



聯明坪山冷氣製品廠有限公司

LUEN MING PENGSHAN AIR CONDITIONING FACTORY LIMITED



AIR REGISTER AND GRILLE SINGLE & DOUBLE DEFLECTION



FEATURES

- ▶ Constructed from extruded aluminum , mild sheet steel or stainless sheet steel.
- ▶ Single deflection grille:
Grilles with one set of bars parallel or either vertical or horizontal frame.
- ▶ Double deflection Grille:
Grilles with two sets of bars at right angles to each other.
- ▶ Registers:
Grilles with volume control dampers mounted behind the grilles. Bars designed in aerofoil core section for minimum tortuosity & low noise level.

ASSESSORIES

OBD (Opposite Blade Damper) :
Fixed behind the diffuser as a volume controller. Manufactured from extruded aluminum with natural anodize or sheet steel with baked enamel in matt black.

FINISH

- ▶ Extruded Aluminum Construction:
Natural anodized or baked enamel in white as a standard. Special anodize or baked enamel in various color are also available.
- ▶ Steel Construction:
White baked enamel as standard finish. Special color finishes are also available to match architectural requirement.

DESCRIPTION

Suitable used for cooling, high side wall location is one of the preferred locations. the air can be directed slightly arched upward, and then will follow the ceiling due to the ceiling effect, mixing well with induced secondary air. In this way the mixed air temperature will not be unacceptably lower the room temperature before it drops to the occupied zone.

Suitable used for wave air heating, the high sidewall out let can also result in stratification of the warm air. Gilles & Registers can also be used at ceiling with result similar to high sidewall location.

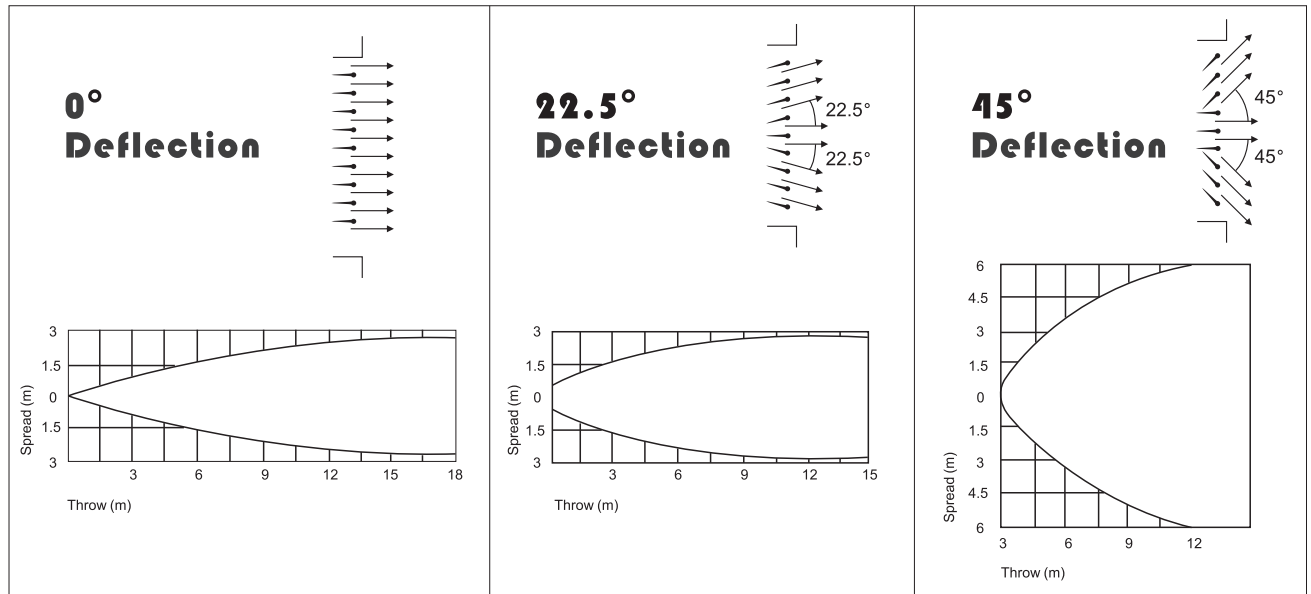
The adjustable blades of air grilles and registers provide a simple way for directing supply air into occupied space in varies flow patterns individually. Users can adjust each one of them according to its own location and the environment of served space.

To obtain long throw and narrow air pattern, adjust blades to 00° -22.5° deflection angle; for short throw and wide air pattern, adjust to 45° or more.

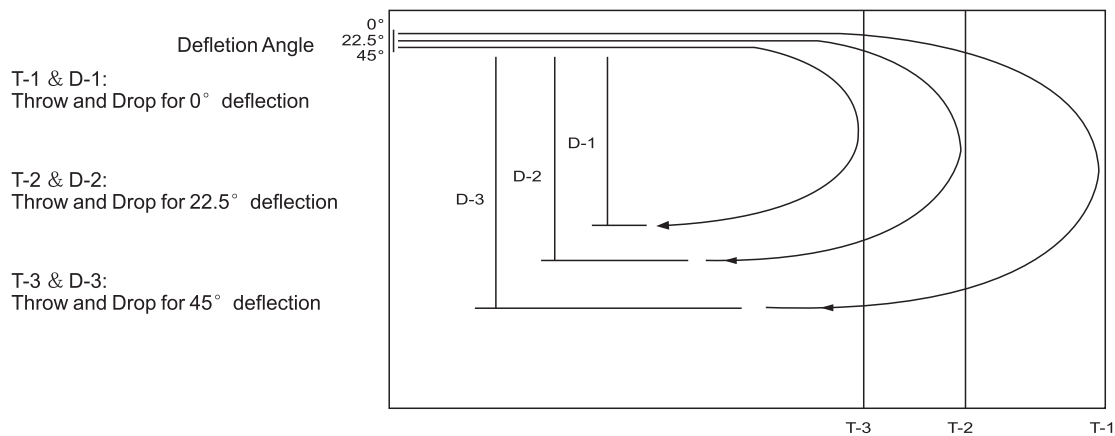


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At a constant air flow rate, the longest throw appears at 0° deflection and become shorter and shorter when the deflection angle turned greater. In general, Drop varies in proportion to Throw.



