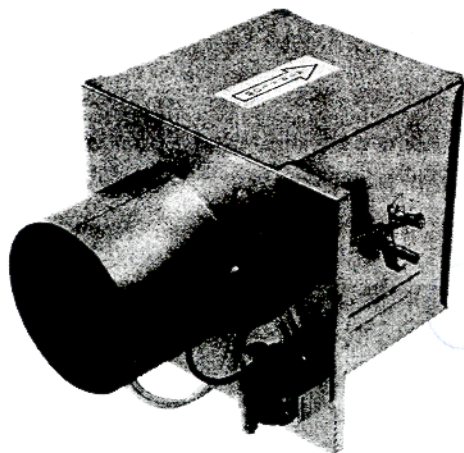


## MODEL SSD-II



### DESCRIPTION

Model SSD-II Terminals are designed for use in low, medium or high pressure, variable air volume, single duct systems. The SSD-II's many control sequences represent the broadest range of standard control options in the industry, providing infinite design flexibility to meet any system requirement.

The Model SSD-II throttling-type Terminal incorporates a single damper blade, which operates through a 45° arc, providing throttling capability in all damper positions — a feature not possible with 90° arc single or multi-blade dampers used in competitive equipment.

### CONSTRUCTION

Model SSD-II Terminals are manufactured of zinc-coated steel: 24-gauge casing, 16-gauge damper and 20-gauge damper seat. (Heavier casing gauges are available at extra cost.) Assembly of the casing is by means of a mechanical lock, insuring the tightest possible construction: maximum air leakage — 2% at 3" water gauge.

The basic Terminal is 13" in length and 10" in height. Units may be provided with round, oval or rectangular inlet and outlet collars. Round or oval inlets and slip-and-drive discharge are standard.

Pressure-independent units are furnished with an inlet Averaging Sensor which may be removed without disconnecting the inlet duct or flex. All other control components are accessible outside of the Terminal casing.

All SSD-II casings are internally lined with 1/2", 4# dual density, coated fiberglass, complying with N.F.P.A. 90-A and U.L. 181. No raw edges are exposed to the air stream. Special insulation coatings are available for clean-room, hospital and laboratory applications.

### PERFORMANCE

Model SSD-II units are available as system pressure-independent or system pressure-dependent. The thermostat controls the SSD-II in either case, providing desired temperature by varying the air volume to the space served. Pressure-independent models are equipped with minimum/maximum air volume dials for rapid field setting; set points are maintained, regardless of system pressure fluctuations. Pressure-

dependent models operate only in response to the room thermostat demand, and may fluctuate through their range as the system pressure changes. Pressure dependent models are not recommended for large systems.

SSD-II units will operate efficiently at pressures from as low as .03" ΔP (pneumatic) and .015" ΔP (electronic).

**INLET EFFECT**—All SSD models are tested with straight inlet connection. If installed with other than straight connection, a shift in the set point may result. Units include an averaging probe to assist in overcoming poor inlet effect, however the controller may require field trim adjustment.

### SELECTION

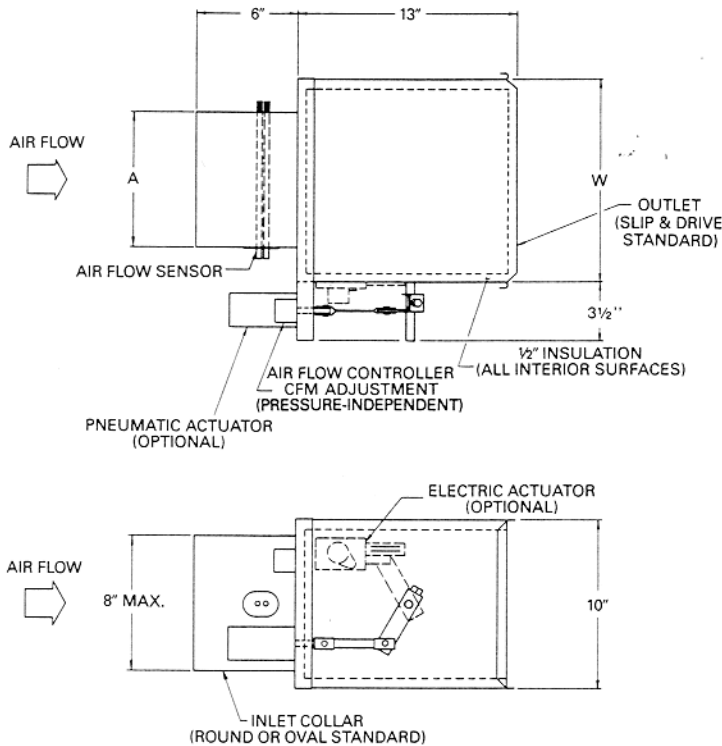
Model SSD-II should be selected in the mid to upper-mid range of the performance table (CFM) to insure maximum operating efficiency. Published performance values have

been established by actual test with the max (CFM) set for the rated value. The recommended selection range will produce the quietest possible system.

**Testing**—all ENVIRO-TEC™ Terminals are tested and rated in accordance with ADC, ARI and ASHRAE standards as applicable.

### CONTROLS

Terminals are available with pneumatic or electronic controls. Control sequence descriptions and reproducible schematics are shown in Control Sequence Guide CSP 187 (pneumatic) and CSE 287 (electronic).



Unit Size	W Dim.	A Dim.
4	8"	4"
5	8"	5"
6	8"	6"
8	12"	8"
* 10	14"	11"
* 12	18"	14 <sup>1</sup> / <sub>8</sub> "
* 14	22"	17 <sup>1</sup> / <sub>4</sub> "
* 16	26"	20 <sup>3</sup> / <sub>8</sub> "
* 18	32"	23 <sup>9</sup> / <sub>16</sub> "
** 20	40"	26 <sup>3</sup> / <sub>8</sub> "
** 24	40"	33"

\* oval inlet  
 \*\* rectangular inlet

**PERFORMANCE DATA**

Model SSD-II										
Terminal Size	CFM	Min. $\Delta$ Pt	Room Noise Criterion (NC)							
			Min. $\Delta$ Ps		Min. $\Delta$ Ps + 0.75"		Min. $\Delta$ Ps + 1.50"		Min. $\Delta$ Ps + 3.0"	
			Disch.	Rad.	Disch.	Rad.	Disch.	Rad.	Disch.	Rad.
4	100	.11	—	—	—	—	25	—	31	—
	150	.22	—	—	22	—	31	—	35	—
	200	.37	—	—	31	—	37	21	41	27
5	175	.09	—	—	—	—	30	—	36	—
	265	.20	—	—	25	—	33	—	39	20
	350	.33	—	—	28	—	35	—	44	25
6	250	.05	—	—	—	—	28	—	33	20
	375	.13	—	—	24	—	31	—	37	24
	500	.23	—	—	25	—	33	23	40	28
8	500	.06	—	—	—	—	30	—	38	23
	750	.16	—	—	24	—	32	20	39	25
	1000	.27	—	—	28	—	34	23	40	28
10	750	.05	—	—	—	—	30	—	35	22
	1125	.10	—	—	24	—	31	21	37	25
	1500	.18	—	—	30	21	33	25	38	28
12	1000	.05	—	—	—	—	31	—	37	22
	1500	.11	—	—	25	—	33	21	40	25
	2000	.19	23	—	33	21	36	24	42	30
14	1250	.04	—	—	22	—	30	—	36	26
	1875	.08	—	—	31	—	35	23	40	27
	2500	.14	24	—	33	24	38	26	44	31
16	1600	.04	—	—	24	—	32	—	37	26
	2400	.08	—	—	28	20	34	24	40	31
	3200	.15	25	—	32	26	36	28	42	34
18	1900	.04	—	—	28	—	35	23	40	30
	2850	.10	23	—	31	22	37	28	42	35
	3800	.16	31	—	33	27	39	33	46	37
20	2300	.05	—	—	29	—	33	21	38	26
	3450	.12	20	—	30	20	35	26	40	31
	4600	.22	25	—	32	25	38	31	45	34
24	2900	.05	—	—	30	—	35	24	41	29
	4350	.10	23	—	31	24	37	30	45	34
	5800	.19	30	21	33	30	40	35	48	39

Performance data is based on tests conducted in accordance with Industry Standard 880.  $\Delta$ Pt is the total pressure difference between the terminal inlet and discharge. This value does not include pressure losses downstream of the terminal unit. Discharge NC levels are based on 10dB room attenuation, five feet of lined duct downstream, and a maximum of 300 CFM per diffuser. Refer to page 8 for sound power correction factors if system conditions vary greatly from these assumptions. Radiated NC levels are based on 10dB room absorption and ceiling sound transmission class 35-39.

Blank space (—) indicates NC level less than 20.

# MODEL SSD-II

## PERFORMANCE DATA

% OF TOTAL AIR OF THE TERMINAL HANDLED BY EACH DIFFUSER	5	7	10	15	20	25	33	50	75	100
NUMBER OF DIFFUSERS PER TERMINAL	20	14	10	7	5	4	3	2	2	1
dB REDUCTION	13	12	10	8	7	6	5	3	1	0

OCTAVE BAND	2	3	4	5	6
UNIT SIZE					
4-5-6	.53	2.3	4.4	6.0	6.3
8	.4	1.8	3.3	4.5	4.8
10	.39	1.7	3.2	4.2	4.4
12	.35	1.5	2.8	3.8	4.0
14	.32	1.4	2.6	3.5	3.8
16	.32	1.4	2.6	3.5	3.8
18	.30	1.3	2.4	3.3	3.6
20	.29	1.3	2.4	3.2	3.4
24	.29	1.3	2.4	3.2	3.4

**dB REDUCTIONS** — Shown above are approximate values compiled through a combination of laboratory testing and extrapolation of empirical formulas published in the ASHRAE manual. These values are based on ductwork approximately the same size as the terminal discharge opening. The above sound performance tables are provided to approximate the discharge NC level where system conditions vary significantly from the assumptions shown below the respective performance tables for each product. The following example illustrates the proper use of Tables 1-A and 1-B.

**SELECTION** — Size 12 SSD-II, 1500 CFM, min Ps + 0.75" w.g., 150CFM/Diffuser, four feet of lined downstream duct and only 7dB room absorption.

**CALCULATIONS** — 1. 1500 divided by 150 = 10 Diffusers from Table 1-A we find a correction of 10dB

2. From Table 1-B we find the following dB reduction per foot of lining:

OCTAVE BAND NO.	2	3	4	5	6
dB Reduction/Ft.	.35	1.5	2.8	3.8	4.0
4 Ft. (rounding off)	1	6	11	15	16

**SOLUTION** — From Table 1-C (pg. 9) we find the following uncorrected Discharge Sound Power Levels and then apply the corrections calculated above:

OCTAVE BAND NO.	2	3	4	5	6
RAW SOUND POWER	65	63	62	58	54
ROOM ABSORPTION	-7	-7	-7	-7	-7
MULTIPLE DIFFUSERS	-10	-10	-10	-10	-10
DUCT LINING	-1	-6	-11	-15	-16
CORRECTED SOUND PRESSURE	47	40	34	26	21

Plotting these calculated sound pressure levels on a NC chart we determine a predicted sound pressure level of NC 28.

