

RSV-SVAD Smart Variable Air Diffusers Models ST / STS / RR / SW / RW / WL / LL - E / D Plaque square, round or Linear - Standalone / Network



Superior air distribution
Easily adapts to office changes
Lower cost per zone
Reliable and durable quality
Easy maintenance
Automation control capabilities



ROYAL SERVICE AIR CONDITIONING CORP.

Royal Service Air Conditioning was established in 1975, and since that time, developed into a multinational company with global influence, relying on outstanding technologies and satisfying service.

In 1995, Royal Service Group entered the Chinese market. Establishing wholly owned Royal Service Air-Conditioning (Guangdong) Corporation in China. Services include engineering design, manufacture, installation and after sales service for the best high quality Heating Ventilation Air-Conditioning & Refrigeration (HVAC & R) and Building Automation Systems(BAS) for worldwide use. Thanks to our world-class engineering design, engineering management systems and high quality products, Royal Service air conditioning developed rapidly in China, in succession, branch offices were established in GuagnZhou, BeiJing, ShangHai, XiaMen, ShenZhen, WuHan, and ChengDu, The products and projects engineered by Royal Service air conditioning are highly marketable in the world wide market. Relying on strong engineering technical strengths and excellent services, Royal Service has become the one of industry's standard recognized professional manufacturer of VAV air conditioning products and systems. Designing and manufacturing top performing products, winning a excellent reputation from customers throughout China and Asia.

Our mission statement has been as company advocating "Always Premium Quality", our intent is to provide customers with perfect design, first-class equipment, reliable installation and satisfying service, We take pride in our work and together with our customer we form team effort to provide comfortable, user friendly, energy-saving and Eco-friendly air conditioning systems.





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Applications and operating requirements

RSV-SVAD building application that can be designed engineered, such as closed or open offices, libraries, meeting rooms, exhibition halls, shopping markets, rest rooms, banquet halls etc.

New building construction development benefits:

Provide individual zones with class one temperature control with a lower initial investment.

Upgrading projects:

Upgrade the original air conditioning system without any air duct-work changes, realize individual zone temperature control to a over cooled or heated zone.

Meet specific requirements:

Meet the special temperature control requirement of an air conditioning zone easy and a affordable way. Improve the unsatisfied, uncomfortable, energy wasting areas in an air conditioning system that is existing.

Control Options.

Local Control.

(Stand-alone) Wired wall thermostat or Remote control. W-models require standard thermostat 4 conductor wire connection between terminals. R-Models require batteries for power, and communicate via infrared Master Slave, one master diffuser is installed with a wired daisy chain connection for up to 5 diffusers. Installed with two wire twisted shielded, plenum or non-plenum rated wire. Slaves follow the master diffuser.

RSCWEB-Control

Web control allows you to see the control of the diffusers. WEB control includes a embedded software and therefore connection can be Networked locally, by local land, by other BMS systems, and wireless from your local network. Using the WEB control allows smart phone access control. Diffuser calibration; each diffuser has a range of calibrations settings that are available at the room units, data listed here. Temperature, temperature control range positive and negative span, reheat range setting, damper running distance, damper position min setting, cooling, heating mode change over and Fahrenheit / Celsius selection. See the manual for the settings

Requirement for proper operation or design:

Cooling and heating supply air temperatures:

When operating the RSV-SVAD-series Variable Air Diffusers are designed, the air supply temperature are required as the following: Cooling Supply primary air as low as $10^{\circ}/50F$ and for HC models, cooling supply adjustable and factory set at $20^{\circ}/68F$. Heating supply primary air adjustable and factory set range of $28^{\circ}/83F$ to $49^{\circ}/120F$. HC models change over automatically.

Reheat contacts setting temperature difference range is 3-6C / 6-10F.

Static air pressure range measured at the neck of the diffuser:

SVAD Variable Air Diffusers operate best when the static air pressure at the neck of the diffuser is controlled at the range adjustment from 12Pa/0.05in.wg to 62 Pa/0.25in.wg, to meet adequate design air volumes and to ensure primary a air induction effect in the ports, maintaining precise temperature control accuracy. The maximum static pressure in the neck of the diffuser effects the requirements of the indoor sound standards. Under normal office ambient sound standards (Noise criteria of NC20 to NC35) are designed, the inlet static pressure should be limited to not higher than 70 Pa / 0.28inwg. When constant pressure is maintained, the noise level will decrease gradually as the air volume and pressure decreases (the air damper closing). Selection of room noise (NC) under different inlet static air pressure is as shown in the performance parameter table.

Factory minimum damper position: Settings for heating or cooling set points are $24 \,^{\circ}$ /75F with a minimum 30% damper position. 40% and 50% damper position as optional.



Features of RSV Smart Variable Air Diffuser

Individual Comfort control:

Each engineered RSV Smart Variable Air Diffuser has an adjustable, local sensors for remote or wall mounted thermostat, creating individual zones of comfort. It can not only control the temperature of different rooms, but also can maintain and control the temperature in different areas of the same open space.

Standard room settings 21 $^{\circ}$ \sim 26 $^{\circ}$ \sim 70F \sim 78.5F. Optional 22 $^{\circ}$ \sim 27 $^{\circ}$ \sim 71.5F \sim 80F.

Uncomplicated installations deployment to office layout changes

Systems designed with RSV SVAD have advantages over designed systems with VAV terminals because VADs are more adaptable to office layout changes. No single smart VAD zone is split up when new office walls are put up or moved, a common problem with VAV systems. If it is necessary to move a thermal VAD, it's plug and play are simple to extend low voltage control and easier for remote controlled units. RSV SVAD is in comfort control at all times.

Low energy VAV terminal

Compare with VAV terminals, the smart SVAD systems greatly reduce the total air pressure drop compared to VAV terminals allowing a low pressure designed air duct-work system, less fan motor energy with low energy operation; fan energy is further reduced when the air handlers operate with variable speed drives. Each RSV SVAD offers comfortable individual zone control, no portion of the building zone is overcooled or overheated, thus superior low energy consuming system. Additional benefit, each RSV SVAD is a controlling VAV terminal and the control is stand alone or connect to a BA system. SVAD operate and turn down to work at low static duct pressure of (10 pa/0.04in.w.g).

Class 1 building air distribution

Your system design is your signature, standard fixed opening diffusers designed in a VAV terminal system discharge outlets are fixed, allowing the air velocity to be variable. Variable as a terminal lowers the supply flow. This condition is uncomfortable as low air velocity dumps minimum air into the zone, resulting in cold unmixed air supply. RSV SVAD vary the discharge opening varying air volume, thus maintaining a constant discharge air velocity, increasing better throw, steady comfortable air movement and uniform temperature mixing distribution within the air conditioned space.

Constant mixing operation.

Each diffuser is designed to mix air into room and sense the rooms air temperature. In the diffuser a venturi nozzle is designed to use primary air and vent a small quantity of air at a higher velocity and in turn move air across a channel in the diffusers. Because this air is at a higher velocity the diffuser will pick up room air and mix the primary and throw the air across the diffuser and mix again into the room. Our R-models sensor senses the room temperature for control.

Cost per zone are lower

RSV SVAD installation skills are no different then installing standard diffusers. Lower cost than resetting a VAV terminal controller. In addition, RSV SVAD requires limited wires, no penumatic tubing and no medium air pressure system design that can waste energy, saving material and labor costs, and operating cost.

Precise room temperature control

RSV SVADs modes thermostat controls and actuates by adjusting the dampers to maintain a comfortable room temperature average within 1.5F / 0.9 $^\circ$ C of the temperature selected.

Low maintenance

RSV SVAD once installed requires little maintenance. RSV SVAD requires standard diffuser cleaning intervals. If Step by step instructions for faults a display will show Error codes Check room temperature, change of sensor, communication, actuator, and remote control.

