	3	.23	30	60
	4	.39	36	60	4	.13	24	55
1400					2	.70	43	70
	3	.90	47	75	3	.31	35	65
	4	.50	40	65	4	.18	30	60
1600					2	.90	48	75
					3	.40	38	70
	4	.70	43	70	4	.23	33	65
1800					3	.50	41	75
	4	.85	47	75	4	.29	36	70
2000					3	.63	44	80
					4	.36	38	75
2200					3	.76	46	85
					4	.42	40	80
2400					4	.50	44	85
2600					4	.60	45	90
2800					4	.70	46	95
3000					4	.80	48	100
3500					4	1.10	51	105

Notes:

1. Performance data is 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.
2. 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. If diffusers are applied to sufficiently larger areas and are farther than 5 feet from the occupants, NC values shown may be reduced by 6 for a distance of 10 feet , 10 for a distance of 15 feet and 12 for a distance of 20 feet.
3. Throws (in feet) are based on diffusers mounted without the aid of a ceiling and discharging air at 20° F below average room temperature.
4. Values are the average distance the air stream envelope travels before the velocity is reduced to a specified terminal level of 50 fpm. Due to the turbulent characteristic of an air stream, the specified terminal velocity condition will cover a throw range of ± 10% of the average values given.
5. Total diffuser air volume = summation of air volumes measured at each diffuser element. When a diffuser consists of more than one element, the air volume from each element is to be measured.

CFM	SIZE 10				SIZE 12			
	No. Elements	Static Pressure Drop (Inches of Water)	NC	Throw	No. Elements	Static Pressure Drop (Inches of Water)	NC	Throw
500	1	.12	-	45	1	.06	-	40
600	1	.17	22	50	1	.09	-	45
700	1	.23	26	55	1	.12	17	45
800	1	.30	31	55	1	.16	22	50
	2	.09	-	45	2	.04	-	40
900	1	.38	34	60	1	.20	28	55
	2	.11	-	50	2	.05	15	45
1000	1	.48	36	65	1	.25	32	60
	2	.13	18	55	2	.06	16	50
1200	1	.76	41	70	1	.36	35	60
	2	.19	26	60	2	.09	17	50
	3	.08	-	55	3	.04	-	45
1400	1	.95	49	75	1	.50	39	65
	2	.25	31	65	2	.12	20	55
	3	.10	-	60	3	.05	-	50
1600	2	.30	35	70	1	.65	42	70
	3	.13	16	65	2	.16	26	60
	4	.09	-	60	3	.07	17	55
1800	2	.38	39	75	1	.80	46	70
	3	.17	24	70	2	.20	31	65
	4	.11	-	65	3	.09	18	60
2000	2	.48	42	80	1	1.00	50	75
	3	.21	30	75	2	.25	35	70
	4	.13	20	70	3	.11	21	65
2200	2	.58	45	85	2	.30	37	75
	3	.26	33	80	3	.13	24	70
	4	.15	24	75	4	.08	20	65
2400	2	.70	47	90	2	.36	38	80
	3	.30	35	85	3	.16	28	75
	4	.17	27	80	4	.09	21	70
2600	2	.80	50	95	2	.41	40	85
	3	.36	38	90	3	.19	32	80
	4	.20	31	85	4	.11	23	75
2800	2	.95	53	100	2	.50	43	90
	3	.41	40	95	3	.21	34	85
	4	.33	33	90	4	.12	24	80
3000					2	.56	45	95
	3	.48	42	100	3	.25	36	90
	4	.27	36	95	4	.14	27	85
3500					2	.75	48	100
	3	.62	47	105	3	.31	39	95
	4	.36	39	100	4	.19	32	90
4000					2	1.00	51	110
	3	.85	52	115	3	.44	41	105
	4	.48	44	110	4	.25	37	100
4500	3	1.00	54	125	3	.56	44	115
	4	.60	46	120	4	.31	41	110
5000					3	.75	47	125
	4	.75	50	130	4	.40	43	120
6000					3	1.00	50	135
	4	1.00	55	140	4	.58	47	130
7000					4	.80	50	140
8000					4	1.00	54	150