PERFORMANCE DATA

Table 1-C Model SSD-II Discharge Sound Power Levels dB re: 1 pW

Unit Size	CFM	OCTAVE BAND NUMBERS																							
		Min. Δ Ps					Min. Δ Ps + 0.75"					Min. Δ Ps + 1.5"					Min. Δ Ps + 3.0"								
		2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7
4	100	45	46	43	40	37	35	52	53	51	49	47	42	56	60	53	52	50	46	58	64	58	61	59	54
	150	51	52	47	44	41	38	54	57	54	52	50	45	61	65	57	56	53	49	64	68	61	63	59	55
	200	56	57	51	47	44	40	63	65	58	56	53	47	68	70	63	64	53	54	70	74	66	65	64	57
5	175	44	45	43	40	37	36	50	52	51	49	47	43	56	63	60	58	53	50	60	69	68	67	60	56
	265	48	50	48	45	42	39	56	60	58	54	51	47	60	66	62	60	56	52	64	72	70	69	63	60
	350	52	53	50	48	44	40	59	62	59	57	53	48	64	69	65	63	59	54	68	75	72	71	67	62
6	250	43	44	42	39	36	35	49	52	48	46	45	41	55	62	58	57	53	49	59	67	68	64	60	58
	375	47	48	47	44	41	38	55	60	54	48	48	45	59	66	63	59	55	51	64	72	71	69	64	60
	500	51	52	49	47	43	39	58	62	56	54	51	48	63	68	64	61	57	53	68	75	73	71	66	61
8	500	46	47	44	42	39	36	48	52	50	50	49	44	58	63	61	61	56	51	65	70	71	71	65	60
	750	50	52	50	48	45	40	60	60	57	55	52	47	66	67	65	63	58	53	69	73	71	72	66	60
	1000	54	55	54	56	49	43	64	65	62	60	55	50	69	70	68	65	61	56	73	75	73	73	68	62
10	750	46	47	46	45	42	38	52	54	54	51	49	45	58	64	63	60	56	52	66	69	70	70	64	60
	1125	53	53	52	48	44	43	62	62	60	57	54	50	66	67	66	63	59	55	71	73	72	70	66	62
	1500	56	56	58	58	52	46	67	66	64	61	58	53	69	70	69	66	62	58	73	75	73	72	68	63
12	1000	47	48	48	44	41	37	57	56	56	52	50	44	63	67	65	62	57	52	68	72	72	71	66	60
	1500	56	54	53	49	44	43	65	63	62	58	54	50	69	71	68	65	60	55	73	76	75	73	69	62
	2000	62	61	61	59	53	47	71	69	66	63	58	53	72	73	71	67	62	57	76	78	77	74	69	63
14	1250	49	48	46	41	39	37	59	59	57	53	52	47	66	66	65	63	58	55	69	71	70	70	65	61
	1875	57	57	56	53	47	41	69	66	63	59	56	52	71	71	69	66	62	58	75	76	74	73	68	64
	2500	64	60	63	62	55	51	72	71	68	65	60	56	74	75	73	69	65	60	78	81	77	75	70	66
16	1600	49	49	46	41	40	39	64	62	60	56	53	52	68	68	68	64	58	54	71	74	73	72	66	61
	2400	56	54	52	55	49	42	69	67	65	61	56	52	71	72	70	66	62	57	76	78	76	75	69	63
	3200	65	64	66	63	55	51	72	72	69	67	60	56	74	76	74	69	65	59	78	81	78	76	71	66
18	1900	51	52	47	43	41	40	66	65	61	57	54	51	71	71	69	65	61	57	74	75	75	74	69	65
	2850	62	57	61	59	52	50	71	68	66	62	58	53	74	75	74	69	65	59	77	79	77	76	72	68
	3800	68	67	70	67	58	59	74	73	70	68	62	57	77	79	78	72	68	61	79	84	79	72	74	71
20	2300	49	52	49	47	41	40	64	64	66	60	54	51	70	70	70	68	61	55	75	76	75	73	73	65
	3450	64	58	55	53	50	50	70	67	68	65	58	53	73	74	73	72	66	57	78	79	77	75	74	68
	4600	69	68	66	67	56	56	73	72	72	71	62	57	76	78	78	75	68	59	80	85	79	76	76	71
24	2900	57	55	49	47	41	38	68	67	67	60	56	49	74	73	71	71	62	56	78	79	77	75	73	69
	4350	67	61	56	53	52	50	73	70	69	65	60	53	76	77	76	75	66	58	80	83	79	76	76	71
	5800	72	71	67	63	58	56	76	75	73	71	64	57	79	81	79	78	69	60	82	87	81	79	77	73

Table 1-D Model SSD-II Radiated Sound Power Levels dB re: 1 pW

Unit Size	CFM	OCTAVE BAND NUMBERS																							
		Min. Δ Ps					Δ Ps + 0.75"					Min. Δ Ps + 1.5"					Min. Δ Ps + 3.0"								
		2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7
4	100	41	36	30	25	22	—	50	44	41	36	32	27	53	47	44	40	36	33	55	52	52	48	44	39
	150	47	41	36	32	28	24	53	50	46	40	36	31	59	54	51	45	39	36	62	57	56	51	46	41
	200	52	44	40	37	32	29	58	54	50	42	39	34	62	56	54	46	42	39	66	62	60	56	48	42
5	175	41	32	26	22	20	—	47	41	39	33	30	25	52	46	43	40	33	32	54	50	48	48	42	41
	265	45	35	30	29	28	24	52	47	44	36	34	31	57	52	49	43	36	33	60	55	53	52	45	42
	350	50	39	36	33	33	28	54	50	46	38	37	33	58	53	51	44	40	38	64	60	58	55	47	42
6	250	44	35	32	27	26	22	53	43	42	32	31	28	55	47	47	40	38	34	57	53	53	48	45	42
	375	48	40	36	31	29	27	58	50	45	38	35	31	61	55	52	45	41	36	63	57	57	51	47	43
	500	53	46	42	36	33	29	62	56	52	42	39	32	64	58	56	47	43	36	65	62	61	54	50	43
8	500	43	36	30	27	25	22	53	44	40	37	35	30	55	51	49	43	39	33	59	55	56	51	46	40
	750	47	39	34	32	30	26	55	48	45	39	36	32	58	55	53	47	41	35	62	58	58	53	47	40
	1000	52	44	41	38	37	32	60	55	51	44	40	33	63	58	56	50	44	36	65	62	61	55	49	41
10	750	43	36	30	27	25	22	55	48	42	36	34	29	58	52	49	43	40	35	61	57	55	49	47	45
	1125	50	41	36	30	27	23	60	53	48	40	35	32	64	57	54	46	42	37	66	62	58	52	49	45
	1500	59	49	44	34	31	26	66	59	54	44	39	34	68	61	58	50	44	39	70	65	61	54	50	45
12	1000	42	35	31	26	25	23	54	47	43	35	34	30	57	51	48	41	38	34	62	56	55	50	45	40
	1500	49	41	36	30	29	24	61	52	49	39	35	33	66	58	54	46	43	41	67	60	58	53	47	43
	2000	57	47	44	34	33	28	64	57	54	44	41	36	68	61	57	48	44	42	71	65	62	55	49	43
14	1250	44	36	33	29	26	24	57	50	43	38	34	33	60	57	51	46	40	37	65	63	59	53	46	45
	1875	52	42	40	33	30	26	62	56	51	44	37	33	66	61	56	50	43	39	69	64	60	55	48	45
	2500	59	48	47	37	34	29	66	61	57	48	40	34	70	64	60	52	45	44	73	67	63	58	50	46
16	1600	42	34	31	28	26	24	54	48	41	37	36	34	61	57	52	47	43	41	65	62	59	55	47	44
	2400	51	44	41	35	31	29	65	59	53	47	43	42	67	62	57	51	45	44	72	68	63	57	50	46
	3200	61	54	51	42	35	33	68	63	59	51	46	45	71	65	61	53	47	45	78	72	66	60	52	48
18	1900	45	38	35	30	26	24	64	55	50	40	36	34	69	62	56	45	38	34	71	68	62	52	46	40
	2850	52	45	41	35	31	29	66	60	55	46	40	38	72	66	61	48	46	44	76	71	67	56	50	45
	3800	62	55	52	43	36	35	69	64	60	52	46	44	74	69	65	54	48	46	80	74	69	62	54	50
20	2300	48	41	37	33	30	26	60	52	48	42	36	35	63	59	54	48	41	37	67	63	59	53	50	45
	3450	54	47	44	39	34	31	64	57	53	48	42	40	67	63	59	52	46	42	72	67	63	58	54	50
	4600	60	53	50	44	37	36	67	62	58	53	47													



## MODEL SSD-WC-II

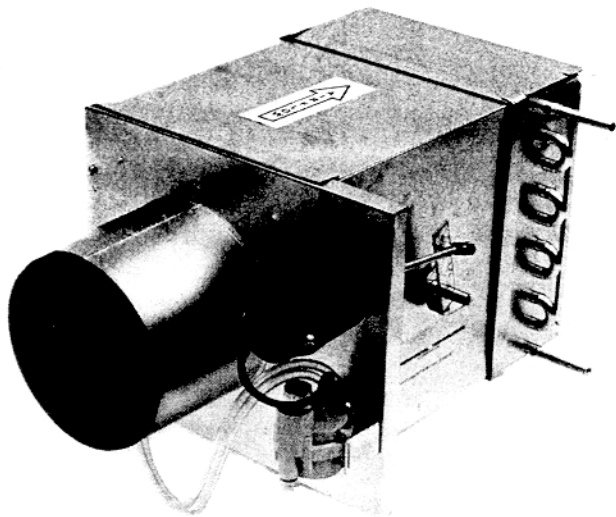
### DESCRIPTION

Model SSD-WC-II Terminals are designed for use in low, medium or high pressure, variable air volume, single duct systems requiring hot water reheating or terminal heating of the primary supply air. The SSD-WC-II's many control sequences represent the broadest range of standard control options in the industry, providing infinite design flexibility to meet any system requirement.

Model SSD-WC-II throttling-type Terminal incorporates a single damper blade, which operates through a 45° arc, providing throttling capability in all damper positions — a feature not possible with 90° arc single or multi-blade dampers used in competitive equipment.

Standard water coils available with the SSD-WC-II have been computer-selected to provide maximum efficiency at the lowest possible cost.

Coils for the Model SSD-WC-II are shipped separately for field attachment to the Terminal, or factory-mounted at extra cost.



### CONSTRUCTION

Model SSD-WC-II Terminals are manufactured of zinc-coated steel: 24-gauge casing, 16-gauge damper and 20-gauge damper seat. (Heavier casing gauges are available at extra cost.) Assembly of the casing is by means of a mechanical lock, insuring the tightest possible construction; maximum air leakage — 2% at 3" water gauge.

The basic Terminal including the Water Coil is 19" in length through size 18 and 12½" in height. All units are provided with round, oval or rectangular inlet collars and slip-and-drive outlets as standard. Optional round, oval or rectangular discharge collars are available at extra cost.

Pressure-independent units are furnished with an inlet Averaging Sensor which may be removed without disconnecting the inlet duct or flex. All other control components are accessible outside of the Terminal casing.

All SSD-WC-II casings are internally lined with ½", 4# dual density, coated fiberglass, complying with N.F.P.A. 90-A and U.L. 181. No raw edges are exposed to the air stream. Special insulation coatings are available for clean-room, hospital and laboratory applications.

Water coils are constructed of pure aluminum fins of .005" to .010" thickness, with die-formed spacer collars to maintain uniform spacing. Fins are mechanically affixed to .017" copper tubes, insuring maximum heat transfer. All ETI Coils are tested at 320 psig minimum pressure for leaks, using air under warm water.

**INLET EFFECT** — All SSD models are tested with straight inlet connection: If installed with other than straight connection, a shift in the set point may result. Units include an averaging probe to assist in overcoming poor inlet effect, however the controller may require field trim adjustment.

### PERFORMANCE

Model SSD-WC-II units are available as system pressure-independent or system pressure dependent. The space thermostat controls the SSD-WC-II in either case, providing desired temperature by varying the air volume to the space served. Pressure-independent models are equipped with minimum/maximum air volume dials for rapid field setting; set points are maintained, regardless of system pressure fluctuations. Pressure-dependent models operate only in response to the room thermostat demand, and may fluctuate

through their range as the system pressure changes. Pressure-dependent models are not recommended for large systems.

SSD-WC-II units will operate efficiently at pressures from as low as .03"ΔP (pneumatic) and .015"ΔP (electronic).

Consult coil performance charts for coil selection and determination of air pressure drop through coil. Air pressure drop through coil is additive to pressure drop of Terminal.