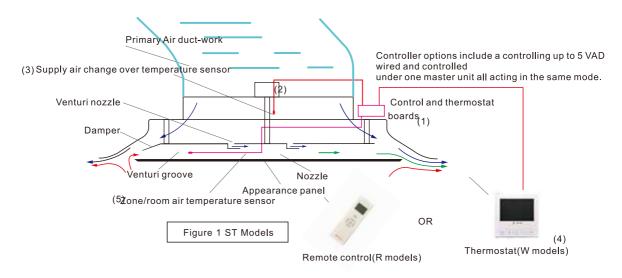
Architecture friendly appearance

Simple and smooth line profile with RSV SVADs are a easily accepted by architects in a layout of ceilings to match different decorations. Standard color (RAL9016) or adapted a different color each appreciated by both architects and interior designers. No wall thermostat is needed.



Smart Variable Air Diffuser Operating Principle RSV-SVAD-ST/STS-E/D- W/R

RSV Smart variable air diffuser control function is to maintain room temperature and constant outlet air velocity. Smart for comfort, smart for energy savings, operated with the following embedded controller and components. Shown in Fig 1, (1) control board, (2) actuator(wide range adjusting step motor), two thermostat control options (W-model) wall-mounted or a (R-models) hand held remote control. The control board compares set-point temperature with room temperature, embedded logic controls the accurate adjustment of the dampers modulated position to maintain the room temperature constantly at set point. This action is within a three minute control response. Two sensors, one (3) primary air supply sensor, and second (4 or 5) room sensor. The (3) primary supply air sensor is a heating and cooling change over sensor. In R model (5) Zone sensor is in the diffuser's sensing room air temperature. In (W) model the temperature (4) sensor is inside. Reheat contacts close after setting is reached in cooling mode.



Diffuser operating locally is easy with two choices (W and R) thermostat types are available in all models. Ordered with (W) option a wall mounted thermostat is included, 4 wire connection is required to connect to (1) the control board terminals. (R-Models) does not require wires and communicates with a infrared receiver (1) in the diffuser. Both (R-W models) require a wired connection of power to the diffuser (1) control panel and your ready to control your comfort temperature.

Both R models and W models have similar displays. Display- mode Cooling / Heating / Auto / off, room set point, room temperature, damper state, damper On- open, damper Off-closed, damper Auto, Error code display. Each (R-W models) have set-point and calibration adjustment features. (R-Models) differences are communication mark and battery levels display. Function settings are transmitted once a setting is changed. R-model (5) room sensor(figure1) is located in venturi air track sensing room temperature in the SR, ST, STS diffusers. Order a (W-model), the unit mounted on the wall, directly wired to the (1) control panel and a remote control is not supplied.

All diffusers have (3) supply air temperature sensor in both models once (Auto) mode is selected the function is to sense and change over the modes between heating and cooling against the set-point.

Auto operation mode (adjustable set-point range cooling(10-18C / heating 24-28C).

(W and R models) operation modes (Cooling/Heating) and (Auto/Cooling/Heating). Setting to cooling or heating will not automatically change over from heating to cooling. Embedded logic in the control board calculates the pulse signal driving a dc step motor and actuator modulating the (SR) damper or (ST) dampers into a comfortable position. Reheat contacts close when the set temperature off-set is reached.All models have open close damper operation settings, Use the local control (W-or-R) and manually adjust operation mode of the damper from Auto / On-(open100%) / Off(closed)". The Variable Air Diffuser is provided with a minimum damper position jumper pin located on the control board, is moved to the set the minimum positions (0%,10%,20%,30%,40%,50%).

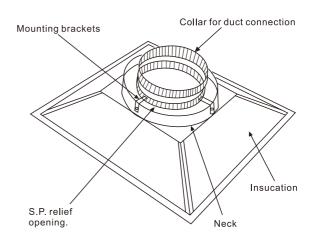
Models with (D) option (Field Modbus 485 control) can be connected to Modbus network controllers or direct to WEB control with a embedded BAS software. Upgrading to WEB control RSC-VAD control system allows a user of the VAD to simply plug and play and the operator can change set points from a workstation or a smart phone. SW model without venturi ports.



Systems pressure control

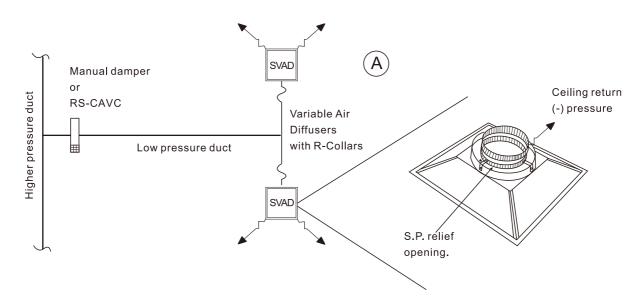
Constant air-volume constant static pressure control.

Installing into a constant air volume low pressure air conditioning system, static pressure control does not require additional control upgrades when no more than 30% the air volume in the total system is applied for use with Variable Air Diffusers operation is adaptable.



A. Return Collars (R-Collars)

The R-collars is a designed inlet collar screw mounted inside the diffuser neck of the collar and is connected to straight length of supply air duct-work. The gap between the inlet collar and the diffuser original collar neck allows air to bypass air into the return (negative pressure) ceiling plenum when the VAD damper closes. Model RC06, RC08, RC10 and RC12. (duct-work is one size less then inlet collar)

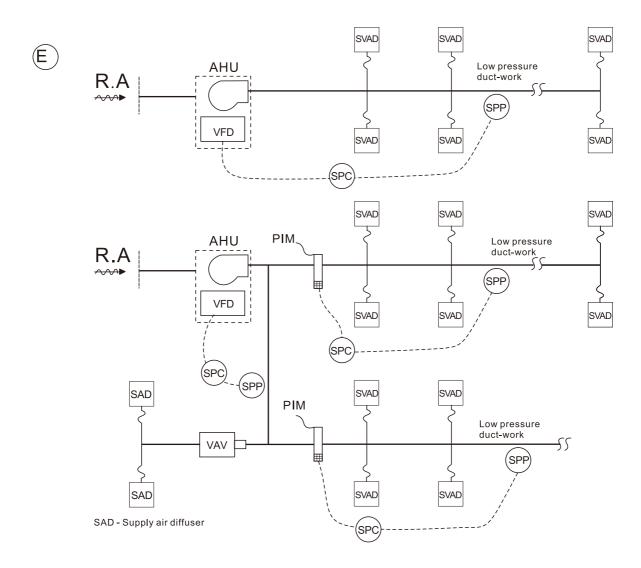


Proper return air design is important to achieve a negative plenum pressure relative to the room. Otherwise the radiant effect of the ceiling and leakage through the ceiling could result in poor control of the room temperature.

R collars can be used when there is a need to supply air to Variable Air Diffuser from a high or medium pressure duct system, note that the branch air duct static pressure must be considered when selecting the R collars for Variable Air Diffuser, to maintain acceptable NC levels. A manual balancing damper should be installed at the takeoff to each Variable Air Diffuser. Use this balancing damper to adjust for designed air flow from the Variable Air Diffuser. This is a pressure dependent system, if pressure in the higher pressure duct changes, flow through the lower pressure duct will change.



Typically in retrofit work, the energy is recorded and results are clearly compared. Operating a new system comparisons will have to be calculated. The comparatively low static pressure of the variable air diffusers, and thus the low pressure system plus energy savings operating a AHU with a VFD fan contributes to the overall beneficial cost savings of a SVAD system.



Design a Air Flow systems that is quiet, efficient and fully operational.

