

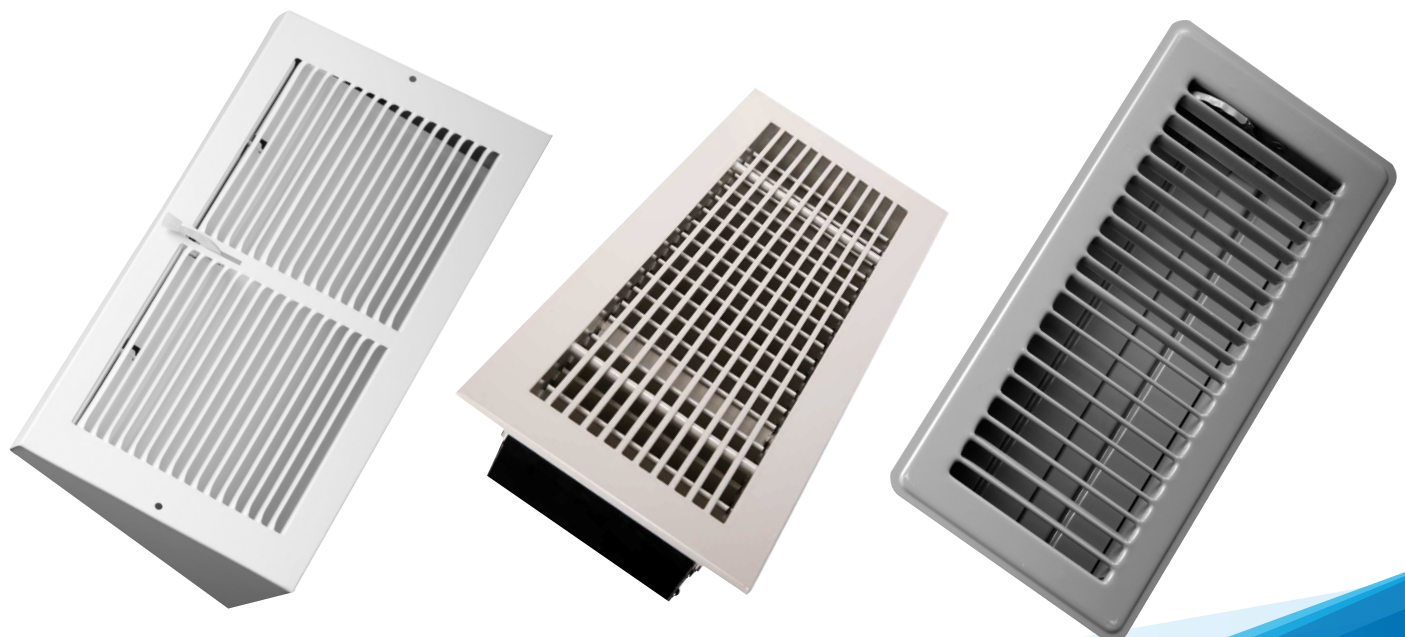
MANUFACTURER OF AIR OUTLETS :

Grills, Diffusers, Control Volume Damper (VCD), Non Return Damper (NRD), Fire Rated Air Ducting and Louvers Systems.

GRILLS AND REGISTERS

FABRICATION OF GI DUCTS, PI DUCTS, FLEXIBLE DUCTS & EXHAUST AND FRESH AIR LOUVERS

SALE OF FIRE DAMPERS, MOTORIZED SMOKE FIRE DAMPER (MSFD)



GRILL & REGISTERS

DOUBLE DEFLECTION REGISTER

Construction:

- **Frame:** AirPro Grills & Registers are constructed with high quality extruded Aluminum Profiles and with 30mm Flange Width. Flange Width below 30mm is optional.
- **Blades & Spacing:** Extruded Aluminum aerofoil blades. Standard Blade Spacing of 20mm.
- **Damper frame & Blades:** Extruded aluminum profiles with mill finish. Black Matt finishes as optional.

Standard Finishes

- Powder coated finishes as per RAL Color codes.
- Also flexible to the customer's requirement.

Description:

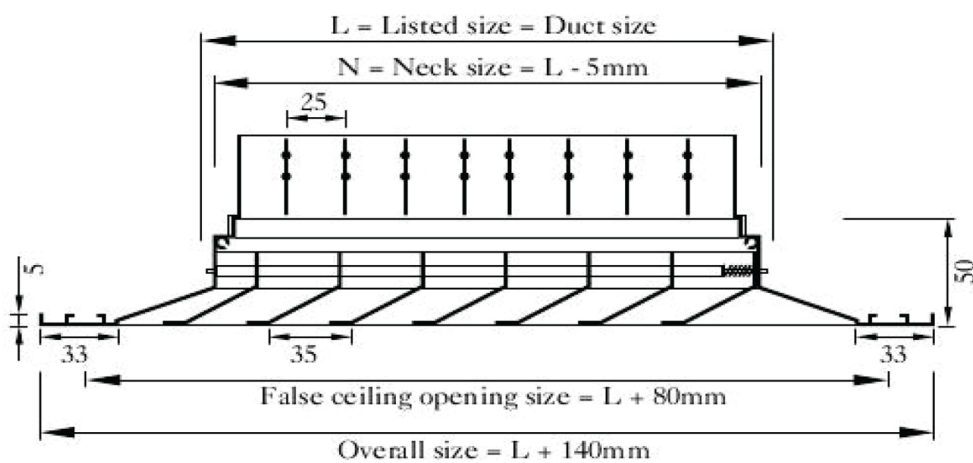
- Opposed Blade Dampers are rigidly secured with the frame by grippers. Damper blades are adjustable from the face of Register by rotating the screw manually.
- Registers will have two deflection blades arranged with front blades in horizontal position and the rear blades in vertical position, as shown in the picture.
- Deflection Blades can be manually adjustable to the desired position, to provide air deflection in both horizontal and vertical directions.
- Bushes are of Nylon and properly positioned in the frame through which the deflection blades pass through, to provide rattle free smooth operations.
- Foam Gasket (Optional) can be provided all around the back of frame, to prevent the leakage of air.