### SELECTION

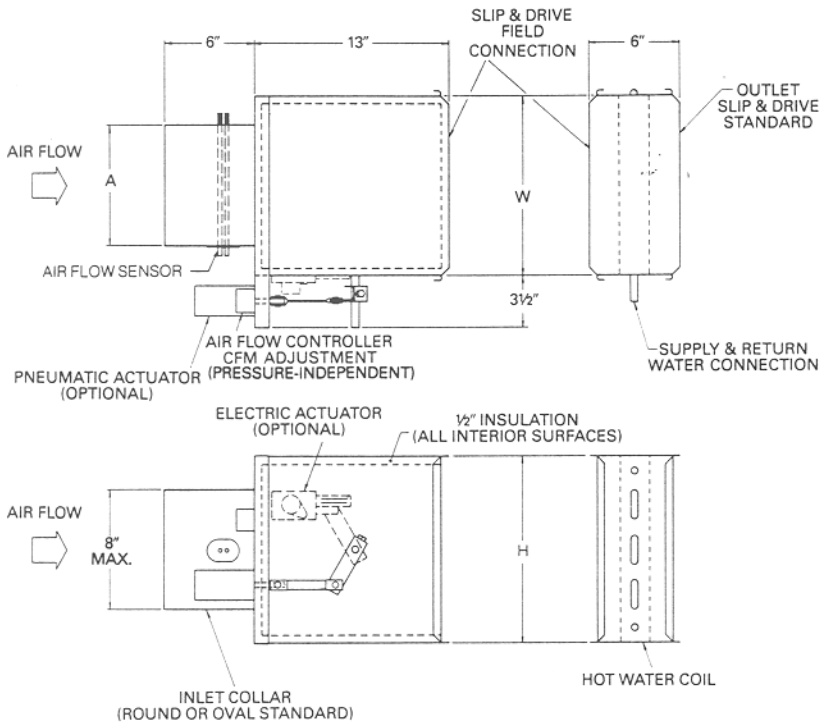
Model SSD-WC-II units should be selected in the mid to upper-mid range of the performance table (CFM) to insure maximum operating efficiency. Published performance val-

ues have been established by actual test with the max (CFM) set for the rated value. The recommended selection range will produce the quietest possible system.

**Testing** — all ENVIRO-TEC™ Terminals are tested and rated in accordance with ADC, ARI and ASHRAE standards as applicable.

### CONTROLS

Terminals are available with pneumatic or electronic controls. Control sequence descriptions and reproducible schematics are shown in Control Sequence Guide CSP 187 (pneumatic) and CSE 287 (electronic).



Unit Size	W Dim.	A Dim.	H Dim.
4	12"	4"	10"
5	12"	5"	10"
6	12"	6"	10"
8	12"	8"	10"
* 10	18"	11"	10"
* 12	22"	14 1/8"	12 1/2"
* 14	26"	17 1/4"	12 1/2"
* 16	32"	20 3/8"	12 1/2"
* 18	40"	23 3/16"	12 1/2"
** 20	40"	26 3/8"	12 1/2"
** 24	40"	33"	12 1/2"

\* oval inlet  
 \*\* rectangular inlet

**PERFORMANCE DATA**

Model SSD-WC-II										
Terminal Size	CFM	Min. ΔPt	Room Noise Criterion (NC)							
			Min. ΔPs		Min. ΔPs + 0.75"		Min. ΔPs + 1.5"		Min. ΔPs + 3.0"	
			Disch.	Rad.	Disch.	Rad.	Disch.	Rad.	Disch.	Rad.
4	100	.11	—	—	20	—	27	—	33	—
	150	.24	—	—	24	—	33	—	36	—
	200	.39	—	—	33	—	39	21	42	27
5	175	.11	—	—	—	—	32	—	37	—
	265	.23	—	—	27	—	34	—	41	20
	350	.40	—	—	31	—	38	—	45	25
6	250	.11	—	—	—	—	31	—	35	20
	375	.24	—	—	27	—	33	—	40	24
	500	.41	—	—	28	—	35	23	43	28
8	500	.06	—	—	—	—	33	—	40	23
	750	.16	—	—	26	—	35	20	41	25
	1000	.27	—	—	30	—	36	23	42	28
10	750	.08	—	—	23	—	33	—	38	22
	1125	.16	—	—	27	—	34	21	40	25
	1500	.27	20	—	33	21	36	25	41	28
12	1000	.09	—	—	25	—	34	—	40	22
	1500	.19	21	—	28	—	36	21	43	25
	2000	.33	26	—	36	21	39	24	45	30
14	1250	.09	—	—	25	—	33	—	39	26
	1875	.18	24	—	34	—	38	23	43	27
	2500	.32	27	—	36	24	41	26	47	31
16	1600	.09	—	—	27	—	35	—	40	26
	2400	.19	20	—	31	20	37	24	43	31
	3200	.33	28	—	36	26	39	28	45	34
18	1900	.09	—	—	31	—	36	23	43	30
	2850	.20	26	—	34	22	40	28	45	35
	3800	.34	34	—	37	27	42	33	49	37
20	2300	.08	—	—	31	—	36	21	40	26
	3450	.17	23	—	33	20	39	26	43	31
	4600	.29	29	—	35	25	42	31	46	34
24	2900	.07	20	—	33	—	38	24	42	29
	4350	.15	27	—	34	24	41	30	45	34
	5800	.25	34	21	37	30	44	35	48	39

Performance data is based on tests conducted in accordance with Industry Standard 880. ΔPt is the total pressure difference between the terminal inlet and discharge. This does not include pressure requirement of hot water coil. Refer to coil tables to obtain this value which must be added to min. ΔPt above for total pressure drop across the assembly. This value does not include pressure losses downstream of the terminal unit. Discharge NC levels are based on 10dB room attenuation, five feet of lined duct downstream, and a maximum of 300 CFM per diffuser. Refer to page 8 for sound power correction factors if system conditions vary greatly from these assumptions. Radiated NC levels are based on 10 dB room absorption and ceiling sound transmission class 35-39.

Blank space (—) indicates NC level less than 20.

# HOT WATER COIL SELECTION PROCEDURE

## DEFINITION OF TERMS:

- EAT — Entering Air Temperature (degrees F)
- LAT — Leaving Air Temperature (degrees F)
- EWT — Entering Water Temperature (degrees F)
- LWT — Leaving Water Temperature (degrees F)
- ATR — Air Temperature Rise (degrees F)
- WTD — Water Temperature Drop (degrees F)
- CFM — Air Volume (Cubic Feet Per Minute)
- MBH — 1000 BTUH
- BTUH — Coil Heating Capacity (British Thermal Units Per Hour)

## SELECTION:

Tables are based on temperature difference of 125 degrees F between entering water and entering air. If this  $\Delta T$  is suitable, proceed directly to tables for selection. All pertinent performance data is tabulated. FOR VARIABLE AIR VOLUME APPLICATIONS, THE AIR STATIC PRESSURE DROP MUST BE BASED ON THE MAXIMUM AIR VOLUME.

ENTERING WATER-AIR TEMPERATURE DIFFERENTIAL ( $\Delta T$ CORRECTION FACTORS)															
$\Delta T$	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
FACTOR	.15	.19	.23	.27	.31	.35	.39	.43	.47	.51	.55	.59	.63	.67	.71
$\Delta T$	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
FACTOR	.75	.79	.83	.88	.92	.96	1.00	1.04	1.08	1.13	1.17	1.21	1.25	1.29	1.33

The table above gives correction factors for various entering  $\Delta T$ 's (difference between entering water temperature and entering air temperature). Multiply MBH values obtained from selection tables by the appropriate correction factor above to obtain the actual MBH value. Air and water pressure drop can be read directly from the selection table. The leaving air temperature and leaving water temperature can be calculated from the following fundamental formulas:

$$LAT = EAT + \frac{BTUH}{1.08 \times CFM}$$

$$LWT = EWT - \frac{BTUH}{500 \times GPM}$$

**Model SSD-IWC Size 8**

AIR VOLUME (CFM)	AIR PD (IN. W.G.)	FLOW RATE (GPM)		WATER PD (FT. W.G.)		LAT (DEGREES F)		LWT (DEGREES F)		CAPACITY (MBH)	
		1 ROW	2 ROW	1 ROW	2 ROW	1 ROW	2 ROW	1 ROW	2 ROW	1 ROW	2 ROW
176	1 Row 0.02	0.5	1.0	0.1	0.1	96.9	144.9	149.0	134.7	7.74	13.32
	2 Row 0.03	3.0	6.0	0.4	0.8	104.6	152.4	152.4	136.4	8.96	15.08
250	1 Row 0.03	0.5	1.0	0.1	0.1	87.1	133.8	154.4	127.9	8.68	13.19
	2 Row 0.06	3.0	6.0	0.4	0.8	96.3	142.4	152.4	136.4	9.90	15.08
325	1 Row 0.05	0.5	1.0	0.1	0.1	88.7	133.8	154.4	127.9	8.51	13.19
	2 Row 0.09	3.0	6.0	0.4	0.8	98.0	142.4	152.4	136.4	9.73	15.08
400	1 Row 0.07	0.5	1.0	0.1	0.1	78.8	118.2	138.8	117.8	10.24	15.08
	2 Row 0.13	3.0	6.0	0.4	0.8	88.1	126.8	136.4	127.9	11.46	15.08
475	1 Row 0.10	0.5	1.0	0.1	0.1	76.3	118.2	138.8	117.8	10.94	15.08
	2 Row 0.18	3.0	6.0	0.4	0.8	85.6	126.8	136.4	127.9	12.16	15.08
550	1 Row 0.12	0.5	1.0	0.1	0.1	74.3	118.2	138.8	117.8	11.49	15.08
	2 Row 0.23	3.0	6.0	0.4	0.8	83.6	126.8	136.4	127.9	12.71	15.08
625	1 Row 0.15	0.5	1.0	0.1	0.1	72.7	118.2	138.8	117.8	11.96	15.08
	2 Row 0.29	3.0	6.0	0.4	0.8	82.0	126.8	136.4	127.9	13.18	15.08
700	1 Row 0.19	0.5	1.0	0.1	0.1	71.4	118.2	138.8	117.8	12.38	15.08
	2 Row 0.36	3.0	6.0	0.4	0.8	80.7	126.8	136.4	127.9	13.60	15.08
775	1 Row 0.23	0.5	1.0	0.1	0.1	70.2	118.2	138.8	117.8	12.75	15.08
	2 Row 0.43	3.0	6.0	0.4	0.8	79.5	126.8	136.4	127.9	13.97	15.08
850	1 Row 0.27	0.5	1.0	0.1	0.1	69.2	118.2	138.8	117.8	13.08	15.08
	2 Row 0.51	3.0	6.0	0.4	0.8	78.5	126.8	136.4	127.9	14.30	15.08
925	1 Row 0.31	0.5	1.0	0.1	0.1	68.4	118.2	138.8	117.8	13.33	15.08
	2 Row 0.59	3.0	6.0	0.4	0.8	77.7	126.8	136.4	127.9	14.55	15.08
1000	1 Row 0.36	0.5	1.0	0.1	0.1	67.6	118.2	138.8	117.8	13.64	15.08
	2 Row 0.68	3.0	6.0	0.4	0.8	76.9	126.8	136.4	127.9	14.87	15.08

Above data is based on entering water temperature of 180° F and entering air temperature of 55° F. See hot water coil selection procedure for correction factors if entering temperatures vary from these.