SVAD air flow systems are quiet, when compared to a VAV air terminal system design that when operating has a higher static pressure requirement. The fan in a SVAD system operates at a lower turn down ratio. The system's energy is less. With less static pressure to overcome, the fan operates into the optimum operating range. Lowering the sound power level increasing the efficiency and operational performance.

Comparing a VAV air terminal and SVAD systems and side by side we can realize the energy savings.

Diffuser Energy Savings Example

SVAC	diffuser	VAV terminal			
Pressure loss from the diffuser	0.25wg / 62pa	VAV air terminal Pressure loss required	0.5wg / 124pa		



Optional Accessories, Installation and Warranty

Pressure independence module (PIM)

The range of static pressure control: Down stream (12 ~ 200Pa / 0.05 ~ 0.8inWg)

PIMS Separate and control the higher pressure and lower pressure required for pressure dependent

SVAD operation. There are two options order rectangle or round to match your design requirements.

Advantages include BA and BMS control ready, Control only the PIM or control both PIM and diffusers with.

Return Collars

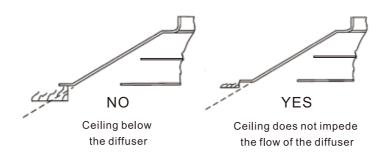
Install a RC into systems with negative pressure ceiling plenum return for best operation.

model: RC 6, 8, 10 and 12

Note: For Variable Air Diffuser attached with Relief Collars, the data of the performance parameter table must be corrected. Please consult RS SVAD dealers for details. Adjust data for throw 90% and NC values add 2dB.

The installation of RS Smart Variable Air Diffuser

When installing diffusers, make sure construction debris does not enter the diffuser or duct system, because the diffusers control room temperature by sensing the room air induced up the center of the room, care should be taken not to disturb room air induction and entrainment. For example, location next to walls or dropped lights results in the reflection of primary air back at the diffuser and should be avoided. A three way blow diffuser should be used in this instance if either the light or the diffuser cannot be relocated.



The installation of RS Smart I Variable Air Diffusers should follow the rule that within edge of the extension line of the diffuser should be no obstacle, otherwise it will reduce or no air flow.

The installation of Return Collars

To insure that the bypass opening around the Return collars is kept open, do not use the external duct insulation or thick duct material like rigid fiberglass within 6 inches of the return collars support. With thick ducts use either a metal extension or a metal elbow.

Warranty period

- ·Manufacturer(Royal Service)warrants that RSV Smart Variable Air Diffusers, exclusive of any Options and accessories shall be free from manufacturer defects for a period of Two years.
- •From the date of shipment, Manufacturer agrees to repair of replace at its option, and parts that fail during said 2 year period due to any such defects which would not have occurred had reasonable care been taken, provided that such parts have been inspected by RS and found defective and provided the diffusers have been normal and usage and all parts and controls remain unaltered. Additional warranty request shall be subject to separate negotiation and endorsement

Freight cost for any shipping to or from the manufacture is not covered.

Freight damage is not covered. Installation and removal of a new or repaired unit is not covered.

Extended warranty is available on project by project bases and is subject to manufactures written approval.



Model Numbering

$$\frac{\mathsf{RSV} - \mathsf{SVAD} - \frac{\mathsf{ST}}{2} - \frac{08}{3} - \frac{\mathsf{E}}{4} - \frac{\mathsf{W}}{5} - \frac{(4)}{6} - \frac{\mathsf{T}}{8} - \frac{(\mathsf{M})}{9} - \frac{(\mathsf{NS})}{10}}{10}$$

Product information description:

1.RSV Smart Variable Air Diffusers

2.Model:

ST: 4 Blade damper and Square diffuser ST 06, 08, 10, 12 Nominal size: 600x600(mm) STS 06 Nominal size: 300x300(mm)

RR: Round damper and Round diffuser

SW: Swirl Diffuser. Square face with Round swirl RW: Swirl Diffuser. Round face with Round swirl

WL: Wall-Mounted Liner diffuser

LL: Linear diffuser

3.Size:

Nominal inlet size(Inches):
Models ST 06, 08, 10, 12
Models STS, 06
Models RR/SW/RW 08, 10, 12
Models LL and WL, 24, 36, 48 Inches
in slots and throw selection 21, 22, 41 and 42

4. Control Mode:

E: Electrical control

D: Modbus net electrical control

5. Thermostat type:

W: Wall-mounted control

R: Remote control

6.Blow patterns(ST, STS only):

4: Four way (Standard)

3: Three way

21: Two way, corner

22: Two way, opposite

7.Air inlet direction: (WL/LL 1-way only)

S: Same side (Default)

O: Opposite side

T: Top side

8.Installation: (ST/STS/SW only)

T: T bar ceiling installation

K: Gusset plate ceiling installation

9.Application:

M: Master (Default)

S: Slave

10.Design:

S: Standard design (Default)

NS: Non-Standard design

Remark:

The model numbering for liner diffuser would be based on blow slots and blowways. Such as model RSV-SVAD-LL-3622,it means the length is 36 inches, 2 slots and 2 blow ways.

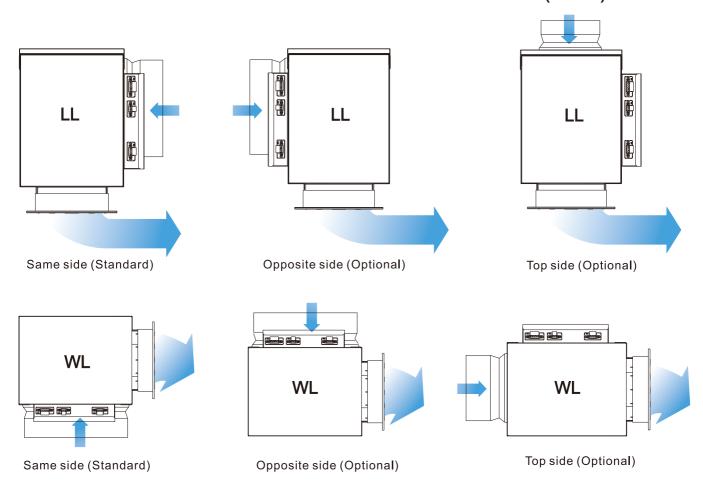




Structure Specifications of RS Smart Variable Air Diffuser

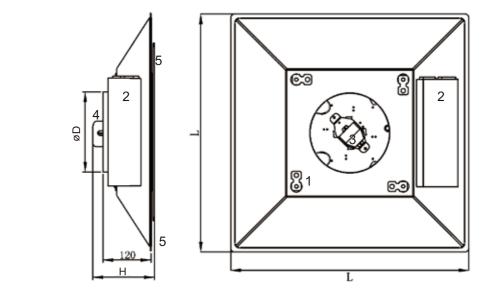
NO.	Construction	Standard	Optional
1	Round Inlet	$\sqrt{}$	
2	Oblong Inlet		$\sqrt{}$
3	Casing	√	
4	External Insulation		√
5	Damper	V	
6	Hangers	V	
7	Control Box	√	
8	Power Board	Not available	
9	UL Power		√
10	Control Board	√	
11	Actuator	V	
12	Thermostat	√	
13	Handheld remote control and receiving control board		V
14	Inlet Direction of RS Linear model (WL & LL)	Same side as supply Air direction	Opposite / Top side as supply Air direction

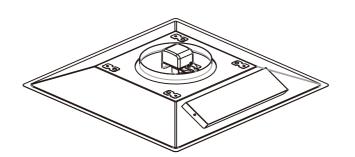
Air inlet Direction of RS Linear Smart Variable Air Diffuser (WL/LL)





