ALANDALOSIA

FOR AIR OUTLET

CATALOGUE NO 14

JET NOZZLE

Air Outlet Andalosia

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OUR PRODUCTS

SELECTION GUIDE

1- SQUARE CEILING DIFFUSER
2- ROUND CEILING DIFFUSER
3- SWIRL DIFFUSER
4- PERFORATED CEILING DIFFUSER
5- LINEAR SLOT DIFFUSER
6- LINEAR CEILING DIFFUSER
7- LINEAR BAR GRILL
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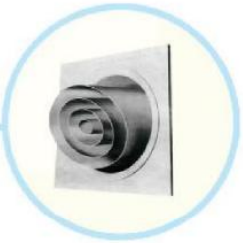
9- FLOOR & PERFPRATED FLOOR GRILL
10- TRANSFER GRILL
11- ACCESS PANEL
12- LOUVER
13- SAND TRAP LOUVER
14- JET NOZZLE



15- BALL JET NOZZLE
16- DRUM JET NOZZLE
17- DISC VALVE
18- NON RETURN DAMPER(SHUTTER)
19- VOLUME DAMPER
20- FIRE DAMPER
21- SMOKE DAMPER
22- DUCT ACCESS DOOR

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Air Outlet **Andalosia**

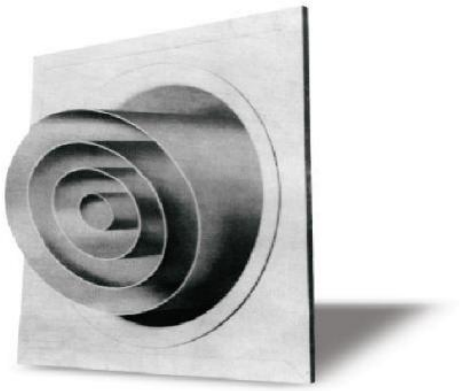
INTERTEK

INTRODUCTION

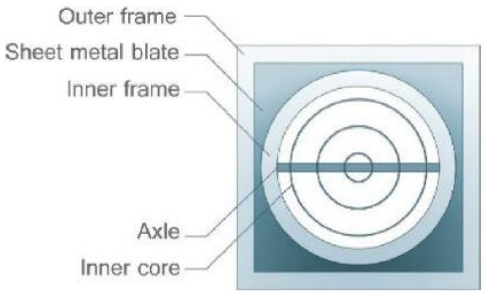
JET NOZZLE

Jet nozzle designed for handling large Air volume and long throw also, suitable for horizontal and vertical discharge application such as entrance ways, gymnasiums, swimming pools, airports.... Etc

For use in heating or cooling applications.



SPECIFICATIONS



FRAME

Drawing die high qality aluminum sheet forming

INNER CORE

Drawing die high qality aluminum sheet forming

AXLE

High qality extruded aluminum bar .
Adjustable core provides easy adjustment of the direction of the discharge up to maximum of 30° from the mid position of any plane.

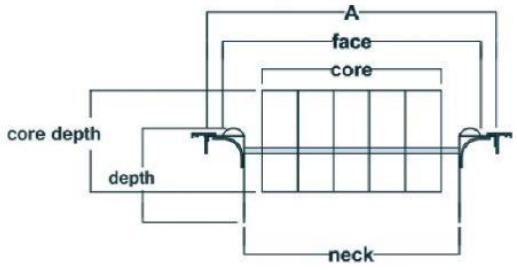
FACE BOARD PLATE

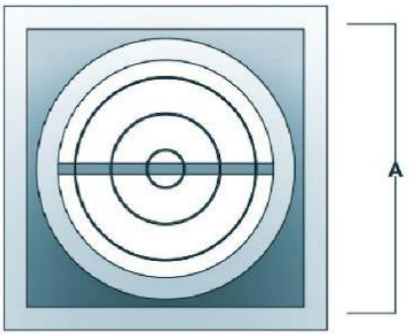
face board plate :- which holding the jet nozzle diffusser in order to install it .
consist of galvanized sheet metal plate .