**Model SSD-IWC Sizes 4, 5, 6**

AIR VOLUME (CFM)	AIR PD (IN. W.G.)	FLOW RATE (GPM)		WATER PD (FT. W.G.)		LAT (DEGREES F)		LWT (DEGREES F)		CAPACITY (MBH)	
		1 ROW	2 ROW	1 ROW	2 ROW	1 ROW	2 ROW	1 ROW	2 ROW	1 ROW	2 ROW
50	1 Row 0.01	0.5	1.0	0.1	0.1	137.5	153.2	162.2	158.8	4.46	5.30
	2 Row 0.01	3.0	6.0	0.4	0.8	144.9	162.2	176.7	174.3	4.85	5.73
100	1 Row 0.01	0.5	1.0	0.1	0.1	118.0	141.6	161.3	146.3	6.26	8.42
	2 Row 0.01	3.0	6.0	0.4	0.8	123.0	148.4	173.3	170.1	6.89	9.25
150	1 Row 0.01	0.5	1.0	0.1	0.1	100.9	132.9	154.9	146.3	7.33	10.25
	2 Row 0.02	3.0	6.0	0.4	0.8	106.7	139.7	161.3	151.6	7.96	10.63
200	1 Row 0.02	0.5	1.0	0.1	0.1	92.4	121.7	147.7	131.9	8.09	10.63
	2 Row 0.04	3.0	6.0	0.4	0.8	97.3	128.5	154.1	137.2	8.72	11.01
250	1 Row 0.03	0.5	1.0	0.1	0.1	87.1	121.7	147.7	131.9	8.66	10.63
	2 Row 0.06	3.0	6.0	0.4	0.8	92.0	128.5	154.1	137.2	9.29	11.39
300	1 Row 0.04	0.5	1.0	0.1	0.1	83.4	121.7	147.7	131.9	9.21	11.39
	2 Row 0.08	3.0	6.0	0.4	0.8	88.3	128.5	154.1	137.2	9.84	12.15
350	1 Row 0.06	0.5	1.0	0.1	0.1	80.3	121.7	147.7	131.9	9.79	11.39
	2 Row 0.11	3.0	6.0	0.4	0.8	85.2	128.5	154.1	137.2	10.42	12.15
400	1 Row 0.07	0.5	1.0	0.1	0.1	78.8	121.7	147.7	131.9	10.24	11.39
	2 Row 0.13	3.0	6.0	0.4	0.8	83.7	128.5	154.1	137.2	10.87	12.15
450	1 Row 0.09	0.5	1.0	0.1	0.1	77.1	121.7	147.7	131.9	10.74	11.39
	2 Row 0.16	3.0	6.0	0.4	0.8	82.0	128.5	154.1	137.2	11.37	12.15
500	1 Row 0.10	0.5	1.0	0.1	0.1	75.6	121.7	147.7	131.9	11.13	11.39
	2 Row 0.20	3.0	6.0	0.4	0.8	80.5	128.5	154.1	137.2	11.76	12.15
550	1 Row 0.12	0.5	1.0	0.1	0.1	74.3	121.7	147.7	131.9	11.49	11.39
	2 Row 0.23	3.0	6.0	0.4	0.8	79.2	128.5	154.1	137.2	12.12	12.15
600	1 Row 0.14	0.5	1.0	0.1	0.1	73.2	121.7	147.7	131.9	11.81	11.39
	2 Row 0.27	3.0	6.0	0.4	0.8	78.1	128.5	154.1	137.2	12.44	12.15

Above data is based on entering water temperature of 180° F and entering air temperature of 55° F. See hot water coil selection procedure for correction factors if entering temperatures vary from these.



Model SSD-WC Size 10

AIR VOLUME (CFM)	AIRPD (IN. W.G.)	FLOW RATE (GPM)	WATER PD (FT. W.G.)		LAT (DEGREES F)		LWT (DEGREES F)		CAPACITY (MBH)	
			1 ROW	2 ROW	1 ROW	2 ROW	1 ROW	2 ROW	1 ROW	2 ROW
300	1 Row 0.02	0.5	0.2	0.1	86.2	105.8	134.3	114.2	13.41	16.44
	2 Row 0.04	1.0	0.5	1.0	100.1	126.9	165.4	138.5	14.81	20.54
400	1 Row 0.03	0.5	0.2	0.1	83.4	97.0	130.9	107.4	12.25	15.16
	2 Row 0.06	1.0	0.6	1.0	92.5	112.4	163.8	152.5	16.81	23.28
500	1 Row 0.05	0.5	0.2	0.1	79.7	90.9	126.7	102.4	13.33	16.00
	2 Row 0.10	1.0	0.6	1.0	88.7	116.4	161.4	149.0	18.18	24.46
600	1 Row 0.07	0.5	0.2	0.1	76.9	86.4	123.3	98.7	14.18	17.33
	2 Row 0.13	1.0	0.6	1.0	85.7	107.5	156.1	146.0	19.89	27.53
700	1 Row 0.09	0.5	0.2	0.1	74.7	82.9	120.4	95.8	14.98	18.16
	2 Row 0.17	1.0	0.6	1.0	83.3	103.4	153.6	143.4	20.82	28.61
800	1 Row 0.12	0.5	0.2	0.1	72.8	80.7	118.0	93.4	15.49	19.08
	2 Row 0.22	1.0	0.6	1.0	81.2	104.0	150.3	141.3	22.03	30.00
900	1 Row 0.14	0.5	0.2	0.1	71.5	78.0	116.0	91.4	16.01	20.14
	2 Row 0.27	1.0	0.6	1.0	80.1	105.0	148.3	139.7	20.57	28.44
1000	1 Row 0.17	0.5	0.2	0.1	70.2	75.0	114.1	89.6	16.47	21.06
	2 Row 0.33	1.0	0.6	1.0	78.5	102.5	146.5	137.5	21.36	30.56
1100	1 Row 0.20	0.5	0.2	0.1	69.2	73.0	112.5	88.3	16.87	22.01
	2 Row 0.39	1.0	0.6	1.0	77.5	100.2	144.8	135.8	22.24	31.12
1200	1 Row 0.24	0.5	0.2	0.1	68.2	71.0	111.1	87.1	17.23	22.93
	2 Row 0.45	1.0	0.6	1.0	76.5	98.2	143.4	134.4	22.54	32.61
1300	1 Row 0.27	0.5	0.2	0.1	67.5	70.0	109.9	86.0	17.56	23.49
	2 Row 0.52	1.0	0.6	1.0	75.8	97.4	142.0	133.0	22.94	33.93
1400	1 Row 0.31	0.5	0.2	0.1	66.8	70.0	108.5	85.1	17.85	24.07
	2 Row 0.59	1.0	0.6	1.0	75.1	97.4	140.6	131.9	23.30	35.08

Above data is based on entering water temperature of 180° F and entering air temperature of 55° F. See hot water coil selection procedure for correction factors if entering temperatures vary from these.

Model SSD-WC Size 12

AIR VOLUME (CFM)	AIRPD (IN. W.G.)	FLOW RATE (GPM)	WATER PD (FT. W.G.)		LAT (DEGREES F)		LWT (DEGREES F)		CAPACITY (MBH)	
			1 ROW	2 ROW	1 ROW	2 ROW	1 ROW	2 ROW	1 ROW	2 ROW
400	1 Row 0.02	0.5	0.2	0.1	90.3	103.1	139.1	119.1	15.23	20.76
	2 Row 0.03	1.0	0.6	1.0	97.9	128.0	180.4	148.4	20.59	28.15
550	1 Row 0.03	0.5	0.2	0.1	82.7	93.3	141.1	99.1	16.48	22.72
	2 Row 0.05	1.0	0.6	1.0	91.4	117.2	182.7	142.1	21.86	30.46
700	1 Row 0.04	0.5	0.2	0.1	78.2	86.7	138.9	84.0	17.54	24.00
	2 Row 0.08	1.0	0.6	1.0	86.9	111.9	180.9	137.1	22.86	31.46
850	1 Row 0.06	0.5	0.2	0.1	75.3	82.1	137.8	80.4	18.57	24.80
	2 Row 0.12	1.0	0.6	1.0	84.1	106.2	179.5	135.1	23.88	32.60
1000	1 Row 0.08	0.5	0.2	0.1	73.8	78.7	136.4	77.7	19.40	25.69
	2 Row 0.15	1.0	0.6	1.0	82.6	107.7	178.4	132.8	24.55	33.45
1150	1 Row 0.10	0.5	0.2	0.1	71.2	76.0	135.7	75.7	20.08	26.08
	2 Row 0.20	1.0	0.6	1.0	80.0	103.0	177.7	130.8	25.00	33.59
1300	1 Row 0.13	0.5	0.2	0.1	69.7	73.9	134.6	74.0	20.66	26.50
	2 Row 0.25	1.0	0.6	1.0	78.5	99.8	175.0	128.0	25.61	34.04
1450	1 Row 0.16	0.5	0.2	0.1	68.5	72.2	133.6	72.7	21.15	26.83
	2 Row 0.30	1.0	0.6	1.0	77.3	97.2	174.4	127.1	26.00	35.30
1600	1 Row 0.19	0.5	0.2	0.1	67.5	70.7	132.2	71.6	21.58	27.11
	2 Row 0.36	1.0	0.6	1.0	76.3	95.9	173.2	125.9	26.33	35.82
1750	1 Row 0.22	0.5	0.2	0.1	66.6	69.5	131.5	70.6	21.96	27.34
	2 Row 0.42	1.0	0.6	1.0	75.4	92.9	172.2	124.4	26.58	36.14
1900	1 Row 0.25	0.5	0.2	0.1	65.9	68.4	130.4	69.8	22.29	27.55
	2 Row 0.48	1.0	0.6	1.0	74.7	90.8	171.0	123.1	26.83	37.38
2050	1 Row 0.29	0.5	0.2	0.1	65.2	67.5	129.6	69.1	22.59	27.72
	2 Row 0.55	1.0	0.6	1.0	74.1	89.1	170.1	121.9	27.07	38.14

Above data is based on entering water temperature of 180° F and entering air temperature of 55° F. See hot water coil selection procedure for correction factors if entering temperatures vary from these.

**Model SSD-WC Sizes 14**

AIR VOLUME (CFM)	AIR PD (IN. W.G.)	FLOW RATE (GPM)	WATER PD (FT. W.G.)		LAT (DEGREES F)		LWT (DEGREES F)		CAPACITY (MBH)	
			1 ROW	2 ROW	1 ROW	2 ROW	1 ROW	2 ROW		
500	1 Row 0.02	0.5	0.3	0.1	87.2	97.8	110.5	87.2	17.38	23.18
	2 Row 0.03	2.0	3.0	1.0	100.5	125.1	152.4	100.5	51.56	67.56
700	1 Row 0.03	0.5	0.3	0.3	79.8	88.1	105.1	79.8	18.72	25.04
	2 Row 0.06	2.0	3.0	1.0	87.7	115.0	152.2	87.7	51.37	67.56
900	1 Row 0.05	0.5	0.3	0.3	88.1	95.7	107.3	88.1	19.97	26.35
	2 Row 0.10	2.0	3.0	1.0	97.7	120.0	157.8	97.7	53.59	70.00
1100	1 Row 0.07	0.5	0.3	0.3	75.5	81.9	100.1	75.5	19.97	26.35
	2 Row 0.14	2.0	3.0	1.0	85.9	107.6	149.0	85.9	51.37	67.56
1300	1 Row 0.10	0.5	0.3	0.3	72.7	77.7	96.0	72.7	19.97	26.35
	2 Row 0.18	2.0	3.0	1.0	81.1	97.5	124.2	81.1	51.37	67.56
1500	1 Row 0.12	0.5	0.3	0.3	69.9	72.9	90.0	69.9	19.97	26.35
	2 Row 0.24	2.0	3.0	1.0	79.0	99.1	124.2	79.0	51.37	67.56
1700	1 Row 0.15	0.5	0.3	0.3	67.6	70.4	87.8	67.6	19.97	26.35
	2 Row 0.29	2.0	3.0	1.0	77.2	96.0	124.2	77.2	51.37	67.56
1900	1 Row 0.19	0.5	0.3	0.3	65.5	68.9	86.0	65.5	19.97	26.35
	2 Row 0.36	2.0	3.0	1.0	75.7	93.3	124.2	75.7	51.37	67.56
2100	1 Row 0.22	0.5	0.3	0.3	63.4	66.6	84.4	63.4	19.97	26.35
	2 Row 0.43	2.0	3.0	1.0	73.4	86.0	124.2	73.4	51.37	67.56
2300	1 Row 0.26	0.5	0.3	0.3	61.3	64.8	82.3	61.3	19.97	26.35
	2 Row 0.50	2.0	3.0	1.0	71.3	84.0	124.2	71.3	51.37	67.56
2500	1 Row 0.31	0.5	0.3	0.3	59.2	63.4	80.2	59.2	19.97	26.35
	2 Row 0.58	2.0	3.0	1.0	69.2	82.3	124.2	69.2	51.37	67.56
2700	1 Row 0.35	0.5	0.3	0.3	57.1	61.3	78.1	57.1	19.97	26.35
	2 Row 0.67	2.0	3.0	1.0	67.1	80.2	124.2	67.1	51.37	67.56

Above data is based on entering water temperature of 180° F and entering air temperature of 55° F. See hot water coil selection procedure for correction factors if entering temperatures vary from these.