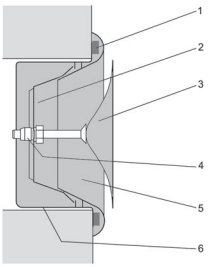
CFM	SIZE 14			
	No. Elements	Static Pressure Drop (Inches of Water)	NC	Throw
600	1	.04	-	40
800	1	.08	17	45
1000	1	.12	24	55
1200	1	.17	29	60
	2	.04	-	50
1400	1	.24	34	65
	2	.06	-	55
1600	1	.31	36	70
	2	.08	18	60
1800	1	.46	39	70
	2	.10	22	65
	3	.04	-	60
2000	1	.50	42	75
	2	.12	27	70
	3	.06	15	65
2200	1	.60	45	80
	2	.15	31	75
	3	.07	17	70
2400	1	.70	47	85
	2	.17	32	80
	3	.08	19	75
	4	.04	-	70
2600	1	.80	50	90
	2	.21	36	85
	3	.10	22	80
	4	.05	17	75
2800	1	.90	53	95
	2	.24	37	90
	3	.11	25	85
	4	.06	19	80
3000	1	1.00	55	100
	2	.28	39	95
	3	.12	29	90
	4	.07	20	85
3500	2	.39	42	100
	3	.17	33	95
	4	.09	25	90
4000	2	.50	45	110
	3	.21	38	105
	4	.12	30	100
4500	2	.63	48	120
	3	.27	40	115
	4	.16	33	110
5000	2	.75	52	130
	3	.32	43	125
	4	.19	36	120
6000	2	1.00	58	140
	3	.48	46	135
	4	.27	42	130
7000	3	.66	51	145
	4	.37	45	140
8000	3	.84	56	155
	4	.50	49	150

Supply Disc Valve

Model : SDV

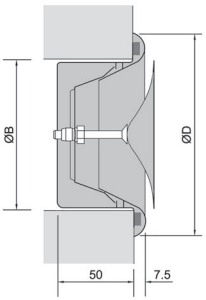
دریچه هوای دیسکی

Component Parts



1. Foam Gasket
2. Cross Bar
3. Inner Cone
4. Locknut
5. Valve Seat
6. Mounting Ring

Dimensions

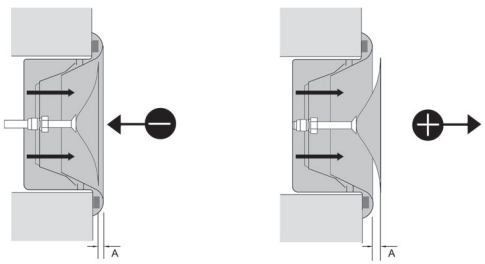


Size	ØB	ØD
100	100	139
125	125	160
150	150	192
160	160	196
200	200	232

مشخصات فنی

- قابل استفاده برای هوای رفت .
- قابل نصب در کانال ، دیوار و یا سقف .
- نصب رینگ (عرض رینگ ۵۰ میلیمتر) در داخل کانال و یا محل جاسازی شده .
- تنظیم مقدار هوای رفت با گردش صفحه دیسکی حول محور در جهت یا خلاف جهت عقربه ساعت .
- جنس تمام قطعات از آهن.

Air Flow Regulation



Air flow regulation :
Adjust the air volume by rotating the valve disc in plus or minus direction.

⊖ ←A→ ⊕

A (mm). See Selection Table.