SQUARE DIFFUSER

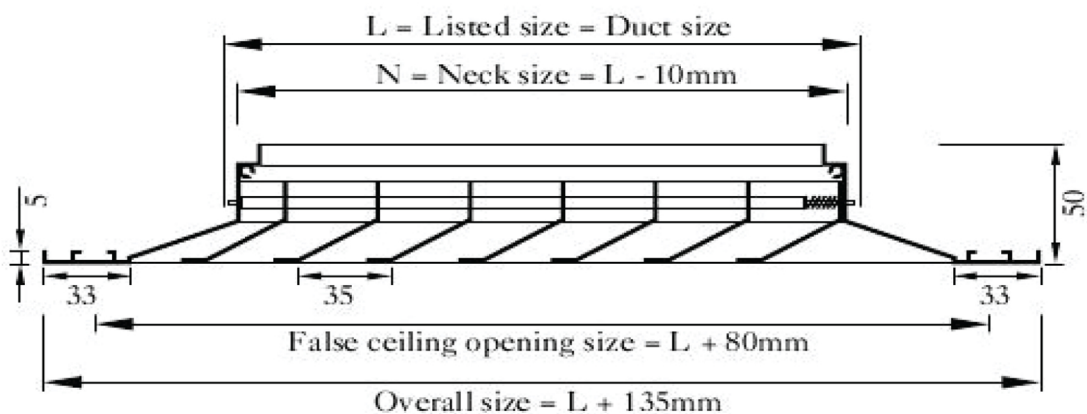
AIRPRO Square Diffuser - Supply One Way Throw



● Model Name: AP-DS1-D



● Model Name: AP-DS1



GRILL & REGISTERS

SINGLE DEFLECTION GRILLS

Construction:

- **Frame:** AirPro Grills & Registers are constructed with high quality extruded Aluminum Profiles and with 30mm Flange Width. Flange Width below 30mm is optional.
- **Blades & Spacing:** Extruded Aluminum aerofoil blades. Standard Blade Spacing of 20mm.

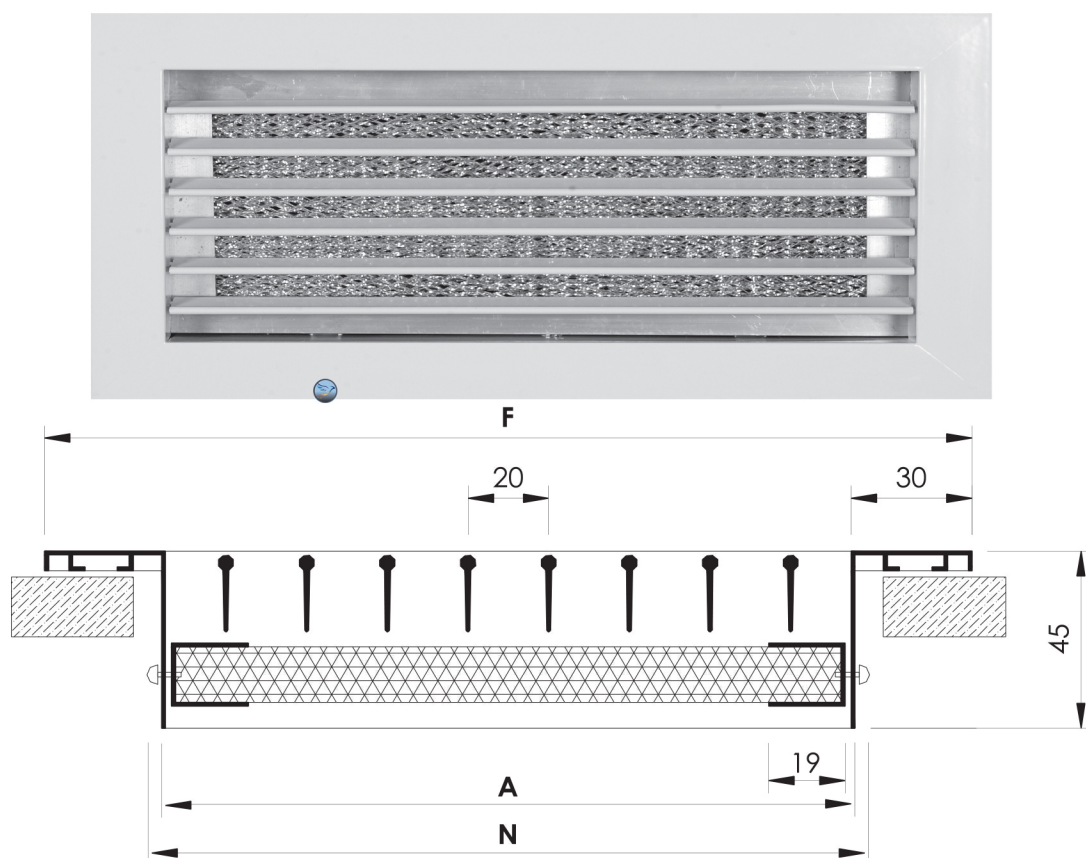
Standard Finishes:

- Powder coated finishes as per RAL Color codes.
- Also flexible to the customer's requirement.

Model: AP-DF-H

- The frame and blades are made of high quality extruded aluminum corrosion resistance profile. Deflection blades are fixed rigidly to the frame at an angle of 45 to the horizontal plane.

Fixed Horizontal Blades



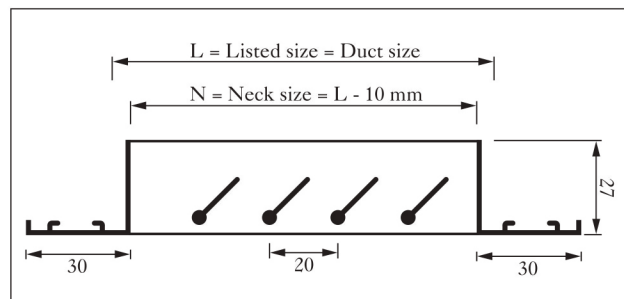
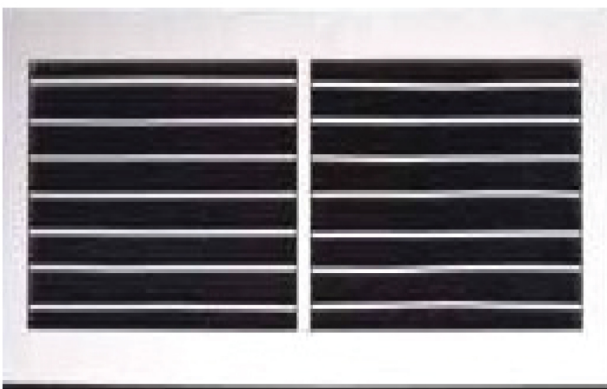
GRILLS & REGISTERS