**Model SSD-WC Size 16**

AIR VOLUME (CFM)	AIR PD (IN. W.G.)	FLOW RATE (GPM)	WATER PD (FT. W.G.)		LAT (DEGREES F)		LWT (DEGREES F)		CAPACITY (MBH)	
			1 ROW	2 ROW	1 ROW	2 ROW	1 ROW	2 ROW		
600	1 Row 0.02	0.5	0.3	0.3	85.5	94.2	101.0	79.3	19.74	25.41
	2 Row 0.03	2.0	3.0	1.0	94.2	120.6	152.4	94.2	51.37	67.56
800	1 Row 0.03	0.5	0.3	0.3	79.2	86.0	101.0	79.2	20.99	26.81
	2 Row 0.05	2.0	3.0	1.0	86.0	113.4	152.4	86.0	51.37	67.56
1000	1 Row 0.04	0.5	0.3	0.3	75.2	80.6	92.6	75.2	21.86	27.98
	2 Row 0.08	2.0	3.0	1.0	80.6	108.0	141.8	80.6	51.37	67.56
1200	1 Row 0.06	0.5	0.3	0.3	72.6	76.2	88.8	72.6	22.81	28.27
	2 Row 0.11	2.0	3.0	1.0	76.2	102.6	132.0	76.2	51.37	67.56
1400	1 Row 0.08	0.5	0.3	0.3	70.6	74.0	85.8	70.6	23.56	29.59
	2 Row 0.14	2.0	3.0	1.0	74.0	98.4	126.0	74.0	51.37	67.56
1600	1 Row 0.10	0.5	0.3	0.3	69.0	71.8	83.3	69.0	24.17	29.80
	2 Row 0.18	2.0	3.0	1.0	71.8	96.2	126.0	71.8	51.37	67.56
1800	1 Row 0.12	0.5	0.3	0.3	67.5	70.6	81.3	67.5	24.67	29.80
	2 Row 0.23	2.0	3.0	1.0	70.6	92.6	118.4	70.6	51.37	67.56
2000	1 Row 0.14	0.5	0.3	0.3	66.6	68.6	79.6	66.6	25.09	29.44
	2 Row 0.27	2.0	3.0	1.0	68.6	92.6	118.4	68.6	51.37	67.56
2200	1 Row 0.17	0.5	0.3	0.3	65.7	67.6	78.2	65.7	25.46	29.80
	2 Row 0.32	2.0	3.0	1.0	67.6	92.6	118.4	67.6	51.37	67.56
2400	1 Row 0.20	0.5	0.3	0.3	64.9	66.6	76.5	64.9	25.77	29.44
	2 Row 0.37	2.0	3.0	1.0	66.6	92.6	118.4	66.6	51.37	67.56
2600	1 Row 0.23	0.5	0.3	0.3	64.3	65.7	75.8	64.3	26.05	29.80
	2 Row 0.43	2.0	3.0	1.0	65.7	92.6	118.4	65.7	51.37	67.56
2800	1 Row 0.26	0.5	0.3	0.3	63.7	64.3	74.8	63.7	26.39	29.80
	2 Row 0.49	2.0	3.0	1.0	64.3	92.6	118.4	64.3	51.37	67.56

Above data is based on entering water temperature of 180° F and entering air temperature of 55° F. See hot water coil selection procedure for correction factors if entering temperatures vary from these.

**Model SSD-WC Size 18**

AIR VOLUME (CFM)	AIR PD (IN. W.G.)	FLOW RATE (GPM)	WATER PD (FT. W.G.)		LAT (DEGREES F)		LWT (DEGREES F)		CAPACITY (MBH)	
			1 ROW	2 ROW	1 ROW	2 ROW	1 ROW	2 ROW		
800	1 Row 0.02	0.5	0.4	0.1	81.2	87.3	68.4	68.5	22.66	27.87
	2 Row 0.04	2.0	1.3	87.3	102.0	123.6	123.7	30.96	36.45	42.93
1000	1 Row 0.03	0.5	0.4	76.8	81.5	65.0	65.1	23.49	28.66	34.83
	2 Row 0.06	2.0	1.3	81.5	115.0	140.7	140.8	30.33	36.56	42.79
1200	1 Row 0.04	0.5	0.4	73.7	77.5	63.3	63.4	24.17	29.17	34.17
	2 Row 0.07	2.0	1.3	87.3	105.4	136.1	136.2	31.14	37.47	43.80
1400	1 Row 0.05	0.5	0.4	71.5	74.5	60.3	60.4	24.92	29.83	34.74
	2 Row 0.10	2.0	1.3	84.7	101.8	129.7	129.8	31.89	38.22	44.55
1600	1 Row 0.06	0.5	0.4	69.8	72.6	57.9	58.0	25.52	30.43	35.34
	2 Row 0.12	2.0	1.3	82.5	104.6	132.5	132.6	32.46	38.79	45.12
1800	1 Row 0.08	0.5	0.4	68.4	70.4	56.0	56.1	26.01	30.91	35.82
	2 Row 0.15	2.0	1.3	80.6	99.3	127.4	127.5	33.02	39.37	45.73
2000	1 Row 0.10	0.5	0.4	67.3	69.0	54.3	54.4	26.41	31.31	36.22
	2 Row 0.18	2.0	1.3	79.0	98.9	126.1	126.2	33.42	39.88	46.24
2200	1 Row 0.11	0.5	0.4	66.3	67.7	53.0	53.1	26.79	31.70	36.61
	2 Row 0.22	2.0	1.3	77.6	97.7	124.9	125.0	33.83	40.45	46.80
2400	1 Row 0.13	0.5	0.4	65.4	66.7	51.8	51.9	27.06	32.09	37.00
	2 Row 0.25	2.0	1.3	76.4	96.7	123.8	123.9	34.22	41.02	47.33
2600	1 Row 0.15	0.5	0.4	64.7	65.8	50.7	50.8	27.32	32.48	37.39
	2 Row 0.29	2.0	1.3	75.3	95.8	122.7	122.8	34.59	41.59	47.90
2800	1 Row 0.17	0.5	0.4	64.1	65.1	49.9	50.0	27.54	32.87	37.78
	2 Row 0.33	2.0	1.3	74.4	94.9	121.4	121.5	34.96	42.10	48.41
3000	1 Row 0.20	0.5	0.4	63.6	64.4	49.0	49.1	27.74	33.26	38.17
	2 Row 0.38	2.0	1.3	73.6	93.7	120.3	120.4	35.33	42.61	48.96

**Model SSD-WC Sizes 20 & 24**

AIR VOLUME (CFM)	AIR PD (IN. W.G.)	FLOW RATE (GPM)	WATER PD (FT. W.G.)		LAT (DEGREES F)		LWT (DEGREES F)		CAPACITY (MBH)	
			1 ROW	2 ROW	1 ROW	2 ROW	1 ROW	2 ROW		
1250	1 Row 0.03	0.5	0.5	0.1	73.9	77.1	62.3	62.4	25.45	30.79
	2 Row 0.06	2.0	1.6	89.0	107.6	126.3	126.4	32.31	38.63	44.95
1500	1 Row 0.04	0.5	0.5	71.1	73.9	59.5	59.6	26.15	31.52	36.89
	2 Row 0.08	2.0	1.6	86.3	102.0	121.8	121.9	33.01	39.83	46.15
1750	1 Row 0.06	0.5	0.5	69.2	71.1	56.6	56.7	26.78	32.35	37.72
	2 Row 0.11	2.0	1.6	85.6	104.6	119.6	119.7	33.57	40.38	46.74
2000	1 Row 0.07	0.5	0.5	67.6	69.1	54.9	55.0	27.28	33.19	38.58
	2 Row 0.14	2.0	1.6	83.9	103.9	117.3	117.4	34.06	40.91	47.27
2250	1 Row 0.09	0.5	0.5	66.4	67.6	53.2	53.3	27.68	34.02	39.47
	2 Row 0.17	2.0	1.6	81.5	104.7	115.8	115.9	34.54	41.44	47.93
2500	1 Row 0.11	0.5	0.5	65.4	66.4	52.1	52.2	28.00	34.87	40.36
	2 Row 0.20	2.0	1.6	80.8	101.9	113.3	113.4	35.02	41.96	48.40
2750	1 Row 0.13	0.5	0.5	64.5	65.4	51.0	51.1	28.28	35.70	41.25
	2 Row 0.24	2.0	1.6	79.5	99.2	111.3	111.4	35.50	42.43	48.89
3000	1 Row 0.15	0.5	0.5	63.8	64.5	49.9	50.0	28.51	36.52	42.14
	2 Row 0.28	2.0	1.6	78.8	97.2	109.3	109.4	35.92	42.90	49.37
3250	1 Row 0.17	0.5	0.5	63.2	63.2	48.8	48.9	28.71	37.35	43.03
	2 Row 0.32	2.0	1.6	77.8	95.3	107.7	107.8	36.33	43.37	49.84
3500	1 Row 0.19	0.5	0.5	62.6	62.6	47.7	47.8	28.88	38.18	43.92
	2 Row 0.37	2.0	1.6	76.9	93.5	106.0	106.1	36.74	43.80	50.75
3750	1 Row 0.22	0.5	0.5	62.2	62.2	46.6	46.7	29.03	39.01	44.81
	2 Row 0.42	2.0	1.6	76.4	91.8	104.4	104.5	37.15	44.22	51.66
4000	1 Row 0.25	0.5	0.5	61.7	61.7	45.5	45.6	29.16	39.84	45.70
	2 Row 0.47	2.0	1.6	75.6	89.4	102.7	102.8	37.56	44.63	52.51

Above data is based on entering water temperature of 180° F and entering air temperature of 55° F. See hot water coil selection procedure for correction factors if entering temperatures vary from these.

Above data is based on entering water temperature of 180° F and entering air temperature of 55° F. See hot water coil selection procedure for correction factors if entering temperatures vary from these.

## MODEL SSD-EH-II

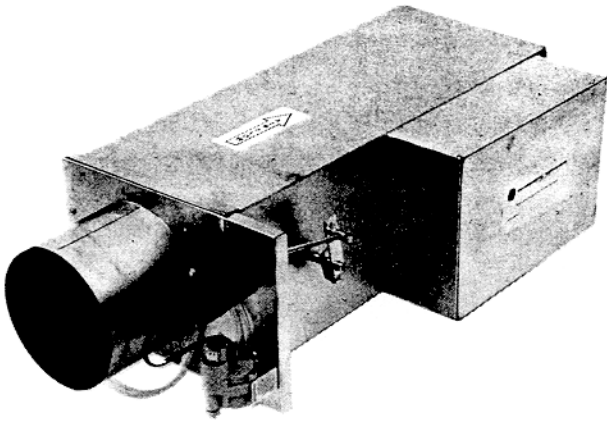
### DESCRIPTION

Model SSD-EH-II Terminals are designed for use in low, medium or high pressure variable volume, single duct systems requiring electric reheating or terminal heating of the primary supply air. The SSD-EH-II's many control sequences represent the broadest range of standard control options in the industry, providing infinite design flexibility to meet any system requirement.

The Model SSD-EH-II throttling Terminal incorporates a single damper blade, which operates through a 45° arc, providing throttling capability in all damper positions — a feature not possible with 90° arc single or multi-blade dampers used in competitive equipment.

Model SSD-EH-II standard electric heaters are UL approved construction, including all optional control components. A wide range of accessories are available to satisfy virtually all applications requiring an electric heat source.

Simplified heater selection and performance charts have been computer calculated to provide an optimum match range for all Terminal sizes. This optimum match insures the best possible operating efficiency and safety.



### CONSTRUCTION

Model SSD-EH-II Terminals are manufactured of zinc-coated steel: 24-gauge casing, 16-gauge damper and 20-gauge damper seat. (Heavier casing gauges are available at extra cost.) Assembly of the casing is by means of a mechanical lock, insuring the tightest possible construction; maximum air leakage — 2% at 3" water gauge.

The basic Terminal is 30" in length (including Heater) and 10" in height. All units may be provided with round, oval or rectangular inlet and outlet collars. Round or oval inlets and slip-and-drive outlets are standard, unless otherwise specified. Pressure-independent units are furnished with an inlet Averaging Sensor which may be removed without disconnecting the inlet duct or flex. All other control components are accessible outside of the Terminal casing.

All SSD-EH-II casings are internally lined with 1/2", 4# dual

density, coated fiberglass, complying with N.F.P.A. 90-A and U.L. 181. No raw edges are exposed to the air stream. Special insulation coatings are available for clean-room, hospital and laboratory applications.

