
SINGLE DUCT TERMINAL UNITS

Direct Digital Control, Pressure Independent

FEATURES

22 Gauge Galvanized Steel Casing Construction with a 20 Gauge Casing Option that Provides Strength and Product Durability

1. Suitable for Low, Medium, or High Pressure Applications; Able to Operate Throughout a Wide Range of HVAC Systems
2. Available 150 mm x 225 mm Access Opening for Easy Accessibility During Routine Inspections and Maintenance
3. Several Casing Liner Options Provide Quiet and Clean Operation
4. Airflow Capacities from 19 to 3304 L/S Providing Airflow Control for Most Commercial Applications
5. Round Inlet Sizes from 100 mm through 400 mm Diameter which are Slightly Undersized to Fit Standard Spiral and Flex Duct;
6. Rectangular Discharge with Slip and Drive Connections Providing Quick and Easy Connection to Down Stream Duct Work
7. Digital, Analog, or Pneumatic Controls with Pressure Independent or Dependent Control Packages Allows Tailoring to Many Building Systems
8. Linear, Multiple-point, Averaging Velocity Sensor, or Optional cross, Multi-point Center Averaging Sensor Offers Low Resistance to Airflow while Providing Amplified Velocity Pressure Signal to the Controller
9. Gasketed Round Volume Control Damper Operates Over a Full 90° Range and Provides a Low Leakage Shutoff Position
10. Compact Unit Casing Sizes Accommodates Installation in Reduced Ceiling Plenum Space
11. Electric Heat Option



Unit Capacities

Inlet	Max. Primary	Min. Airflow, L/S	
Size	Airflow, L/S	Standard	Electric Heat
100	109	19	55
125	170	29	85
150	260	42	110
175	330	57	140
200	480	75	190
225	547	95	240
250	710	117	300
300	980	168	425
350	1420	229	580
400	1890	299	750
550	3780	472	944

Standard L/S value is based on a signal of 7.5 Pa differential pressures of the inlet sensor. Minimum L/S may be 0.

Electric heat based on L/S necessary to trip airflow proving safety switch.

GENERAL DESCRIPTION**▼ CASING**

- SD-VAV unit casing is constructed of 22 gauge galvanized steel with a 20 gauge option.

▼ INLET COLLARS

- All round 22 gauge inlet collars accommodate standard spiral and flex duct sizes.
- Left or right hand is determined by looking in the direction of airflow with the unit in the installed position.

▼ OUTLET CONNECTION

- All standard outlet connections are rectangular and require a slip and drive duct connection.
- Round discharge option is available.

▼ DAMPER ASSEMBLY

Damper assemblies utilize a solid 12 mm shaft that rotates in self lubricating Delrin® bearings.

- Damper blade incorporates a flexible gasket for tight airflow shutoff and operates over a full 90° rotation.
- Damper position is marked by an arrow embossment on the end of the damper shaft.

▼ CASING LINERS

Unit casing will be lined with 12 mm thick, 1/2 kg, dual density fiberglass insulation that meets UL 181, NFPA 90A, BS 4979 1986 and BS EN 12589 2001 .

Options

1. 25 mm Thick Insulation: Unit casing will be lined with 25 mm thick, 1/2 kg, dual density fiberglass insulation that meets UL 181, NFPA 90A, BS 4979 1986 AND BS EN 12589 2001
2. Zero-Fiber Insulation: Unit casing will be lined with glued and riveted 9 mm thick, 1/2 kg density, smooth surface, polyolefin, closed-cell foam insulation for fiber free application. Cellular insulation meets UL 181, NFPA 90A, BS 4979 1986 AND BS EN 12589 2001 and does not support mold or bacteria growth
3. Perforated Double wall Insulation: Unit casing will be lined with 12 mm, 1/2 kg, dual density fiberglass insulation meeting UL 181, NFPA 90A, BS 4979 1986 AND BS EN 12589 2001, enclosed between the unit casing and a perforated internal sheet metal cover extending over the fiberglass insulation, as well as covering the liner cut edges.
4. Duct Board Insulation: Unit casing will be lined with 20 mm thick, 1.8 kg density, rigid board insulation with nylon reinforced foil covering insulation fibers that meets UL 181, NFPA 90A, BS 4979 1986 AND BS EN 12589 2001. Liner shall be attached to unit casing by insulation adhesive and full-seam-length Z-strips to enclose and seal the insulation cut edges
5. Non-Perforated Double wall Insulation: Unit casing will be lined with 12 mm or 25 mm thick, 1/2 kg, dual density fiberglass insulation, meeting UL 181, NFPA 90A, BS 4979 1986 AND BS EN 12589 2001, enclosed between the unit casing and a non-perforated internal sheet metal cover extending over the fiberglass insulation, as well as covering the liner cut edges

▼ AIRFLOW SENSOR

- All units are equipped with a factory installed airflow measuring sensor.
- The standard sensor is a linear, multi-point, velocity averaging sensor with an amplified signal.
- An optional Cross four quadrants, multipoint centre averaging sensor is also available.
- Balancing taps are provided to allow for easy airflow verification.
- Both the linear and Cross sensors use the same flow constant.