SINGLE DEFLECTION GRILLS

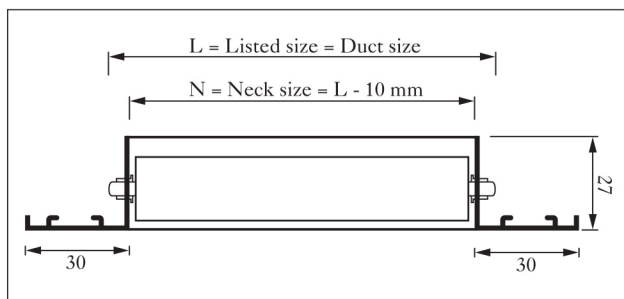
Model:AP-D-AH/D-AV

- The frame and blades are made of high quality extruded aluminum corrosion resistance profile.
- Frame is separated from the aerofoil deflection blades with help of nylon bushes, assuring quiet, smooth and rattles free operation.
- Deflection blades can be adjusted manually and individually both in the horizontal and vertical plane to sustain maximum air distribution.

Adjustable Horizontal Blades



Adjustable Vertical Blades



GRILL & REGISTERS

FRESH AIR GRILL

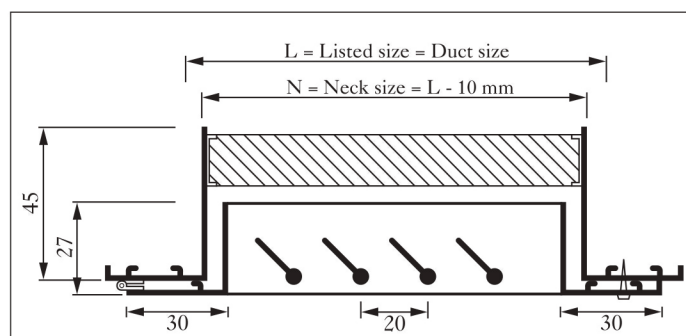
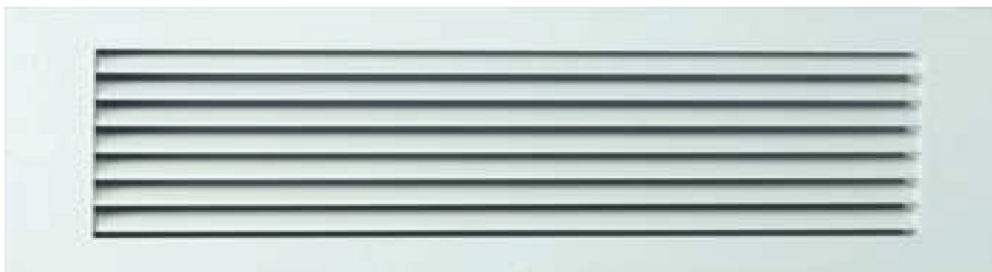
Model: AP-FAG-FH

Construction:

- **Frame:** AirPro Grills & Registers are constructed with high quality extruded Aluminum Profiles and with 30mm Flange Width. Flange Width below 30mm is optional.
- **Blades & Spacing:** Extruded Aluminum aerofoil blades. Standard Blade Spacing of 20mm.
- **Filter frame:** 1.0 mm thick aluminum sheet.
- **Filter media:** Aluminum mesh.

Description:

- The frame and blades are of highly quality extruded aluminum profiled construction with the advantage of corrosion resistance and rigidity.
- Deflection blades are fixed rigidly to the frame at an angle of 45° to the horizontal plane.
- The removable and washable aluminum filter of ½ inch thick (1 inch is optional) placed at the back of the grille. Filter can be removed easily by opening the grille frame. Grille frame is fixed to the main frame by hinges on one side and screw on the other side.
- Total assembly will be same as AP-DF-H, with removable 12 mm thick aluminum filter.
- Foam gasket is sealed around the back of the frame as optional to avoid air leakage.



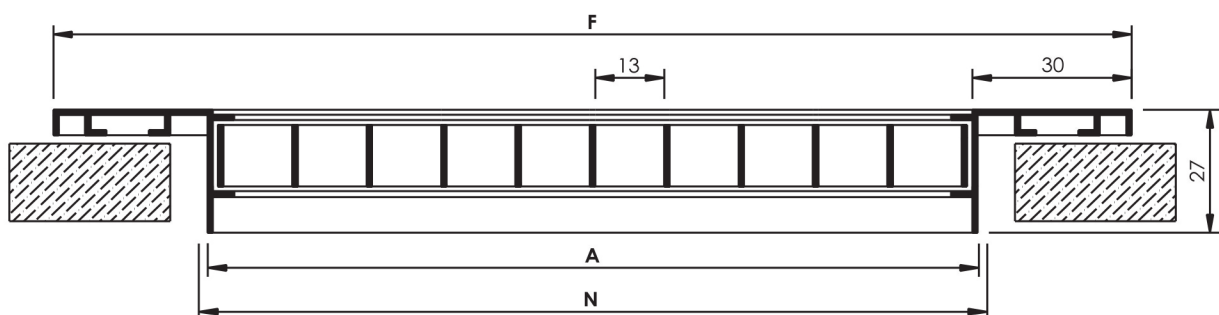
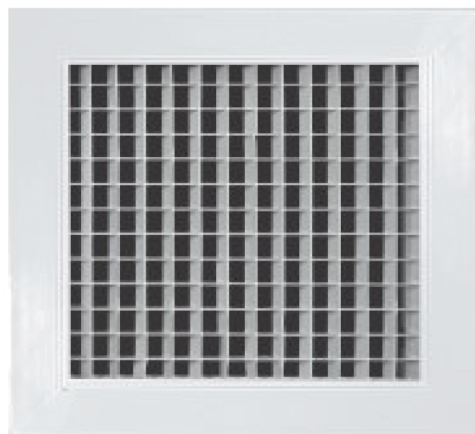
GRILLS & REGISTERS

EGG CRATE GRILL

Model: AP-ECG

Construction:

- **Frame:** Frame is made of high quality Extruded Aluminum comprising 30mm Flange Width as Standard, 12, 16 & 24mm Flange widths are optional.
- **Core:** Aluminum Standard Core size of $\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ " (12.5mm x 12.5mm x 12.5mm) which will be fixed rigidly to the frame.
- **Damper (optional):** Opposed Blade volume damper is made of aluminum with mill finish, provided with Egg Crate Grill as an optional supply. Black matt finish is also available upon request.
- **Foam Gasket:** Foam Gasket is fixed to the back of frame, preventing the air leakage.