ORDERING INFORMATION

MODEL	MATERIAL	DEFLECTION	ACCESSORIES	SIZE	
DAG SAG	A/S	HV/VH V/H	W/OBD	LENGTH × WIDTH	BASE/NECK
Completed with Opposed Blade Damper H: Horizontal blades V: Vertical blades HV: Front horizontal blades & rear vertical blades VH: Front vertical blades & rear horizontal blades S: Steel construction A: Extruded Aluminium DAG: Double Deflection Grille SAG: Single Deflection Grille					

EXAMPLE: Model: DAG - A-HV, W/OBD, 600×600 (Neck)
Aluminium Double deflection grille, front horizontal & rear vertical blades, completed with opposed blade damper
600 length × 600 width neck size.



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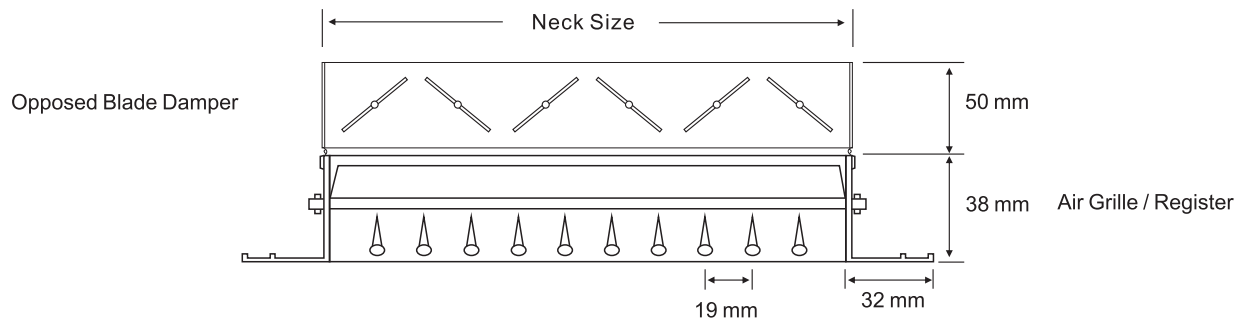
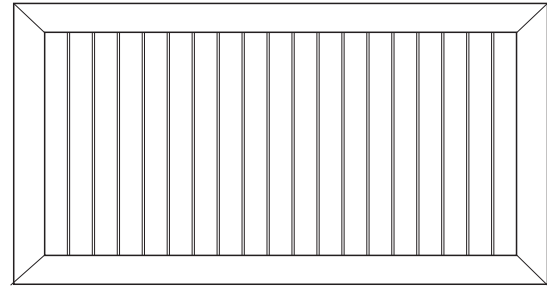
SAG-A-H

Single Horizontal Blades



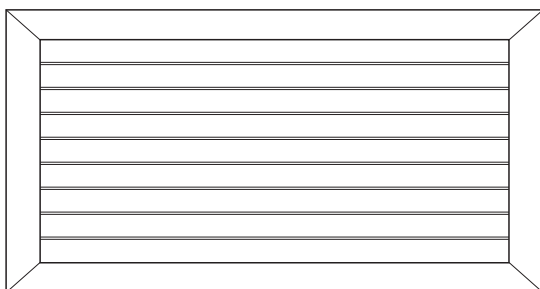
SAG-A-V

Single Vertical Blades



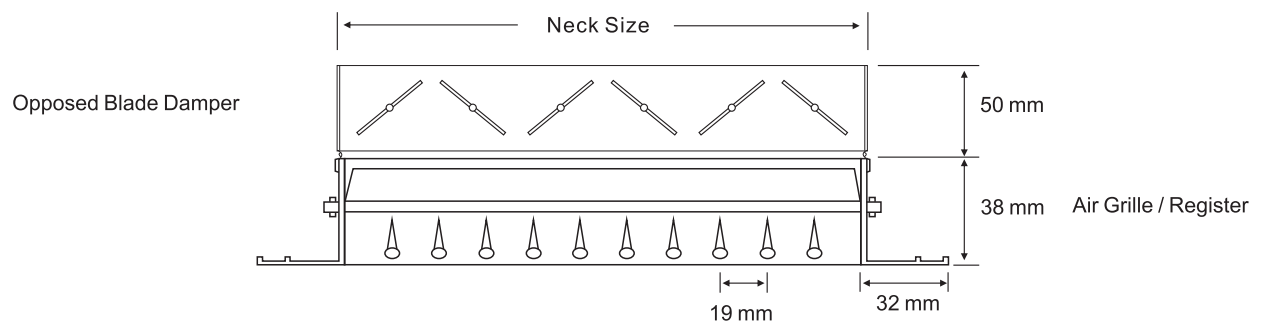
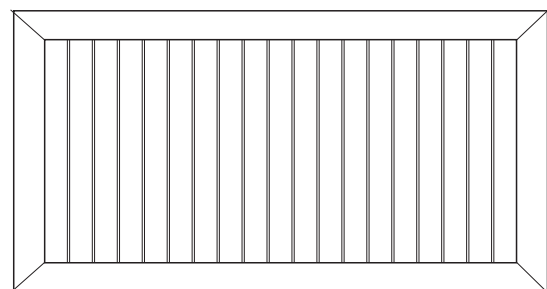
SAG-S-H

