

VAV AIR TERMINAL UNITS



Description

SAFID SVT 500 Series VAV air terminal units are designed to achieve variable air volume supply of conditioned air to a room in single duct air distribution systems. The SVT air terminals are equipped with air flow sensor in the unit's inlet to allow pressure-independent control of air flow on the basis of a control signal and fitted with Belimo actuator/controller. The Belimo actuator/controller is linearized with the SVT 500 Series in order to achieve a high standard performance of the VAV air terminals. They have a wide range of sizes with capacities from 150CFM to 7850CFM. The SVT 500 Series will work equally well in Variable Air Volume (VAV) and Constant Air Volume (CAV) systems. The air volume supplied to the room varies in direct response of actuator to signals from the room thermostat to maintain the room designed temperature while the air flow controller maintain the maximum and minimum amount of designed air flows to be supplied to the room. The SVT air terminals are available with a variety of accessories. They can be specified sound attenuators, electric heaters, hot water coils, multiple outlet plenums and other optional accessories. The accessories (except the multiple outlet plenums) are shipped factory attached to SVT air terminals and have a standard slip and drive connection.

SCVT 500 Series:

Model SCVT 500 Series are Constant Air Volume Air Terminal Units which has the same construction as SVT 500 Series but the calibration of SCVT 500 Series will be with constant air volume flow.

Standard Construction

Casing:

Air Terminal casing, Inlet & Damper are built of 22 gauge galvanized steel sheet, conform to ASTM A653, LFQ, G90 zinc coating.

Insulation:

25mm thk. Acoustic lining with a strong and dimensionally

stable Woven Glass Fiber Fabric (WGF) facing, 48kg/M3 density, complies with the requirements of NFPA 90A.

Air Flow Sensor:

Aluminum multiple averaging flow probe that offers an excellent air flow sensing capability.

Controls:

The SVT air terminals can be specified with electric controls. Standard Controls are Belimo Actuator/controller modulating type.

Standard Connections: S-Slip and Drive Slip connection for discharge side.

Option 1: Code SF

Slide on Flange connections for discharge side.

Option 2: Code P

Air Terminal with galvanized perforated sheet behind the acoustic lining.

Option 3: Code S

Air Terminal with double wall casing and solid inner wall.

Option 4: Code SA

Air Terminal with factory-mounted Sound Attenuator on the discharge side of the air terminal casing.

Option 5: Code OP

Air Terminal with factory-mounted Multiple Outlet Plenum.

Option 6: Code EH

Air Terminal with factory-mounted Electric Heater on the discharge side of the air terminal casing.

Option 7: Code HW

Air Terminal with factory-mounted Hot Water Coil on the discharge side of the air terminal casing.

Option 8: Code FC

Air Terminal with Flexible Connector mounted on the inlet collar of the air terminal casing.

Option 9: Code M

Air Terminal with Belimo Actuator/controller.

Option 10: Code CB

Air Terminal with Control Box.

Option 11: Code TC

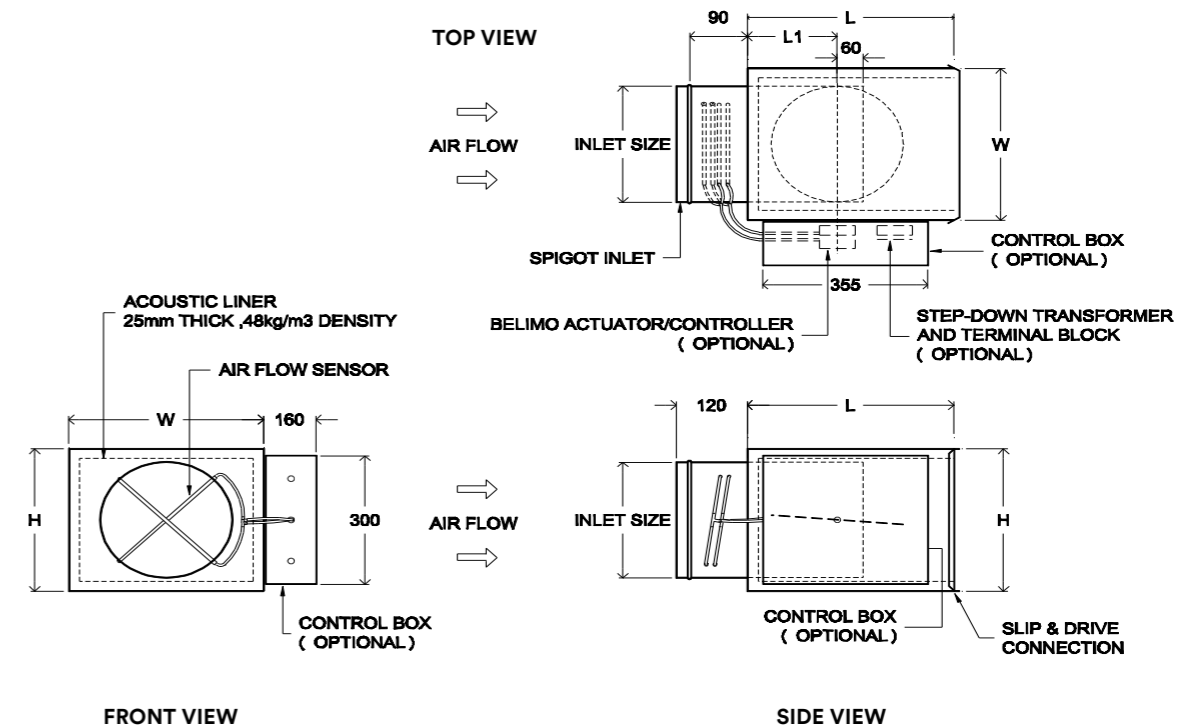
Air Terminal with Digital Temperature Controller.



AHRI Standard 880

SVT 500: BASIC AIR TERMINALS

Dimensions



SVT 500: Dimensions

MODEL	UNIT SIZE (in)	INLET SIZE DIA (mm)	Casing Size (mm)			
			W	H	L	L1
SVT 506	6	152	300	300	425	155
SVT 508	8	200	350	300	425	155
SVT 510	10	250	400	325	450	180
SVT 512	12	305	450	375	475	205
SVT 514	14	350	500	420	495	225
SVT 516	16	400	550	470	520	250
SVT 518	18	450	600	520	545	275
SVT 520	20	500	650	570	570	300
SVT 524	24	600	750	670	670	350

NOTE

The minimum straight portion before the VAV must be equal to 2 times the diameter of the size of VAV to maintain the integrity of airflow sensor's performance.