Electric heaters are all UL approved construction, with 24-gauge zinc-coated heater plenum casing. Heaters include as standard primary disc-type automatic-reset high temperature limit switch, a secondary high-limit with replaceable fusible links, and air flow switch (minimum 0.05" Pv), terminal connections for power and low voltage source and enclosed control panel. Heater elements are high-grade 80/20 resistance wire (open coil type). Standard Heater wire density is 45 watts per square inch. Units are also available with 35 and 24 watts per square inch density at extra cost.

### PERFORMANCE

Model SSD-EH-II units are available as system pressure-independent or system pressure-dependent. The space thermostat controls the SSD-EH-II in either case, providing desired temperature by varying the air volume to the space served. Pressure-independent models are equipped with minimum/maximum air volume dials for rapid field setting; set points are maintained regardless of system pressure fluctuations. Pressure-dependent models operate only in

response to the room thermostat demand, and may fluctuate through their range as the system pressure changes. Pressure dependent models are not recommended for large systems.

SSD-EH-II units will operate efficiently at pressures from as low as .03"ΔP (pneumatic) and .015"ΔP (electronic).

Consult electric reheat chart, page 19, for heater performance.

### SELECTION

Model SSD-EH-II units should be selected in the mid to upper-mid range of the performance table (CFM) to insure maximum operating efficiency. Published performance values have been established by actual test with the max (CFM) set for the rated value. The recommended selection range will produce the quietest possible system.

When selecting Heater capacities (KW) from the Perform-

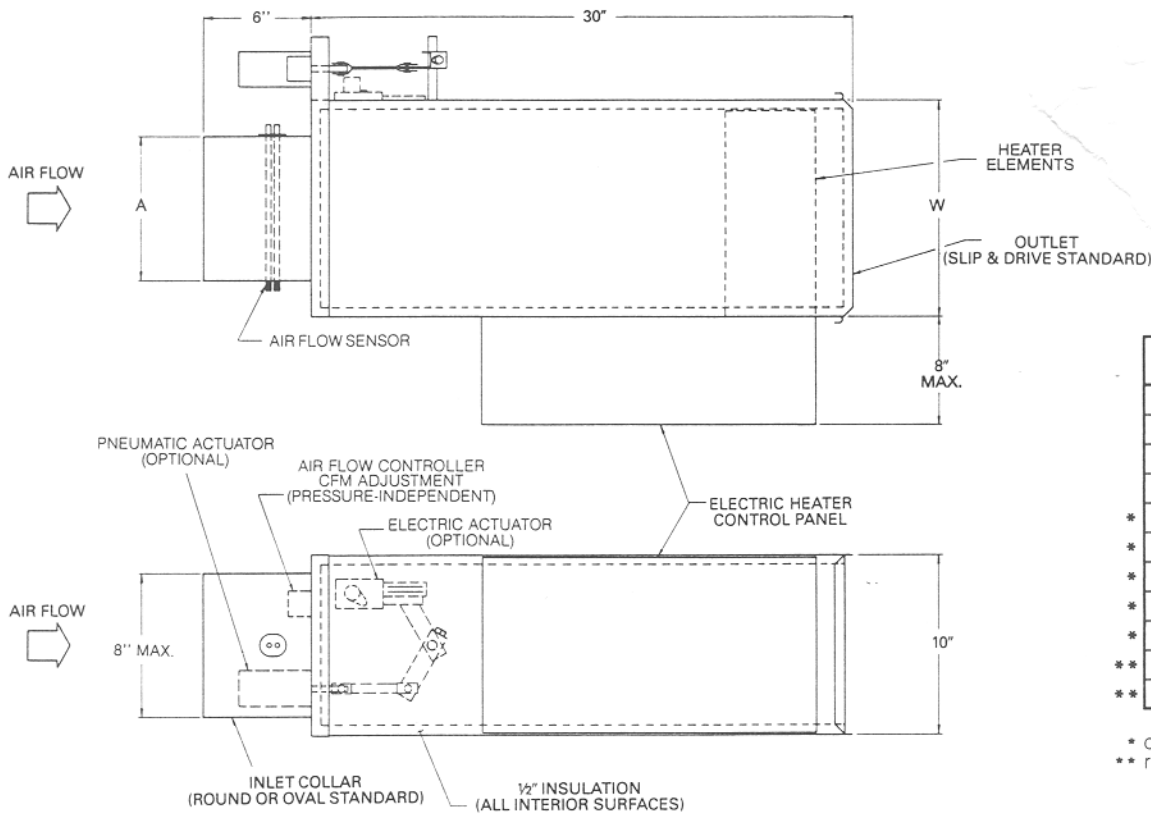
ance data table on page 18 or Electric Reheat Chart on page 19, it should be noted that any selection below 70 CFM per KW does require derated elements. An absolute minimum ratio of 50 CFM per KW should be maintained even with derated elements. Following this rule will reduce hazards and increase the life of the equipment.

**Testing** — all ENVIRO-TEC<sup>TM</sup> Terminals are tested and rated in accordance with ADC, ARI and ASHRAE standards as applicable.

**CONTROLS**

Terminals are available with pneumatic or electronic controls. Control sequence descriptions and reproducible schematics are shown in Control Sequence Guide CSP 187 (pneumatic) and CSE 287 (electronic).

**DIMENSIONS**



Unit Size	W Dim.	A Dim.
4	8"	4"
5	8"	5"
6	8"	6"
8	12"	8"
* 10	14"	11"
* 12	18"	14 1/8"
* 14	22"	17 1/4"
* 16	26"	20 3/8"
* 18	32"	23 9/16"
** 20	40"	26 3/8"
** 24	40"	33"

\* oval inlet  
\*\* rectangular inlet

**PERFORMANCE DATA**

Terminal Size	CFM	Min. ΔPt	Room Noise Criterion (NC)							
			Min. ΔPs		Min. ΔPs + 0.75"		Min. ΔPs + 1.5"		Min. ΔPs + 3.0"	
			Disch.	Rad.	Disch.	Rad.	Disch.	Rad.	Disch.	Rad.
4	100	.11	—	—	—	—	22	—	26	—
	150	.22	—	—	—	28	—	31	24	
	200	.38	20	—	30	—	35	21	38	27
5	175	.09	—	—	—	—	25	—	33	—
	265	.21	—	—	21	—	30	—	35	20
	350	.34	—	—	24	—	33	—	39	25
6	250	.10	—	—	—	—	24	—	30	20
	375	.22	—	—	20	—	27	—	34	24
	500	.38	—	—	21	—	30	23	36	28
8	500	.08	—	—	—	—	26	—	33	23
	750	.18	—	—	21	—	29	20	35	25
	1000	.30	—	—	24	—	31	23	36	28
10	750	.10	—	—	—	—	25	—	32	22
	1125	.22	—	—	21	—	27	21	34	25
	1500	.39	—	—	26	20	30	25	35	29
12	1000	.10	—	—	—	—	28	—	34	22
	1500	.20	—	—	23	—	31	20	36	25
	2000	.33	20	—	31	20	33	24	38	30
14	1250	.08	—	—	—	—	26	—	33	26
	1875	.15	—	—	28	—	32	23	38	27
	2500	.25	20	—	30	24	34	27	40	31
16	1600	.08	—	—	21	—	28	—	35	26
	2400	.16	—	—	25	20	30	24	37	31
	3200	.29	—	—	28	26	35	29	38	35
18	1900	.06	—	—	24	—	32	24	36	30
	2850	.13	20	—	28	22	34	29	38	35
	3800	.22	27	—	30	27	36	33	41	37
20	2300	.10	—	—	25	—	30	21	35	26
	3450	.21	—	—	26	20	33	26	35	31
	4600	.39	21	—	29	25	35	31	41	34
24	2900	.10	—	—	26	—	32	24	38	29
	4350	.20	20	—	29	23	34	30	40	34
	5800	.38	25	22	31	30	36	35	45	40

**STANDARD FEATURES**

- Electric Heater (EH) includes:**
- 24-gauge zinc-coated steel construction
  - Primary disc-type automatic-reset high temperature limit switch
  - Secondary high-limit with replaceable fusible links
  - Air flow switch (minimum .05" Pv)
  - Terminal connections for power and low voltage source
  - Enclosed control panel
  - 80/20 nickel chrome elements
  - 45 watts per square inch wire density
  - UL label

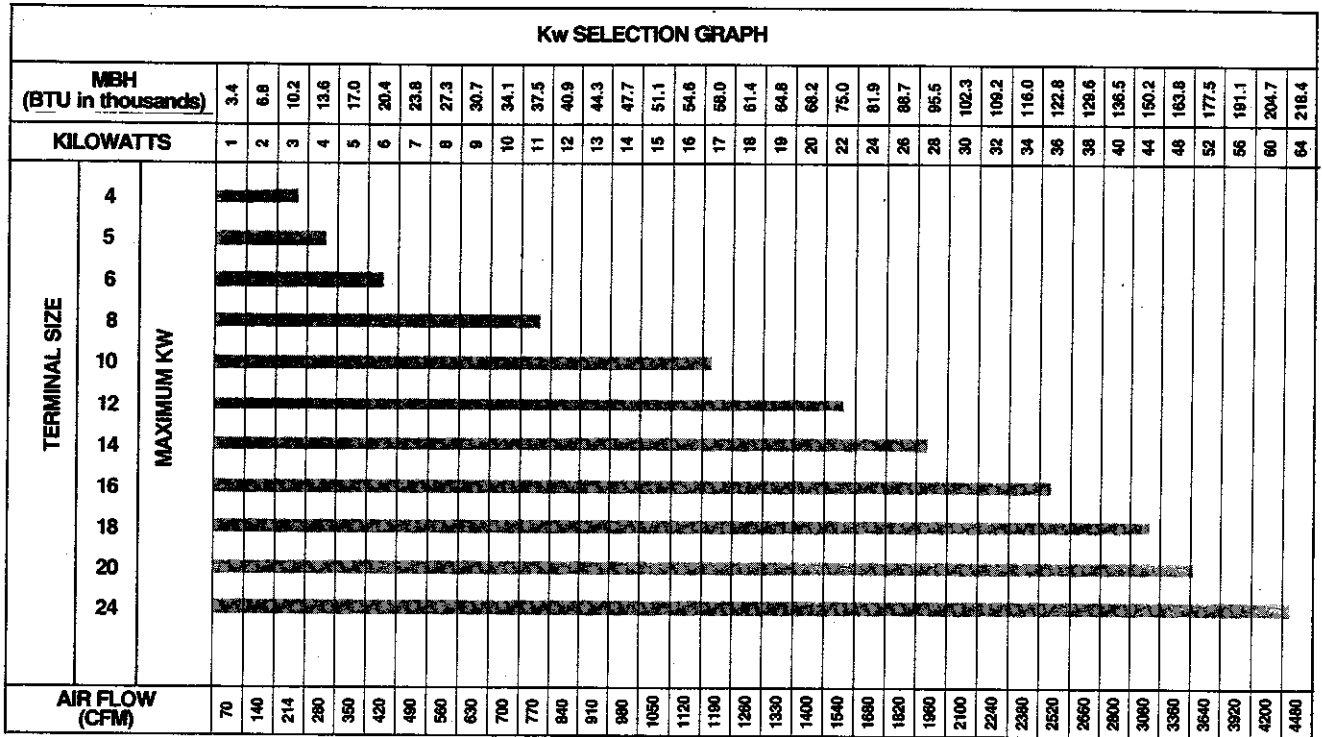
Performance data is based on tests conducted in accordance with Industry Standard 880.

ΔPt is the total pressure difference between the terminal inlet and discharge. This value does not include pressure losses downstream of the terminal unit.