Single Horizontal Blades



SAG-S-V

Single Horizontal Blades





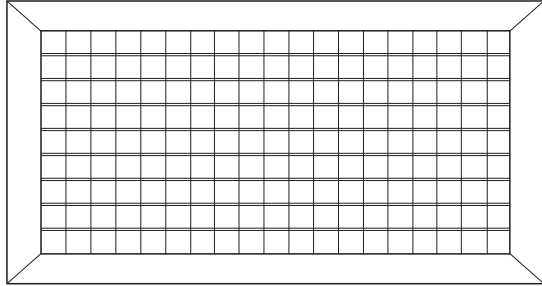
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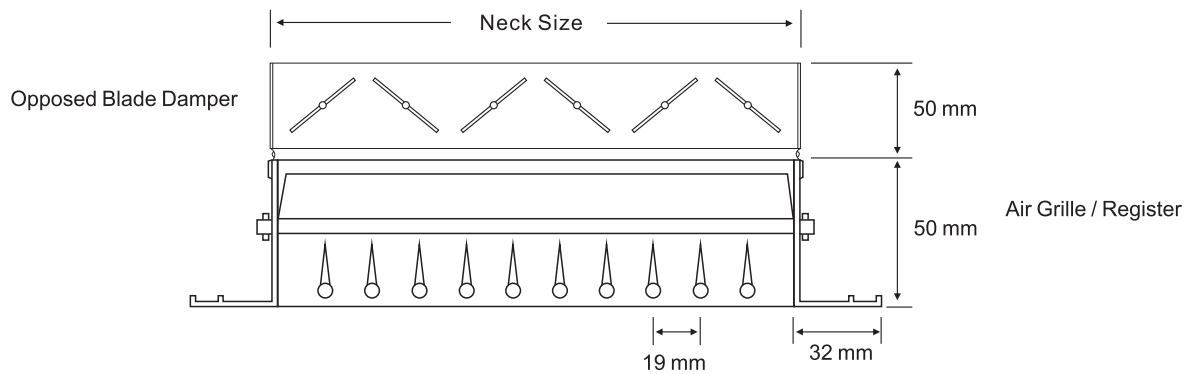
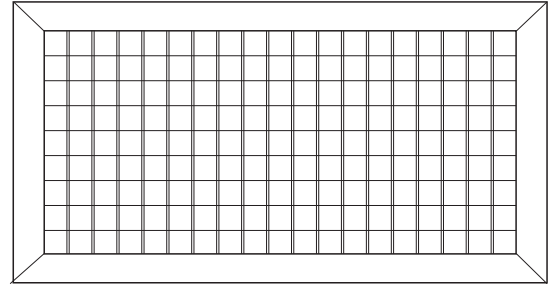
DAG-A-HV

Front Horizontal, Rear Vertical Blades



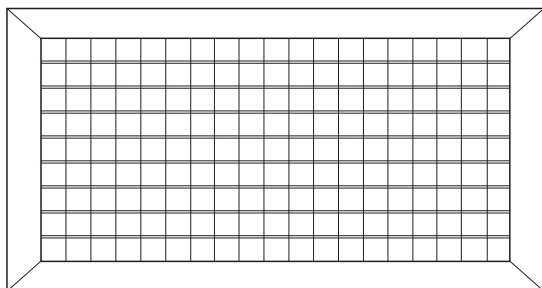
DAG-A-VH

Front Vertical, Rear Horizontal Blades



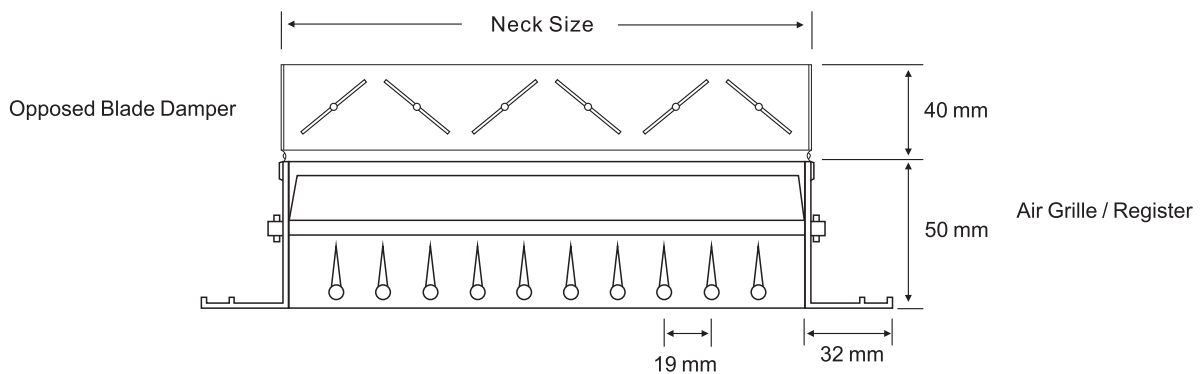
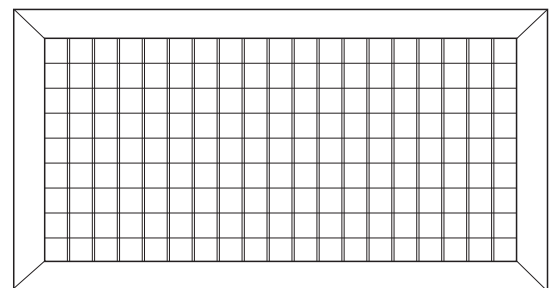
DAG-S-HV