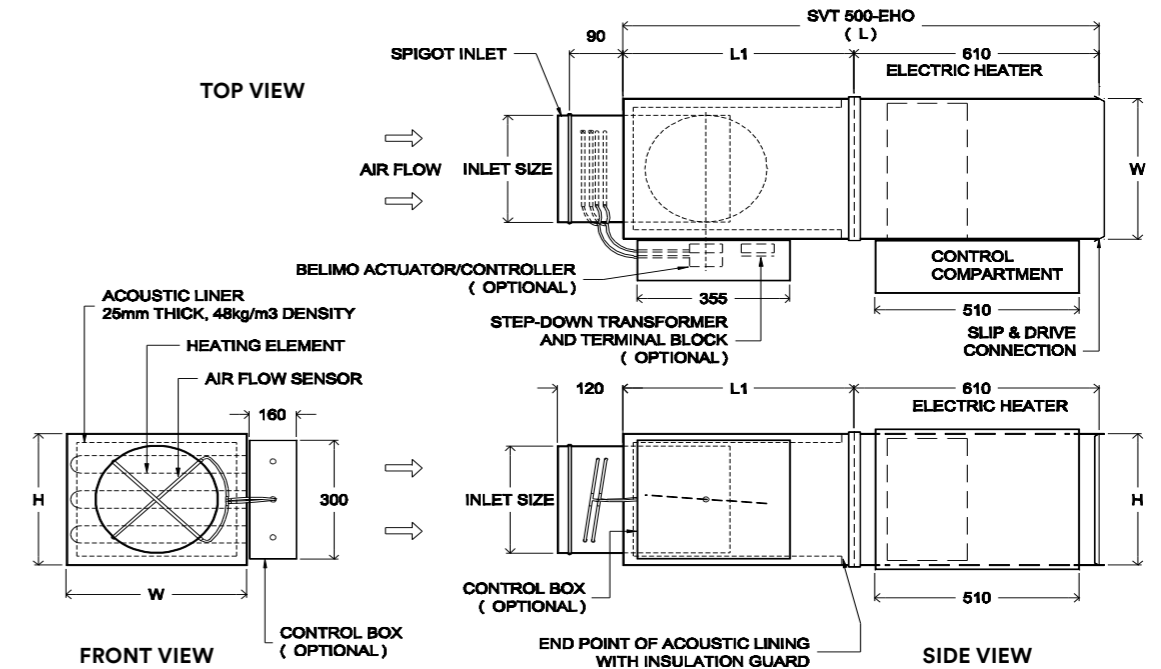
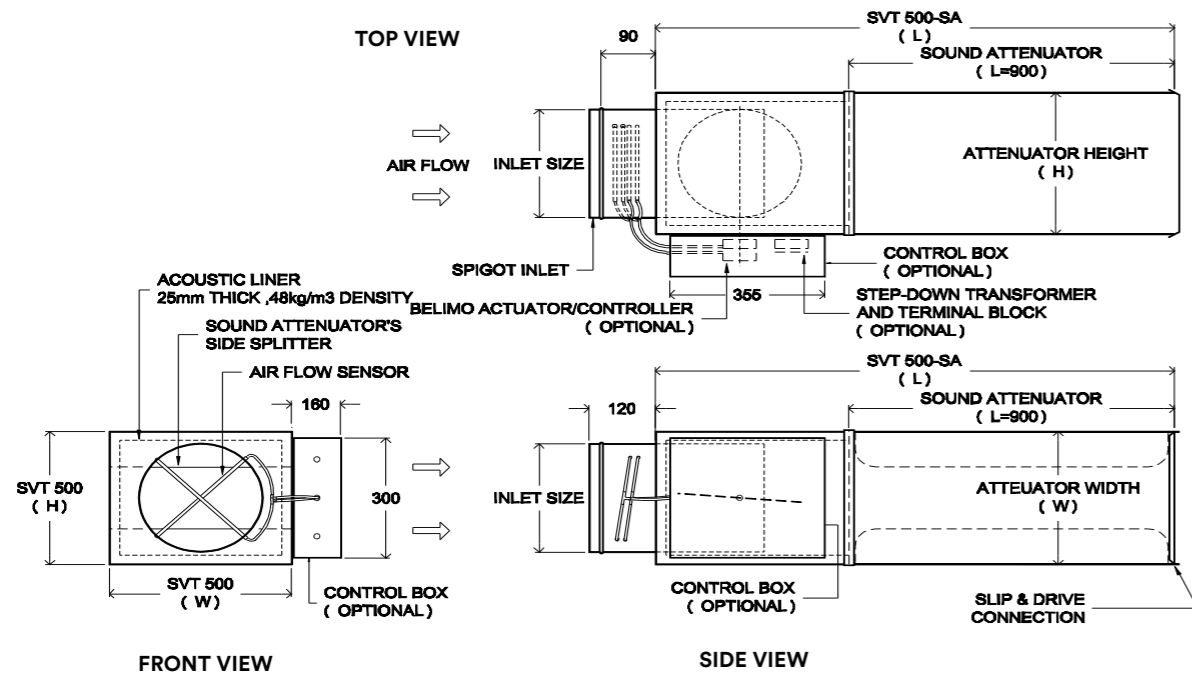


SVT 500 - SA: AIR TERMINALS WITH DOWNSTREAM SOUND ATTENUATOR

SVT 500 - EH: AIR TERMINALS WITH DOWNSTREAM ELECTRIC HEATER

Dimensions

SVT 500 - EHO, EHT, EHFT: Dimensions with Open, Tubular or Fin-Tubular Coil



SVT 500 - SA: Dimensions

SVT 500 - EHO: Dimensions

MODEL	UNIT SIZE (in)	INLET SIZE DIA (mm)	SVT 500 - SA			SOUND ATTENUATOR (SA)		
			W	H	L	W	H	L
SVT 506-SA	6	152	300	300	1325	300	300	900
SVT 508-SA	8	200	350	300	1325	300	350	900
SVT 510-SA	10	250	400	325	1350	325	400	900
SVT 512-SA	12	305	450	375	1375	375	450	900
SVT 514-SA	14	350	500	420	1395	420	500	900
SVT 516-SA	16	400	550	470	1420	470	550	900
SVT 518-SA	18	450	600	520	1445	520	600	900
SVT 520-SA	20	500	650	570	1470	570	650	900
SVT 524-SA	24	600	750	670	1570	750	670	900