▼ CONTROLS

- Pneumatic, electric, analog electronic or factory mounted direct digital electronic control types are available. A “no control” unit is also available for field mounting of direct digital electronic controls where a metal enclosure will be provided by IGC.

▼ ACCESS PANEL

- An optional access panel in the terminal unit casing is available for viewing damper components and for upstream cleaning of the hot water coil fins.

▼ CONTROL TRANSFORMERS

- Electric heat units include a factory supplied, mounted and wired 24 volt control transformer inside the electric heat enclosure for electronic control applications.
- Non-electric heat units, with electronic controls are available with an optional factory supplied and wired control transformer mounted inside the control enclosure.

TYPICAL APPLICATION

IGC SD-VAV single duct terminal units are designed to be easily incorporated in the overall building HVAC design. Control packages allow the SD-VAV to be used in constant volume and variable volume applications. Although designed for compatibility with low pressure (<25 Pa), the SD-VAV unit performs reliably in high pressure systems as well (up to 1500 Pa). In variable volume pressure independent applications, the SD-VAV unit compensates for system pressure, while adjusting the airflow in response to room thermostat demand.

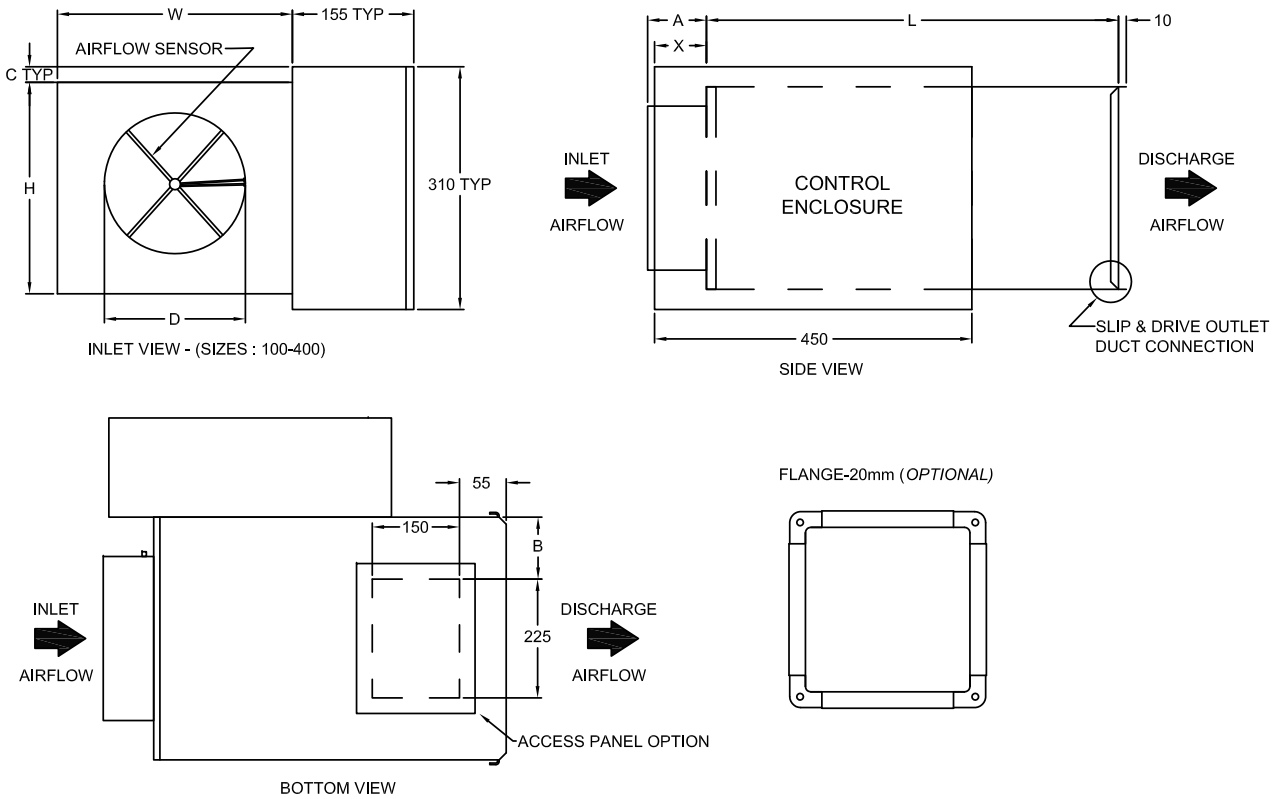
When used in a constant volume application, the SD-VAV can maintain a set flow requirement, compensating for fluctuations in system pressure. Interior zones are typically controlled by an SD-VAV with a cooling- only control package; exterior zones are often controlled by an SD-VAV with electric coils and a reheat control package. Depending on the layout of the ductwork, it is sometimes more practical to specify the SD-VAV with a factory-installed round discharge.

