

# S-SERIES PERFORMANCE DATA

## SINGLE SIDE DIFFUSER – Side Inlet

SUPPLY CFM		30	40	50	60	70	80	90	100
PROJECTION	V	3-4	4-6	5-7	6-8	7-9	8-10	9-10	9-11
	H	6-8	7-10	8-12	9-13	10-14	11-15	12-16	13-17
P <sub>s</sub> Inches H <sub>2</sub> O	5"	.04	.08	.13	.19	.25	.32	.41	.50
	6"	.04	.08	.12	.18	.24	.31	.39	.48
NC		(20)	(20)	22	29	33	36	41	44
SUPPLY CFM		40	50	60	70	80	90	100	110
PROJECTION	V	3-5	4-6	5-7	6-8	6-9	7-9	7-10	8-10
	H	4-6	5-8	6-10	8-11	9-13	10-14	11-15	12-16
P <sub>s</sub> Inches H <sub>2</sub> O	5"	.04	.06	.09	.12	.17	.21	.27	.32
	6"	.04	.06	.08	.11	.15	.19	.24	.29
NC		(20)	(20)	(20)	23	27	32	35	39
SUPPLY CFM		50	60	70	80	90	100	110	120
PROJECTION	V	3-4	4-5	5-6	5-7	6-8	6-8	6-9	7-9
	H	4-6	5-7	5-8	6-9	7-10	7-11	8-12	9-13
P <sub>s</sub> Inches H <sub>2</sub> O	5"	.04	.06	.08	.11	.15	.17	.21	.25
	6"	.04	.06	.08	.11	.14	.16	.20	.23
NC		(20)	(20)	(20)	23	27	30	34	37

### 24 inch

FOR USE WITH  
2' X 2' TROFFERS

### 36 inch

FOR USE WITH  
3' X 3' TROFFERS

### 48 inch

FOR USE WITH  
1' X 4', 2' X 4' OR  
4' X 4' TROFFERS

## DUAL SIDE DIFFUSER – Side Inlet

SUPPLY CFM		50	60	70	80	90	100	110	120
PROJECTION	V	3-5	4-6	5-7	5-8	6-8	6-9	7-9	7-10
	H	2-4	4-8	6-10	7-10	7-11	8-11	8-12	9-13
P <sub>s</sub> Inches H <sub>2</sub> O	5"	.05	.06	.08	.10	.13	.16	.19	.23
	6"	.04	.06	.08	.10	.12	.15	.18	.21
NC		(20)	(20)	(20)	21	25	29	32	36
SUPPLY CFM		90	100	110	120	130	140	150	160
PROJECTION	V	3-5	3-6	4-6	4-6	5-7	6-7	6-8	6-9
	H	4-6	5-7	6-8	6-9	7-9	7-10	8-11	8-12
P <sub>s</sub> Inches H <sub>2</sub> O	5"	.07	.08	.10	.12	.14	.17	.19	.22
	6"	.06	.07	.09	.11	.13	.15	.17	.19
NC		(20)	20	23	25	29	30	33	34
SUPPLY CFM		60	80	100	120	140	160	180	200
PROJECTION	V	1-2	1-3	2-3	2-4	3-5	4-6	5-7	6-8
	H	2-3	2-4	3-5	4-6	4-7	5-8	6-9	7-10
P <sub>s</sub> Inches H <sub>2</sub> O	5"	.02	.04	.07	.10	.13	.16	.21	.26
	6"	.02	.04	.06	.08	.11	.15	.19	.23
NC		(20)	(20)	(20)	21	26	30	33	37

### 24 inch

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### 36 inch

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3' X 3' TROFFERS

### 48 inch

FOR USE WITH  
1' X 4', 2' X 4' OR  
4' X 4' TROFFERS

## DUAL SIDE DIFFUSER – Top Inlet

SUPPLY CFM		50	60	70	80	90	100	110	120
PROJECTION	V	3-5	4-6	5-7	5-8	6-8	6-9	7-9	7-10
	H	2-4	4-8	6-10	7-10	7-11	8-11	8-12	9-13
P <sub>s</sub> Inches H <sub>2</sub> O	5"	.05	.07	.09	.12	.15	.18	.22	.26
	6"	.04	.06	.08	.10	.13	.16	.19	.23
NC		(20)	(20)	(20)	22	26	31	33	36
SUPPLY CFM		90	100	110	120	130	140	150	160
PROJECTION	V	3-5	3-6	4-6	4-6	5-7	6-7	6-8	6-9
	H	4-6	5-7	6-8	6-9	7-9	7-10	8-11	8-12
P <sub>s</sub> Inches H <sub>2</sub> O	5"	.08	.10	.12	.15	.18	.20	.23	.28
	6"	.08	.09	.11	.13	.16	.18	.20	.23
NC		20	23	26	28	32	33	34	37
SUPPLY CFM		60	80	100	120	140	160	180	200
PROJECTION	V	1-2	1-3	2-3	2-4	3-5	4-6	5-7	6-8
	H	2-3	2-4	3-5	4-6	4-7	5-8	6-9	7-10
P <sub>s</sub> Inches H <sub>2</sub> O	5"	.03	.06	.09	.13	.17	.22	.28	.35
	6"	.03	.05	.08	.10	.14	.18	.23	.29
NC		(20)	(20)	21	24	31	33	37	41

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Projection - V and H are vertical and horizontal distances in feet to reach terminal velocities of 100 FPM and 50 FPM respectively.

P<sub>s</sub> Inches H<sub>2</sub>O - Static pressure drop across the diffuser with dampers full open and horizontal air projection.

NC - A one number evaluation of sound generation derived from sound power levels (re: 10<sup>-12</sup> Watts) less 8db room absorption.