MODEL	UNIT SIZE (in)	INLET SIZE DIA (mm)	SVT 500 - EHO			
			W (mm)	H (mm)	L (mm)	L1 (mm)
SVT 506-EH	6	152	300	300	1035	425
SVT 508-EH	8	200	350	300	1035	425
SVT 510-EH	10	250	400	325	1060	450
SVT 512-EH	12	305	450	375	1085	475
SVT 514-EH	14	350	500	420	1105	495
SVT 516-EH	16	400	550	470	1130	520
SVT 518-EH	18	450	600	520	1155	545
SVT 520-EH	20	500	650	570	1180	570
SVT 524-EH	24	600	750	670	1280	670

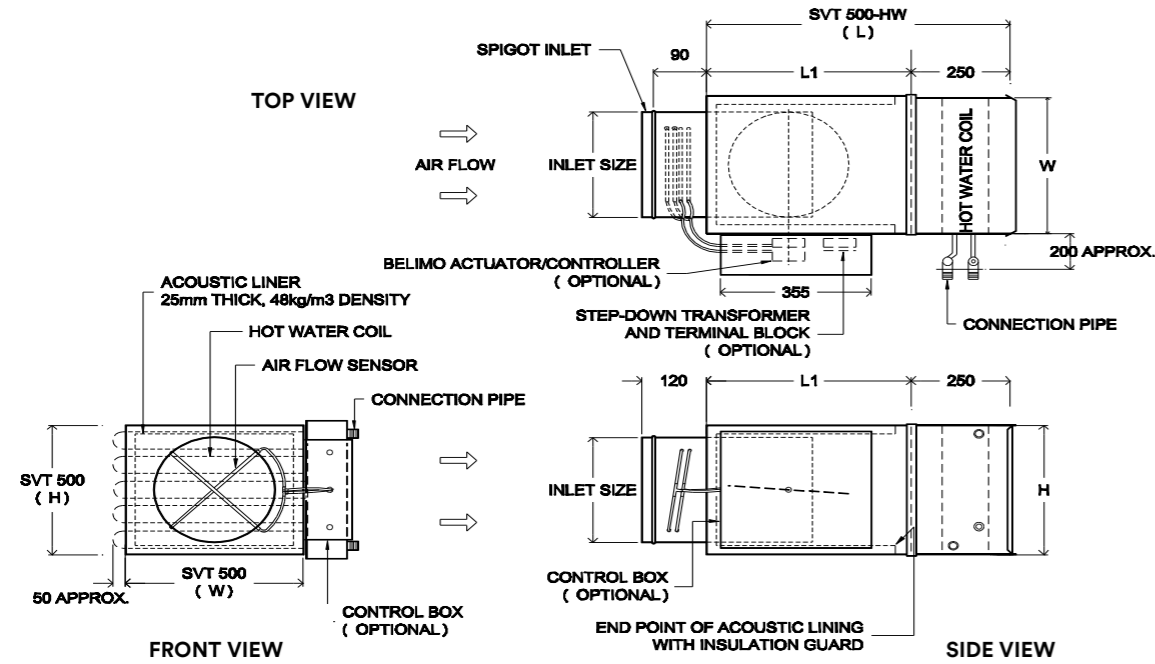
NOTE

1. The minimum straight portion before the VAV must be equal to 2 times the diameter of the inlet size of VAV to maintain the integrity of airflow sensor's performance.
2. The straight portion after the electric heater up to elbow or any fittings that will change the airflow's direction must be equal to minimum length of 610mm.
3. Contact SAFID for electric heater details.

SVT 500 - HW: AIR TERMINALS WITH DOWNSTREAM HOT WATER COIL

SVT 500 - OP: AIR TERMINALS WITH MULTIPLE OUTLET PLENUM BOX

Dimensions



SVT 500 - HW: Dimensions

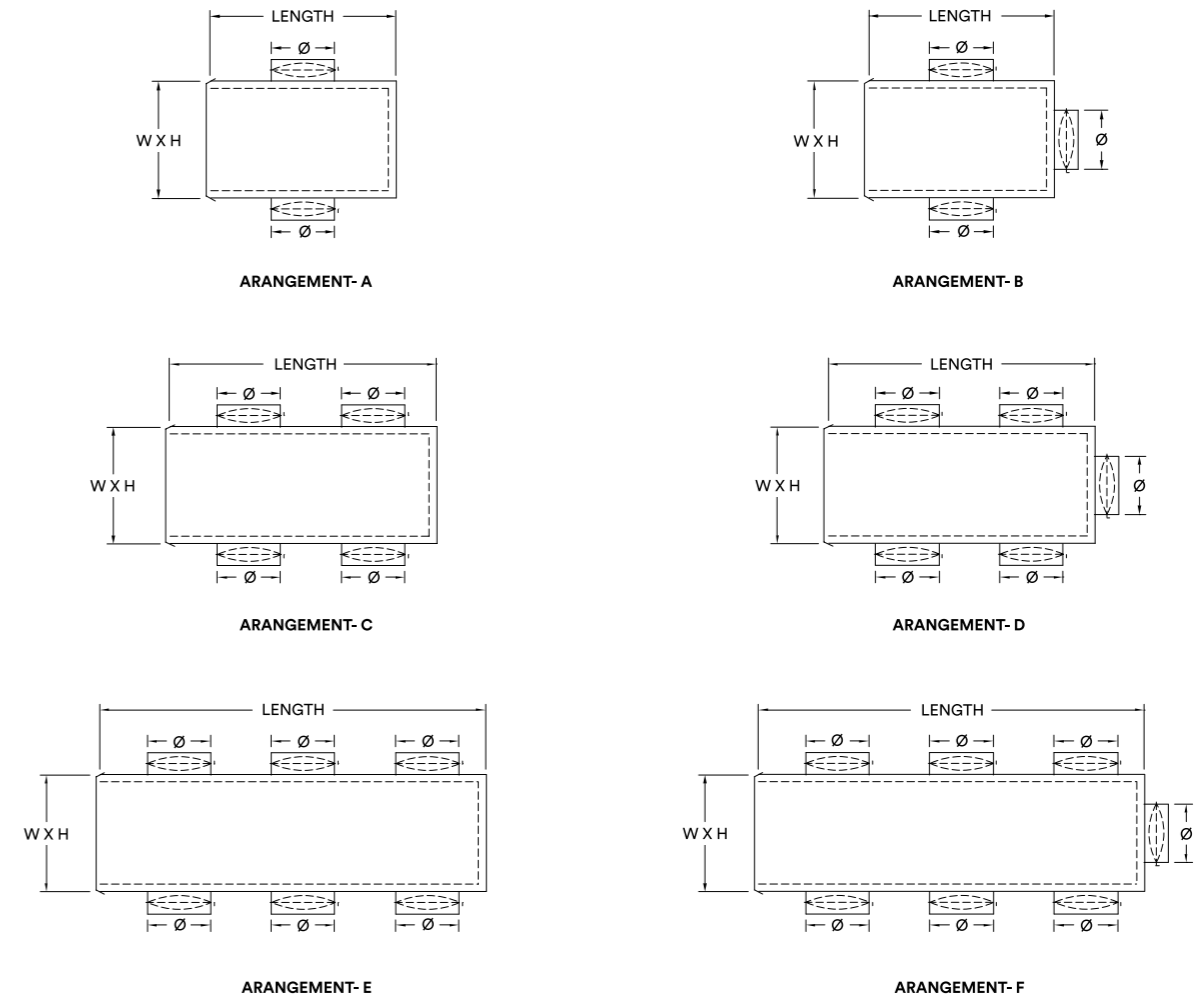
MODEL	UNIT SIZE (in)	INLET SIZE DIA (mm)	COIL CODE	SVT 500 - HW			
				W (mm)	H (mm)	L (mm)	L1 (mm)
SVT 506 - HW	6	152	HW - 506	300	300	675	425
SVT 508 - HW	8	200	HW - 508	350	300	675	425
SVT 510 - HW	10	250	HW - 510	400	325	700	450
SVT 512 - HW	12	305	HW - 512	450	375	725	475
SVT 514 - HW	14	350	HW - 514	500	420	745	495
SVT 516 - HW	16	400	HW - 516	550	470	770	520
SVT 518 - HW	18	450	HW - 518	600	520	795	545
SVT 520 - HW	20	500	HW - 520	650	570	820	570
SVT 524 - HW	24	600	HW - 524	750	670	920	670