Unit Size	Damper Leakage, L/S			Casing Leakage, L/S		
	375 Pa	750 Pa	1500 Pa	63 Pa	125 Pa	250 Pa
100	2	2	3	1	1	2
125	2	2	3	1	1	2
150	2	2	3	1	1	2
175	2	2	3	1	2	2
200	2	2	3	1	2	2
225	2	2	3	2	2	3
250	2	2	3	2	2	3
300	2	2	3	2	3	4
350	2	3	4	3	4	6
400	2	3	4	3	5	7

*Measure the leakage rate as a function of the measured upstream static pressure.
Casing leakage is determined with the damper fully open and the discharge of the unit sealed. A precision low flow orifice is used upstream of the unit to measure the leakage rate as a function of the supplied static pressure.*

BASE UNIT DIMENSIONAL INFORMATION

▼ SD-VAV BASE UNIT, INLET, SIDE, & BOTTOM VIEWS



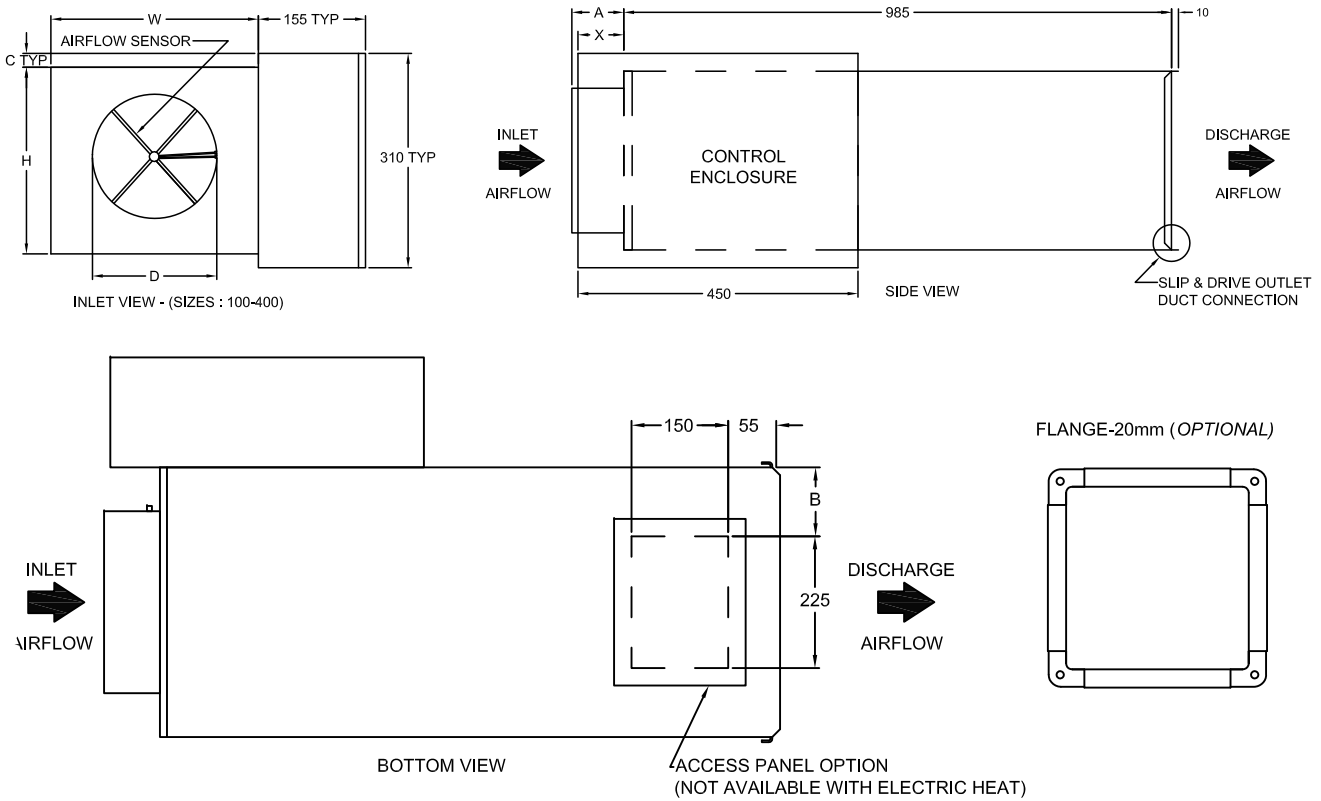
▼ SD-VAV BASE UNIT, DIMENSIONAL DETAILS

Inlet Size	Nominal Max L/S	W	H	A	B	C	D	X	L
100	109	300	200	135	35	50	95	180	394
125	170	300	200	135	35	50	120	180	394
150	260	300	200	85	35	50	145	180	394
175	330	300	250	85	35	25	170	180	394
200	480	300	250	85	35	25	195	180	394
225	547	350	310	85	60	-	220	130	394