Supply Disc Valve
دریچه هوای دیسکی

Model : SDV

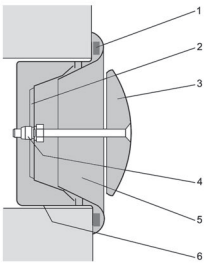
Size Selection Table

Neck size in mm dia	Position of disc	Air flow rate								
		CFM	10	20	40	60	80	100	120	140
		M^3/sec	0.0047	0.0094	0.0189	0.0283	0.0378	0.0472	0.0567	0.0661
80	A= +10	P_t in mm H_2O NC in dB	0.76 <20	1.83 22	5.6 38	--------	--------	--------	--------	--------
	A= 0	P_t in mm H_2O NC in dB	1.22 <20	3.4 26	9.6 44	--------	--------	--------	--------	--------
	A= -10	P_t in mm H_2O NC in dB	2.04 <20	5.6 35	>20 >45	--------	--------	--------	--------	--------
100	A= +10	P_t in mm H_2O NC in dB	0.51 <20	1.12 <20	3.46 30	6.6 38	--------	--------	--------	--------
	A= 0	P_t in mm H_2O NC in dB	0.71 <20	2.04 20	6.11 36	11.21 44	--------	--------	--------	--------
	A= -10	P_t in mm H_2O NC in dB	1.43 <20	4.08 31	12.23 45	>20 >45	--------	--------	--------	--------
125	A= +10	P_t in mm H_2O NC in dB	0.41 <20	1.12 <20	3.06 26	5.61 33	9.2 42	--------	--------	--------
	A= 0	P_t in mm H_2O NC in dB	0.82 <20	1.83 <20	5.61 33	9.4 40	14.78 >45	--------	--------	--------
	A= -10	P_t in mm H_2O NC in dB	1.22 <20	3.06 26	8.87 42	16.3 >45	>20 >45	--------	--------	--------
160	A= +10	P_t in mm H_2O NC in dB	<0.4 <20	0.61 <20	1.83 20	4.3 25	5.7 31	9.2 37	12.7 40	--------
	A= 0	P_t in mm H_2O NC in dB	<0.4 <20	1.22 <20	3.78 25	8.2 35	11.2 41	18.3 45	>20 >45	--------
	A= -10	P_t in mm H_2O NC in dB	1.0 <20	2.75 30	8.2 41	16.3 >45	>20 >45	>20 >45	>20 >45	--------
200	A= +10	P_t in mm H_2O NC in dB	<0.4 <20	<0.4 <20	0.82 <20	1.63 <20	3.1 22	4.1 25	5.1 33	7.9 37
	A= 0	P_t in mm H_2O NC in dB	<0.4 <20	0.71 <20	1.83 <20	4.1 24	5.61 30	9.1 36	10.7 40	18.3 45
	A= -10	P_t in mm H_2O NC in dB	<0.4 <20	1.22 <20	4.3 26	7.6 35	10.7 39	18.3 45	>20 >45	>20 >45

- P_t = Total pressure loss across the disc valve in mm of H_2O.
- NC based on a room attenuation of 10 dB.
- A = +10,0 & -10 = position of the disc 10 mm down of normal position , at normal position,and 10 mm above normal position.
- One mm of H_2O = 9.8 pascal (N/m^2) = 0.0394 inch of H_2O.

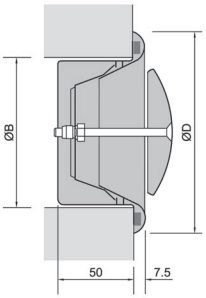
Exhaust Disc Valve
Model : EDV
دریچه تخلیه هوای دیسکی