NOTE

1. The minimum straight portion before the VAV must be equal to 2 times the diameter of the inlet size of VAV to maintain the integrity of airflow sensor's performance.
2. The minimum straight portion after the hot water coil must be equal to the diagonal of the electric heater's internal dimension.
3. Contact SAFID for hot water coil details.

Plenum Arrangement

Multiple outlet plenums can be supplied in the following arrangement and the dimensions will be as per the customer's requirement.



NOTE

1. Plenum construction: 22 Ga. GI or as required, Lining: 25 mm x 48 kg/m³ or as required.
2. Lined and unlined plenums can be provided to required collar dia. as per above arrangements.
3. All the collars to be provided with manual VCD (volume control damper) and hand quadrant.

SVT 500 - SA: AIR TERMINAL WITH DOWNSTREAM SOUND ATTENUATOR

Table 3: Static Pressure and Insertion Loss of Sound Attenuator

Air Terminal With Attenuator Model	Rated Air Flows		Downstream Sound Attenuator								
	CFM	m³/s	Static Pressure (in. W.G.)	Attenuator Model	Attenuator Size (mm) (W x H x L)	Insertion Loss (dB)					
						Octave Band Center Frequency (Hz)					
						125	250	500	1kHz	2kHz	4kHz
SVT 506 - SA	150	0.071	0.02	SA20 - 100	300 x 300 x 900	12	22	37	50	46	36
	250	0.118	0.04								
	350	0.165	0.06								
	450	0.212	0.10								
	550	0.260	0.14								
SVT 508 - SA	200	0.094	0.02	SA20 - 100	300 x 350 x 900	12	22	37	50	46	36
	400	0.189	0.06								
	600	0.283	0.12								
	800	0.378	0.22								
	1000	0.472	0.34								
SVT 510 - SA	400	0.189	0.02	SA20 - 125	325 x 400 x 900	12	21	37	48	41	31
	700	0.330	0.06								
	1000	0.472	0.14								
	1300	0.613	0.24								
	1600	0.755	0.34								
SVT 512 - SA	700	0.330	0.02	SA20 - 175	375 x 450 x 900	12	19	35	41	29	25
	1050	0.495	0.04								
	1400	0.661	0.08								
	1750	0.826	0.14								
	2100	0.991	0.20								
SVT 514 - SA	800	0.378	0.02	SA22 - 200	420 x 500 x 900	12	18	30	33	26	23
	1350	0.637	0.04								
	1900	0.897	0.10								
	2450	1.156	0.16								
	3000	1.416	0.22								
SVT 516 - SA	1000	0.472	0.02	SA27 - 200	470 x 550 x 900	12	18	30	33	26	23
	1750	0.826	0.06								
	2500	1.180	0.12								
	3250	1.534	0.22								
	4000	1.888	0.34								
SVT 518 - SA	1300	0.613	0.02	SA32 - 200	520 x 600 x 900	12	18	30	33	26	23
	2225	1.050	0.08								
	3150	1.486	0.18								
	4075	1.923	0.28								
	5000	2.360	0.44								
SVT 520 - SA	1600	0.755	0.04	SA37 - 200	570 x 650 x 900	12	18	30	33	26	23
	2950	1.392	0.12								
	4300	2.029	0.28								
	5150	2.430	0.40								
	6000	2.831	0.54								
SVT 524 - SA	2250	1.062	0.03	SA20 - 175	750 x 670 x 900	13	19	35	41	29	25
	3600	1.699	0.07								
	4950	2.336	0.12								
	6400	3.020	0.19								
	7850	3.704	0.29								

NOTE

1. Static Pressure on the above table is for sound attenuator only.
2. If SVT 500 Series with downstream sound attenuator shall be selected because it can be also a source of noise due to the flow self generated noise.
3. To obtain the Static Pressure of SVT 500 Series with integral downstream sound attenuator, the Static Pressure of sound attenuator from the above table shall be added to Static Pressure of the SVT 500 Series Air Terminal.
4. Refer to Table 1 and Table 2 for NC levels and Static Pressure of SVT – 500 Series Air Terminal.