250	710	350	310	85	60	-	245	130	394
300	980	400	375	85	85	-	295	130	394
350	1420	500	425	85	135	-	345	80	394
400	1890	600	450	85	185	-	395	80	394
550	3780	966	458	85	360	25	606x403	137	394

Right-hand base unit with electronic control enclosure shown; left-hand is available.

UNIT WITH ATTENUATOR DIMENSIONAL INFORMATION

▼ SD-VAV UNIT WITH ATTENUATOR, INLET, SIDE, & BOTTOM VIEWS



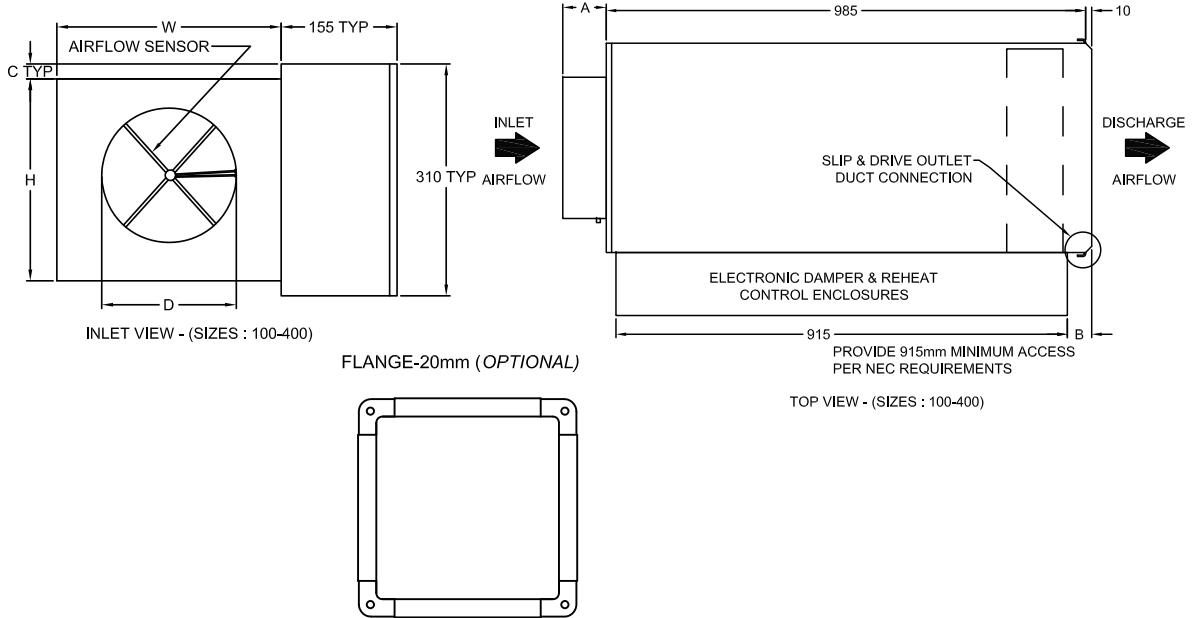
▼ SD-VAV UNIT WITH ATTENUATOR, DIMENSIONAL DETAILS

Inlet Size	Nominal Max [L/s]	W	H	A	B	C	D	X
100	109	300	200	135	35	50	95	180
125	170	300	200	135	35	50	120	180
150	260	300	200	85	35	50	145	180
175	330	300	250	85	35	25	170	180
200	480	300	250	85	35	25	195	180
225	547	350	310	85	60	-	220	130
250	710	350	310	85	60	-	245	130
300	980	400	375	85	85	-	295	130
350	1420	500	425	85	135	-	345	80
400	1890	600	450	85	185	-	395	80
550	3780	950	450	105	360	25	606x403	130

Right-hand base unit with electronic control enclosure shown; left-hand is available.