Component Parts



1. Foam Gasket
2. Cross Bar
3. Inner Cone
4. Locknut
5. Valve Seat
6. Mounting Ring

Dimensions

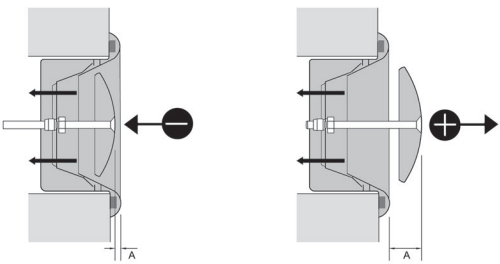


Size	ØB	ØD
100	100	139
125	125	160
150	150	192
160	160	196
200	200	232

مشخصات فنی

- قابل استفاده برای تخلیه هوا یا برگشت هوا .
- قابل نصب در کانال ، دیوار و یا سقف .
- نصب رینگ (عرض رینگ ۵۰ میلیمتر) در داخل کانال و یا محل جاسازی شده .
- نصب دریچه با گردش در داخل شکاف .
- تنظیم مقدار هوای مکش با گردش صفحه دیسکی حول محور در جهت یا خلاف جهت عقربه ساعت .
- جنس تمام قطعات از آهن.

Air Flow Regulation



Air flow regulation :
Adjust the air volume by rotating the valve disc in plus or minus direction.

⊖ ←A→ ⊕

A (mm). See Selection Table.

Exhaust Disc Valve
دریچه تخلیه یا برگشت هوا

Model : EDV

Size Selection Table

Neck size in mm dia	Position of disc	Air flow rate								
		CFM	10	20	40	60	80	100	150	200
		M^3/sec	0.0047	0.0094	0.0189	0.0283	0.0378	0.0472	0.071	0.094
80	A= +10	P_t in mm H_2O NC in dB	<0.4 <20	0.91 <20	4.3 26	10.2 37	--------	--------	--------	--------
	A= 0	P_t in mm H_2O NC in dB	<0.4 <20	1.43 <20	7.1 32	17.3 45	--------	--------	--------	--------
	A= -10	P_t in mm H_2O NC in dB	1.83 <20	5.1 23	18 45	>20 >45	--------	--------	--------	--------
100	A= +10	P_t in mm H_2O NC in dB	<0.4 <20	<0.4 <20	1.63 <20	3.8 23	5.8 31	9.7 37	--------	--------
	A= 0	P_t in mm H_2O NC in dB	<0.4 <20	0.76 <20	2.5 <20	5.6 30	9.7 35	14.7 45	--------	--------
	A= -10	P_t in mm H_2O NC in dB	0.61 <20	2.24 <20	7.6 35	15.2 40	>20 >45	>20 >45	--------	--------
125	A= +10	P_t in mm H_2O NC in dB	<0.4 <20	<0.4 <20	0.71 <20	1.42 <20	2.9 20	4.1 25	9.7 37	--------
	A= 0	P_t in mm H_2O NC in dB	<0.4 <20	<0.4 <20	1.83 <20	4.1 21	8.15 30	11.2 35	>20 >45	--------
	A= -10	P_t in mm H_2O NC in dB	<0.4 <20	2.1 <20	7.1 23	16.8 35	>20 >45	>20 >45	>20 >45	--------
160	A= +10	P_t in mm H_2O NC in dB	<0.4 <20	<0.4 <20	<0.4 <20	0.81 <20	1.43 <20	2.1 <20	5.2 28	9.7 37
	A= 0	P_t in mm H_2O NC in dB	<0.4 <20	<0.4 <20	0.81 <20	1.74 <20	3.4 <20	5.3 25	12.2 37	>20 45
	A= -10	P_t in mm H_2O NC in dB	<0.4 <20	0.5 <20	1.74 <20	3.8 <20	7.6 27	14.7 35	>20 >45	>20 >45
200	A= +10	P_t in mm H_2O NC in dB	<0.4 <20	<0.4 <20	<0.4 <20	<0.4 <20	0.76 <20	1.12 <20	2.6 27	4.38 34
	A= 0	P_t in mm H_2O NC in dB	<0.4 <20	<0.4 <20	0.7 <20	1.4 <20	2.3 <20	3.4 20	8.4 35	12.2 42
	A= -10	P_t in mm H_2O NC in dB	<0.4 <20	0.5 <20	1.62 <20	3.4 <20	7.1 <20	11.2 34	>20 >45	>20 >45

- P_t = Total pressure loss across the disc valve in mm of H_2O.
- NC based on a room attenuation of 10 dB.
- A = +10,0 & -10 = position of the disc 10 mm down of normal position , at normal position,and 10 mm above normal position.
- One mm of H_2O = 9.8 pascal (N/m^2) = 0.0394 inch of H_2O.