NOISE CRITERIA (NC) CALCULATION

Table 4: Sound Attenuation Calculation as per AHRI 885

Table 4A AHRI 885 DISCHARGE <300 CFM	DISCHARGE SOUND ATTENUATION ASSUMPTION Octave Band Center Frequency (Hz)					
	125	250	500	1kHz	2kHz	4kHz
	1. Environmental effect	2	1	0	0	0
2. Duct lining 1" thk, 15" x 15" x 5ft	2	3	9	18	17	8
3. Flexible duct 5ft, Ø8"	6	10	18	20	21	12
4. End reflection	9	5	2	0	0	0
5. Sound Power division (1 space supplied)	0	0	0	0	0	0
6. Space effect	5	6	7	8	9	10
Total Attenuation (dB)	24	25	36	46	47	30

Table 4B AHRI 885 DISCHARGE 300 - 700 CFM	DISCHARGE SOUND ATTENUATION ASSUMPTION Octave Band Center Frequency (Hz)					
	125	250	500	1kHz	2kHz	4kHz
	1. Environmental effect	2	1	0	0	0
2. Duct lining 1" thk, 15" x 15" x 5ft	2	3	9	18	17	8
3. Flexible duct 5ft, Ø8"	6	10	18	20	21	12
4. End reflection	9	5	2	0	0	0
5. Sound Power division (2 spaces supplied)	3	3	3	3	3	3
6. Space effect	5	6	7	8	9	10
Total Attenuation (dB)	27	28	39	49	50	33

Table 4C AHRI 885 DISCHARGE >700 CFM	DISCHARGE SOUND ATTENUATION ASSUMPTION Octave Band Center Frequency (Hz)					
	125	250	500	1kHz	2kHz	4kHz
	1. Environmental effect	2	1	0	0	0
2. Duct lining 1" thk, 15" x 15" x 5ft	2	3	9	18	17	8
3. Flexible duct 5ft, Ø8"	6	10	18	20	21	12
4. End reflection	9	5	2	0	0	0
5. Sound Power division (2 spaces supplied)	5	5	5	5	5	5
6. Space effect	5	6	7	8	9	10
Total Attenuation (dB)	29	30	41	51	52	35

Table 4D AHRI 885 RADIATED	RADIATED SOUND ATTENUATION ASSUMPTION Octave Band Center Frequency (Hz)					
	125	250	500	1kHz	2kHz	4kHz
	1. Environmental effect	2	1	0	0	0
2. Mineral Tile, Space/Ceiling effect	16	18	20	26	31	36
Total Attenuation (dB)	18	19	20	26	31	36

NOTE

If split air flows will be supplied to the same conditioned space, the Sound Power division outlined on the above table has no effect. Therefore the value of Sound Power division in all frequencies from 2 to 7 (125Hz to 4kHz) is equal to zero, then the total attenuation will be less than the above calculation. Noise Criteria can be recalculated using the above calculation to apply the actual site conditions.

NOISE CRITERIA (NC) CALCULATION

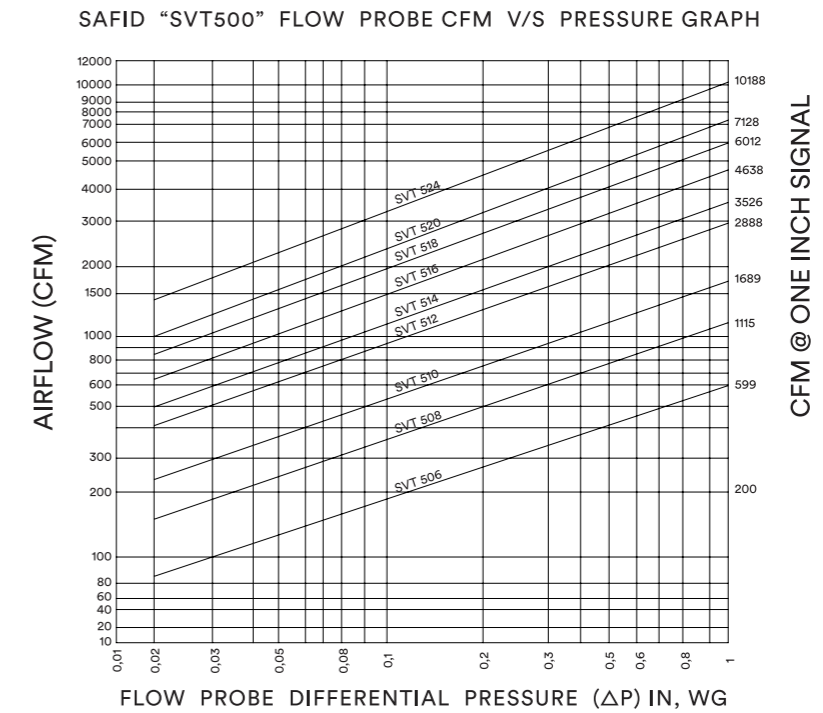
Table 5: Tabular Representation of NC Curves (dB)

NC	Octave Band Center Frequency, Hz					
	2 (125)	3 (250)	4 (500)	5 (1 KHz)	6 (2 KHz)	7 (4 KHz)
15	36	29	22	17	14	12
20	40	33	26	22	19	17
25	44	37	31	27	24	22
30	48	41	35	31	29	28
35	52	45	40	36	34	33
40	56	50	45	41	39	38
45	60	54	49	46	44	43
50	64	58	54	51	49	48
55	67	62	58	56	54	53
60	71	67	63	61	59	58
65	75	71	68	66	64	63

NOTE

The above tabular representation of NC curves can be caused to determine the new NC level whenever recalculation of discharge or radiated NC level is required.

Flow Calibration Chart



Airflow Range

MODEL	UNIT SIZE (in)	INLET SIZE DIA (mm)	K Factor	Inlet Area ft²	Airflow Range (CFM)		
					Min	Heating	Max
SVT 506	6	152	1.79	0.2	60	138	550
SVT 508	8	200	1.58	0.35	110	250	1000
SVT 510	10	250	1.7	0.55	170	400	1600
SVT 512	12	305	1.2	0.79	290	525	2100
SVT 514	14	350	1.48	1.07	352	750	3000
SVT 516	16	400	4.46	1.4	464	1000	4000
SVT 518	18	450	1.39	1.77	600	1250	5000
SVT 520	20	500	1.5	2.18	710	1500	6000
SVT 524	24	600	1.52	3.14	1020	1950	7850

NOTE

Maximum Airflow is based on 3000 FPM inlet velocity. At Heat mode minimum 0.03"WG discharge pressure is required to energize flow switch.

SVT 500 - EH: AIR TERMINALS WITH DOWNSTREAM ELECTRIC HEATER

Optional Electric Heaters

OPTION NO. 1 - Stainless Steel Tube Coil:**Construction:**

The heating element of the electric heater is made from stainless steel tube, SS type 2337, EN 1.4541. The stainless steel tube heating element is not electrified and it will get hot (300-500°C) but you will not get an electric shock if you should reach it. It has a density which will keep it warm for approximately 3 minutes after the power is switched off and therefore very good to control with a time proportional thyristor regulation or with a thermostat. All electric heaters are tested for electrical safety and approved for EMC by SEMKO and comply with European standards EN 50081-1 and EN 50082-1, It also comply with the requirements in the Low Voltage Directive, LVD 72/23 EEC.