UNIT WITH ELECTRIC HEAT DIMENSIONAL INFORMATION

▼ SD-VAV UNIT WITH ELECTRIC HEAT, INLET & TOP VIEWS



▼ UNIT WITH ELECTRIC HEAT, DIMENSIONAL DETAILS

Inlet Size	Nominal Max [L/s]	W	H	A	B	C	D
100	109	300	200	135	135	50	95
125	170	300	200	135	135	50	120
150	260	300	200	85	135	50	145
175	330	300	250	85	135	25	170
200	480	300	250	85	135	25	195
225	547	350	310	85	85	-	220
250	710	350	310	85	85	-	245
300	980	400	375	85	85	-	295
350	1420	500	425	85	35	-	345
400	1890	600	450	85	35	-	395
550	3780	950	450	105	-	25	606x403

Right-hand base unit with electronic control enclosure shown; left-hand is available.

STANDARD HEAT FEATURES & CAPACITIES

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. 22 Gauge Galvanized Steel Construction 2. Line Voltage Combinations:
[120, 208/240, 277 Volt, Single-Phase]
[208 Volt, Three-Phase, Three-Wire]
[480 Volt, Three-Phase, Four-Wire] 3. Control Transformer for Analog and Direct Digital Controls 4. NEMA 2 Electric Heat Control Enclosure 5. Slip and Drive Discharge for Field Duct Connection | <ol style="list-style-type: none"> 6. 80/20 Ni-Cr Heating Elements 7. Automatic Reset Thermal Cutout
Secondary Manual Reset Thermal Cutouts 8. De-energizing Magnetic Contactors (Electronic Controls) 9. Positive Pressure Airflow Switch 10. PE Switch Step Controllers (Pneumatic Controls) |
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OPTIONAL ELECTRIC HEAT FEATURES

1. Mercury Contactors
2. Fuse Block with Fuses for Primary Overload Protection
3. Door Interlocking Disconnect Switches (Non-fused)
4. Door Interlocking Fused Disconnect Switches
5. Dust-tight Construction
6. Fuse Block

SD-VAV, MAXIMUM KW

Unit Size	1 Phase			3 Phase		
	Heater V	Max. kW	Max. Steps	Heater V	Max. kW	Max. Steps
100	120	3.0	3	208	3.0	3
	208/240	3.0	3	480	3.0	3
	277	3.0	3	-	-	-
125	120	5.0	3	208	5.0	3
	208/240	5.0	3	480	5.0	3
	277	5.0	3	-	-	-
150	120	5.0	3	208	7.5	3
	208/240	7.5	3	480	7.5	3
	277	7.5	3	-	-	-
175-200	120	5.0	3	208	9.5/13.0	3
	208/240	9.5/11.0	3	480	9.5/13.1	3
	277	9.5/13.0	3	-	-	-
225-250	120	5.0	3	208	16.0	3
	208/240	9.5/11.0	3	480	16.0/21.0	3
	277	13.0	3	-	-	-
300-350	120	5.0	3	208	16.0	3
	208/240	9.5/11.0	3	480	30.0/36.0	3
	277	13.0	3	-	-	-
400	120	5.0	3	208	16.0	3
	208/240	9.5/11.0	3	480	36.0	3
	277	13.0	3	-	-	-
550	120	5.0	3	208	16.0	3
	208/240	9.5/11.0	3	480	30.0/36.0	3
	277	13.0	3	-	-	3

SD-VAV, MINIMUM KW – 1 Phase

Voltage	1 Phase								
	120 Volt		208 Volt		240 Volt		277 Volt		
Unit Sizes	100-300 500	350-550	100-300 500	350-550	100-300 500	350-550	100-300 500	350-400	550
Stage 1	0.5	1	0.5	1	1	1	1	1	1.5
Stage 2	1	2	1	2	1.5	2	1.5	2	3
Stage 3	1.5	3	1.5	3	2	3	2.5	3	4.5

*Electric heaters are provided as slip-in type integrally mounted to the terminal unit.
Where possible, select heater so that power (kW) is a whole number. Often rounding to the nearest whole number has negligible impact on discharge temperature and power consumption.*

SD-VAV, MINIMUM KW – 3 Phase

Voltage	3 Phase				
	208 Volt		480 Volt		
Unit Sizes	100-300 500	350-550	100-300 500	350-400	550
Stage 1	1.5	3	2.5	3	4
Stage 2	1.5	3	2.5	3	4
Stage 3	1.5	3	2.5	3	4