FINISH

Standard mill finish or powder coated .
All colors available upon request .

SIZES

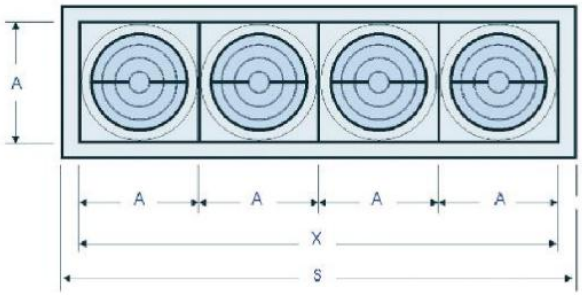




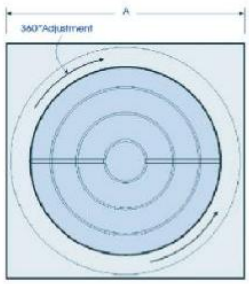
SIZE	NECK	A	FACE	CORE	CORE DEPTH	DEPTH	NO.OF.BLADES	C
8"	200	300	260	170	100	140	3	40
10"	250	350	310	200	130	150	3	20
12"	300	400	360	250	140	150	3	10
14"	350	450	410	300	160	160	4	0
18"	400	500	460	350	160	180	4	20

TYPES

MULTIPLE
ELEMENTS BANK



SINGLE
ELEMENT



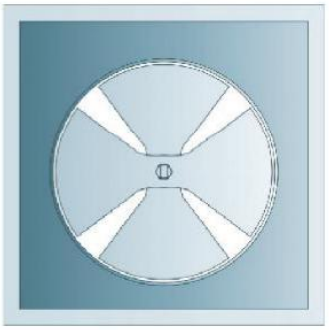
No. of Element	S			
	200	250	300	350
1	356	406	456	506
2	656	756	856	956
3	956	1106	1256	1406
4	1256	1456	1656	1856

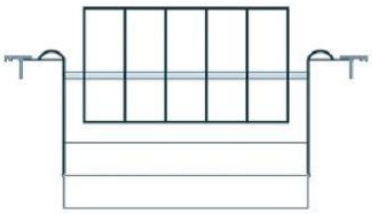
ACCESSORIES

(1) RADIAL DAMPER

Gang operated radial blades slide, each blade over the next, at right angles to the airflow

- it is separately mounted in the duct , just above the diffuser. Adjusts with a screw driver from the face side of the diffuser
- Galvanized steel material



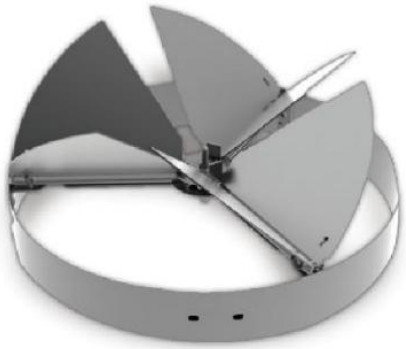


JET DIFFUSER WITH RADIAL DAMPER

(2) BUTTERFLY DAMPER

Mounts directly to the diffuser neck. Three sets of gang operated opposed blades distribute air evenly over the diffuser face. Quickly, easily adjusted from the face side of the diffuser.