Spot Diffuser

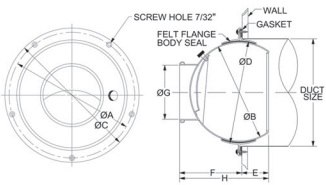
دریچه توزیع هوای موضعی

Models : DK/DK-E

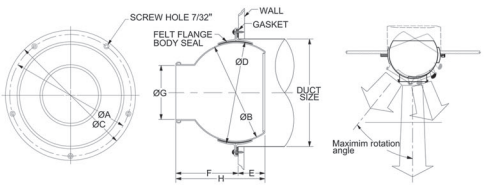
Model : DK (with Damper)

Model : DK-E (without Damper)

MODEL DK DIMENSIONS



MODEL DK-E DIMENSIONS

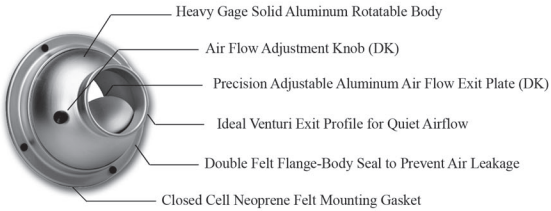


Model		Duct Size	A	B	C	D	E	F	G	H	SCREW HOLES	WEIGHT Lbs.	MAX.ROTATION ANGLE
DK 3	DK 3E	3 11/32	3 13/16	2 15/16	4 17/32	3 7/32	21/32	2 3/32	1 1/2	2 3/4	3	0.29	33°
DK 4	DK 4E	4 11/32	4 13/16	3 15/16	5 1/2	4 7/32	15/16	2 9/16	1 31/32	3 1/2	4	0.40	41°
DK 5	DK 5E	5 1/2	5 31/32	5 1/8	6 11/16	5 13/32	1 5/16	3 7/32	2 9/16	4 17/32	5	0.75	42°
DK 6	DK 6E	6 5/16	6 25/32	5 29/32	7 15/32	6 7/32	1 1/2	3 11/16	2 15/16	5 3/16	5	0.82	43°
DK 7	DK 7E	7 15/32	8 3/8	7	9 3/32	7 9/32	1 1/2	4 3/8	3 17/32	5 7/8	5	1.02	42°
DK 8	DK 8E	8 3/16	9 1/8	7 7/8	9 27/32	8 1/32	1 23/32	4 23/32	3 15/16	6 7/16	5	1.28	42°
DK 10	DK 10E	11 1/32	11 31/32	10 1/2	12 3/4	10 7/8	1 31/32	6 27/32	5 1/2	8 13/16	5	2.10	40°
DK 12	DK 12E	12 17/32	13 15/32	12	14 9/32	12 3/8	2 15/32	7 7/8	6 1/2	10 11/32	5	2.60	39°
DK 16	DK 16E	16 23/32	17 3/4	16 5/32	18 1/2	16 1/2	3 5/8	9 3/4	9 1/16	13 3/8	8	4.41	40°
DK 18	DK 18E	19 1/8	20 1/8	18 1/2	21 1/16	18 27/32	3 3/4	11 5/8	10 1/4	15 11/32	8	5.80	38°
DK 20	DK 20E	19 1/8	20 4/32	18 16/32	21 1/16	18 27/32	3 3/4	11 5/8	12 7/32	15 11/32	8	6.02	34°

Spot Diffuser

دریچه توزیع هوای موضعی

Models : DK/DK-E



Tech. Spec.

