



DD-SD Performance Data

Normal Size			200 x 100			250 x 100			300 x 100 200 x 150			400 x 100 250 x 150			500 x 100 300 x 150			350 x 150 250 x 200		
Core Area Ca(m ²)			0.015			0.02			0.024			0.032			0.038			0.044		
Deflection			0°	22½°	45°	0°	22½°	45°	0°	22½°	45°	0°	22½°	45°	0°	22½°	45°	0°	22½°	45°
m ³ /s	Aj	(m ²)	0.011	0.01	0.008	0.014	0.014	0.011	0.018	0.017	0.013	0.023	0.022	0.017	0.028	0.027	0.021	0.032	0.031	0.024
0.024	TP THROW VEL NES	(Pa) (m) (m/s) dB	1.72 2.1-4.0 1.97 *	2.12 1.5-3.01 2.18 *	8.48 2-2.1 4.36 *	1.11 1.7-3.6 1.58 *	1.39 1.4-2.7 1.76 *	5.74 0.9-2.2 3.59 *												
0.036	TP THROW VEL NES	(Pa) (m) (m/s) dB	3.87 3-4.8 2.95 *	4.77 2.4-3.61 3.27 *	19.09 8-2.7 6.65 *	2.5 2.7-4.9 2.37 *	3.11 2.1-3.7 2.64 *	12.92 1.5-2.7 5.39 *	1.74 2.4-4.9 1.98 *	2.18 1.8-3.7 2.21 *	9.33 1.3-2.6 4.58 *	1.14 2.1-4.3 1.6 *	1.45 1.6-3.2 1.8 *	6.78 1.3-2.3 3.9 *						
0.047	TP THROW VEL NES	(Pa) (m) (m/s) dB	6.6 3-4.8 3.85 *	8.13 3-4.2 4.27 *	32.53 2-1-3 8.55 *	4.25 3.6-5.3 3.09 *	5.3 2.7-4.3 3.45 *	22.03 2.1-3.1 7.03 *	2.97 3.6-5 2.58 *	3.72 2.5-4.3 2.89 *	15.9 1.8-3 5.97 *	1.94 2.7-5.5 2.08 *	2.74 2.05-4.3 2.36 *	11.56 1.6-3.1 5.09 *	1.32 2.4-5.2 1.72 *	1.69 1.8-4.1 1.95 *	7.65 1.2-2.7 4.14 *			
0.060	TP THROW VEL NES	(Pa) (m) (m/s) dB	10.76 4.3-6.5 4.91 17	13.25 3.4-4.9 5.45 18		6.93 4.3-6.4 3.94 *	8.63 3.5-5 4.4 *	35.9 2.5-3.7 8.98 *	4.84 4-6.1 3.29 *	6.06 3-4.6 3.69 *	25.9 2.2-3.5 7.63 *	3.16 3.4-6.5 2.66 *	4.03 2.4-4.9 3.01 *	18.85 1.8-3.7 6.5 *	2.15 3-6.1 2.2 *	2.76 2.4-4.6 2.2 *	12.46 1.8-3.4 5.29 *	1.74 3.1-6.2 1.97 *	2.13 2.4-4.6 2.19 *	8.58 1.8-3.4 4.39 *
0.070	TP THROW VEL NES	(Pa) (m) (m/s) dB	14.64 4.9-6.5 5.73 23	18.04 3.7-5.5 6.36 24		9.44 4.9-7 4.6 18.4	11.75 3.7-5.5 5.14 19		6.58 4.8-7 3.84 *	8.25 3.7-7 4.3 *	35.26 2.7 8.9 *	4.3 4.2-6.7 3.11 *	5.48 3.4-5.2 3.51 *	26.65 2.3-3.7 7.59 *	2.93 4-6.7 2.56 *	3.76 3-5.2 2.9 *	16.96 2-3.8 6.17 *	2.36 3.7-6.8 2.3 *	2.9 2.7-5.2 2.55 *	11.68 2.1-3.7 5.12 *
0.083	TP THROW VEL NES	(Pa) (m) (m/s) dB	20.58 5.2-7.6 6.8 28	25.36 4-5.8 7.55 29		13.27 5.2-7.3 5.46 19	16.52 4-5.3 6.09 21		9.25 5-7.2 4.56 *	11.6 4-5.4 5.1 *		6.04 4-7.2 3.68 *	7.71 3.6-5 4.16 *	36.06 2.7-4 9 *	4.12 4.2-7.2 3.04 *	5.28 3.4-5.4 3.44 *	23.85 2-4.4 7.32 *	3.32 4-7.3 2.73 *	4.07 3.1-5.4 3.02 *	16.41 2.1-4 6.07 *