Dimensions of RSV-SVAD-ST Smart Variable Air Diffuser

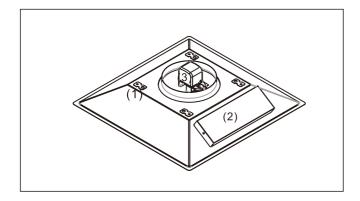




- (1) Hangers use rods or wires.
- (2) Nema1-IP10 control box/ power terminals 220/110 volts or 24 volt power supply / wall unit connection, Modbus connection
- (3) Actuator cover
- (4) Primary air supply sensor
- (5) Face panel holding clip location

		Dimensi	ons				Performance						
Size	Inlet	Inlet size(D)		Face size(L)		Height(H)		Air-Flow Range		Inlet Static Pressure		Max. Throw	
	SI mm IP Inch		SI mm	IP Inch	SI mm	IP Inch	SI m³/h	IP CFM	SI Pa	IP In.wg	SI m	IP Ft.	
RSV-SVAD-ST-06	149	6	595	23 3/8	170	6 3/4	10~605	6~356	10~80	0.04~0.32	3.8	12	
RSV-SVAD-ST-08	200	8	595	23 3/8	170	6 3/4	25~1355	15~798	10~80	0.04~0.32	5.4	18	
RSV-SVAD-ST-10	251	10	595	23 3/8	170	6 3/4	30~1450	18~853	10~80	0.04~0.32	5.6	18	
RSV-SVAD-ST-12	302	12	595	23 3/8	170	6 3/4	35~1565	206~921	10~80	0.04~0.32	5.7	19	

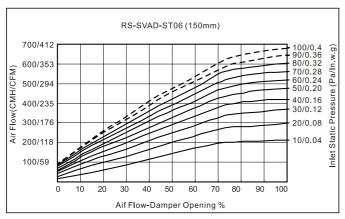
Steel 0.8mm / 22gauge housing and face panel construction. 603mm face panel size as optional.

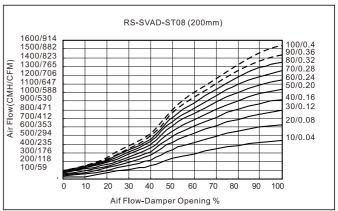


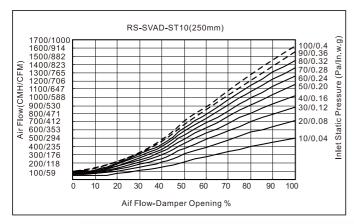


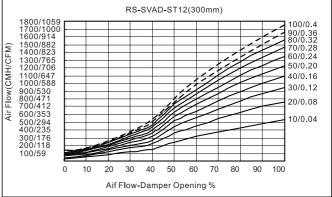


Performance Data Of RSV-SVAD-ST Smart Variable Air Diffuser











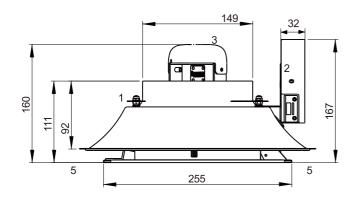


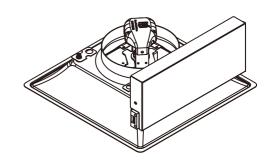
Performance Data of RSV-SVAD-ST Smart Variable Air Diffuser

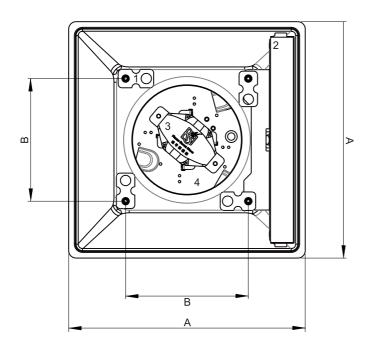
Si	ize.	Inlet Stati	c Pressure	Air I	Flow	Performance at	100% Aif flow	Performance at	25% Aif flow.
1	m. m.	In w.a	D-	CEM	3/15	Air distanc	e (m) @ Vt	Air distanc	e (m) @ Vt
Inches	mm	In.w.g	Pa	CFM	m³/h	0.5m/s	NC	0.5m/s	NC
		0.04	10	124	210	1.4	<15	0.8	<15
		0.08	20	176	300	2	17	1.3	<15
		0.12	30	218	370	2.4	21	1.7	16
	450	0.16	40	247	420	2.6	26	1.8	20
6	150	0.20	50	279	475	2.6	31	2	23
		0.24	60	306	520	2.7	34	2	25
		0.28	70	329	560	2.7	36	2.7	27
		0.32	80	356	605	2.8	37	2.1	29
		0.04	10	262	445	2.2	<15	1.2	<15
		0.08	20	371	630	2.9	16	1.7	<15
		0.12	30	465	790	3.3	18	2.1	16
	000	0.16	40	538	915	3.5	23	2.5	19
8	200	0.20	50	612	1040	3.8	27	2.8	22
		0.24	60	676	1150	4.1	31	3.1	24
		0.28	70	738	1255	4.3	34	3.4	26
		0.32	80	797	1355	4.5	37	3.6	29
		0.04	10	294	500	2.2	<15	1.9	<15
		0.08	20	421	715	2.8	<15	2.3	<15
		0.12	30	518	880	3.3	17	2.7	<15
10	250	0.16	40	603	1025	3.7	22	3.1	17
10	250	0.20	50	676	1150	4	26	3.3	20
		0.24	60	741	1260	4.3	30	3.5	23
		0.28	70	788	1340	4.5	34	3.7	26
		0.32	80	853	1450	4.6	37	3.8	29
		0.04	10	318	540	2.4	<15	1.8	<15
		0.08	20	450	765	3	<15	2.1	<15
		0.12	30	553	940	3.6	16	2.4	<15
10	200	0.16	40	641	1090	4	21	3.1	16
12	300	0.20	50	726	1235	4.2	25	3.3	19
		0.24	60	794	1350	4.3	29	3.4	22
		0.28	70	862	1465	4.5	33	3.5	25
		0.32	80	921	1565	4.7	37	3.6	28



Dimensions of RSV-SVAD-STS Smart Variable Air Diffuser









- (1) Hangers use rods or wires.
- (2) Nema1-IP10 control box/ power terminals 220/110 volts or 24 volt power supply / wall unit connection, Modbus connection
- (3) Actuator cover
- (4) Primary air supply sensor
- (5) Face panel holding clip location`

	Dimensions										
Size	Ф	D	ļ.	4	В						
	SI mm	IP Inches	SI mm	IP Inches	SI mm	IP Inches					
RSV-SVAD-STS-06	150	6	320	12 5/8	166	6 1/2					

Steel 0.8mm / 21gauge housing and face panel.

Available;

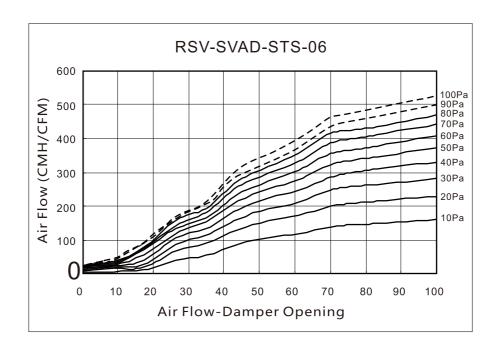
(W-Models) or (R-Models)