- The model DK and DK-E can be mounted in a vertical or horizontal position or any angle in between.
- The ventilation efficiency of the DK and DK-E allow long airflow throws to ventilate or condition remote areas where ducting would be impractical or cost prohibitive.
- The directional control can pinpoint the airflow where it's needed as space or occupant configurations change.
- The modulating volume control allows precise adjustment of airflow in all application without need for special tools,removal or disassembly (DK).
- Lightweight and corrosion-resistant finish.
- Deket's Model DK and DK-E pivoting body can be rotated in any 3-dimensional direction around its internal center.
- Maximum rotation angle up to 33°to 42°in all direction from its center axis.
- Air flow can be directed up to 90-feet depending upon CFM available.
- Applications in : Restaurants,Office Buildings,Factories, Shopping Centers,Retail Stores,Hospitals,Ships,Theatres, Sports Facilities,Studios and Airport Terminals.

مشخصات فنی

- نصب مدل DK و DK-E بصورت افقی ، عمودی و یا هر زاویه ای.
- راندمان DK و DK-E بنحوی است که پرتاب هوا در مسیری طولانی ادامه یافته ،بخصوص درفضاهایی که امکان کانال کشی میسر نیست و یا مقرون به صرفه نمی باشد.
- تمرکز جریان هوا روی فضاها و نفرات توسط دمپر موجود در این دریچه ها.
- وسیله کنترل جریان هوا روی این دریچه ها بنحوی است که احتیاجی به ابزارمخصوص یا پیاده و سوار کردن آن ندارد.
- وزن سبک و مقاومت در مقابل خورندگی.
- قابلیت گردش دریچه ها در حول مرکز دریچه.
- زاویه گردش در حول مرکز دریچه تا °۴۲.
- پرتاب جریان هوا تا حدود ۹۰ فوت.
- کاربری در رستورانها ، ادارات ، کارخانجات ، مراکز خرید ، فروشگاهها ، بیمارستانها ، کشتی ، سالنهای ورزشی ، استودیو و ترمینال فرودگاهها.