GRILL & REGISTERS

DOUBLE DEFLECTION REGISTERS & GRILLS WITH 0° & 45° DEFLECTION

Model: AP-SAR-H/SAR-V, AP-RAR-H/RAR-V Air Flow Data

CFM	Listed sized in mm x mm	200 x 100		250 x 100		200 x 150		250 x 150		300 x 150	
		200 x 100		200 x 125		250 x 125		300 x 125		350 x 125	
M³/sec	Area factor Deflection	200 x 100		150 x 150		300 x 100		400 x 100		450 x 100	
		0°	45°	0°	45°	0°	45°	0°	45°	0°	45°
100	Face vel.	2.47	5.08	2.37	4.63	2.21	4.18	1.92	3.32		
	Pt mm	0.43	1.45	0.35	1.22	0.33	1.04	0.23	0.69		
	H2O										
	Throw in (M)	4.2-5.4	2.7-4.8	3.9-5.5	3.0-4.9	3.9-5.2	3.0-4.9	4.0-5.2	2.7-4.6		
0.0472	N.C	15	19	<15	16	<15	<15	<15	<15		
150	Face vel.	3.71	7.6	3.56	6.94	3.31	6.27	2.87	4.98	2.63	4.19
	Pt mm	0.99	3.23	2.72	2.72	0.74	2.31	0.53	1.55	0.46	1.07
	H2O										
	Throw in (M)	4.9-6.4	3.6-5.8	4.6-6.1	3.7-5.5	4.3-6.1	3.7-5.2	4.3-6.1	3.4-5.2	4.0-5.8	3.4-4.9
0.0708	N.C	18	24	16	21	<15	16	<15	<15	<15	<15
200	Face vel.	4.95	10.16	4.75	9.26	4.42	8.36	3.84	6.65	3.51	5.59
	Pt mm	1.77	5.76	1.39	4.88	1.3	4.12	0.94	2.77	0.81	1.88
	H2O										
	Throw in (M)	5.2-7.3	4.3-6.4	5.2-7.0	4.3-6.1	04.9-7.0	3.9-6.1	4.9-6.7	4.0-5.8	4.6-6.7	4.0-5.8
0.0945	N.C	21	28	19	25	17	25	15	20	<15	15
250	Face vel.	6.18	12.69	5.93	11.58	5.52	10.45	4.8	8.32	4.39	6.988
	Pt mm	2.76	9.02	2.18	7.62	2	6.45	1.45	4.32	1.24	2.95
	H2O										
	Throw in (M)	5.8-7.9	4.8-7.0	5.8-7.9	4.9-7.0	5.5-7.6	4.9-6.7	5.4-7.6	4.6-6.7	5.2-7.6	4.6-6.7
0.1181	N.C	28	35	27	32	24	31	21	27	17	23
300	Face vel.	7.42	15.24	7.12	13.89	6.62	12.54	5.76	9.98	5.27	8.38
	Pt mm	3.96	13.21	3.15	10.92	2.9	9.27	2.1	6.22	1.8	4.24
	H2O										
	Throw in (M)	5.8-8.2	5.2-7.3	5.8-8.2	4.2-7.3	5.8-8.2	5.2-7.3	5.8-8.2	5.2-7.3	5.8-8.2	5.2-7.3
0.1417	N.C	34	40	31	38	28	36	26	33	23	30
350	Face vel.	8.65	17.77	8.31	16.21	7.72	14.63	6.72	11.64	6.14	9.78
	Pt mm	5.38	17.53	4.32	14.98	3.9	12.57	2.87	8.51	2.46	5.77
	H2O										
	Throw in (M)	7.0-9.8	5.8-8.2	6.7-9.5	5.8-8.2	6.7-9.5	5.4-7.9	6.4-9.2	5.4-7.9	6.4-9.1	5.4-7.9
0.1253	N.C	37	45	35	42	32	39	30	37	28	35
400	Face vel.			9.49	18.52	8.83	16.72	7.68	13.3	7.022	11.18
	Pt mm			5.61	19.56	5.13	16.51	3.76	11.06	3.2	7.52
	H2O			7.6-10.4	6.7-9.1	7.3-10.4	6.4-8.8	7.0-10.1	6.1-8.5	6.7-9.8	6.1-8.5
	Throw in (M)										
0.1889	N.C			38	45	36	42	34	40	32	38
450	Face vel.							8.64	14.96	7.899	12.57
	Pt mm							4.72	13.97	4.06	9.53
	H2O							7.3-10.7	6.7-9.1	7.0-10.4	6.4-8.8
	Throw in (M)										
0.2125	N.C							39	43	36	42
500	Face vel.									8.8	13.97
	Pt mm									5	11.74
	H2O									7.3-10.9	6.7-7.4
	Throw in (M)										
0.2362	N.C									40	45

- Face velocity is measured in m/sec.
- Total pressure loss is in mm of H2O & Area factor in square meter
- Throw (meters) is measured for a terminal velocities of 0.5 & 0.25 m/sec
- NC based on a room attention of 10 D