Front Horizontal, Rear Vertical Blades



DAG-S-VH

Front Vertical, Rear Horizontal Blades





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PERFORMANCE DATA

Performance Data of Single Deflection Air Grille

m/s3	SIZE	125x125 200x100	150x150 200x150 250x100	200x150 250x125 300x100	250x150 300x125 400x100	300x150 350x125 450x100	250x100 350x150 400x125 550x100	250x250 300x200 400x150 500x125	300x250 350x200 500x150 600x125	300x300 450x200 600x150 750x125	500x200 700x150 800x150 1100x100	350x300 550x200 750x150 900x125
		Deflection	0 22.5 45	0 22.5 45	0 22.5 45	0 22.5 45	0 22.5 45	0 22.5 45	0 22.5 45	0 22.5 45	0 22.5 45	0 22.5 45
0.023	Velocity	1.8 1.9 2.1	1.4 1.5 1.6									
	Total Press.	4 4 5	2 2 3									
	Trow	3 2.7 1.8	3 2.4 1.8									
	Drop	1.2 0.9 0.4	1 0.9 0.4									
0.035	Velocity	2.7 2.8 3	2.1 2.2 2.4	1.5 1.8 2	1.4 1.5 1.6							
	Total Press.	8 9 12	5 5 7	3 4 4	2 2 3							
	Trow	4.3 4 2.7	3.6 3.3 2.1	3.3 2.7 2.1	2.7 2.4 1.8							
	Drop	1.3 1.2 0.7	1.3 1.2 0.7	1.3 1.2 0.7	1.3 1.2 0.7							
0.047	Velocity	3.6 3.7 4	2.8 2.9 3.2	2.4 2.5 2.7	1.9 2 2.1	1.6 1.7 1.8						
	Total Press.	15 17 22	9 250 13	6 6 8	3 4 5	2 2 3						
	Trow	5.7 4.8 3.6	4.5 4.2 2.7	4.5 3.9 2.7	3.9 3.3 2.4	3.3 3 2.1						
	Drop	1.5 1.2 0.9	1.5 1.3 0.9	1.6 1.3 0.9	1.6 1.3 0.7	1.6 1.3 0.9						
0.059	Velocity	4.4 4.6 5.1	3.6 3.7 4	3 3.1 3.4	2.4 2.5 2.7	2 2.1 2.2	1.8 1.9 2	1.4 1.5 1.6				
	Total Press.	23 26 34	14 15 20	9 10 13	5 6 7	3 4 5	3 3 4	2 2 3				
	Trow	6.7 6 4.2	6 5.1 3.3	5.4 4.8 3.3	4.8 4.2 3	4.2 3.6 2.7	3.6 3 2.4	3.4 2.7 1.5				
	Drop	1.6 1.3 1	1.6 1.5 0.9	1.8 1.5 0.9	1.8 1.5 0.9	1.8 1.5 1	1.9 1.5 0.9	2.1 1.7 1.1				
0.070	Velocity	5.4 5.6 56.1	4.3 4.4 4.9	3.6 3.7 6	2.8 2.9 3.2	2.4 2.5 2.7	2.1 2.2 2.4	1.8 1.8 20	1.4 1.5 1.6	1.2 1.2 1.3		
	Total Press.	34 37 50	20 29 21	13 14 19	8 11 12	5 6 7	4 4 6	2 3 4	2 2 2	1 1 2		
	Trow	7.9 7 4.8	7.3 6 4.5	6 5.4 3.9	5.7 5.1 3.3	5.1 4.5 3.3	4.5 3.9 3	4 3.4 2.1	3.4 2.7 2.1	2.7 2.1 1.5		
	Drop	1.8 1.5 1.2	1.8 1.5 1	1.9 1.5 1	1.9 1.6 1	1.9 1.5 1	2.1 1.6 1	2.1 1.7 1.1	2.1 1.7 1.1	2.3 1.8 1.2		
0.082	Velocity	6.2 7 7.5	5 5.2 5.7	4.2 4.3 4.7	3.3 3.4 3.7	2.8 2.9 3.1	2.5 2.6 2.8	2.0 2.1 2.3	1.7 1.7 1.9	1.4 1.4 1.6		
	Total Press.	46 51 57	29 40 45	17 19 26	10 11 15	7 8 10	6 6 8	3 4 5	2 2 3	2 2 3		
	Trow	9.1 8.5 5.4	7.9 7 4.8	7.3 6.4 4.5	6.7 5.4 3.9	6 6.1 3.6	5.4 4.8 3.3	4.6 4 2.7	4 3.4 2.4	3.4 2.7 1.8		
	Drop	1.9 1.6 1.3	1.8 1.6 1	2.1 1.6 1.2	2.5 1.6 1.2	2.1 1.8 1.2	2.1 1.8 1.2	2.3 2 1.2	2.3 2 1.2	2.3 2 1.4		
0.094	Velocity	7.2 7.4 8.1	5.7 5.9 6.5	4.8 4.9 5.4	3.8 3.9 4.3	3.2 3.3 3.6	2.8 2.9 3.2	2.3 2.4 2.6	1.9 2.0 2.2	1.6 1.7 1.8	1.4 1.4 1.6	
	Total Press.	60 67 87	35 37 51	23 24 34	13 15 19	9 10 13	7 8 11	4 5 6	3 3 4	2 3 3	1 2 2	
	Trow	10.1 9.7 6.4	9.4 8.2 5.7	8.5 7.3 5.1	7.8 6.7 4.5	6.7 6.7 4.2	6 5.1 3.9	5.2 4.6 3.4	4.6 4 3	4.3 3.7 2.4	3.4 3 2.1	
	Drop	2.2 1.8 1.2	1.9 1.8 1.2	2.2 1.8 1.3	2.1 1.8 1.2	2.1 1.9 1.2	2.1 1.9 1.3	2.3 2.0 1.4	2.4 2.1 1.2	2.6 2.3 1.5	2.6 2.4 1.7	
0.106	Velocity	7.9 8.3 9.2	6.5 6.7 7.3	5.4 5.5 6.1	4.3 4.4 4.8	3.6 3.7 4	3.2 3.3 3.6	2.6 2.7 2.9	2.2 2.2 2.5	1.8 1.9 2.0	1.5 1.6 1.8	
	Total Press.	75 85 11	45 48 85	29 31 42	17 19 24	12 13 17	9 10 13	6 6 8	4 4 5	2 3 4	2 2 2	
	Trow	12.1 10.9 7.3	10.3 9.1 6.4	9.7 8.2 5.7	8.5 7.3 5.1	7.3 6.4 4.5	6.7 5.7 4.2	6.1 5.2 4.0	5.2 4.3 3.4	4.6 4 2.7	4.0 3.4 2.4	
	Drop	2.4 1.8 1.5	2.1 1.9 1.2	2.4 1.9 1.3	2.2 1.8 1.3	2.2 1.9 1.3	2.4 2.1 1.3	2.4 2.1 1.4	2.4 2.1 1.4	2.7 2.4 1.5	2.9 2.4 1.7	
0.118	Velocity	9 9.2 10.2	7.2 7.4 10.2	7.2 7.4 8.1	6 6.1 6.8	4.8 4.9 5.4	4 4.1 4.5	2.9 3.0 3.2	2.4 2.5 2.7	2.0 2.0 2.3	1.7 1.8 1.9	
	Total Press.	95 105 137	55 60 80	35 37 52	21 23 30	14 16 21	11 12 16	7 8 10	4 5 7	3 4 4	2 2 3	
	Trow	13.4 11.5 7.6	11.5 9.7 7	10.3 8.8 6.4	9.1 7.9 5.7	8.2 7.3 5.1	7.9 6.7 4.8	6.7 5.8 4.3	5.8 4.9 4	5.2 4.6 3.4	4.5 3.7 2.7	
	Drop	2.4 1.9 1.5	2.2 1.09 1.5	2.5 2.1 1.5	2.4 1.9 1.5	2.5 1.9 1.5	2.5 2.1 1.5	2.6 2.1 1.5	2.6 2.3 1.4	2.9 2.6 1.7	2.9 2.4 1.7	
0.129	Velocity	9.9 10.2 11.2	7.9 8.1 9	6.6 6.8 7.5	5.3 5.4 5.9	4.4 4.5 4.9	3.9 4 4.4	3.2 3.3 3.6	2.6 2.7 3.0	2.2 2.3 2.5	1.9 1.9 2.1	1.6 1.7 1.8