Standalone Master or Slave units

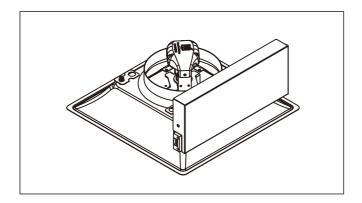




Performance Data of RSV-SVAD-STS Smart Variable Air Diffuser



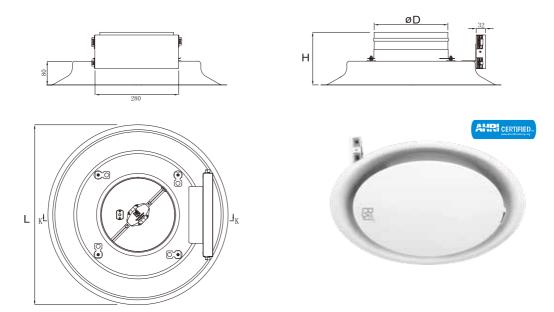
Мо	odel	Inlet statio	pressure	Air	flow	Performance a	t 100% Air flow	Performance a	t 25% Air flow
Inches	mm	In.w.g	Do	CEM	3 (1-	Air distance	e (m) *@Vt	Air distance	e (m) *@Vt
Inches	mm	111.vv.g	Pa	CFM	m³/h	Vt=0.5m/s	NC	Vt=0.5m/s	NC
		0.04	10	94	160	1.6	<15	0.6	<15
		135	230	2	<15	0.8	<15		
		0.12	30	166	282	2.1	17	1.1	15
6	150	0.16	40	195	331	2.4	26	1.2	21
0	150	0.20	50	219	372	2.6	30	1.3	25
		0.24	60	240	408	2.8	32	1.4	28
	0.28 70 276	0.28	70	276	442	3	34	1.5	31
		260	470	3.2	36	1.6	33		







Dimensions of RSV-SVAD-RR Smart Variable Air Diffuser



			Dime	nsions			Performance					
Model	Inlet size(D)		Face size(L)		Height(H)		Air f l ow Range		Inlet Static Pressure		Max. Throw	
	SI mm	IP Inch	SI mm	IP Inch	SImm	IP Inch	SI m³/h	IP CFM	SI Pa	IP In.wg	SI m	IP Ft.
RSV-SVAD-RR-08	200	8	595	23 3/8	175	6 7/8	287~736	169~433	10~70	0.04~0.28	2.55	8.36
RSV-SVAD-RR-10	250	10	595	23 3/8	175	6 7/8	333~889	196~523	10~70	0.04~0.28	2.70	8.86
RSV-SVAD-RR-12	300	12	595	23 3/8	175	6 7/8	412~1057	242~622	10~70	0.04~0.28	2.75	9.02

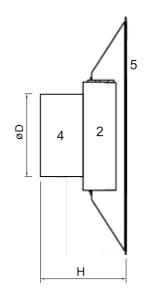
Steel 0.8mm / 22gauge housing and face panel construction. 603mm face panel size as optional.

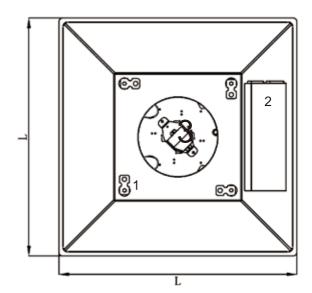
Performance Data of RSV-SVAD-RR Smart Variable Air Diffuser

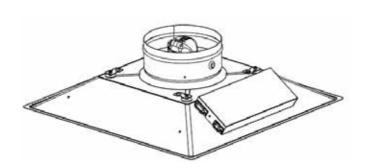
Model		Inlet Stati	c Pressure	Maximu	ım F l ow	Maximum Flow Throw(m)	Noise									
Inches	100.100	la a	De	ofine	3/le	Air distance (m) @ Vt=	Noise									
Inches	mm	ln.w.g.	Pa	cfm	m³/h	0.5m/s	NC									
		0.04	10	169	287	1.35	<15									
		0.08	20	237	403	1.75	<15									
		0.12	30	289	492	1.90	17									
RSV-SVAD-RR-08	200	200	200	200	0.16	40	332	564	2.10	21						
		0.20	50	370	629	2.25	24									
		0.24	60	403	685	2.45	28									
		0.28	70	433	736	2.55	31									
	250	250	0.04	10	196	333	1.35	<15								
			250	0.08	20	279	475	1.70	<15							
				250	250	250	250				0.12	30	341	580	1.95	<15
RSV-SVAD-RR-10								0.16	40	393	668	2.25	18			
		0.20	50	440	748	2.40	23									
					0.24	60	484	823	2.55	26						
								0.28	70	523	889	2.70	30			
		0.04	10	242	412	1.45	<15									
		0.08	20	341	580	1.80	<15									
		0.12	30	419	712	2.15	16									
RSV-SVAD-RR-12	300	0.16	40	481	818	2.40	21									
		0.20	50	536	911	2.55	26									
		0.24	60	581	988	2.60	29									
		0.28	70	622	1057	2.75	32									



Dimensions of RSV-SVAD-SW Smart Variable Air Diffuser



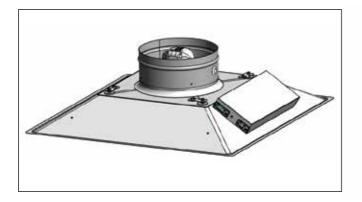




- (1) Hangers use rods or wires.
- (2) Nema1-IP10 control box/ power terminals 220/110 volts or 24 volt power supply / wall unit connection, Modbus connection
- (3) Actuator cover
- (4) Primary air supply sensor
- (5) Swirl face panel holding clip location

			Dimen	sions			Performance					
Model	Inlet s	size(D)	Faces	size(L) Height(H)		ight(H)	Air flow Range		Inlet Static Pressure		Max. Throw	
	SI mm	IP Inch	SI mm	IP Inch	SI mm	IP Inch	SI m³/h	IP CFM	SI Pa	IP In.wg	SI m	IP Ft.
RSV-SVAD-SW-08	200	8	595	23 3/8	175	6 7/8	237~632	139~372	10~70	0.04~0.28	2.05	6.72
RSV-SVAD-SW-10	250	10	595	23 3/8	175	6 7/8	363~980	214~576	10~70	0.04~0.28	2.25	7.38
RSV-SVAD-SW-12	300	12	595	23 3/8	175	6 7/8	387~1023	228~602	10~70	0.04~0.28	2.40	7.87

Steel 0.8mm / 22gauge housing and face panel construction. 603mm face panel size as optional.

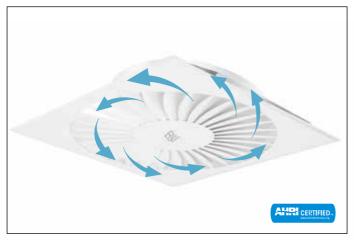






Performance Data of RSV-SVAD-SW Smart Variable Air Diffuser

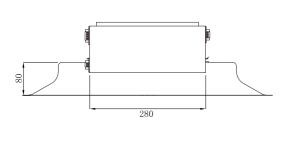
Model		Inlet Static	Pressure	Maximur	m Flow	Maximum Flow Throw(m)	Nicha				
Inches	mm	ln w a	Pa	CFM	3.0	Air distance (m) @ Vt=	Noise				
inches	mm	ln.w.g	Ра	CFIVI	m³/h	0.5m/s	NC				
		0.04	10	139	237	0.55	22				
		0.08	20	196	333	1.15	24				
	200	0.12	30	239	406	1.25	26				
RSV-SVAD-SW-08		200	0.16	40	281	477	1.40	31			
		0.20	50	311	529	1.55	34				
		0.24	60	342	582	1.85	36				
		0.28	70	372	632	2.05	37				
	250		0.04	10	214	363	0.95	21			
		0.08	20	304	517	1.20	24				
		250				0.12	30	369	628	1.45	27
RSV-SVAD-SW-10			0.16	40	429	730	1.70	32			
		0.20	50	485	825	1.85	36				
						0.24	60	530	901	1.95	38
		0.28	70	576	980	2.25	39				
		0.04	10	228	387	0.55	23				
		0.08	20	324	550	1.15	25				
		0.12	30	397	674	1.60	29				
RSV-SVAD-SW-12	300	0.16	40	453	770	2.05	32				
		0.20	50	511	869	2.25	37				
		0.24	60	558	949	2.25	40				
		0.28	70	602	1023	2.40	42				