GRILL & REGISTERS

DOUBLE DEFLECTION REGISTERS & GRILLS WITH 0° & 45° DEFLECTION

Model: AP-SAR-H/SAR-V, AP-RAR-H/RAR-V Air Flow Data

CFM	Listed sized in mm x mm	200 x 100		250 x 100		200 x 150		250 x 150		300 x 150	
		200 x 100		200 x 125		250 x 125		300 x 125		350 x 125	
M³/sec	Area factor Deflection	0°	45°	0°	45°	0°	45°	0°	45°	0°	45°
		0°	45°	0°	45°	0°	45°	0°	45°	0°	45°
100	Face vel. Pt mm H2O Throw in (M)	2.47 0.43 4.2-5.4	5.08 1.45 2.7-4.8	2.37 0.35 3.9-5.5	4.63 1.22 3.0-4.9	2.21 0.33 3.9-5.2	4.18 1.04 3.0-4.9	1.92 0.23 4.0-5.2	3.32 0.69 2.7-4.6		
0.0472	N.C	15	19	<15	16	<15	<15	<15	<15		
150	Face vel. Pt mm H2O Throw in (M)	3.71 0.99 4.9-6.4	7.6 3.23 3.6-5.8	3.56 2.72 4.6-6.1	6.94 2.72 3.7-5.5	3.31 0.74 4.3-6.1	6.27 2.31 3.7-5.2	2.87 0.53 4.3-6.1	4.98 1.55 3.4-5.2	2.63 0.46 4.0-5.8	4.19 1.07 3.4-4.9
0.0708	N.C	18	24	16	21	<15	16	<15	<15	<15	<15
200	Face vel. Pt mm H2O Throw in (M)	4.95 1.77 5.2-7.3	10.16 5.76 4.3-6.4	4.75 1.39 5.2-7.0	9.26 4.88 4.3-6.1	4.42 1.3 04.9-7.0	8.36 4.12 3.9-6.1	3.84 0.94 4.9-6.7	6.65 2.77 4.0-5.8	3.51 0.81 4.6-6.7	5.59 1.88 4.0-5.8
0.0945	N.C	21	28	19	25	17	25	15	20	<15	15
250	Face vel. Pt mm H2O Throw in (M)	6.18 2.76 5.8-7.9	12.69 9.02 4.8-7.0	5.93 2.18 5.8-7.9	11.58 7.62 4.9-7.0	5.52 2 5.5-7.6	10.45 6.45 4.9-6.7	4.8 1.45 5.4-7.6	8.32 4.32 4.6-6.7	4.39 1.24 5.2-7.6	6.988 2.95 4.6-6.7
0.1181	N.C	28	35	27	32	24	31	21	27	17	23
300	Face vel. Pt mm H2O Throw in (M)	7.42 3.96 5.8-8.2	15.24 13.21 5.2-7.3	7.12 3.15 5.8-8.2	13.89 10.92 4.2-7.3	6.62 2.9 5.8-8.2	12.54 9.27 5.2-7.3	5.76 2.1 5.8-8.2	9.98 6.22 5.2-7.3	5.27 1.8 5.8-8.2	8.38 4.24 5.2-7.3
0.1417	N.C	34	40	31	38	28	36	26	33	23	30
350	Face vel. Pt mm H2O Throw in (M)	8.65 5.38 7.0-9.8	17.77 17.53 5.8-8.2	8.31 4.32 6.7-9.5	16.21 14.98 5.8-8.2	7.72 3.9 6.7-9.5	14.63 12.57 5.4-7.9	6.72 2.87 6.4-9.2	11.64 8.51 5.4-7.9	6.14 2.46 6.4-9.1	9.78 5.77 5.4-7.9
0.1253	N.C	37	45	35	42	32	39	30	37	28	35
400	Face vel. Pt mm H2O Throw in (M)			9.49 5.61 7.6-10.4	18.52 19.56 6.7-9.1	8.83 5.13 7.3-10.4	16.72 16.51 6.4-8.8	7.68 3.76 7.0-10.1	13.3 11.06 6.1-8.5	7.022 3.2 6.7-9.8	11.18 7.52 6.1-8.5
0.1889	N.C			38	45	36	42	34	40	32	38
450	Face vel. Pt mm H2O Throw in (M)							8.64 4.72 7.3-10.7	14.96 13.97 6.7-9.1	7.899 4.06 7.0-10.4	12.57 9.53 6.4-8.8
0.2125	N.C							39	43	36	42
500	Face vel. Pt mm H2O Throw in (M)									8.8 5 7.3-10.9	13.97 11.74 6.7-7.4
0.2362	N.C									40	45

- Face velocity is measured in m/sec.
- Total pressure loss is in mm of H2O & Area factor in square meter
- Throw (meters) is measured for a terminal velocities of 0.5 & 0.25 m/sec
- NC based on a room attention of 10 D

GRILL & REGISTERS

DOUBLE DEFLECTION REGISTERS & GRILLS WITH 0° & 45° DEFLECTION

Model: AP-SAR-H/SAR-V,AP-RAR-H/RAR-V Air Flow Data

CFM	Listed sized in mm x mm	350 x 350		400 x 400		360 x 350		450 x 450	
		400 x 300		500 x 300		600 x 300		500 x 400	
M ³ /sec	Area factor Deflection	500 x 250		600 x 250		700 x 250		800 x 250	
		600 x 200		500 x 125		900 x 200		1000 x 200	
		900 x 150		750 x 200		1200 x 150			
		0.0633	0.0529	0.0827	0.072	0.0926	0.0853	0.1069	0.097
		0°	45°	0°	45°	0°	0°	0°	45°
500	Face vel.	3.37	4.47	2.86	3.28	2.46	2.77	2.21	2.43
	Pt mm H ₂ O	4.48	1.02	0.28	0.45	0.2	0.31	0.15	0.23
	Throw in (M)	7.3-10.9	5.8-9.1	6.7-10.7	5.5-9.1	9.5-10.4	5.2-9.1	6.1-10.1	4.9-8.8
	N.C	<15	16	<15	<15	<15	<15	<15	<15
600	Face vel.	4.47	5.36	3.43	3.94	2.95	3.32	2.65	2.92
	Pt mm H ₂ O	0.71	1.45	0.41	0.63	0.31	0.43	0.23	0.31
	Throw in (M)	8.2-11.9	6.4-10.1	7.6-11.6	6.4-10.1	7.3-11.3	6.1-10.1	7.0-10.7	6.1-9.8
	N.C	16	20	<15	18	<15	<15	<15	<15
700	Face vel.	5.22	6.25	4	4.59	3.44	3.88	3.09	3.4
	Pt mm H ₂ O	0.96	1.98	0.56	0.86	0.41	0.56	0.31	0.43
	Throw in (M)	8.8-12.8	7.3-10.9	8.5-12.5	7.0-11.0	8.5-12.2	7.0-10.9	8.2-11.9	6.7-10.7
	N.C	22	26	19	23	16	20	15	19
800	Face vel.	5.97	7.14	4.57	5.25	3.93	4.43	3.53	3.89
	Pt mm H ₂ O	1.27	2.59	0.71	1.14	0.53	0.74	0.38	0.56
	Throw in (M)	9.8-13.4	8.2-11.9	9.5-13.1	7.9-10.6	9.5-13.1	7.9-11.6	9.1-12.5	7.6-11.3
	N.C	30	32	26	28	21	25	20	24
900	Face vel.	6.71	8.03	5.14	5.9	4.42	4.98	3.98	4.38
	Pt mm H ₂ O	1.6	3.25	0.91	1.45	0.68	0.94	0.48	0.71
	Throw in (M)	10.1-14.6	8.5-12.5	10.1-14.3	8.5-12.2	10.1-14.0	8.5-12.2	9.8-13.7	8.2-12.2
	N.C	33	36	30	33	25	30	24	29
1000	Face vel.	7.44	8.92	5.69	6.55	4.92	5.55	4.45	4.86
	Pt mm H ₂ O	1.98	4.01	1.11	1.78	0.84	1.17	0.61	0.86
	Throw in (M)	10.7-15	9.1-13	10.4-15	9.1-13.1	10.4-14.6	9.1-13.1	10.1-14.3	9.2-13.1
	N.C	37	40	34	36	30	33	29	32
1100	Face vel.	8.18	9.81	6.25	7.21	5.41	6.11	4.89	5.36
	Pt mm H ₂ O	2.39	4.88	1.35	2.16	1.02	1.42	0.74	1.07
	Throw in (M)	10.9-16	9.8-14	10.7-15	9.8-14	10.7-15.0	9.8-14	10.4-14.9	9.8-14
	N.C	40	45	36	40	33	36	32	35
1200	Face vel.			6.83	7.87	5.91	6.67	5.35	5.84
	Pt mm H ₂ O			1.6	2.54	1.22	1.68	1	1.24
	Throw in (M)			11.3-16	10.4-15	11.3-15.9	11-15.2	10-14.8	8.2-11.9
	N.C			38	43	36	40	35	39
1400	Face vel.			7.96	9.18	6.88	7.77	6.23	6.81
	Pt mm H ₂ O			2.18	3.51	1.65	2.28	1.19	1.73
	Throw in (M)			12.2-17	11-15.5	12.2-16.8	10.9-15.2	11.6-16.2	10.4-15
	N.C			44	49	41	44	40	43