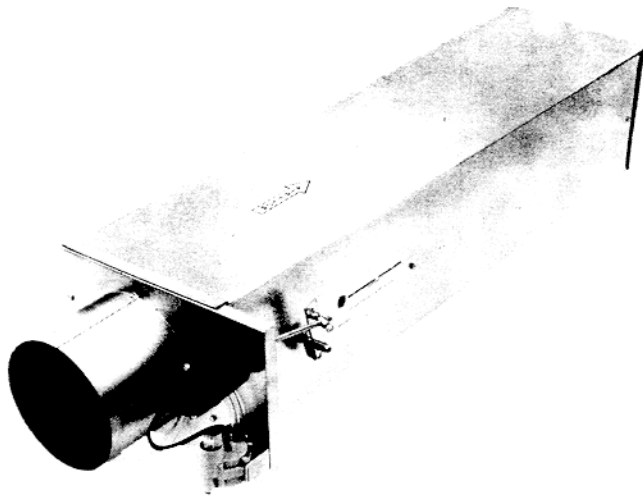
Discharge NC levels are based on 10dB room attenuation, five feet of lined duct downstream, and a maximum of 300 CFM per diffuser. Refer to page 8 for sound power correction factors if system conditions vary greatly from these assumptions. Radiated NC levels are based on 10dB room absorption and ceiling sound transmission class 35-39.

Blank space (—) indicates NC level less than 20.





## MODEL SSD-SA-II



### DESCRIPTION

Model SSD-SA-II Terminals are designed for use in low, medium or high pressure, variable air volume, single duct systems. The SSD-SA-II's many control sequences represent the broadest range of standard control options in the industry, providing infinite design flexibility to meet any system requirement.

The Model SSD-SA-II throttling-type Terminal incorporates a single damper blade, which operates through a 45° arc, providing throttling capability in all damper positions — a feature not possible with 90° arc single or multi-blade dampers used in competitive equipment.

The Model SSD-SA-II includes a sound attenuation section for applications requiring extremely low sound levels in the space served.

The Model SSD-SA-II is also available with an optional hot water coil or electric heater. For details, refer to Model SSD-WC-II or Model SSD-EH-II.

### CONSTRUCTION

Model SSD-SA-II Terminals are manufactured of zinc-coated steel: 24-gauge casing, 16-gauge damper and 20-gauge damper seat. (Heavier casing gauges are available at extra cost.) Assembly of the casing is by means of a mechanical lock, insuring the tightest possible construction: maximum air leakage — 2% at 3" water gauge.

The basic Terminal is 47" in length and 10" in height. Units may be provided with round, oval, or rectangular inlet and outlet collars. Round or oval inlets and slip-and-drive outlets are standard.

Pressure independent units are furnished with an inlet mounted sensor which may be removed without disconnecting the inlet duct or flex. All other control components are accessible outside of the Terminal casing.

All SSD-SA-II casings are internally lined with ½" thick, 4# dual density, coated fiberglass, complying with N.F.P.A. 90-A. No raw edges are exposed to the air stream. Special insulation coatings are available for clean-room, hospital and laboratory applications.

### PERFORMANCE

Model SSD-SA-II units are available as system pressure-independent or system-pressure dependent. The thermostat controls the SSD-SA-II in either case, providing desired temperature by varying the air volume to the space served. Pressure independent models are equipped with minimum/maximum air volume dials for rapid field setting; set points are maintained, regardless of system pressure fluctuations.

Pressure-dependent models operate only in response to the room thermostat demand, and may fluctuate through their range as the system pressure changes. Pressure-dependent models are not recommended for large systems.

SSD-SA-II units will operate efficiently at pressures from as low as .03" ΔP (pneumatic) and .015" ΔP (electronic).

**INLET EFFECT** — All SSD models are tested with straight inlet connection. If installed with other than straight connection, a shift in the set point may result. Units include an averaging probe to assist in overcoming poor inlet effect, however the controller may require field trim adjustment.

### SELECTION

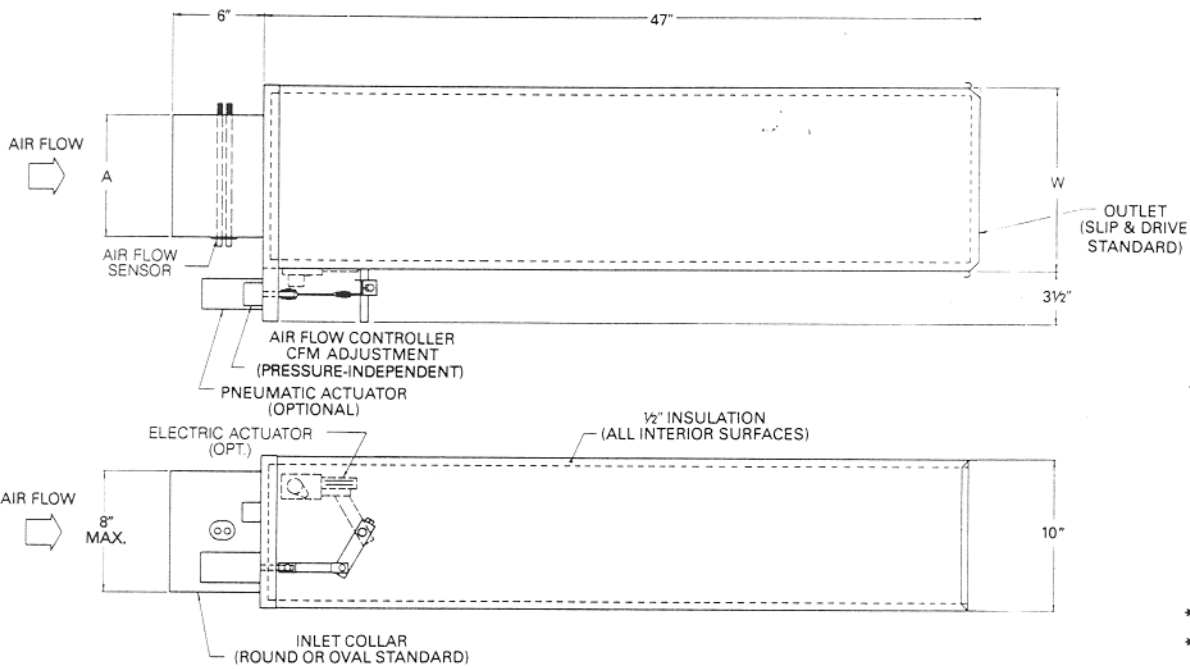
Model SSD-SA-II should be selected in the mid to upper-mid-range of the performance table (CFM) to insure maximum operating efficiency. Published performance values

have been established by actual test with the max (CFM) set for the rated value. The recommended selection range will produce the quietest possible system.

**Testing** — all ENVIRO-TEC™ Terminals are tested and rated in accordance with ADC, ARI and ASHRAE standards as applicable.

### CONTROLS

Terminals are available with pneumatic or electronic controls. Control sequence descriptions and reproducible schematics are shown in Control Sequence Guide CSP 187 (pneumatic) and CSE 287 (electronic).



Unit Size	W Dim.	A Dim.
4	8"	4"
5	8"	5"
6	8"	6"
8	12"	8"
* 10	14"	11"
* 12	18"	14 <sup>1</sup> / <sub>8</sub> "
* 14	22"	17 <sup>1</sup> / <sub>4</sub> "
* 16	26"	20 <sup>3</sup> / <sub>8</sub> "
* 18	32"	23 <sup>9</sup> / <sub>16</sub> "
** 20	40"	26 <sup>3</sup> / <sub>8</sub> "
** 24	40"	33"

\* oval inlet  
 \*\* rectangular inlet

**PERFORMANCE DATA**

Model SSD-SA-II										
Terminal Size	CFM	Min. ΔPt	Room Noise Criterion (NC)							
			Min. ΔPs		Min. ΔPs + 0.75"		Min. ΔPs + 1.5"		Min. ΔPs + 3.0"	
			Disch.	Rad.	Disch.	Rad.	Disch.	Rad.	Disch.	Rad.
4	100	.11	—	—	—	—	—	—	25	—
	150	.22	—	—	—	—	25	—	30	23
	200	.38	—	—	26	—	31	21	35	27
5	175	.09	—	—	—	—	23	—	31	—
	265	.21	—	—	20	—	27	—	33	20
	350	.34	—	—	22	—	31	—	37	23
6	250	.10	—	—	—	—	22	—	28	—
	375	.22	—	—	—	—	25	—	33	20
	500	.38	—	—	20	20	27	23	37	29
8	500	.08	—	—	—	—	23	—	33	23
	750	.18	—	—	20	—	27	20	34	25
	1000	.30	—	—	22	—	29	23	36	29
10	750	.10	—	—	—	—	23	—	30	22
	1125	.22	—	—	20	—	24	21	32	25
	1500	.39	—	—	24	24	26	26	33	29
12	1000	.10	—	—	—	—	25	—	32	22
	1500	.20	—	—	21	—	29	21	35	25
	2000	.33	—	—	26	22	31	26	36	31
14	1250	.08	—	—	—	—	24	—	31	26
	1875	.15	—	—	25	20	30	24	35	28
	2500	.25	—	—	27	24	32	30	38	33
16	1600	.08	—	—	20	—	25	—	32	26
	2400	.16	—	—	23	23	27	25	34	32
	3200	.29	—	—	25	26	30	31	36	38
18	1900	.06	—	—	21	21	30	28	34	32
	2850	.13	—	—	25	24	32	31	35	36
	3800	.22	20	20	27	28	34	34	38	41
20	2300	.10	—	—	21	—	25	21	33	28
	3450	.21	—	—	23	21	30	26	35	33
	4600	.39	—	—	24	25	32	31	39	36
24	2900	.10	—	—	23	20	30	24	36	30
	4350	.20	—	—	25	25	32	31	39	36
	5800	.38	23	21	30	31	35	36	41	45

Performance data is based on tests conducted in accordance with Industry Standard 880.  
 ΔPt is the total pressure difference between the terminal inlet and discharge. This value does not include pressure losses downstream of the terminal unit.  
 Discharge NC levels are based on 10dB room attenuation, five feet of lined duct downstream, and a maximum of 300 CFM per diffuser. Refer to page 8 for sound power correction factors if system conditions vary greatly from these assumptions.  
 Radiated NC levels are based on 10dB room absorption and ceiling sound transmission class 35-39.

Blank space (—) indicates NC level less than 20.

# PERFORMANCE DATA

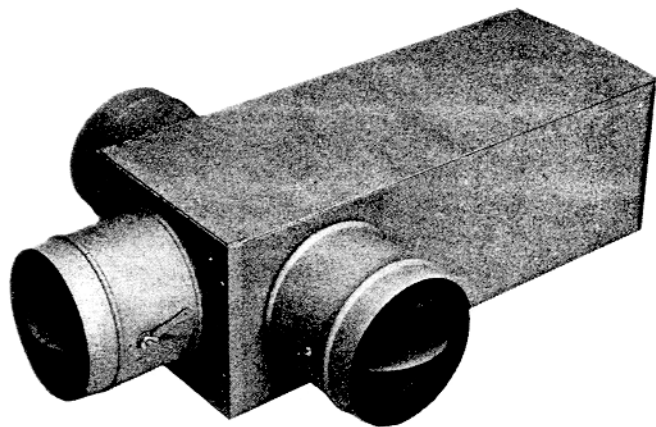
**Table 1-E Model SSD-SA II Discharge Sound Power Levels dB re: 1 pW**