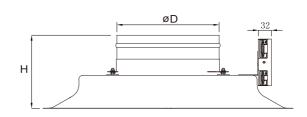


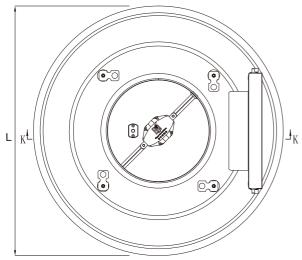


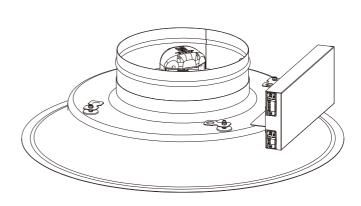


Dimensions of RSV-SVAD-RW Smart Variable Air Diffuser



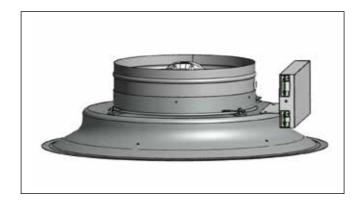






			Dime	nsions			Performance					
Model	Inlet size(D) Face		Face	size(L) Height(H		ht(H)	Air flow Range		Inlet Static Pressure		Max. Throw	
	SI mm	IP Inch	SI mm	IP Inch	SI mm	IP Inch	SI m³/h	IP CFM	SI Pa	IP In.wg	SI m	IP Ft.
RSV-SVAD-RW-08	200	8	595	23 3/8	175	6 7/8	283~773	166~455	10~70	0.04~0.28	2.20	7.22
RSV-SVAD-RW-10	250	10	595	23 3/8	175	6 7/8	378~1020	222~600	10~70	0.04~0.28	2.50	8.21
RSV-SVAD-RW-12	300	12	595	23 3/8	175	6 7/8	395~1035	232~609	10~70	0.04~0.28	2.75	9.02

Steel 0.8mm / 22gauge housing and face panel construction. 603mm face panel size as optional.



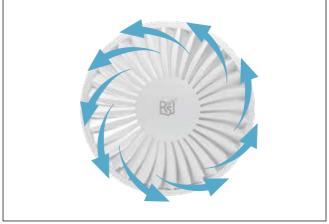




Performance Data Of RSV-SVAD-RW Smart Variable Air Diffuser

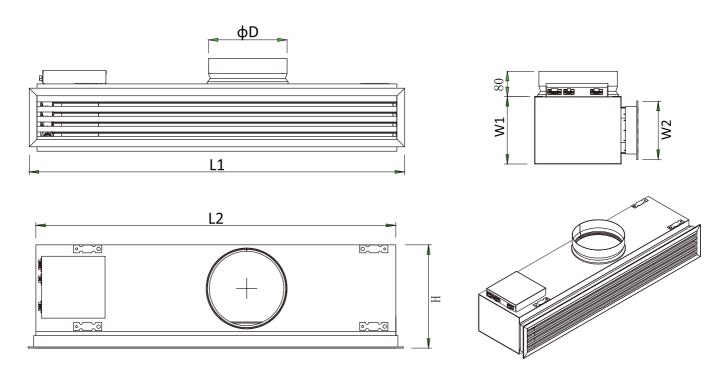
Model		Inlet Stati	c Pressure	Maximu	ım Flow	Maximum Flow Throw(m)	Noise
Inches		la a	Pa	CFM	3.0	Air distance (m) @ Vt=	
Inches	mm	In.w.g	Ра	CFM	m³/h	0.5m/s	NC
		0.04	10	166	283	0.65	22
		0.08	20	235	400	1.30	24
		0.12	30	289	491	1.40	26
RSV-SVAD-RW-08	200	0.16	40	336	571	1.55	31
		0.20	50	379	645	1.75	34
		0.24	60	418	711	2.05	36
		0.28	70	455	773	2.30	38
		0.04	10	222	378	1.05	21
		0.08	20	314	534	1.35	24
		0.12	30	385	654	1.65	27
RSV-SVAD-RW-10	250	0.16	40	447	760	1.90	32
		0.20	50	501	852	2.05	36
		0.24	60	555	943	2.15	38
		0.28	70	600	1020	2.35	39
		0.04	10	232	395	0.95	23
		0.08	20	326	554	1.25	25
		0.12	30	400	680	1.80	29
RSV-SVAD-RW-12	300	0.16	40	462	786	2.30	32
		0.20	50	516	877	2.50	37
		0.24	60	565	961	2.60	40
		0.28	70	609	1035	2.65	42



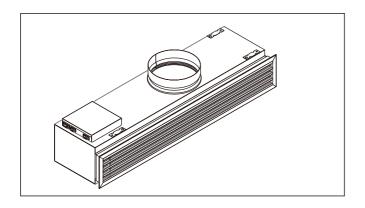




Dimensions of RSV-SVAD-WL Smart Variable Air Diffuser



						Dime	ensions					
Model	L	1	L	_2	ı	D	W1		W2		Н	
	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch
RSV-SVAD-WL-2421	597	23 1/2	548	21 5/8	149	6						
RSV-SVAD-WL-3621	897	35 3/8	848	33 3/8	149	0	150	6	124	4 7/8		
RSV-SVAD-WL-4821	1197	47 1/8	1148	45 1/4	200	8						
RSV-SVAD-WL-2431	597	23 1/2	548	21 5/8	149	6						
RSV-SVAD-WL-3631	897	35 3/8	848	33 3/8	143		182	7	156	6 1/8	330	13
RSV-SVAD-WL-4831	1197	47 1/8	1148	45 1/4	200	8						
RSV-SVAD-WL-2441	597	23 1/2	548	21 5/8	200	8						
RSV-SVAD-WL-3641	897	35 3/8	848	33 3/8	200		215	8 1/2	188	7 3/8		
RSV-SVAD-WL-4841	1197	47 1/8	1148	45 1/4	250	10						







Performance Data Of RSV-SVAD-WL Smart Variable Air Diffuser (2 Slot 1 Way)

Model	Inlet Statio	Pressure	Air I	Flow	Performance at 100%	6 Aif flow	Performance at 25%	Aif flow
Inches	ln w a	Do	CFM	30-	Air Throw (m) @ Vt=	NC	Air Throw (m) @ Vt=	NC
inches	ln.w.g	Pa	CFIVI	m³/h	0.5m/s	NC	0.5m/s	NC
	0.04	10	79	134	2.0	16	1.0	<15
	0.08	20	108	184	2.7	19	1.4	<15
	0.12	30	135	230	3.3	22	1.7	15
RSV-SVAD-WL-2421	0.16	40	158	268	3.8	24	2.0	16
	0.20	50	175	297	4.2	27	2.3	17
	0.24	60	193	328	4.6	31	2.5	19
	0.28	70	208	354	5.0	36	2.7	21
	0.04	10	112	190	1.8	<15	0.9	<15
	0.08	20	158	269	2.5	17	1.3	<15
	0.12	30	196	334	3.1	20	1.6	<15
RSV-SVAD-WL-3621	0.16	40	225	383	3.6	23	1.9	16
	0.20	50	253	430	4.0	26	2.1	17
	0.24	60	277	471	4.4	30	2.3	18
	0.28	70	304	516	4.8	35	2.5	20
	0.04	10	180	306	2.0	16	1.0	<15
	0.08	20	254	431	2.8	20	1.5	<15
	0.12	30	316	538	3.4	23	1.8	16
RSV-SVAD-WL-4821	0.16	40	358	609	3.9	25	2.1	17
	0.20	50	397	675	4.3	28	2.3	18
	0.24	60	441	749	4.7	32	2.6	20
	0.28	70	476	810	5.1	37	2.8	22