- Face velocity is measured in m/sec.
- Total pressure loss is in mm of H₂O & Area factor in square meter
- Throw (meters) is measured for a terminal velocities of 0.5 & 0.25 m/sec
- NC based on a room attention of 10 D

GRILL & REGISTERS

DOUBLE DEFLECTION REGISTERS & GRILLS WITH 0° & 45° DEFLECTION

Model: AP-SAR-H/SAR-V,AP-RAR-H/RAR-V Air Flow Data

CFM	Listed sized in mm x mm	600 X 400		800 x 350		600 x 600		750 x 600		800 x 750	
		900 X 250		900 x 300		900 x 400		900 x 500		900 x 700	
		800 X 300		1100 x 250		1000 x350		1000 x 450		100 x 600	
		1200 X 200		1400 x 200		1200 x 300		1500 x 300		1200 x 500	
		1200 x 375									
M³/sec	Area factor Deflection	0.1352 0°	0.1 45°	0.162 0°	0.1159 45°	0.216 0°	0.162 45°	0.27 0°	0.216 45°	0.354 0°	0.288 45°
1100	Face vel.	3.84	5.19	3.2	4.48	2.4	3.2	1.92	2.4		
	Pt mm H2O	0.64	0.98	0.59	0.84	0.52	0.76	0.42	0.62		
0.519	Throw in (M)	9.8-14.3	9.2-13.2	9.2-13.6	8.6-12.8	8.8-13.0	8.1-11.3	7.0-9.1	6.2-8.3		
	N.C	30	33	28	29	25	27	20	24		
1200	Face vel.	4.19	5.67	3.5	4.89	2.63	3.5	2.1	2.63	1.6	1.97
	Pt mm H2O	0.87	1.09	0.69	0.92	0.58	0.81	0.48	0.71	0.38	0.51
	Throw in (M)	13.3-14.8	9.8-14.0	9.1-13.2	9.3-13.8	8.4-11.9	7.5-10.8	6.8-9.4	6.8-9.4	6.3-9.2	5.7-8.1
0.567	N.C	32	35	30	32	27	29	24	26	20	22
1400	Face vel.	4.89	6.61	4.1	5.7	3.06	4.08	2.45	3.06	1.87	2.29
	Pt mm H2O	0.93	1.51	0.76	1.21	0.63	0.98	0.51	0.79	0.43	0.58
	Throw in (M)	10.8-15.4	10.2-14.6	10.1-15.0	9.7-13.8	9.7-14.3	8.8-11.3	8.1-11.3	7.3-10.1	6.8-10.1	6.1-8.8
0.661	N.C	35	38	33	35	30	32	27	29	23	25
1600	Face vel.	5.59	7.56	4.67	6.52	3.5	4.82	2.8	3.5	2.13	2.63
	Pt mm H2O	1.03	1.82	0.84	1.43	0.71	1.12	0.63	0.91	0.51	0.64
	Throw in (M)	11.5-16.9	10.8-15.1	10.1-14.5	10.1-14.8	10.1-14.8	9.3-12.1	8.8-12.1	7.9-10.7	7.3-10.9	6.7-9.2
0.756	N.C	38	40	36	37	33	34	29	31	25	28
1800	Face vel.	6.29	8.5	5.25	7.33	3.94	5.32	3.15	3.94	2.4	2.95
	Pt mm H2O	1.32	2.24	0.97	1.73	0.82	1.34	0.72	1.13	0.58	0.78
	Throw in (M)	12-6-18.2	11.4-17.3	11.8-16.7	10.7-15.3	10.9-16.1	9.8-14.1	10.1-14.2	5.2-12.2	7.9-11.6	7.1-9.8
0.85	N.C	41	44	39	41	36	37	31	33	28	31
2000	Face vel.	6.99	9.78	5.83	8.15	4.38	5.83	3.5	4.38	2.7	3.28
	Pt mm H2O	1.61	2.53	1.03	1.92	0.88	1.52	0.52	0.7-8-1.23	0.61	0.83
	Throw in (M)	13.8-19.7	12.4-18.6	13.2-18.1	11.6-16.5	12.1-17.3	10.3-14.8	10.7-15.1	8.8-13.1	8.2-11.8	7.4-10.4
0.945	N.C	44	47	41	43	39	41	33	36	28	32
2200	Face vel.			6.41	8.96	4.81	8.41	83.85	4.81	2.94	3.61
	Pt mm H2O			1.16	2.42	0.95	1.82	0.83	1.45	0.72	0.93
	Throw in (M)			14.3-19.5	12.4-17.7	12.8-18.1	10.9-15.7	11.2-16.4	9.3-13.8	8.9-13.0	8.1-11.3
1.039	N.C			44	47	41	44	35	39	30	33
2400	Face vel.					5.25	7	4.2	6.25	3.2	3.94
	Pt mm H2O					1.03	2.04	0.93	1.63	0.81	1.03
	Throw in (M)					13.7-19.2	11.4-16.4	12.2-17.3	9.9-14.7	9.6-13.8	8.7-12.1
1.134	N.C					43	46	37	42	32	35
2600	Face vel.					5.69	7.58	4.55	5.69	3.47	4.26
	Pt mm H2O					1.43	2.43	1.07	1.93	0.92	1.32
	Throw in (M)					14.4-21.3	12.1-17.6	13.1-18.4	10.7-15.4	10.7-15.7	9.3-13.2
1.1228	N.C					45	48	40	44	33	37