Spot Diffuser

دریچه توزیع هوای موضعی

Models : DK/DK-E

Size Selection Table

SIZE	Approx. Nozzle Velocity		500				1000				1500				2000				2500				3000				3500				4000			
	Terminal Velocity,Vt		50	100	200	400	50	100	200	400	50	100	200	400	50	100	200	400	50	100	200	400	50	100	200	400	50	100	200	400	50	100	200	400
3	Nozzle Area 0.012 Sq.ft	CFM	5				10				15				20				25				35				40				45			
		SP(in.wg)	0.01				0.03				0.09				0.19				0.31				0.75				0.82				1.1			
		NC	-				-				-				<20				<20				21				23				25			
		Throw(ft.)	7	5	2	-	12	7	3	-	18	9	6	2	25	12	7	3	31	15	8	4	50	25	12	6	55	27	13	7	60	30	15	8
4	Nozzle Area 0.021 Sq.ft	CFM	10				20				30				40				50				60				70				80			
		SP(in.wg)	0.01				0.05				0.14				0.25				0.39				0.56				0.8				1.05			
		NC	-				-				<20				<20				21				24				28				32			
		Throw(ft.)	9	6	3	-	18	10	5	-	27	14	7	3	36	18	9	5	44	23	12	6	53	28	14	7	65	32	16	8	75	37	18	9
5	Nozzle Area 0.036 Sq.ft	CFM	20				40				60				80				90				110				130				150			
		SP(in.wg)	0.02				0.07				0.18				0.31				0.40				0.68				0.93				1.3			
		NC	-				-				<20				<20				22				27				32				35			
		Throw(ft.)	15	10	5	-	30	15	8	2	42	21	9	6	55	29	15	8	62	35	17	9	80	40	19	10	98	45	29	12	105	52	27	14
6	Nozzle Area 0.047 Sq.ft	CFM	25				50				80				100				120				150				170				190			
		SP(in.wg)	0.02				0.07				0.18				0.29				0.44				0.82				0.93				1.2			
		NC	-				-				<20				20				21				27				30				33			
		Throw(ft.)	19	10	5	-	30	16	8	4	50	25	13	8	65	31	17	9	80	37	20	10	100	45	23	12	110	55	28	14	125	50	30	15
7	Nozzle Area 0.068 Sq.ft	CFM	35				70				110				140				170				210				240				280			
		SP(in.wg)	0.016				0.06				0.18				0.28				0.41				0.65				0.9				1.25			
		NC	-				-				<20				20				25				29				34				38			
		Throw(ft.)	22	11	6	2	36	19	9	4	60	29	15	8	80	36	19	10	90	45	23	12	105	60	27	14	125	65	32	16	150	72	37	19
8	Nozzle Area 0.085 Sq.ft	CFM	45				90				130				170				220				260				300				340			
		SP(in.wg)	0.016				0.06				0.17				0.27				0.38				0.64				0.92				1.2			
		NC	-				<20				<20				22				27				33				35				39			
		Throw(ft.)	25	12	7	4	40	20	12	6	62	30	16	9	85	39	20	11	105	52	27	13	125	62	30	17	150	72	35	19	162	80	38	20
10	Nozzle Area 0.165 Sq.ft	CFM	85				170				250				330				420				500				580				660			
		SP(in.wg)	0.014				0.06				0.14				0.24				0.44				0.63				0.92				1.2			
		NC	-				<20				<20				20				26				30				34				38			
		Throw(ft.)	30	15	8	5	55	30	14	7	90	42	22	10	112	55	29	14	148	72	36	17	162	84	42	21	190	100	48	24	225	112	55	28
12	Nozzle Area 0.230 Sq.ft	CFM	115				230				350				460				580				690				810				920			
		SP(in.wg)	0.012				0.055				0.12				0.22				0.43				0.6				0.92				1.2			
		NC	-				<20				<20				23				28				32				36				40			
		Throw(ft.)	35	17	9	6	66	35	17	7	100	50	27	13	137	65	34	17	162	82	42	22	187	100	50	26	220	112	57	29	250	130	70	34
16	Nozzle Area 0.448 Sq.ft	CFM	225				450				680				900				1120				1350				1570				1800			
		SP(in.wg)	0.012				0.06				0.12				0.21				0.41				0.62				0.9				1.2			
		NC	-				20				21				26				29				37				40				44			
		Throw(ft.)	47	25	12	7	90	47	24	12	138	66	36	18	175	95	47	23	225	112	55	28	250	137	65	35	275	160	80	42	350	175	95	47
18	Nozzle Area 0.573 Sq.ft	CFM	290				580				860				1150				1440				1720				2010				2300			
		SP(in.wg)	0.01				0.06				0.10				0.21				0.42				0.6				0.9				1.15			
		NC	-				<20				20				25				31				35				39				42			
		Throw(ft.)	55	27	13	7	112	55	27	13	152	98	40	20	200	110	52	26	250	125	67	33	300	155	78	40	350	175	90	47	400	200	110	48
20	Nozzle Area 0.814 Sq.ft	CFM	410				820				1230				1630				2040				2450				2850				3260			
		SP(in.wg)	0.01				0.06				0.12				0.17				0.41				0.61				0.9				1.2			
		NC	-				<20				20				27				32				38				42				45			
		Throw(ft.)	70	38	20	10	150	75	39	18	220	112	56	29	275	150	75	37	350	175	90	47	400	212	112	56	425	250	125	65	450	275	150	75

- THE THROW VALUES ARE BASED ON A 50 FPM TERMINAL VELOCITY.
- DASHED LINE IN SP BOX INDICATES STATIC PRESSURE IS LESS THAN 0.01 IN.W.G.
- DASHED LINE IN NC BOX INDICATES NOISE LEVEL IS LESS THAN 20.
- NC LEVEL IS BASED ON 10dB ROOM ATTENUATION (PWL RE:10-12 WATTS) WITH ONE DIFFUSER OPERATING.