Performance Data Of RSV-SVAD-WL Smart Variable Air Diffuser (3 Slot 1 Way)

Model	Inlet Statio	c Pressure	Air F	Flow	Performance at 100%	6 Aif flow	Performance at 25%	Aif flow
Inches	ln w a	Do	CFM	3//-	Air Throw (m) @ Vt=	NC	Air Throw (m) @ Vt=	NC
inches	ln.w.g	Pa	CFIVI	m³/h	0.5m/s	NC	0.5m/s	NC
	0.04	10	100	170	1.7	<15	0.8	<15
	0.08	20	141	240	2.4	17	1.3	<15
	0.12	30	172	293	3.0	20	1.6	<15
RSV-SVAD-WL-2431	0.16	40	199	338	3.5	23	1.9	16
	0.20	50	221	376	3.9	26	2.2	17
	0.24	60	242	412	4.3	30	2.4	18
	0.28	70	264	449	4.6	35	2.6	20
	0.04	10	180	306	1.8	15	0.9	<15
	0.08	20	255	433	2.6	18	1.4	<15
	0.12	30	316	538	3.2	21	1.7	<15
RSV-SVAD-WL-3631	0.16	40	358	608	3.6	24	2.0	16
	0.20	50	394	670	4.1	27	2.2	17
	0.24	60	441	750	4.5	31	2.5	19
	0.28	70	475	808	4.9	36	2.7	21
	0.04	10	231	392	1.8	15	0.9	<15
	0.08	20	335	569	2.6	18	1.4	<15
	0.12	30	410	697	3.1	21	1.7	<15
RSV-SVAD-WL-4831	0.16	40	476	809	3.6	24	2.0	16
	0.20	50	534	908	4.1	27	2.3	17
	0.24	60	584	993	4.5	31	2.5	19
	0.28	70	628	1067	4.8	36	2.7	21

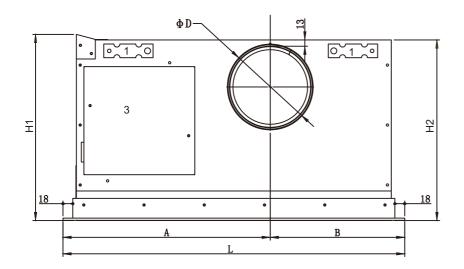


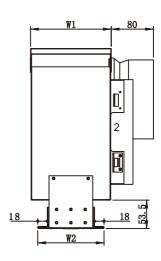
Performance Data Of RSV-SVAD-WL Smart Variable Air Diffuser (4 Slot 1 Way)

Model	Inlet Station	c Pressure	Air	Flow	Performance at 100%	6 Aif flow	Performance at 25%	Aif flow
Inches	laa	D-	OFM	3.0	Air Throw (m) @ Vt=	NO	Air Throw (m) @ Vt=	NO
inches	ln.w.g	Pa	CFM	m³/h	0.5m/s	NC	0.5m/s	NC
	0.04	10	162	275	2.0	16	1.0	<15
	0.08	20	213	362	2.7	19	1.4	<15
	0.12	30	263	447	3.3	22	1.7	15
RSV-SVAD-WL-2441	0.16	40	307	522	3.8	24	2.0	16
	0.20	50	339	576	4.2	27	2.3	17
	0.24	60	372	633	4.6	31	2.5	19
	0.28	70	403	685	5.0	36	2.7	21
	0.04	10	206	350	1.7	<15	0.8	<15
	0.08	20	290	493	2.4	17	1.2	<15
	0.12	30	356	606	2.9	19	1.4	<15
RSV-SVAD-WL-3641	0.16	40	414	704	3.4	22	1.7	16
	0.20	50	462	785	3.8	25	1.9	17
	0.24	60	502	853	4.1	29	2.1	18
	0.28	70	547	930	4.5	34	2.3	19
	0.04	10	338	575	2.0	16	1.0	<15
	0.08	20	471	801	2.6	19	1.4	<15
	0.12	30	570	969	3.2	22	1.6	15
RSV-SVAD-WL-4841	0.16	40	655	1113	3.7	25	2.1	16
	0.20	50	732	1244	4.1	28	2.3	17
	0.24	60	806	1371	4.6	32	2.5	20
	0.28	70	869	1478	5.0	37	2.7	22



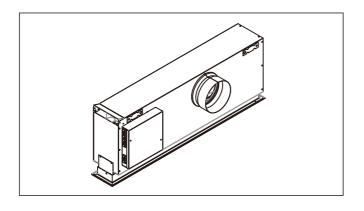
Dimensions of RSV-SVAD-LL Smart Variable Air Diffuser





- (1) Hangers for rods or wires
- (2) Control terminals 220 / 24 / Modbus / wall thermostat / master slave terminals
- (3) Nema 1 control cover

		Dimensions													
Model		L		Α		В		D	,	W1		W2	H1	H2	
	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	mm	
RSV-SVAD-LL-2421/2422	597	23 1/2"	382	15 1/16"	221	8 11/16"	450	F 7/0"							
RSV-SVAD-LL-3621/3622	897	35 3/8"	535	21 1/16"	373	14 11/16"	150	5 7/8"	150	6"	124	4 7/8"			
RSV-SVAD-LL-4821/4822	1197	47 1/8"	713	28 1/16"	500	19 11/16"	200	7 7/8"					340	330	
RSV-SVAD-LL-2441/2442	597	23 1/2"	382	15 1/16"	221	8 11/16"	000	7 7/0"							
RSV-SVAD-LL-3641/3642	897	35 3/8"	535	21 1/16"	373	14 11/16"	200	7 7/8"	215	8 1/2"	188	7 3/8"			
RSV-SVAD-LL-4841/4842	1197	47 1/8"	713	28 1/16"	500	19 11/16"	251	10"					400	390	







Performance Data of RSV-SVAD-LL Smart Variable Air Diffuser (2 Slot 1 Way)

Model	Inlet Static	Pressure	Air	Flow	Performance a	at 100% Aif flow	Performance	at 25% Aif flow
Inches	In w a	Do	CEM	CFM m³/h	Air distan	ce (m) @ Vt	Air distance (m) @ Vt	
Inches	ln.w.g	Pa	CFM	111711	0.5m/s	NC	0.5m/s	NC
	0.05	12.5	65	111	1.22	<15	0.91	<15
	0.10	25	90	153	2.13	20	1.22	19
RSV-SVAD-LL-2421	0.15	37.5	110	187	3.35	25	1.83	24
	0.20	50	130	221	3.96	29	2.13	28
	0.25	62.5	145	247	4.27	32	2.74	31

Model	Inlet Static	Pressure	Air	Flow	Performance a	at 100% Aif flow	Performance	at 25% Aif flow
Inches	Inches In.w.g Pa		OEM.	m³/h	Air distan	ce (m) @ Vt	Air distance (m) @ Vt	
Inches	in.w.g	Pa	CFM	m /n	0.5m/s	NC	0.5m/s	NC
	0.05	12.5	85	145	0.91	16		15
	0.10	25	120	204	2.13	23	1.22	22
RSV-SVAD-LL-3621	0.15	37.5	145	247	3.05	26	1.83	25
	0.20	50	165	281	3.66	30	2.13	29
	0.25	62.5	180	306	4.27	33	2.74	32

Model	Inlet Static Pressure		Air Flow		Performance at 100% Aif flow		Performance	at 25% Aif flow
In wa		In w a		m³/h	Air distan	ce (m) @ Vt	Air distance (m) @ Vt	
Inches	In.w.g	Pa	CFM	111711	0.5m/s	NC	0.5m/s	NC
	0.05	12.5	150	255	1.83	17	1.22	<15
	0.10	25	200	340	3.96	24	1.83	20
RSV-SVAD-LL-4821	0.15	37.5	240	408	5.18	30	2.74	26
	0.20	50	280	476	5.49	32	3.35	28
	0.25	62.5	310	527	5.79	35	3.66	31