- Face velocity is measured in m/sec.
- Total pressure loss is in mm of H2O & Area factor in square meter
- Throw (meters) is measured for a terminal velocities of 0.5 & 0.25 m/sec
- NC based on a room attention of 10 D

GRILL & REGISTERS

SINGLE DEFLECTION GRILLS FIXED HORIZONTAL BLADES & 45° DEFLECTION

Model: AP-DF-H - Air Flow Data

Listed size in mm x mm	Face Value	1.5	2	2.5	3	3.5	4	4.5	5
	Ps mm H ₂ O	0.91	1.63	2.54	3.68	4.97	6.5	8.33	10.16
200x100/200x125	CFM	60	80	100	120	140	160	180	200
	M ³ /sec	0.0283	0.0378	0.0472	0.0567	0.0661	0.0756	0.085	0.0945
150x150	NC	< 15	16	24	27	31	36	41	46
200x150/250x125	CFM	81	108	135	162	189	216	243	270
	M ³ /sec	0.0838	0.051	0.0638	0.765	0.0893	0.102	0.1148	0.1275
300x100	NC	< 15	16	24	27	31	36	41	46
250x150/300x125	CFM	102	136	170	204	238	272	306	340
	M ³ /sec	0.0482	0.0642	0.0803	0.0964	0.1124	0.1285	0.1445	0.1606
400x100	NC	< 15	15	24	27	31	36	41	46
300x150/350x125	CFM	120	160	200	240	280	320	360	400
	M ³ /sec	0.0567	0.0756	0.0945	0.1134	0.1322	0.1512	0.17	0.1889
450x100	NC	< 15	15	25	28	31	36	41	47
250x200/350x150	CFM	141	188	235	282	329	376	423	470
	M ³ /sec	0.0666	0.088	0.1109	0.1332	0.1554	0.178	0.199	0.222
400x125/500x100	NC	< 15	16	24	27	31	35	40	47
250x250/ 300x200	CFM	162	216	270	324	378	432	486	540
400x150/500x125	M ³ /sec	0.0765	0.102	0.1275	0.153	0.0179	0.204	0.2295	0.255
600x100	NC	< 15	16	24	27	31	36	42	47
300x250/450x150	CFM	180	270	300	360	420	480	540	600
500x150/600x125	M ³ /sec	0.085	0.1133	0.142	0.17	0.198	0.2267	0.255	0.2833
750x100	NC	< 15	17	23	27	31	35	40	46
300x300/350x250	CFM	240	320	400	480	560	640	720	800
	M ³ /sec	0.1133	0.151	0.1889	0.2267	0.2645	0.302	0.34.01	0.3778
450x200/600x150	NC	< 15	18	23	27	31	35	40	47
350x300/400x250	CFM	300	400	500	600	700	800	900	1000
	M ³ /sec	0.1416	0.1889	0.236	0.283	0.331	0.3778	0.425	0.4723
500x200/750x150	NC	< 15	19	23	27	32	36	40	48
350x350/400x300	CFM	360	480	600	720	840	960	1080	1200
500x250/600x200	M ³ /sec	0.17	0.2267	0.283	0.34	0.3967	0.453	0.51	0.5667
700x200	NC	< 15	21	24	27	32	36	40	48
400x400/500x300	CFM	420	560	700	840	980	1120	1260	1400
	M ³ /sec	0.198	0.264	0.331	0.397	0.463	0.529	0.595	0.661
600x250/800x200	NC	< 15	21	24	28	33	37	41	49
500x350/600x300	CFM	480	640	800	960	1120	1280	1440	1600
700x250/900x200	M ³ /sec	0.2267	0.3023	0.3778	0.453	0.529	0.6046	0.68	0.7556
1000x150	NC	16	22	25	29	33	38	42	49
450x450/500x400	CFM	540	720	900	1080	1260	1440	1620	1800
750x250	M ³ /sec	0.255	0.3401	0.4251	0.51	0.51	0.6801	0.765	0.85
1000x200	NC	17	22	25	29	34	42	43	50
500x500/550/450	CFM	600	800	1000	1200	1400	1600	1800	2000
750x300/900x250	M ³ /sec	0.2834	0.3778	0.4723	0.5668	0.6612	0.7556	0.85	0.9446
1000x200	NC	18	23	27	31	36	40	44	52

- Face velocity is measured in m/sec.
- Ps: Static pressure loss in mm of H₂O
- NC based on a room attenuation of 10 D