Terminal Size	CFM	OCTAVE BAND NUMBERS																											
		Min. ΔPs							Min. ΔPs+0.75"							Min. ΔPs+1.5"							Min. ΔPs+3.0"						
		2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7				
4	100	41	41	36	21	21	21	48	48	44	30	31	28	52	55	46	34	34	32	54	59	48	42	43	40				
	150	47	48	40	25	25	24	50	52	47	33	34	31	57	60	50	38	37	35	60	63	54	44	41	41				
	200	52	52	44	28	28	26	59	60	51	37	37	33	64	65	56	43	42	40	66	69	59	44	45	43				
5	175	40	40	36	21	21	22	46	47	44	30	31	29	52	58	53	39	37	36	56	64	61	58	44	42				
	265	44	45	41	26	26	25	52	55	45	35	35	33	58	61	55	41	40	38	60	67	63	50	47	46				
	350	48	48	43	29	28	26	55	57	52	38	37	34	60	64	58	44	43	40	64	70	65	52	51	48				
6	250	39	39	35	20	20	21	45	47	41	27	28	27	51	57	51	38	37	35	55	62	61	45	44	44				
	375	43	43	40	25	25	24	51	55	47	29	32	31	55	61	56	40	39	37	60	67	64	50	48	46				
	500	47	47	42	28	27	25	54	57	49	35	35	25	59	63	57	42	41	39	64	70	66	52	50	47				
8	500	42	42	37	23	23	22	44	47	43	31	33	30	54	58	54	42	40	37	61	65	64	52	49	46				
	750	46	47	43	29	29	26	56	55	50	36	36	33	62	62	58	44	42	39	65	68	64	53	50	46				
	1000	50	50	47	37	31	29	60	60	55	41	39	36	65	65	61	46	45	42	70	73	66	54	52	48				
10	750	42	42	39	26	26	24	48	49	47	32	33	31	54	59	56	41	40	38	62	64	63	51	48	46				
	1125	49	48	45	29	28	29	58	57	53	38	38	36	62	62	59	44	43	41	67	68	65	51	50	48				
	1500	52	51	51	39	36	32	63	61	57	42	42	39	65	65	62	47	46	44	69	70	66	53	52	49				
12	1000	43	43	37	25	25	23	53	51	49	33	34	30	59	62	58	43	41	38	64	67	65	52	50	46				
	1500	52	49	42	30	28	29	61	58	55	39	38	36	65	65	61	46	45	41	68	71	68	54	53	48				
	2000	58	56	52	40	37	33	67	64	59	44	42	39	68	68	64	48	46	43	72	73	70	55	53	49				
14	1250	45	43	34	22	23	23	55	54	50	34	36	33	62	61	58	44	42	41	65	66	63	51	49	47				
	1875	53	52	46	34	31	27	65	61	56	40	39	36	67	66	62	47	46	44	71	68	67	54	52	50				
	2500	59	55	55	43	39	37	68	66	61	46	44	42	70	70	66	50	49	46	74	76	70	56	54	52				
16	1600	45	44	34	22	24	25	60	57	53	47	37	38	64	63	61	45	42	40	67	68	66	53	50	47				
	2400	52	49	46	36	33	28	65	62	58	42	40	38	67	67	63	47	46	43	72	72	69	56	53	49				
	3200	61	59	56	44	39	37	68	67	62	48	44	42	70	71	67	50	49	45	74	76	71	57	55	52				
18	1900	47	47	40	24	25	26	62	60	54	38	38	37	67	66	62	46	45	43	70	71	68	55	53	51				
	2850	58	52	54	40	36	36	67	63	59	43	42	39	70	70	67	50	49	45	73	73	70	53	51	51				
	3800	64	62	63	48	42	45	70	68	63	49	46	43	73	74	71	53	52	47	75	79	72	58	58	57				
20	2300	45	47	42	38	25	26	60	59	59	41	38	37	66	65	63	49	45	41	71	71	68	54	57	51				
	3450	60	53	48	34	34	36	66	62	61	46	42	39	68	69	66	53	49	43	74	74	70	56	53	54				
	4600	65	63	59	48	40	42	69	67	65	52	46	43	72	73	71	56	52	45	76	80	72	57	60	57				
24	2900	53	51	42	38	25	24	64	62	60	41	40	35	70	68	64	52	46	42	74	74	70	56	57	55				
	4350	63	56	49	34	36	36	69	65	62	46	44	39	72	72	69	56	50	44	76	77	72	57	60	57				
	5800	68	66	60	44	42	42	72	70	66	52	48	43	75	76	72	59	53	46	78	82	74	60	61	59				

**Table 1-F Model SSD-SA II Radiated Sound Power Levels dB re: 1 pW**

Terminal Size	CFM	OCTAVE BAND NUMBERS																											
		Min. ΔPs							Min. ΔPs+0.75"							Min. ΔPs+1.5"							Min. ΔPs+3.0"						
		2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7				
4	100	43	37	30	26	20	—	52	45	41	37	30	26	55	48	44	41	34	32	57	53	52	49	42	38				
	150	49	42	36	33	26	23	55	51	46	41	34	30	61	55	51	46	37	35	64	58	56	52	44	40				
	200	54	45	40	38	30	28	—	60	55	50	43	37	33	64	57	54	47	40	38	68	63	60	57	46	41			
5	175	43	33	26	23	18	—	49	42	39	34	28	24	54	47	43	41	31	31	56	51	48	49	40	40				
	265	47	36	30	30	26	23	54	46	44	37	32	30	58	53	49	44	34	32	62	56	53	53	43	41				
	350	52	40	36	34	31	27	56	51	46	39	35	32	60	54	51	45	38	37	66	61	58	56	45	41				
6	250	46	36	32	28	24	25	55	44	42	33	29	27	57	48	47	41	36	33	59	54	53	49	43	41				
	375	50	41	36	32	27	26	60	51	45	39	33	30	63	56	52	46	39	35	66	58	57	52	45	42				
	500	55	47	42	37	31	28	64	57	52	43	37	31	66	59	56	48	41	35	67	63	61	55	48	42				
8	500	45	37	30	28	23	21	55	45	40	38	33	29	57	52	49	44	37	32	61	56	56	52	44	39				
	750	49	40	34	33	28	25	57	49	45	40	34	31	60	56	53	48	39	34	64	59	58	54	45	39				
	1000	54	45	41	39	35	31	62	56	51	45	38	32	65	59	56	51	42	35	67	63	61	56	47	40				
10	750	45	37	30	28	23	21	57	49	42	37	32	28	60	53	49	44	38	34	63	58	55	50	45	44				
	1125	52	42	36	31	25	22	62	54	48	41	33	31	66	58	54	47	40	36	68	63	58	53	47	44				
	1500	61	50	44	35	29	25	68	60	54	45	37	33	70	62	58	51	42	38	72	66	61	55	48	44				
12	1000	44	36	31	27	23	22	56	48	43	36	32	29	59	52	48	42	36	33	64	57	55	51	43	39				
	1500	51	42	36	31	27	23	63	53	49	40	33	32	66	59	54	47	41	40	69	62	58	54	45	42				
	2000	59	48	44	35	31	27	66	58	54	45	39	35	70	62	57	49	42	41	73	66	62	56	47	42				
14	1250	46	37	33	30	24	23	59	51	43	39	32	32	62	58	51	47	38	36	67	64	59	54	44	44				
	1875	54	43	40	34	28	25	64	56	51	45	37	32	68	62	56	51	41	38	71	66	60	56	46	44				
	2500	61	49	47	38	32	28	68	62	57	49	38	33	72	65	60	53	43	43	75	68	63	59	48	45				
16	1600	44	35	31	29	24	23	56	49	41	38	34	33	63	58	52	48	41	40	67	63	59	56	45	43				
	2400	53	45	41	36	29	28	67	60	53	48	41	41	69	63	57	52	43	43	74	69	63	58	48	45				
	3200	63	55	51	43	33	32	70	64	59	52	44	44	73	66	61	54	45	44	80	73	66	61	50	47				
18	1900	47	39	35	31	24	23	66	56	50	41	34	33	71	63	56	46	36	33	73	69	62	53	44	39				
	2850	54	46	41	36	29	28	68	61	55	47	38	37	74	67	61	49	44	43	78	72	67	57	48	44				
	3800	64	56	52	44	34	34	71	65	60	53	44	43	76	70	65	55	46	45	82	75	69	63	52	49				
20	2300	50	42	37	34	28	25	62	53	48	43	34	34	65	60	54	49	39	36	69	64	59	54	48	44				
	3450	56	48	44	40	32	30	66	58	53	43	40	38	69	64	58	53	44	41	74	69	63	58	52	49				
	4600	62	54	50	45	35	35	69	63	58	54	45	44																

**MODEL MOP**



**DESCRIPTION**

The Model MOP Multioutlet Plenum is for applications requiring connection to more than one air diffuser in close proximity to the Air Terminal unit and is available for use with all single duct air terminals, i.e. Models SSD-II, SSD-WC-II, SSD-EH-II, BT-II, BT-WC-II and BT-EH-II.

The Model MOP can save substantial field duct fabrication costs in most applications. An optional balancing damper can be furnished in each outlet, eliminating the requirement of a damper at the air diffuser and providing for a much quieter air distribution system.

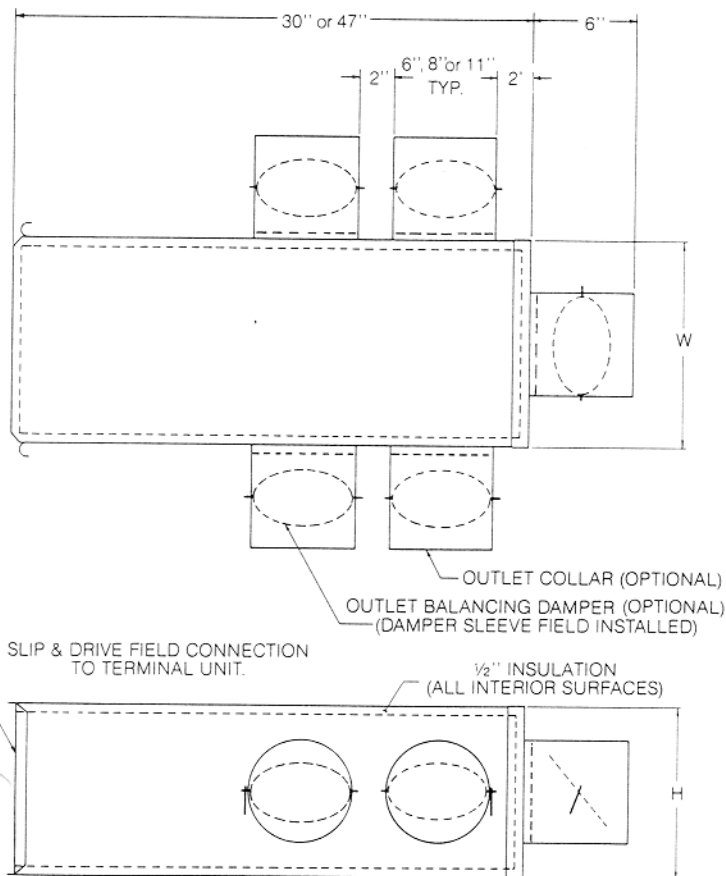
**CONSTRUCTION**

The MOP Multioutlet Plenum is manufactured of 24-gauge zinc-coated steel. (Heavier gauges are available upon request.) The MOP casing is assembled by means of a mechanical lock seam pre-filled with duct sealer, thus insuring the tightest possible construction.

The MOP is 30" or 47" in length (depending on the number of outlets required) and 10" or 12½" high (depending on Terminal model). All units are provided with a round or oval outlet connecting collar and if specified, a single blade trim damper for air balancing.

All MOP Multioutlet Plenums are internally lined with ½" thick, 4# dual density coated fiberglass, complying with N.F.P.A. 90A and U.L. 181. No raw edges are exposed to the air stream. Special insulation coatings are available for clean-rooms, hospitals and laboratory applications.

MOP Multioutlet Plenums are normally shipped separate from the Terminal unit for field attachment by means of a slip and drive connection. They may, however, be factory assembled if so requested.



COLLAR SIZE	MAXIMUM COLLARS	TERMINAL SIZE							
		4,5,6	8	10	12	14	16	18	20,24
6" ROUND	PER END	1	1	1	2	2	3	4	5
	PER SIDE	30"/47"	3/5	3/5	3/5	3/5	3/5	3/5	3/5
	PER UNIT	30"/47"	7/11	7/11	7/11	8/12	8/12	9/13	10/14
8" ROUND	PER END	—	1	1	1	2	2	3	4
	PER SIDE	30"/47"	2/4	2/4	2/4	2/4	2/4	2/4	2/4
	PER UNIT	30"/47"	4/8	5/9	5/9	5/9	8/10	8/10	7/11
10" OVAL	PER END	—	—	1	1	1	2	2	3
	PER SIDE	30"/47"	2/3	2/3	2/3	2/3	2/3	2/3	2/3
	PER UNIT	30"/47"	4/6	4/6	5/7	5/7	5/7	6/8	6/8

	Terminal Size	4,5,6	8	10	12	14	16	18	20	24
W	SSD-MOP, SSD-EH-MOP, BT-MOP, BT-EH-MOP	8"	12"	14"	18"	22"	26"	32"	40"	40"
	SSD-WC-MOP	12"		18"	22"	26"	32"	40"	40"	40"
	BT-WC-MOP	8"	12"	14"	18"	22"	26"	—	—	—
H	SSD-MOP, SSD-EH-MOP, BT-MOP, BT-EH-MOP	10"								
	SSD-WC-MOP, BT-WC-MOP	10"			12½"					