- Galvanized steel material

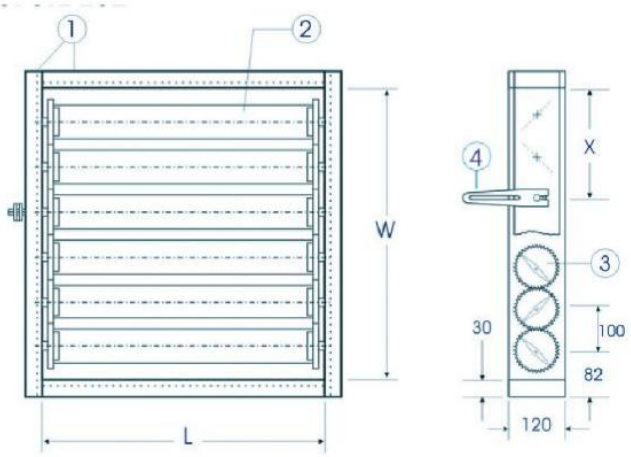


(3) PLENUM BOX

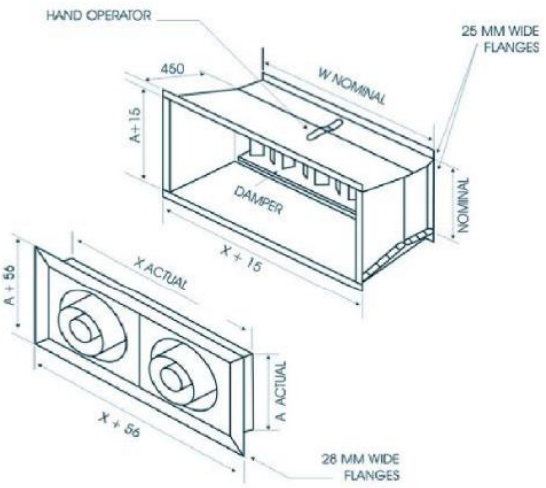
The plenum box is used to achive optimum throw characteristic.
It has top inlet spigot and made from 0.6 mm thick galvanized steel sheet.
acoustic foam can be laid inside the plenium box.

(4) VOLUME CONTROL DAMPER

The Volume Control Damper has been specially designed for installation in system where high/medium/low pressure are experienced.
These dampers are designed to operate from one control point.
The damper's bladeopening is controlled by hand locking quadrant or motor



1. Casing **(UPPER &SIDE FRAMES)**
2. Blade
3. plastic Gear
4. Drive Arm



PERFORMANCE DATA

- Data on the performance tables are based on 20°F temperature difference between supply air and average room temperature.
- Throw is the distance measured in feet that the air stream travels from outlets at 50 fpm. Terminal velocity
- If the air stream from diffuser happened to travels close to any surface such as obstructions, walls, ceiling etc. then that part of the throw will in crease by a factor of 1.4
- Throw and pressure drop of multi elements being set to give parallel discharge with total volume distributed equally to individual element
- The individual elements flow can be adjusted to any desired spread pattern where the throw will increase by 40% and sound level by 5dB
- NC ratings are based on control damper positioned 100 open and microphone located 10 feet at 45 from the face of the diffuser.