GRILL & REGISTERS

SINGLE DEFLECTION REGISTERS & GRILLS WITH 0° DEFLECTION

Model: AP-D-AH/AV - Air Flow Data

Listed size in mm x mm	Face Value	2.5	3	3.5	4	4.5	5	5.5	6
	Ps mm H ₂ O	1.7	2.5	3.35	4.37	5.59	6.86	8.38	9.9
250x100/200x125	CFM	150	180	210	240	270	300	330	360
	M ³ /sec	0.071	0.05	0.99	0.113	0.127	0.142	0.156	0.17
150x150	NC	< 15	19	22	25	29	33	36	38
200x150/250x125	CFM	180	210	240	280	320	350	390	420
	M ³ /sec	0.085	0.099	0.113	0.132	0.151	0.165	0.184	0.198
300x100	NC	< 15	18	22	26	29	33	35	37
250x150/300x125	CFM	220	260	310	350	400	440	490	530
	M ³ /sec	0.104	0.123	0.146	0.165	0.189	0.208	0.231	0.25
400x100	NC	16	20	25	28	31	35	38	40
300x150/350x125	CFM	240	290	340	390	440	490	540	590
	M ³ /sec	0.113	0.137	0.161	0.184	0.208	0.231	0.255	0.279
450x100	NC	15	20	24	27	30	34	37	40
250x200/350x150	CFM	270	320	370	420	480	530	590	640
	M ³ /sec	0.127	0.151	0.165	0.198	0.227	0.25	0.279	0.302
400x125/500x100	NC	< 15	17	21	24	28	31	35	38
250x250/ 300x200	CFM	310	370	430	490	550	610	680	740
400x150/500x125	M ³ /sec	0.146	0.165	0.203	0.231	0.259	0.288	0.321	0.349
600x100	NC	15	19	23	26	30	34	36	39
300x250/450x150	CFM	360	440	510	580	660	730	810	800
500x150/600x125	M ³ /sec	0.17	0.208	0.241	0.274	0.312	0.345	0.382	0.416
750x100	NC	15	20	24	27	31	34	37	39
300x300/350x250	CFM	420	500	590	670	750	840	930	1020
	M ³ /sec	0.198	0.236	0.279	0.316	0.354	0.397	0.439	0.482
450x200/600x150	NC	< 15	15	23	27	30	34	37	40
350x300/400x250	CFM	450	540	630	720	810	900	1000	1090
	M ³ /sec	0.213	0.255	0.297	0.34	0.382	0.425	0.472	0.514
500x200/750x150	NC	< 15	16	21	25	29	33	37	40
350x350/400x300	CFM	510	620	720	820	930	1030	1140	1240
500x250/600x200	M ³ /sec	0.241	0.293	0.34	0.387	0.439	0.486	0.538	0.586
900x150	NC	15	20	24	29	32	37	40	43
400x400/500x300	CFM	580	700	820	940	1050	1170	1290	1400
	M ³ /sec	0.274	0.331	0.387	0.444	0.496	0.553	0.609	0.661
600x250/800x200	NC	15	20	25	30	34	38	41	44
500x350/600x300	CFM	660	800	930	1060	1200	1330	1470	1600
700x250/900x200	M ³ /sec	0.312	0.378	0.439	0.501	0.567	0.628	0.694	0.756
1000x150	NC	16	22	26	32	35	39	42	45
450x450/500x400	CFM	700	840	980	1120	1270	1400	1550	1690
750x250	M ³ /sec	0.331	0.397	0.463	0.529	0.599	0.661	0.732	0.798
1000x200	NC	16	21	25	30	33	35	39	43
500x500/550/450	CFM	800	970	1130	1280	1440	1600	1770	1930
750x300/800x250	M ³ /sec	0.378	0.458	0.533	0.605	0.68	0.756	0.836	0.912
1000x200	NC	18	23	27	33	38	40	43	45

- Face velocity is measured in m/sec.
- Ps: Static pressure loss in mm of H₂O
- NC based on a room attention of 10 D

GRILL & REGISTERS

SINGLE DEFLECTION REGISTERS & GRILLS WITH 45° DEFLECTION

Model: AP-SAR-H/SAR-V, AP-RAR-H/RAR-V- Air Flow Data

Listed size in mm x mm	Face Value	2.75	3.25	4	4.5	5	5.5	6	6.5
	Ps mm H2O	2.16	3.1	4.32	5.59	7.11	8.89	10.92	12.95
250x100/200x125	CFM	150	180	210	240	270	300	330	360
	M ³ /sec	0.071	0.085	0.099	0.113	0.127	0.142	0.156	0.17
150x150	NC	18	22	25	28	32	36	39	41
200x150/250x125	CFM	180	210	240	280	320	350	390	420
	M ³ /sec	0.085	0.099	0.113	0.32	0.151	0.165	0.184	0.198
300x100	NC	17	21	25	29	32	36	38	40
250x150/300x125	CFM	220	260	210	350	400	440	490	530
	M ³ /sec	0.104	0.123	0.146	0.165	0.189	0.208	0.231	0.25
400x100	NC	19	23	28	31	34	38	41	43
300x150/350x125	CFM	240	290	340	300	440	490	540	590
	M ³ /sec	0.1132	0.137	0.161	0.184	0.208	0.231	0.255	0.279
450x100	NC	18	23	27	30	33	37	40	43
250x200/350x150	CFM	270	320	370	420	480	530	590	640
	M ³ /sec	0.127	0.151	0.165	0.198	0.227	0.25	0.279	0.302
400x125/500x100	NC	16	20	24	27	31	34	38	41
250x250/ 300x200	CFM	310	370	430	490	550	610	680	740
400x150/500x125	M ³ /sec	0.146	0.165	0.203	0.231	0.259	0.288	0.321	0.349
	NC	18	22	26	29	33	37	39	42
300x250/450x150	CFM	360	440	510	580	660	730	810	800
500x150/600x125	M ³ /sec	0.17	0.208	0.241	0.274	0.312	0.345	0.382	0.416
	NC	18	23	27	30	34	37	40	42
300x300/350x250	CFM	420	500	590	670	750	840	930	1020
	M ³ /sec	0.198	0.236	0.279	0.316	0.354	0.397	0.439	0.482
450x200/600x150	NC	< 15	18	26	30	33	37	40	43
350x300/400x250	CFM	450	540	630	720	810	900	1000	1090
	M ³ /sec	0.213	0.256	0.297	0.34	0.382	0.425	0.472	0.514
500x200/750x150	NC	15	19	24	28	32	36	40	43
350x350/400x300	CFM	510	620	820	820	930	1030	1140	1240
500x250/600x200	M ³ /sec	0.241	0.293	0.34	0.387	0.439	0.486	0.538	0.586
	NC	18	23	27	32	35	40	43	46
400x400/500x300	CFM	580	700	820	940	1050	1170	1290	1400
	M ³ /sec	0.274	0.331	0.387	0.444	0.469	0.553	0.609	0.661
600x250/800x200	NC	15	20	25	30	37	41	44	47
500x350/600x300	CFM	660	800	930	1060	1200	1330	1470	1600
700x250/900x200	M ³ /sec	0.312	0.378	0.439	0.501	0.567	0.628	0.694	0.756
	NC	19	25	29	35	38	42	45	48
450x450/500x400	CFM	700	840	980	1120	1270	1400	1550	1690
750x250	M ³ /sec	0.331	0.397	0.463	0.529	0.599	0.661	0.732	0.798
	NC	19	24	28	33	36	38	42	46
500x500/550/450	CFM	800	970	1130	1280	1440	1600	1770	1930
750x300/800x250	M ³ /sec	0.378	0.458	0.533	0.605	0.68	0.756	0.836	0.912
	NC	21	26	30	36	41	43	46	48

- Face velocity is measured in m/sec.
- Ps: Static pressure loss in mm of H2O
- NC based on a room attention of 10 D

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