Performance Data of RSV-SVAD-LL Smart Variable Air Diffuser (2 Slot 2 Way)

Model	Inlet Static	Pressure	Air	Flow	Performance a	at 100% Aif flow	Performance	at 25% Aif flow
Inches	In.w.g	D.	CEM	m³/h	Air distance (m) @ Vt		Air distance (m) @ Vt	
Inches	in.w.g	Pa	CFM	111711	0.5m/s	NC	0.5m/s	NC
	0.05	12.5	70	119	0.91	<15		<15
	0.10	25	90	153	1.22	<15	0.91	<15
RSV-SVAD-LL-2422	0.15	37.5	120	204	2.13	21	1.22	16
	0.20	50	145	247	2.44	25	1.52	20
	0.25	62.5	165	281	3.05	30	1.83	23

Model	Inlet Static	Pressure	Air	Flow	Performance at 100% Aif flow		Performance	at 25% Aif flow
la ala a a	In w.g. Do		CEM	m³/h	Air distan	ce (m) @ Vt	Air distance (m) @ Vt	
Inches	In.w.g	Pa	CFM	min	0.5m/s	NC	0.5m/s	NC
	0.05	12.5	80	136	0.91	<15		<15
	0.10	25	115	196	1.52	16	0.91	<15
RSV-SVAD-LL-3622	0.15	37.5	150	255	2.13	23	1.22	16
	0.20	50	170	289	2.74	28	1.52	19
	0.25	62.5	185	315	3.05	32	1.83	22

Model	Inlet Static	Pressure	Air Flow		Performance a	at 100% Aif flow	Performance at 25% Aif flow		
la de e	In w a Do		OFM	3.0-	Air distance (m) @ Vt		Air distance (m) @ Vt		
Inches	In.w.g	Pa	CFM	m³/h	0.5m/s	NC	0.5m/s	NC	
	0.05	12.5	150	255	1,52	<15	0.91	<15	
	0.10	25	200	340	2.74	20	1.22	<15	
RSV-SVAD-LL-4822	0.15	37.5	240	408	3.35	25	1.83	<15	
	0.20	50	280	476	4.27	29	2.13	17	
	0.25	62.5	310	527	4.57	33	2.74	20	



Performance Data of RSV-SVAD-LL Smart Variable Air Diffuser (4 Slot 1 Way)

Model	Inlet Static Pressure		Air Flow		Performance at 100% Aif flow		Performance at 25% Aif flow	
Inches		_	CFM	m³/h	Air distance (m) @ Vt		Air distance (m) @ Vt	
	In.w.g	Pa			0.5m/s	NC	0.5m/s	NC
	0.05	12.5	150	255	1.52	<15	0.91	<15
RSV-SVAD-LL-2441	0.10	25	210	357	3.05	26	1.83	24
	0.15	37.5	260	442	4.57	28	2.44	26
	0.20	50	300	510	4.88	33	2.74	31
	0.25	62.5	335	570	5.49	36	3.05	34

Model	Inlet Static Pressure		Air Flow		Performance at 100% Aif flow		Performance at 25% Aif flow	
Inches	_	Pa	CFM	m³/h	Air distance (m) @ Vt		Air distance (m) @ Vt	
	In.w.g				0.5m/s	NC	0.5m/s	NC
	0.05	12.5	180	306	1.52	<15	0.91	<15
	0.10	25	250	425	3.66	26	1.83	24
RSV-SVAD-LL-3641	0.15	37.5	310	527	4.27	30	2.44	28
	0.20	50	360	612	5.49	34	3.05	32
	0.25	62.5	400	680	5.79	37	3.66	35

Model	Inlet Static Pressure		Air Flow		Performance at 100% Aif flow		Performance at 25% Aif flow	
Inches	_	Pa	CFM	m³/h	Air distance (m) @ Vt		Air distance (m) @ Vt	
	In.w.g				0.5m/s	NC	0.5m/s	NC
RSV-SVAD-LL-4841	0.05	12.5	315	536	3.96	<15	2.13	<15
	0.10	25	445	757	5.18	28	2.44	26
	0.15	37.5	545	927	7.01	34	3.05	32
	0.20	50	630	1071	8.84	38	4.57	36
	0.25	62.5	700	1190	9.76	42	5.49	39



Performance Data of RSV-SVAD-LL Smart Variable Air Diffuser (4 Slot 2 Way)

Model	Inlet Static Pressure		Air Flow		Performance at 100% Aif flow		Performance at 25% Aif flow	
Inches In.w.g		Ра	CFM	3.0	Air distance (m) @ Vt		Air distance (m) @ Vt	
	In.w.g			m³/h	0.5m/s	NC	0.5m/s	NC
RSV-SVAD-LL-2442	0.05	12.5	150	255	0.91	<15	0.61	<15
	0.10	25	210	357	1.52	23	0.91	22
	0.15	37.5	260	442	2.13	26	1.22	25
	0.20	50	300	510	2.74	30	1.52	29
	0.25	62.5	335	570	3.35	33	1.83	32

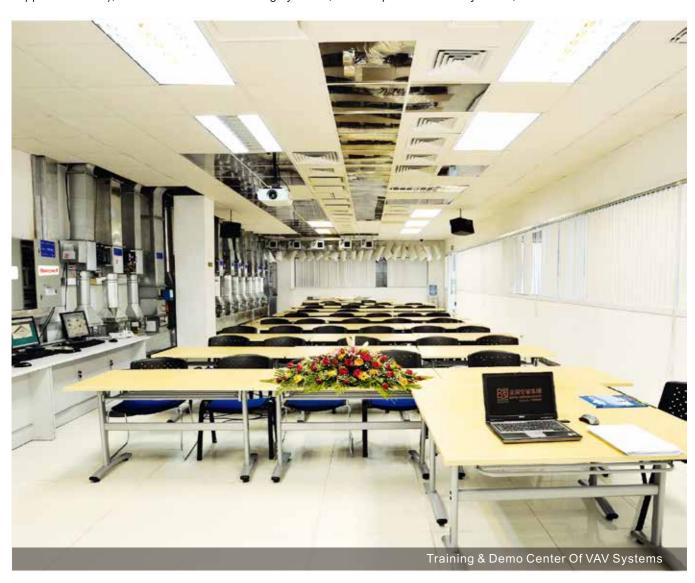
Model	Inlet Static Pressure		Air Flow		Performance at 100% Aif flow		Performance at 25% Aif flow	
Inches In.w.g		Pa	CFM	m³/h	Air distance (m) @ Vt		Air distance (m) @ Vt	
	In.w.g				0.5m/s	NC	0.5m/s	NC
RSV-SVAD-LL-3642	0.05	12.5	185	315	1.22	<15	0.61	<15
	0.10	25	260	442	1.83	23	1.22	22
	0.15	37.5	320	544	2.44	27	1.52	26
	0.20	50	370	629	3.05	31	1.83	30
	0.25	62.5	410	697	3.66	34	2.13	33

Model	Inlet Static Pressure		Air Flow		Performance at 100% Aif flow		Performance at 25% Aif flow	
Inches In.w.g		_	CFM	m³/h	Air distance (m) @ Vt		Air distance (m) @ Vt	
	In.w.g	Ра			0.5m/s	NC	0.5m/s	NC
RSV-SVAD-LL-4842	0.05	12.5	275	468	2.13	<15	1.22	<15
	0.10	25	390	663	2.74	25	2.13	24
	0.15	37.5	480	816	3.66	32	3.05	31
	0.20	50	550	935	4.27	37	3.66	36
	0.25	62.5	620	1054	5.18	39	4.27	38



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