PERFORMANCE DATA

MODEL		Size 200				Size 250				Size 300				Size 350			
Air Flow	No. of Elements	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
100	Throw	9															
	Δ Ps	20															
	NC	-															
200	Throw	19	11			15											
	Δ Ps	.07	.02			.02											
	NC	23	-			-											
300	Throw	28.	14	11		22				18							
	Δ Ps	.14	.04	.02		.05				.02							
	NC	31	20	-		22				-							
400	Throw	37	23	12	11	29	18			24				22			
	Δ Ps	.24	.07	.03	.02	.08	.02			.04				.02			
	NC	37	26	19	15	27	15			21				15			
500	Throw	46	28	19	14	37	22			29				27			
	Δ Ps	.36	.10	.05	.03	.12	.03			.06				.03			
	NC	41	30	24	20	32	20			26				20			
600	Throw	55	34	23	17	44	26	18		36	22			33			
	Δ Ps	.05	.14	.07	.04	.17	.05	.02		.08	.02			.04			
	NC	45	34	28	23	35	25	17		29	17			23			
700	Throw		39	26	20	51	31	21		42	25			38			
	Δ Ps		.19	.09	.05	.22	.06	.03		.11	.03			.05			
	NC		37	31	25	38	27	21		32	21			25			
800	Throw		44	30	23	59	35	23	18	48	29			44	26		
	Δ Ps		.24	.12	.07	.29	.08	.04	.02	.14	.04			.06	.02		
	NC		40	34	29	41	30	24	18	35	24			28	18		
900	Throw		50	34	25	66	40	26	20	54	33	22		49	30		
	Δ Ps		.30	.14	.08	.35	.10	.05	.03	.17	.05	.02		.07	.02		
	NC		42	35	31	43	33	27	22	37	27	19		29	19		
1000	Throw		55	37	28	73	44	29	22	61	35	24		55	32		
	Δ Ps		.36	.17	.10	.43	.12	.06	.03	.21	.06	.03		.09	.03		
	NC		44	38	33	46	35	29	24	39	29	23		32	23		
1200	Throw		66	44	33		53	35	26	73	43	29	22	66	40	26	
	Δ Ps		.05	.24	.14		.17	.08	.05	.29	.08	.04	.02	.12	.04	.02	
	NC		48	41	37		38	32	28	43	32	26	20	35	26	20	
1400	Throw			52	39		61	41	31	85	50	34	25	77	46	31	
	Δ Ps			.32	.19		.22	.11	.06	.38	.11	.0	.03	.16	.05	.02	
	NC			45	40		41	35	30	46	35	28	24	39	28	21	
1600	Throw			59	44		71	47	35		58	39	29	88	53	35	26
	Δ Ps			.41	.24		.29	.14	.08		.14	.07	.04	.21	.06	.03	.02
	NC			47	43		44	38	33		38	32	27	41	31	25	21
1800	Throw			66	50		79	53	40		65	43	33	99	59	40	30
	Δ Ps			.50	.30		.35	.17	.10		.17	.08	.05	.26	.07	.04	.02
	NC			49	45		46	40	36		40	34	30	44	32	28	22

Notes : —Throw→FT —Air Flow→CFM —Noise Level→db —Total Pressure → IN W.G

PERFORMANCE DATA

MODEL		Size 200				Size 250				Size 300				Size 350			
Air Flow	No. of Elements	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
2000	Throw				55		88	58	44		73	48	35	110	66	44	32
	Δ Ps				.36		.43	.21	.12		.21	.10	.06	.31	.09	.04	.03
	NC				47		49	42	38		42	36	32	46	35	28	24
2200	Throw				61			66	48		80	53	40		73	48	36
	Δ Ps				.42			.24	.15		.25	.11	.07		.11	.05	.03
	NC				48			44	40		44	37	33		37	30	26
2400	Throw				66			70	53		88	58	43		79	53	40
	Δ Ps				.50			.29	.17		.29	.14	.08		.12	.06	.04
	NC				51			46	41		46	40	35		38	32	28
2600	Throw							76	57		94	63	47		.14	.57	.43
	Δ Ps							.33	.20		.34	.16	.10		40	.07	.04
	NC							48	43		48	41	37		92	34	29
2800	Throw							82	61		102	68	50		16	62	46
	Δ Ps							.38	.22		.38	.18	.11		.42	.08	.05
	NC							49	44		49	43	38		99	36	31
3000	Throw							87	66			73	54		19	66	49
	Δ Ps							.43	.25			.21	.12		.43	.09	.05
	NC							50	46			44	39		115	37	32
3500	Throw								77			85	63		25	77	58
	Δ Ps								.34			.28	.16		.46	.12	.07
	NC								49			47	43		132	40	35
4000	Throw								88			97	73		31	88	66
	Δ Ps								.43			.35	.21		.49	.15	.09
	NC								52			50	45			43	38
4500	Throw											109	82			99	77
	Δ Ps											.44	.26			.19	.11
	NC											52	48			45	40
5000	Throw												91			109	.82
	Δ Ps												.31			.23	.13
	NC												50			47	42
5500	Throw												99			120	91
	Δ Ps												.37			.27	.16
	NC												52			49	45
6000	Throw															132	99
	Δ Ps															.32	.19
	NC															51	46
6500	Throw																107
	Δ Ps																.22
	NC																48
7000	Throw																115
	Δ Ps																25
	NC																49

Notes : —Throw→FT —Air Flow→CFM —Noise Level→db —Total Pressure → IN W.G