	Total Press.	112 127 167	70 70 100	44 71 65	25 30 36	17 19 25	14 15 20	0 10 13	6 6 8	4 4 5	3 3 4	2 2 2
	Trow	14.3 12.1 8.5	12.5 10.9 7.6	10.9 9.4 7	9.7 8.8 6	8.8 7.9 5.7	8.2 7.3 5.4	7.3 6.4 4.9	6.7 5.5 4.3	5.8 5.2 4	4.9 4.3 3.0	4.3 3.4 2.4
	Drop	2.7 2.2 1.6	2.4 2.1 1.3	2.5 2.1 1.5	2.5 2.1 1.5	2.5 2.1 1.6	2.5 2.2 1.5	2.6 2.3 1.5	2.6 2.4 1.5	2.9 2.6 1.8	2.9 2.4 1.7	2.9 2.4 1.7
0.141	Velocity		8.7 8.9 9.8	7.2 7.4 8.2	5.8 5.9 6.5	4.8 4.9 5.4	4.3 4.4 4.9	3.5 3.6 4.0	2.9 3.0 3.3	2.4 2.5 2.7	2.1 2.1 2.3	1.8 1.8 2.0
	Total Press.		80 85 120	51 55 77	30 33 42	21 22 30	17 18 23	10 11 15	7 7 10	4 5 6	3 4 5	2 3 3
	Trow		13.4 11.8 8.5	11.8 10.3 7.6	10.3 9.4 6.7	9.4 8.5 6	8.8 7.9 5.7	7.9 7.0 5.2	7 6.1 4.6	6.4 5.5 4.3	5.5 4.9 3.7	4.9 4.3 3.0
	Drop		2.5 2.2 1.8	2.5 2.2 1.6	2.5 2.2 1.6	2.5 2.2 1.6	2.7 2.4 1.6	2.7 2.3 1.7	2.7 2.4 1.5	3.0 2.6 1.8	3.0 2.4 1.8	3.0 2.6 1.8
0.153	Velocity		9.4 9.6 10.6	7.8 8 8.8	6.2 6.4 7	5.2 5.3 5.8	4.7 4.8 5.3	3.8 3.9 4.2	3.1 3.2 3.6	2.6 2.7 2.9	2.2 2.3 2.5	1.9 2.0 2.2
	Total Press.		92 98 137	60 65 90	36 39 57	25 27 35	20 21 27	12 14 18	8 9 11	5 6 7	4 4 5	3 3 4
	Trow		14.3 12.5 9.1	13.8 11.2 8.2	11.8 10 7.3	1 8.8 6.4	9.4 8.5 5.4	8.8 7.6 5.5	7.06 6.7 5.2	7.0 6.1 4.6	6.1 5.5 4.3	5.5 4.9 3.7
	Drop		2.7 2.4 1.8	2.7 2.4 1.5	2.7 2.4 1.6	2.7 2.4 1.6	2.7 2.4 1.6	2.7 2.4 1.7	2.7 2.4 1.7	3.0 2.7 1.8	3.0 2.6 1.8	3.0 2.7 1.8
0.165	Velocity			8.4 8.6 9.5	5.7 6.9 7.5	5.6 5.7 6.3	5.1 5.2 5.7	4.1 4.2 4.6	3.4 3.5 3.8	2.8 2.9 3.2	2.4 2.5 2.7	2.1 2.1 2.3
	Total Press.			75 75 105	41 45 60	28 31 41	23 23 32	14 16 20	9 10 13	6 7 9	4 5 6	3 4 4
	Trow			14 125 8.8	12.8 10.9 7.9	10.5 9.4 7	10 8.8 7	9.5 8.2 6.1	8.2 7.3 5.5	7.3 6.4 4.6	6.4 5.8 4.6	5.8 5.5 4.3
	Drop			2.7 2.4 1.8	2.7 2.4 1.6	2.8 2.4 1.6	2.8 2.4 1.6	2.9 2.4 1.7	2.9 2.4 1.7	3.2 2.7 2.0	3.2 2.6 1.8	3.2 2.7 1.8
0.177	Velocity			9 9.2 10.2	7.2 7.4 8.1	6 6.2 6.4	5.4 5.5 6.1	4.4 4.4 4.9	3.6 3.7 4.1	3.0 3.1 3.4	2.6 2.6 2.9	2.2 2.3 2.4
	Total Press.			82 86 120	47 52 67	32 36 32	26 28 36	16 18 23	10 11 15	7 8 10	5 6 7	4 4 4
	Trow			15.2 13.1 9.4	13.4 11.8 8.5	11.6 10.3 7.6	10.9 9.7 7.6	10 8.8 6.4	8.8 7.6 6.1	7.6 6.7 5.2	7.0 6.1 4.9	6.1 5.8 4.6
	Drop			2.8 2.5 1.9	2.8 2.4 1.8	2.8 2.5 1.8	2.8 2.5 1.8	2.9 2.6 1.6	2.9 2.5 1.8	3.2 2.9 2.0	3.2 2.7 2.0	3.2 2.9 2.0
0.188	Velocity			9.6 9.9 10.9	7.7 7.9 8.6	6.4 6.6 7.2	5.8 5.9 6.5	4.7 4.8 5.2	3.9 4.0 4.4	3.2 3.3 3.6	2.8 2.9 3.1	2.4 2.4 2.8
	Total Press.			92 96 135	55 60 77	37 40 55	30 32 42	18 20 26	12 13 17	8 9 11	6 6 8	4 5 6
	Trow			16.1 13.1 10	14 12 9.1	12.5 10.9 8.7	11.8 10.3 8.2	10.7 9.5 7.0	9.1 8.2 6.4	8.2 7.3 5.5	7.3 6.7 5.2	6.7 6.1 5.2
	Drop			3 2.7 2.1	3 2.5 1.9	3 2.5 1.9	3 2.5 1.9	3 2.6 2.0	3 2.6 1.8	3.4 3.0 2.0	3.4 3.0 2.0	3.4 3.0 2.1
0.200	Velocity				8.2 8.4 9.1	6.8 7 7.6	6.1 6.3 5.9	5.0 5.1 5.6	4.1 4.2 4.6	3.4 3.5 3.8	2.9 3.0 3.3	2.5 2.6 2.8
	Total Press.				61 67 85	41 46 62	34 36 47	21 23 28	13 15 19	9 10 13	7 7 9	5 5 6
	Trow				14.9 12.8 10	13.4 11.5 8.8	12.5 10.9 8.8	11.3 10.1 7.6	9.5 8.5 6.7	8.8 7.6 5.8	7.6 7.0 5.5	7.0 6.4 5.8
	Drop				3.3 2.7 2.2	3.3 2.7 2.1	3.2 2.7 2.1	3.2 2.7 2.1	3.2 2.7 2.1	3.2 2.7 2.1	3.4 3.0 2.1	2.4 3.0 2.1
0.212	Velocity				6.6 8.9 9.7	7.2 7.4 8.1	6.5 6.7 7.3	5.2 5.4 5.9	4.3 4.4 4.9	3.6 3.7 4.1	3.1 3.2 3.6	2.7 2.7 3.0
	Total Press.				69 75 95	47 52 70	37 40 52	24 26 34	13 16 22	10 11 14	7 8 10	5 6 7
	Trow				15.2 13.1 10.6	13.7 12.1 9.4	12.8 11.5 9.1	11.9 10.4 8.2	10 8.8 7	9.1 7.9 6.1	7.9 7.3 5.8	7.6 6.7 6.1
	Drop				3.5 2.8 2.2	3.5 2.8 2.1	3.5 2.8 2.1	3.4 2.9 2.1	3.4 2.9 2.1	3.5 3 2.1	3.5 3.0 2.1	3.5 3.0 2.1
0.224	Velocity					7.6 7.8 8.6	6.9 7 7.7	5.5 5.6 6.2	4.6 4.7 5.2	3.8 3.9 4.3	3.3 3.4 3.7	2.8 2.9 3.1
	Total Press.					53 57 77	41 45 60	26 28 38	17 18 24	11 12 16	6 9 12	6 6 8
	Trow					14.3 12.8 9.7	13.4 11.8 9.5	12.2 11 8.5	10.7 9.5 7.3	9.8 8.2 6.4	6.5 7.9 6.1	7.9 7.0 6.4
	Drop					3.5 2.8 2.2	3.5 11.8 2.1	3.5 2.9 2.1	3.5 2.9 2.3	3.7 3.2 2.3	3.7 3.2 2.3	3.7 3.2 2.3
0.236	Velocity					8 8.2 9	7.2 7.4 8.1	5.8 5.9 5.6	4.9 5.0 5.5	4.0 4.1 4.5	3.5 3.5 3.9	3.0 3.0 3.3
	Total Press.					58 65 85	46 50 65	29 32 41	19 20 27	1		