The casing is made from steel sheet with aluminum zinc coating which is more corrosion resistive than the galvanized steel sheet.

Basic Electric Heater - Code EHT:

1. The basic electric heater have no built-in temperature regulation controller.
2. In case of thermal over load, It has two built-in over heating protections, one is automatic reset and the other to be manually reset.
3. The basic electric heater have built-in pressure switch to detect the presence of air flow passing through electric heater. The power supply to the electric heater must be interrupted if the supply fan or air flow stopped. function can be connected to the incoming power supply to the electric heater.
4. The number of kW steps is available from 1 to 3 steps.
5. The power supply is 230V/1PH/60HZ from 0.5kW up to 10kW and 400V/3PH/60HZ from 3kW up to 86kW.

Electric Heater with Built - In Temperature Regulation Controller - Code EHTR:

1. The electric heater with built-in electric temperature regulation controller called thyristor controls heating by means of so called time proportional regulation (Pulse/Pause Technology). This gives a very precise continuous variable temperature regulation control of the heaters in response to the temperature requirements of the room sensor. The built-in controller is made for an external 0-10V control signal from BMS or similar.
2. It has also a built-in automatic and manual reset over heating protection and a pressure switch to detect the presence of air flow passing through the electric heater.
3. The power supply is 230V/1PH/60HZ from 0.2kW up to 5.5kW and 400V/3PH/60HZ from 6kW up to 86kW.

**NOTE**

For more details, please refer to the Electric Duct Heater section of this catalogue.

SVT 500 - EH: AIR TERMINALS WITH DOWNSTREAM ELECTRIC HEATER

Optional Electric Heaters

OPTION NO. 2 - Open Coil:**Construction:**

The open coil type heating element is made from a high grade resistance wire. Each heating coil element is designed to the customer's wattage specification. A gauge heavier than a normal gauge wire is used, giving a longer coil to maintain the required resistance for a given wattage.

The casing is made from galvanized steel sheet as standard. Optional casing can be made from aluminized or stainless steel.

Basic Electric Heater - Code EHO:

1. The basic electric heater have no-built temperature regulation controller.
2. In case of thermal over load, It has two built-in over heating protections, one is automatic reset and the other one is to be manually reset.
3. The basic electric heater have a built-in flow switch to detect the presence of air flow passing through the electric heater. The power supply to the electric heater must be interrupted if the supply fan or air flow stopped.
4. The number of kW steps is available from 1 to 3 steps.
5. The power supply available is 230V/1PH/60HZ or 440V/3PH/60HZ.
6. The maximum kW rating is 200kW.

Electric Heater with Built - In solid state proportional Controller - Code EHOS

1. The heating element is controlled simultaneously with the built-in solid state controller. The built-in controller is made for an external 0— 10 VDC control signal from BMS.
2. It has also a built-in automatic and manual reset over heating protection and air flow switch to detect the presence of air flow passing through the electric heater.
3. The power supply available is 230V/1PH/60HZ or 440V/3PH/60HZ.
4. The maximum kW rating is 200kW.

**NOTE**

For more details, please refer to the Electric Duct Heater section of this catalogue.

SVT 500 Series for Variable Air Volume (VAV) Systems

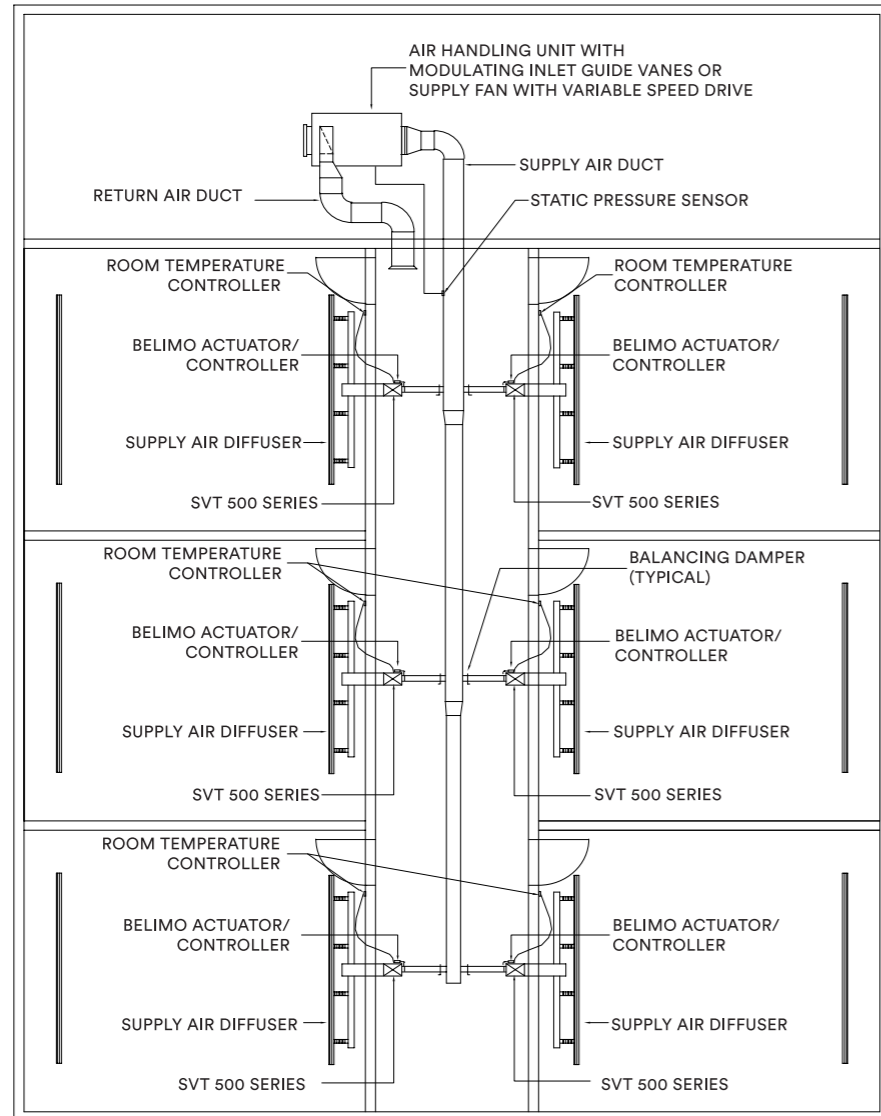


Figure-1

Figure-1 shows SVT 500 Series for Variable Air Volume (VAV) Systems. The volume of air supply to the room varies depend on the requirement of room thermostat. The air terminal will be fully open when the room under its control experiences a maximum load. When the room temperature reached the thermostat setting, the air terminal will close down to the minimum volumetric flow setting and the air volume from supply fan varies.