*Electric heaters are provided as slip-in type integrally mounted to the terminal unit.
Where possible, select heater so that power (kW) is a whole number. Often rounding to the nearest whole number has negligible impact on discharge temperature and power consumption.*

**DISCHARGE SOUND PERFORMANCE DATA
SD-VAV, DISCHARGE SOUND DATA**

Inlet Size	Flow Rate	Min Δ PS	175 Δ Pa							Lp	250 Δ Pa							Lp	500 Δ Pa							Lp			
			Octave Band Sound Power, Lw								N C	Octave Band Sound Power, Lw							N C	Octave Band Sound Power, Lw							N C		
			2	3	4	5	6	7	2			3	4	5	6	7	2			3	4	5	6	7	2			3	4
L/s	Pa	2	3	4	5	6	7	N C	2	3	4	5	6	7	N C	2	3	4	5	6	7	N C							
100	19	1.77	42	32	29	28	24	19	-	43	34	32	32	27	25	-	44	35	36	36	31	31	-						
	49	11.79	54	51	43	40	37	30	-	55	52	47	44	41	36	-	56	53	50	48	45	42	-						
	79	30.74	61	60	50	46	44	36	-	62	62	54	50	48	42	20	63	63	57	54	52	47	22						
	109	58.51	65	67	55	50	49	40	26	66	68	59	54	52	46	28	67	69	62	58	56	51	29						
125	29	1.53	42	31	30	27	26	21	-	45	35	34	31	31	27	-	49	38	39	35	36	32	-						
	76	10.35	55	49	44	40	37	31	-	58	53	48	44	42	37	-	61	56	53	48	46	43	-						
	123	27.07	61	58	51	46	42	37	-	64	62	55	50	47	43	21	68	65	60	54	52	49	25						
	170	51.60	65	64	56	50	46	41	23	68	68	60	54	51	47	27	72	71	65	59	55	52	31						
150	42	1.26	41	40	29	27	29	24	-	44	45	34	31	34	31	-	47	50	40	35	39	38	-						
	110	8.46	52	51	44	40	37	32	-	55	57	49	44	42	39	-	59	62	54	48	48	46	21						
	178	22.08	57	57	51	46	41	36	-	61	63	57	51	47	43	20	64	68	62	55	52	50	26						
	260	42.05	61	61	56	51	44	39	-	65	67	62	55	49	45	25	68	72	67	59	55	52	31						
175	57	1.18	46	47	29	26	28	25	-	51	54	35	29	35	32	-	55	60	40	33	41	40	-						
	156	8.96	55	55	44	42	38	33	-	59	61	50	46	44	41	-	64	68	55	49	50	48	26						
	248	22.67	60	58	51	50	42	37	-	64	65	57	53	49	45	23	68	71	62	57	55	52	30						
	330	40.31	62	60	55	54	45	40	-	66	67	61	58	51	47	24	70	73	66	61	57	55	32						
200	76	1.30	47	44	39	32	34	29	-	50	50	45	36	39	36	-	53	55	51	41	45	43	-						
	208	9.83	56	54	49	45	42	37	-	60	60	55	49	47	44	-	63	65	61	54	53	50	24						
	319	23.14	60	58	53	50	45	40	-	63	64	59	55	51	47	22	67	70	65	59	56	53	29						
	480	42.98	63	61	56	54	48	42	-	66	67	62	59	53	49	25	70	73	68	63	59	56	31						
225	94	1.23	43	41	32	30	32	32	-	45	46	36	33	37	38	-	48	50	41	37	42	44	-						
	260	9.29	55	52	46	44	41	39	-	58	57	51	47	47	45	-	61	62	55	51	52	51	-						
	413	23.52	61	58	53	50	46	42	-	64	63	57	54	51	48	-	67	67	62	58	56	54	25						
	547	41.34	64	61	57	54	49	44	-	67	66	61	58	54	50	23	70	71	66	61	59	56	29						
250	118	1.29	42	43	36	35	36	34	-	46	48	41	39	41	40	-	49	53	46	44	47	46	-						
	319	9.37	54	53	48	46	44	41	-	58	58	53	51	49	47	-	61	63	58	55	55	53	21						
	507	23.77	60	58	54	51	48	44	-	63	63	59	56	53	50	-	66	68	64	60	59	56	25						
	710	42.05	64	61	58	55	50	46	-	67	66	63	59	55	52	23	70	70	68	64	61	58	28						
300	170	1.26	43	42	34	36	37	37	-	47	47	38	40	42	43	-	50	52	42	45	47	49	-						
	472	9.72	57	53	49	47	46	44	-	60	58	54	51	51	50	-	64	63	58	56	56	56	20						
	731	23.35	63	58	56	52	50	47	-	66	63	60	56	55	53	20	70	68	65	61	60	59	26						
	980	41.25	67	61	60	55	53	48	-	70	67	64	59	57	54	24	74	72	69	64	62	60	30						
350	227	1.30	39	38	31	35	34	36	-	42	43	34	39	39	41	-	46	47	37	42	43	47	-						
	649	10.67	56	53	50	48	46	44	-	59	57	54	52	51	50	-	63	61	57	56	55	55	-						
	1003	25.48	63	59	58	53	51	48	-	66	63	61	57	55	53	-	70	67	65	61	60	59	25						
	1420	44.24	68	62	63	57	54	50	-	71	67	66	61	59	55	24	74	71	70	65	63	61	29						
400	297	1.26	33	27	18	27	28	26	-	36	31	21	31	32	31	-	40	35	25	35	37	37	-						
	838	10.00	54	48	44	45	44	41	-	57	52	48	49	48	46	-	61	57	51	53	53	52	-						
	1286	23.57	63	57	55	52	50	47	-	66	61	59	56	55	53	-	69	65	62	60	59	58	22						
	1890	42.52	69	63	63	57	55	52	-	72	67	66	61	59	57	24	75	71	70	65	64	62	30						
550	566	1.29	52	46	44	38	35	26	-	58	54	47	44	40	32	-	64	62	50	49	45	38	-						
	1557	9.74	63	58	59	53	50	44	-	69	66	62	59	55	50	23	75	74	65	64	61	57	32						
	2454	24.18	68	63	66	60	57	52	20	74	71	69	65	62	59	29	80	79	72	71	68	65	38						
	3780	43.81	71	67	71	64	61	58	24	77	75	74	70	67	64	33	83	83	77	75	72	70	43						