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Performance Data of Double Deflection Air Grille

m/s3	SIZE	250x200	300x200	350x200	300x300	500x200	550x200	350x350	500x300	500x350	450x450	600x600
		350x150 400x125 500x100	400x150 500x125 650x100	500x150 600x125 800x100	450x200 600x150 750x120	700x150 850x125 1100x100	750x150 900x125 1200x100	500x250 600x200 850x150	600x250 750x200 1050x150	600x300 750x250 900x200	700x300 800x250 1000x200	900x400 1200x300 1850x200
	Deflection	0 22.5 45	0 22.5 45	0 22.5 45	0 22.5 45	0 22.5 45	0 22.5 45	0 22.5 45	0 22.5 45	0 22.5 45	0 22.5 45	0 22.5 45
0.283	Velocity	8.2 9 9.8	7 7.1 8	5.8 5.9 6.8	4.9 5 5.5	4.4 4.4 4.9	3.6 3.7 4	2.7 2.8 3.0	2.5 2.6 2.8	2.2 2.2 2.4	1.7 1.8 1.9	
	Total Press.	67 69 96	42 46 61	27 29 39	18 20 26	13 14 19	9 10 13	5 6 8	5 6 7	3 4 7	2 3 3	
	Trow	16.4 13.7 10.6	14 13.1 10	13.1 11.2 8.5	11.5 10 7.9	10 9.1 7.3	9.4 8.5 7.3	9.1 8.2 6.7	8.5 7.6 6.1	7.3 6.1 4.9	6.1 4.6 3.4	
	Drop	3.9 3.2 2.2	3.8 3.2 2.2	3.8 3.2 2.2	3.8 3.2 2.2	3.8 3.2 2.4	4.1 3.3 2.4	4.3 3.5 2.7	4.3 3.7 2.9	4.4 3.7 2.9	4.4 3.7 2.9	
0.306	Velocity	8.8 9.7 10.8	7.6 7.7 8.5	6.3 6.4 7.1	5.3 5.4 5.9	4.7 4.8 5.3	3.9 4 4.3	2.9 3.0 3.3	2.7 2.8 3.0	2.3 2.4 2.5	1.8 1.9 2.1	
	Total Press.	77 82 110	49 54 70	31 34 45	21 23 31	15 17 22	11 12 15	5 7 9	5 6 8	4 4 6	3 3 4	
	Trow	17.9 15.2 11.2	15.2 14 10.6	14 12.1 9.1	12.5 10.9 8.5	10.6 9.7 7.6	10 9.1 7.9	9.8 8.5 7.0	9.1 8.2 6.4	7.9 6.7 5.2	6.7 5.8 4.0	
	Drop	4.2 3.3 2.4	4.1 3.3 2.4	4.1 3.3 2.4	4.1 3.3 2.5	4.4 3.8 2.7	4.5 3.8 2.7	4.4 3.5 2.7	4.4 3.7 2.9	4.6 3.8 2.9	4.6 3.8 2.9	
0.330	Velocity	9.5 10.4 11.4	8.2 8.3 9.1	6.8 5.9 7.1	5.6 5.8 6.4	5.1 5.2 5.7	4.2 4.3 4.6	3.2 3.3 3.6	2.9 3.0 3.3	2.5 2.6 2.8	2.0 2.1 2.3	1.6 1.7 1.8
	Total Press.	90 82 127	57 61 82	36 40 52	24 27 35	18 20 25	12 16 21	7 8 11	6 7 9	5 5 6	3 3 4	2 2 3
	Trow	19.5 16.7 11.2	16.4 14.9 11.2	14.9 13.1 10	13.4 11.8 9.1	11.5 10.6 8.2	10.9 9.7 8.2	10.4 9.1 7.6	10.1 8.8 6.7	8.8 7.3 5.5	7.6 6.4 4.3	5.8 4.9 3.4
	Drop	4.5 3.6 2.7	4.4 3.5 2.7	4.4 3.5 2.5	4.4 3.5 2.5	4.4 3.8 2.7	4.5 3.8 2.7	4.4 3.8 2.9	4.4 4.0 3.0	4.6 4.0 3.0	4.6 4.1 3.0	4.6 4.3 3.0
0.353	Velocity		8.7 8.9 9.8	7.2 7.4 8.2	0 6.2 6.8	5.4 5.6 6.4	4.4 4.6 5	3.4 3.5 3.8	3.1 3.2 3.5	2.7 2.8 3.0	2.1 2.2 2.4	1.7 1.8 2.0
	Total Press.		66 70 96	42 45 61	28 31 41	20 22 29	13 16 18	9 10 13	7 8 11	6 6 7	3 4 5	3 3 4
	Trow		17.6 14.5 11.8	15.8 14 10.9	14.3 12.8 9.7	12.5 11.5 8.8	11.0 10.6 8.8	10.4 9.1 7.0	9.8 8.2 6.1	8.8 7.0 5.2	6.4 5.5 4.0	5.4 4.5 3.0
	Drop		4.7 3.8 3	4.7 3.6 2.7	4.7 3.6 2.7	4.7 3.9 2.8	5 3.9 2.8	4.9 4.0 2.9	5.0 4.1 3.2	5.2 4.4 3.4	5.0 4.4 3.4	5.0 4.04 3.4
0.371	Velocity		9.3 9.6 10.4	7.7 7.9 8.7	6.5 6.6 7.3	5.8 5.9 6.6	4.7 4.9 5.3	3.6 3.7 4.1	3.4 3.4 3.7	2.9 2.9 3.2	2.3 2.4 2.6	1.9 1.9 2.1
	Total Press.		75 80 107	47 51 67	31 35 48	23 25 33	16 18 23	9 11 14	8 9 12	6 7 9	4 4 6	3 3 3
	Trow		18.7 16.7 12.5	17 14.9 11.8	15.5 13.7 10	13.4 12.5 9.7	12.5 11 9.1	11.6 10.4 8.5	10.7 9.8 7.3	10.1 8.8 6.4	9.5 7.9 5.8	7.0 6.1 4.9
	Drop		5 4.1 3.2	4.8 3.8 2.8	5 3.8 2.8	5 4.1 3	5.3 4.1 3	5.2 4.1 3.0	5.3 4.3 3.2	5.5 4.4 3.4	5.6 4.6 3.5	5.6 4.6 3.5
0.424	Velocity			8.7 8.9 9.8	7.2 7.4 8.2	6.5 6.7 7.4	5.4 5.5 6	4.1 4.2 4.5	3.8 3.8 4.2	3.2 3.3 3.6	2.6 2.7 2.9	2.1 2.1 2.3
	Total Press.			61 65 87	40 44 59	29 33 42	21 23 30	12 14 18	10 12 15	7 8 11	5 5 7	3 4 5
	Trow			18.5 16.1 13.1	16.4 14.9 10.6	14.3 13.4 10.6	13.4 11.5 10.3	12.8 11.6 9.1	11.9 11.0 8.2	11.3 9.5 7.0	10.1 8.5 6.4	7.6 6.7 5.8