When the room load decreases in other areas, the air terminal start to throttle at partial load or close down to the minimum volumetric flow setting that will cause to increase the duct static pressure. By using a supply fan with inlet guide vanes or supply fan with variable speed drive, a signal from duct static pressure sensor will start to modulate the fan inlet guide vanes or modulate the fan speed to reduce the air flow. This air flow reduction is the major cause of energy savings of Variable Air Volume (VAV) Systems.

SVT 500 Series for Constant Air Volume (CAV) Systems

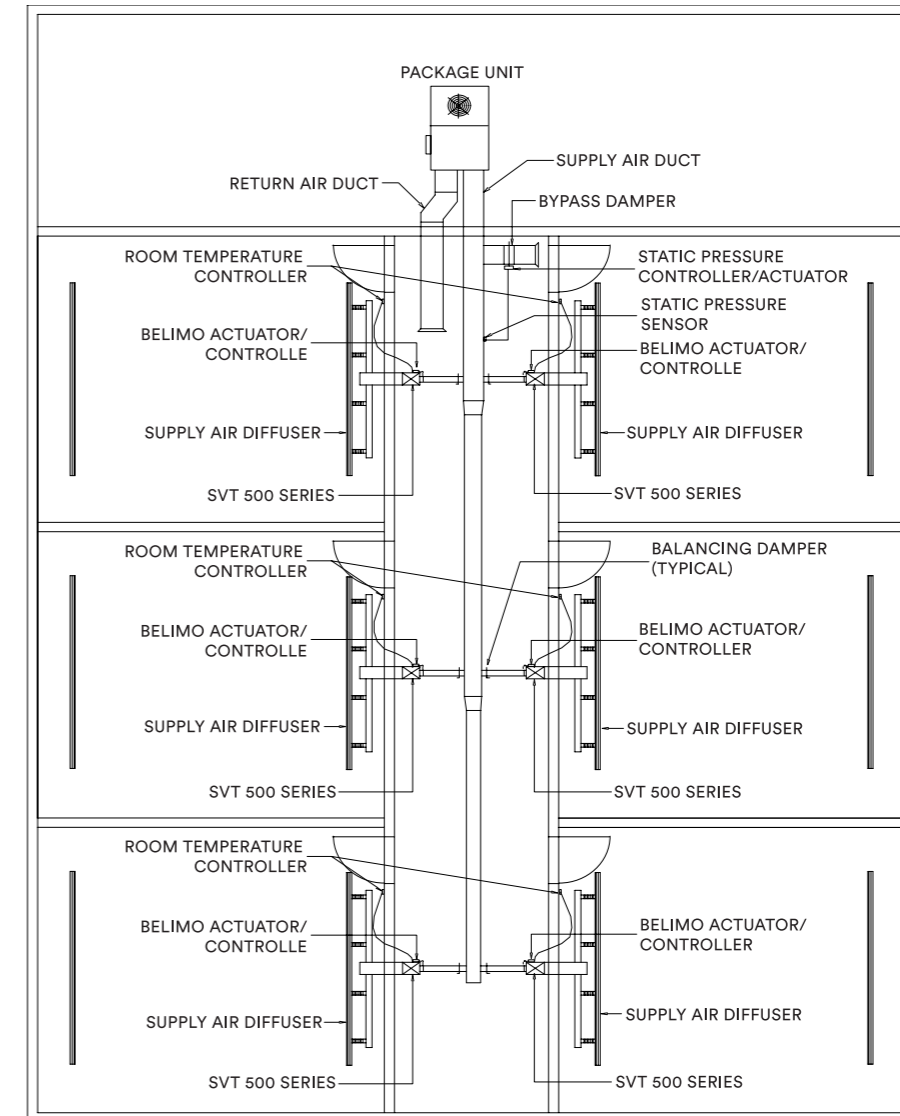
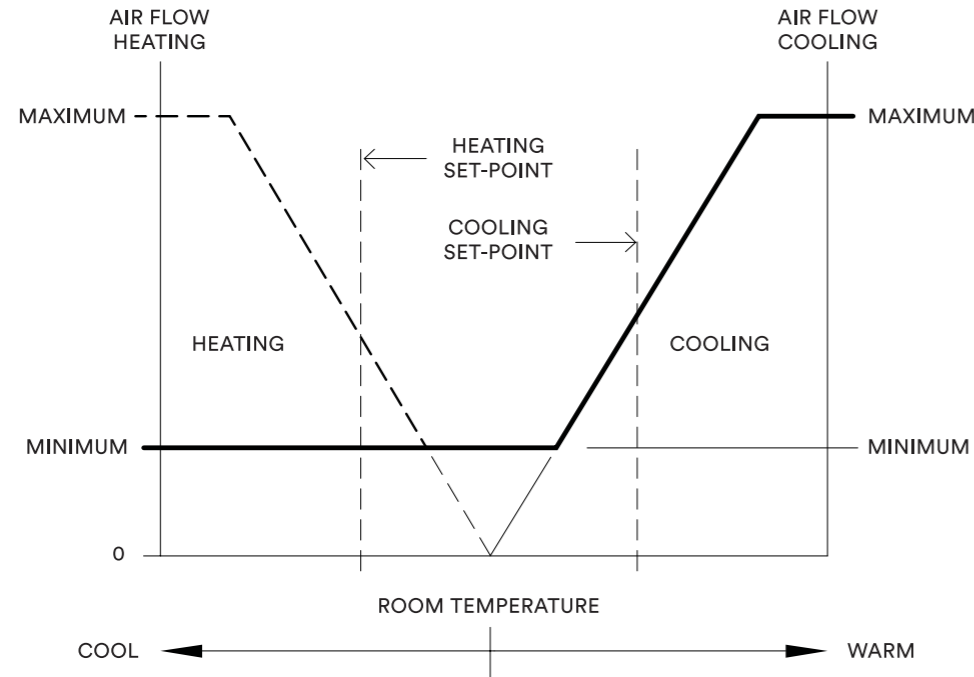


Figure-2

Figure-2 shows SVT 500 Series for Constant Air Volume (CAV) Systems. The volume of air supply to the room varies depend on the requirement of room thermostat. The air terminal will be fully open when the room under its control experiences a maximum load. When the room temperature reached the thermostat setting, the air terminal will close down to the minimum volumetric flow setting while the air volume from supply fan remain constant.