**RADIATED SOUND PERFORMANCE DATA
SD-VAV, RADIATED SOUND DATA**

Inlet Size	Flow Rate	Min Δ PS	175 Δ Pa							Lp	250 Δ Pa							Lp	500 Δ Pa							Lp
			Octave Band Sound Power, Lw								Octave Band Sound Power, Lw								Octave Band Sound Power, Lw							
			2	3	4	5	6	7	N C		2	3	4	5	6	7	N C		2	3	4	5	6	7	N C	
L/s	Pa																									
100	19	1.77	33	23	18	18	12	4	-	34	24	22	21	14	8	-	35	26	25	23	16	13	-			
	49	11.79	48	40	32	31	28	20	-	49	41	35	33	30	24	-	50	43	38	35	32	29	-			
	79	30.74	56	48	38	37	36	28	-	57	50	42	40	38	32	-	58	52	45	42	40	37	-			
	109	58.51	61	54	43	42	41	33	24	62	56	46	44	43	38	25	63	57	50	46	45	42	26			
125	29	1.53	37	19	14	11	6	3	-	42	24	19	14	10	9	-	48	29	24	17	14	15	-			
	76	10.35	48	36	29	27	22	15	-	53	41	34	30	26	22	-	58	46	39	33	29	28	-			
	123	27.07	53	45	36	34	30	22	-	58	49	41	38	34	28	-	63	54	46	41	37	34	26			
	170	51.60	56	50	41	40	35	26	-	61	55	46	43	39	32	24	67	60	51	46	43	39	31			
150	42	1.26	40	31	20	19	15	8	-	43	35	24	22	18	14	-	46	40	28	25	22	20	-			
	110	8.46	50	43	35	32	28	22	-	53	47	39	35	32	27	-	56	52	43	39	36	33	-			
	178	22.08	55	49	43	39	35	28	-	58	53	47	42	39	34	22	61	58	51	45	43	40	27			
	260	42.05	58	53	48	44	40	33	22	61	57	52	47	43	39	26	64	62	56	50	47	44	32			
175	57	1.18	36	38	21	14	9	3	-	39	44	27	19	13	8	-	43	50	33	23	17	14	-			
	156	8.96	48	45	35	29	24	17	-	51	51	41	33	28	23	-	55	56	47	37	32	28	25			
	248	22.67	53	48	41	36	31	23	-	57	54	47	40	35	29	22	61	59	53	44	39	35	29			
	330	40.31	57	50	45	40	35	27	-	60	56	51	44	39	33	25	64	61	57	48	43	39	32			
200	76	1.30	40	34	26	22	20	12	-	43	39	33	27	25	19	-	46	45	40	32	30	26	-			
	208	9.83	50	43	37	33	30	22	-	53	49	44	38	35	29	-	56	54	51	43	40	36	25			
	319	23.14	54	47	41	38	34	27	-	57	52	48	42	39	34	22	60	58	55	47	44	40	30			
	480	42.98	57	49	44	41	37	30	-	60	55	51	46	42	37	26	63	61	58	51	47	44	33			
225	94	1.23	36	31	19	20	18	15	-	40	37	23	24	24	23	-	43	43	28	28	29	32	-			
	260	9.29	48	39	34	32	28	21	-	52	45	39	36	33	29	-	55	51	43	40	39	38	-			
	413	23.52	54	43	41	37	32	23	-	57	49	46	41	38	32	-	61	55	50	45	43	40	24			
	547	41.34	57	45	46	41	35	25	-	61	51	50	45	40	33	24	64	57	54	49	46	42	29			
250	118	1.29	29	29	16	14	8	-3	-	35	35	20	19	16	9	-	41	41	23	23	24	20	-			
	319	9.37	42	38	36	29	21	9	-	48	44	39	34	29	21	-	54	50	43	38	37	32	-			
	507	23.77	48	42	45	36	27	15	-	54	48	48	41	35	26	22	60	54	52	45	43	38	26			
	710	42.05	52	44	51	40	30	18	25	58	51	54	45	39	30	29	64	57	58	50	47	41	32			