0.095	TP THROW VEL NES	(Pa) (m) (m/s) dB				17.38 5.4-7.9 6.25 24	21.64 4.3-6.1 6.97 25		12.12 5.4-7.9 5.22 18	15.2 4.3-6.1 5.84 19		7.91 5.4-8 4.21 *	10.1 4.3-6.1 4.76 *	5.4 5.2-7.9 3.48 *	6.92 6.4 3.94 *	31.24 2.6-4.2 8.37 *	4.35 4.9-8 3.13 *	5.33 3.7-6 3.46 *	21.5 2.7-4.2 6.95 *	
0.106	TP THROW VEL NES	(Pa) (m) (m/s) dB				21.64 6.1-8.5 6.97 29	26.94 4.5-6.7 7.78 30		15.09 5.8-8.5 5.82 23	18.93 4.5-6.7 6.52 24		9.85 5.8-8.5 4.7 16	12.58 4.5-6.7 5.31 17	6.72 5.7-8.4 3.88 *	8.61 4.5-6.7 4.4 *	38.89 3-4.6 9.34 *	5.42 5.5-8.8 3.49 *	6.64 4.2-6.8 3.86 *	26.77 3-4.5 7.75 *	
0.118	TP THROW VEL NES	(Pa) (m) (m/s) dB				26.81 6.4-8.8 7.76 35	33.38 4.9-6.6 8.66 36		18.71 6-8.9 6.48 25	23.45 4.5-6.7 7.26 26		12.21 6-8.9 5.23 18	15.59 4.6-6.6 5.91 19	8.33 6-9.0 4.32 *	10.67 4.7-6.8 4.89 *	6.71 6-9.0 3.88 *	8.23 4.7-6.7 4.3 *	33.18 3.4-4.9 8.63 *		
0.131	TP THROW VEL NES	(Pa) (m) (m/s) dB							23.05 6.7-9.5 7.19 29	28.91 5.1-7.3 8.06 30		15.08 6-4.9 5.81 21	19.21 5-7.0 6.57 22	10.26 6.4-9.5 4.8 17	13.15 5-7.3 5.43 23	8.27 6.7-9 4.31 *	10.14 5.2-7 4.77 *	40-89 3.7-51 9.58 *		
0.141	TP THROW VEL NES	(Pa) (m) (m/s) dB							26.71 7-9.8 7.74 34	33.49 5.5-7.5 8.67 35		17.43 6.7-9.9 6.25 24	22.25 5.1-7.6 7.07 25	11.89 6.7-9.9 5.17 19	15.24 5-7.5 5.85 19	9.58 6.7-10 4.64 17	11.75 5.7-5 5.14 20			
0.165	TP THROW VEL NES	(Pa) (m) (m/s) dB										23.87 7-10.3 7.32 29	30.47 5.6-8.2 8.27 30	16.28 7.3-10.4 6.05 24	20.86 5.4-8 6.84 25	13.12 7.3-10.4 5.43 20	16.09 5.4-8 6.01 21			
0.187	TP THROW VEL NES	(Pa) (m) (m/s) dB										39.4 8-11.3 9.4 35	39.14 6-8.5 9.37 36	26.88 8-11.3 7.77 28	26.8 6.85 7.76 29	21.67 8-11.3 6.97 24	20.67 6-8.6 6.81 25			
0.212	TP THROW VEL NES	(Pa) (m) (m/s) dB												33.31 8.5-12 8.65 33	34.44 6.7-9 8.79 34	26.85 8.5-12 7.76 28	26.57 6.7-9 7.72 29			
0.236	TP THROW VEL NES	(Pa) (m) (m/s) dB												40.74 8.9-12.7 9.56 38	42.68 6.7-9.8 9.79 39	32.84 8.9-12.9 8.59 32	32.92 6.7-9.9 8.6 33			
0.261	TP THROW VEL NES	(Pa) (m) (m/s) dB															38.88 9-13.5 9.34 37	40.27 7-10.5 9.51 38		

NS = sound rating from sound power data assuming RA=8dB

CA = core area in m

Aj = effective area of throw in m/

TP = static pressure + the duct velocity pressure in Pa.