	Drop			5.1 4.1 3.2	5.1 4.1 3.2	5.3 4.2 3.2	5.4 4.2 3.2	5.3 4.3 3.2	5.5 4.4 3.4	5.6 4.4 3.5	5.6 4.6 3.5	6.1 4.7 3.7
0.471	Velocity			8.1 8.3 9.1	7.3 7.4 8.2	5.9 8.1 8.7	4.5 4.6 5.1	4.2 4.3 4.6	3.6 3.7 4.0	2.9 3.0 3.3	2.3 2.4 2.6	
	Total Press.			48 54 72	36 40 52	25 28 37	15 17 22	13 14 19	9 10 13	6 7 9	4 4 5	
	Trow			17 15.5 11.5	15.8 14.3 11.2	14.6 12.5 10.9	13.7 12.5 9.8	12.5 11.9 8.8	11.9 10.4 7.6	11.0 9.1 7.0	8.5 7.6 6.4	
	Drop			5.4 4.4 3.5	5.4 4.5 3.5	5.6 4.5 3.5	5.5 4.3 3.5	5.6 4.4 3.5	5.9 4.6 3.7	6.1 4.9 3.7	6.3 4.9 3.8	
0.519	Velocity			8.9 9.1 10	8 8.2 9	6.5 6.7 7.3	5.0 5.1 5.6	4.6 4.7 5.1	3.9 4.0 4.4	3.2 3.3 3.6	2.5 2.6 2.8	
	Total Press.			58 65 87	44 47 62	30 34 44	18 20 27	15 17 23	11 12 16	7 8 10	5 5 6	
	Trow			18.9 18.4 12.5	17.3 15.2 11.8	15.8 13.7 11.5	14.3 13.4 10.1	13.7 12.8 9.5	13.1 11.0 7.9	12.2 9.8 7.8	9.5 8.5 7.0	
	Drop			5.7 4.7 3.8	5.7 4.8 3.8	5.9 4.6 3.8	5.9 4.9 3.7	6.1 4.9 3.7	6.1 5.0 3.8	6.3 5.0 3.8	6.4 5.3 4.0	
0.566	Velocity				8.7 8.9 9.8	7.1 7.3 8	5.4 5.6 6.1	5.0 5.1 5.6	4.3 4.4 4.8	3.5 3.6 3.9	2.8 2.8 3.1	
	Total Press.				52 56 75	36 40 53	22 24 32	18 20 27	13 15 19	8 9 12	5 6 8	
	Trow				18.5 16.4 12.1	17 14.9 12.5	15.5 14.0 10.7	14.6 13.4 10.1	14 11.9 8.5	13.1 10.7 8.2	10.4 9.1 7.6	
	Drop				8 5 3.9	6.2 5 3.9	6.3 5.0 3.8	6.3 5.2 3.8	6.3 5.2 3.8	6.4 5.2 3.8	6.6 5.3 4.0	
0.613	Velocity				7.7 7.9 8.7	5.9 6.0 6.6	5.4 5.5 6.0	4.6 4.8 5.2	3.8 3.9 4.2	3.0 3.1 3.4		
	Total Press.				43 47 62	26 28 38	21 24 32	16 17 22	10 11 14	6 7 9		
	Trow				18.2 16.4 12	16.2 14.9 11.5	15.9 14.3 10.7	15.2 12.8 9.1	14.0 11.6 8.5	11.6 9.8 7.9		
	Drop				6.4 5.3 4.1	6.4 5.3 4.1	6.4 5.3 4.1	6.4 5.3 4.1	6.4 5.3 4.1	6.7 5.3 4.1	6.7 5.5 4.1	
0.661	Velocity						6.4 6.5 7.1	5.8 6.0 6.5	5.0 5.2 5.6	4.1 4.2 4.5	3.2 3.3 3.6	
	Total Press.						30 33 44	25 28 38	18 20 26	11 12 17	7 8 10	
	Trow						17.1 18.2 11.9	16.8 14.9 11.0	16.2 13.7 9.5	14.9 12.5 9.1	12.8 10.7 8.5	
	Drop						6.7 5.5 4.3	6.9 5.5 4.3	6.9 5.5 4.4	6.9 5.5 4.4	7.0 5.6 4.4	
0.707	Velocity							6.2 6.4 7.0	5.4 5.5 6.0	4.3 4.4 4.9	3.5 3.5 3.9	
	Total Press.							29 31 43	21 23 30	13 15 19	8 9 12	
	Trow							17.2 16.9 11.6	17.1 14.8 10.1	16.2 13.4 9.5	14.0 11.6 8.8	
	Drop							6.8 5.9 4.4	6.9 5.6 4.4	6.9 5.8 4.4	7.0 5.8 4.4	
0.755	Velocity							6.7 6.8 7.4	5.7 5.8 6.5	4.6 4.7 5.2	3.7 3.8 4.1	
	Total Press.							33 36 49	24 25 34	15 17 22	10 11 13	
	Trow							18.6 16.8 12.5	18.0 16.5 10.7	17.1 14.3 10.1	14.6 12.5 9.5	
	Drop							7.0 5.8 4.6	7.0 5.8 4.6	7.0 5.8 4.6	7.2 5.9 4.6	
0.802	Velocity							7.1 7.3 7.9	6.1 6.2 6.9	4.9 5.1 5.5	3.9 4.0 4.4	
	Total Press.							37 40 56	37 29 38	17 19 24	11 12 15	
	Trow							19.5 18.0 13.1	18.9 16.5 11.3	18.0 15.2 10.7	16.5 13.7 9.8	
	Drop							7.2 5.9 4.7	7.2 6.1 4.7	7.2 6.1 4.7	7.3 6.3 4.7	
0.849	Velocity								6.4 6.6 7.3	5.2 5.4 5.9	4.2 4.2 4.7	
	Total Press.								31 33 43	19 21 28	12 13 17	
	Trow								19.5 17.4 12.2	18.6 16.2 11.3	15.2 14.0 10.4	
	Drop								7.2 5.9 4.7	7.2 6.1 4.7	7.3 6.3 4.7	
0.896	Velocity									5.5 5.7 6.2	4.4 4.5 4.9	
	Total Press.									21 23 30	12 15 19	
	Trow									18.5 17.4 11.6	18.0 14.9 11.0	
	Drop									7.3 6.3 4.9	7.6 6.6 4.9	
0.943	Velocity										4.6 4.7 5.2	
	Total Press.										17 18 21	
	Trow										18.6 15.5 11.5	
	Drop										7.6 6.6 5.0	
1.132	Velocity										5.5 5.7 6.2	
	Total Press.										23 24 30	
	Trow										19.2 17.7 12.8	
	Drop										7.9 6.7 5.2	