300	170	1.26	36	41	26	21	19	12	-	40	45	30	25	23	18	-	45	50	35	29	28	24	-			
	472	9.72	47	46	39	35	32	24	-	51	50	43	39	36	30	-	56	55	48	43	41	35	23			
	731	23.35	52	48	44	40	37	29	-	56	52	49	44	42	35	23	60	57	54	48	47	40	28			
	980	41.25	55	49	48	44	41	32	22	59	54	53	48	46	38	27	63	59	57	52	50	44	32			
350	227	1.30	31	31	19	23	22	20	-	36	37	23	26	25	25	-	41	42	26	30	29	29	-			
	649	10.67	45	41	37	35	34	30	-	49	47	40	38	37	35	-	54	52	43	42	41	39	20			
	1003	25.48	50	45	44	40	39	34	-	55	51	48	43	43	39	22	59	56	51	47	46	43	25			
	1420	44.24	53	48	49	43	42	37	23	58	53	52	47	46	41	27	63	59	55	50	49	46	30			
400	297	1.26	35	33	26	26	23	17	-	39	38	31	31	30	25	-	44	44	36	36	37	33	-			
	838	10.00	48	43	40	37	32	25	-	52	49	45	42	39	33	-	57	54	50	47	46	41	24			
	1286	23.57	53	47	45	41	36	29	-	58	53	50	47	43	37	25	63	59	55	52	50	45	30			
	1, - S	42.52	57	50	49	45	38	31	23	62	56	54	50	46	39	29	66	62	59	55	53	47	34			
	566	1.29	46	49	39	39	40	39	-	50	52	43	41	42	41	-	53	54	47	43	44	43	23			
550	1557	9.74	55	55	50	48	49	48	24	59	58	54	50	51	50	28	63	61	58	52	53	52	32			
	2454	24.18	60	58	55	51	53	52	30	64	61	59	54	55	54	34	68	64	62	56	57	56	38			
	3+, S	43.81	63	60	58	54	56	55	33	67	63	62	56	58	57	37	70	66	66	58	60	59	41			

SUGGESTED SPECIFICATION & CONFIGURATION

General information

Furnish and install IGC model SD-VAV single duct (variable or constant) terminal units of the sizes shown in the plans. Unit casing shall be constructed of not less than 22 gage galvanized steel.

Option

Unit casing shall be constructed of not less than 20 gage galvanized steel. All round air inlet collars shall accommodate standard flex duct sizes. Unit discharge shall be slip and drive construction for field attachment to downstream ductwork.

Sound Attenuator

The single duct terminal units shall be provided (**as optional**) with a one piece integral sound attenuator section. The control air damper assembly shall be constructed of heavy gage galvanized steel with solid 12 mm shaft rotating in Delrin® bearings. Damper blade shall incorporate a flexible gasket for tight airflow shutoff and operate over a full 90° rotation. SD-VAV unit shall be equipped with a factory installed airflow sensing device. Provide a linear, multi-point, velocity averaging sensor with an amplified signal.

Option

- Provide a Cross, four quadrant, multipoint centre averaging sensor with an amplified signal
- Provide balancing taps to allow for easy airflow verification.