Throw = distance to point of max. air stream velocity at 0.5/s and /to 0.25m/s



GRILLES

Supply Air

■ SD



GENERAL SPECIFICATIONS

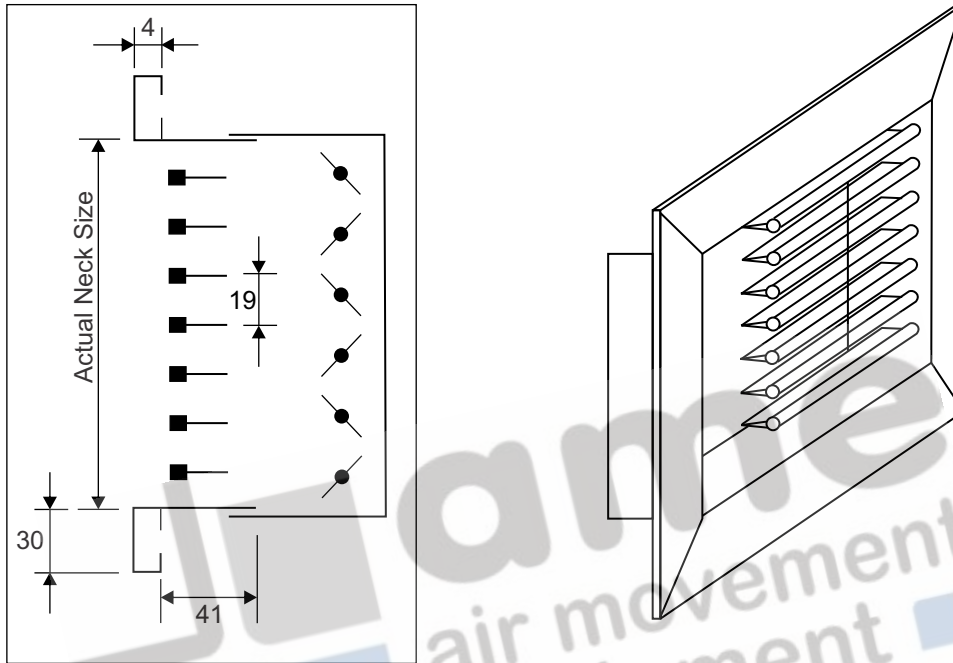
- These models have one set of individually adjustable blades on a horizontal plane to provide maximum throw requirements or on a vertical plane (on special request) to provide maximum spread adjustment.
- They are recommended for heating, cooling, and ventilating applications, generally mounted in a high sidewall bulkhead or duct when wither spread or throw only is important.
- The grilles are provided with or without an opposed blade damper.
- The adjustable blades are spaced at 19mm, but fixed blades with 13, 21 and 26mm spacing can be offered at special request.
- All models feature one set of individually adjustable blades of extruded aluminium set in a 20, 30 or 50mm extruded aluminium frame.
- An optional extra opposed blade damper is constructed of extruded aluminium blades can be supplied on request.
- All models can have a powder coated surface finish preceded by five stage preparation process of cleaning, phosphatising and drying.
- Other colours are available on request.
- Grilles can also be supplied in natural anodized finish.

GRILLES

Supply Air



SD



TYPE SD: Single Deflection Supply Air Grille manufactured of extruded type 50S anodising grade aluminium with individually adjustable horizontal louvers held in place by starlock washers and wire.

Optical Accessories

OBD = Opposed Blade Damper
 PC = Punched counter sunk holes
 CF = Concealed Fixing

Frame Options

30mm Standard
 20mm
 50mm

Finish Options

NA = Natural Anodised
 EPC = Epoxy Powder Coating

Ordering Procedure: Example

Ref	Qty	Size (L x H)	Type	Access	Frame	Finish	Special Instructions
1	9	700 x 350	SD	OBD	20	NA	PC

Note:

- (1) Dimensions given are for opening size into which grille will fit (i.e Normal Duct Size)
- (2) If code "OS" is entered under SPECIAL INSTRUCTIONS, then dimensions given are over flange.