When the room load decreases in other areas, the air terminal start to throttle at partial load or close down to the minimum volumetric flow setting that will cause to increase the duct static pressure. At this point a signal from duct static pressure sensor will start the static pressure controller to open the bypass damper. Care should be taken that the bypassed air will not be thrown directly or near the main return opening or bellmouth to avoid short-circuiting of supply and return air.

Controls Sequence



Cooling Mode:

During summer, the room thermostat signals the damper actuator to regulate the damper position. The cooling set-point decide the room temperature. When the room temperature rises above the cooling set-point, the damper will be modulated to maximum air flow. When the room temperature fall below the cooling set-point, the damper will be modulated to minimum air flow.

Heating Mode:

During winter, the room thermostat signals the damper actuator to regulate the damper position at minimum air flow. When the room temperature continuous to fall below the temperature set-point, the room thermostat will energize the electric heater while the damper position will be at minimum air flow.



Selection Procedure

Example No. 1:

Customer Requirements:

1. Space (room) supplied = 3 spaces
2. Cooling only application
3. Maximum cooling air flow (Vnom) = 1750 CFM
4. Inlet static pressure at fully open damper (minimum S.P.) = 0.1 W.G.
5. Maximum system static pressure setting = 2 in. W.G.
6. Maximum NC level = NC 35

From Performance Data - Table 1:

1. Select Inlet Size 12 from Table 1 which has a minimum static pressure of 0.072 in. W.G. at 1750 CFM. The value of the selected minimum static pressure shall not exceed the required minimum static pressure of 0.1 in W. G.
2. The NC levels in Table 1 were calculated using Table 4C as per AHRI 885 where above 700 CFM, the sound power division supplied 3 spaces. The discharge NC level from Table 1 at 2 in. W.G. S.P. is NC 33 and the radiated NC level from Table 2 is NC 32.

SVT 512 (Inlet Size 12) will meet the required pressure drop (less than 0.1 in W.G.) and NC level (NC 35) for this example.

Example No. 2:

Customer Requirements:

1. Space (room) supplied = 1 space
2. Cooling only application
3. Maximum cooling air flow (Vnom) = 1750 CFM
4. Inlet Static pressure at fully open damper (minimum S. P.) = 0.1 in W. G.
5. Maximum system static pressure setting = 2 in. W.G.
6. Maximum NC level = NC 35

From Performance Data - Table 1:

Since the published NC levels for Inlet Size 12 at 1750 CFM were calculated as supplied 3 spaces while the actual customer requirement is to be supplied 1 space only, recalculation of Noise Criteria (NC) using Table 4A is required.

1. Selecting Inlet Size 14 from Table 1, the minimum static pressure at 1750 CFM by interpolation is 0.044 in W. G.
2. By interpolation and recalculation using Table 4A, the discharge NC level at 1750 CFM is NC 35 and the radiated NC level from Table 2 is NC 27.

SVT 514 (Inlet Size 14) will meet the required pressure drop (less than 0.1 in W.G.) and NC level (NC 35) for this sample.

Order Details

	SVT	aaa-	bb-	cc-	dd	ee	ff	gg	hh	ii	jj	kk	ll	mm	nn
Model No:															
506	= Inlet Size No. 6"														
508	= Inlet Size No. 8"														
510	= Inlet Size No. 10"														
512	= Inlet Size No. 12"														
514	= Inlet Size No. 14"														
516	= Inlet Size No. 16"														
518	= Inlet Size No. 18"														
520	= Inlet Size No. 20"														
524	= Inlet Size No. 24"														
Options:															
SA	= With discharge sound attenuator														
OP	= With Multiple outlet plenum														
EHT	= With stainless steel tube coil electric heater														
EHTR	= With stainless steel tube coil electric heater and built-in temperature regulation controller powered by external 0-10V control signal from a BMS or similar.														
EHO	= With open coil electric heater														
EHOS	= With open coil electric heater and built-in solid state proportional controller powered by external 0-10V control signal from a BMS or similar.														
HW	= With discharge hot water coil														
kW	= Power rating of electric heater														
1,2,3	= Required number of steps														
M	= With Belimo actuator/Controller														
TC	= With digital room temperature controller														
T	= With step-down transformer from 220V to 24V for actuator/controller														
TB	= With terminal block for transformer														
CB	= With control box														
P	= With perforated sheet behind acoustic lining														
SF	= With slide on flange on discharge side														
FC	= With flexible connector														
S	= Double wall casing with solid liner wall														
Air Flow Setting:															
CFM	= Vmax (% maximum airflow setting of Vnom)														
CFM	= Vmin (% airflow setting based on Vmax)														

NOTE

1. If the discharge side connection is not specified, slip & drive is the standard connection.
2. If the actuator/controller, transformer, terminal block and control box is not specified, the standard supply.

Order Example

Example No. 1:

Requirements:

Variable Air Volume Terminal, Pressure - Independent is capable of delivering 1750 CFM (Vnom) at 0.05 in W.G. minimum static pressure at fully open damper blade and with maximum discharge NC 35 at 2 in W. G. maximum system static pressure setting. Maximum air flow (Vmax) is 100% of Vnom and minimum air flow (Vmin of Vmax) is 30%, Air Terminal should be with Belimo actuator/controller and control box. The space supplied is one room only.

Selected Mode: SVT 514 - By interpolation and recalculation using Table 4A, SVT 514 will meet the required 0.05 in W.G. pressure drop and the discharge NC 35 at 2 in W. G. Static Pressure.

Ordering:

Make :SAFID
 Type :SVT 514-M-CB-1750CFM-525CFM
 Qty :1 pc

Example No. 2:

Requirements:

Same as Example No. 1 but with discharge Sound Attenuator at Inlet & Attenuator static pressure of 0.15 in W. G.

Selected Model: SVT 514

Ordering:

Make : SAFID
 Type : SVT 514-SA-M-CB-1750 CFM-525CFM
 Qty :1 pc

Example No. 3:

Requirements:

Same as Example No. 1 but with open coil electric heater, 3kW, 1 step.

Ordering:

Make :SAFID
 Type :SVT 514-EHO-3kW-1-M-CB-1750CFM-525CFM
 Qty :1 pc

Example No. 4

Requirements:

Same as Example No. 1 but with open coil electric heater, 6kW, 2 steps with digital room temperature controller.

Selected Model: SVT 514

Ordering:

Make :SAFID
 Type :SVT 514-EHO-6kW-2-M-TC-CB-1750CFM-525CFM
 Qty :1 pc