聯明坪山冷氣製品廠有限公司

LUEN MING PENGSHAN AIR CONDITIONING FACTORY LIMITED



FREE AREA

Free Area (in sq.m) of Single Deflection Air Grille

SIZE	150x125			150x150			200x150			250x150			300x150			250x100		
	200x100			200x125			250x125			300x125			350x125			350x150		
				250x100			300x100			400x100			450x100			400x125		
																550x100		
Deflection	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°
Free Area	0.011	0.01	0.008	0.014	0.013	0.011	0.017	0.016	0.013	0.023	0.021	0.017	0.029	0.027	0.021	0.033	0.031	0.024

SIZE	250x250			300x250			300x300			500x200			350x300		
	300x200			350x200			450x200			700x150			550x200		
	400x150			500x150			750x125			850x150			750x150		
	500x125			600x125			600x150			1100x100			900x125		
Deflection	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°
Free Area	0.04	0.036	0.03	0.051	0.046	0.037	0.062	0.057	0.046	0.073	0.067	0.054	0.077	0.071	0.057

Free Area (in sq.m) of Double Deflection Air Grille

SIZE	250x200			300x200			350x200			300x300			500x200			550x200		
	350x150			400x150			500x150			450x200			700x150			750x150		
	400x125			500x125			600x125			600x150			850x125			900x125		
	500x100			650x100			800x100			750x125			1100x100			1200x100		
Deflection	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°
Free Area	0.033	0.031	0.024	0.04	0.036	0.03	0.051	0.046	0.037	0.062	0.057	0.046	0.073	0.067	0.054	0.077	0.071	0.057

SIZE	350x350			500x300			500x350			450x450			600x600		
	500x250			600x250			600x300			700x300			900x400		
	600x200			750x200			700x250			800x250			1200x300		
	850x150			1050x150			900x200			1000x200			1850x200		
Deflection	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°
Free Area	0.09	0.083	0.066	0.111	0.101	0.082	0.134	0.122	0.098	0.155	0.139	0.112	0.288	0.259	0.206