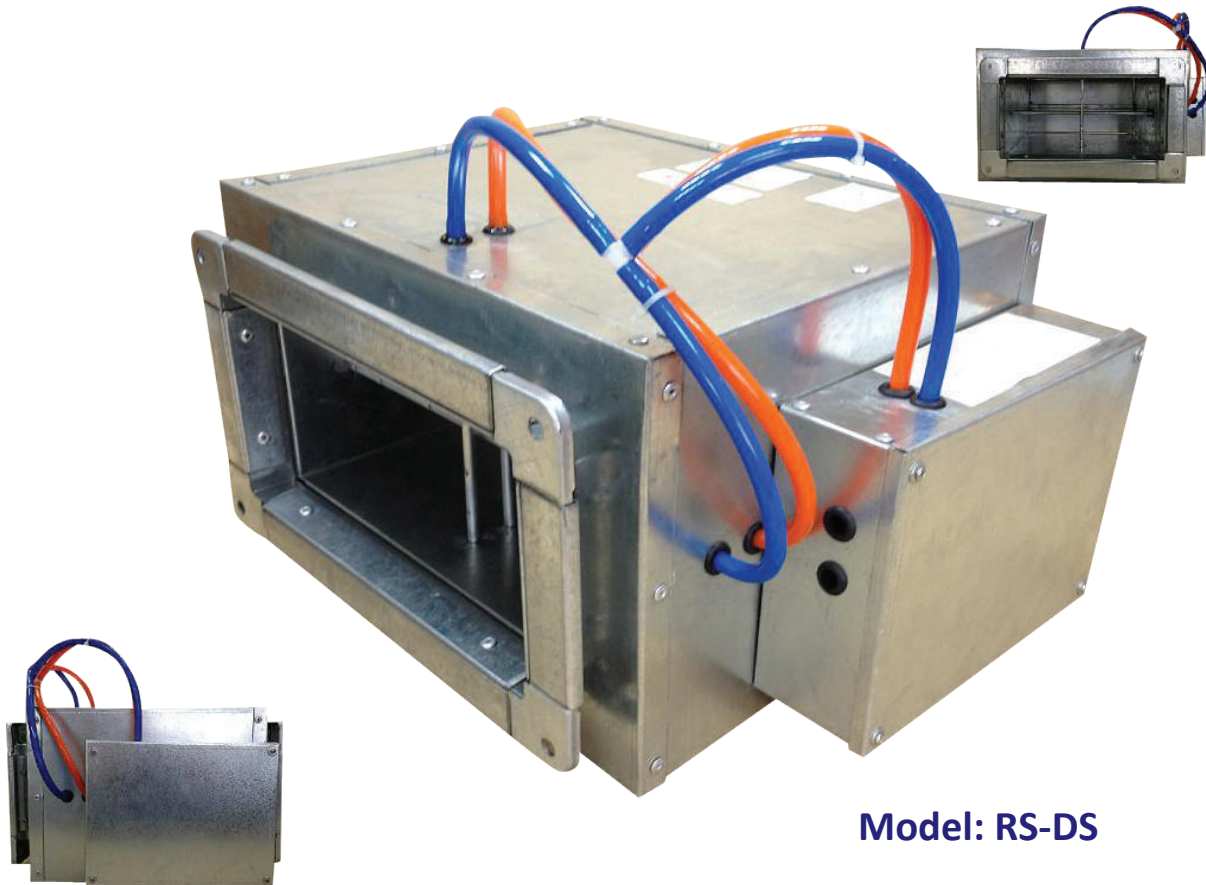




## SINGLE BLADE Rectangular-To-Rectangular Single Duct Variable Air Volume Terminal – Models RS and RS-DS



Model: RS-DS

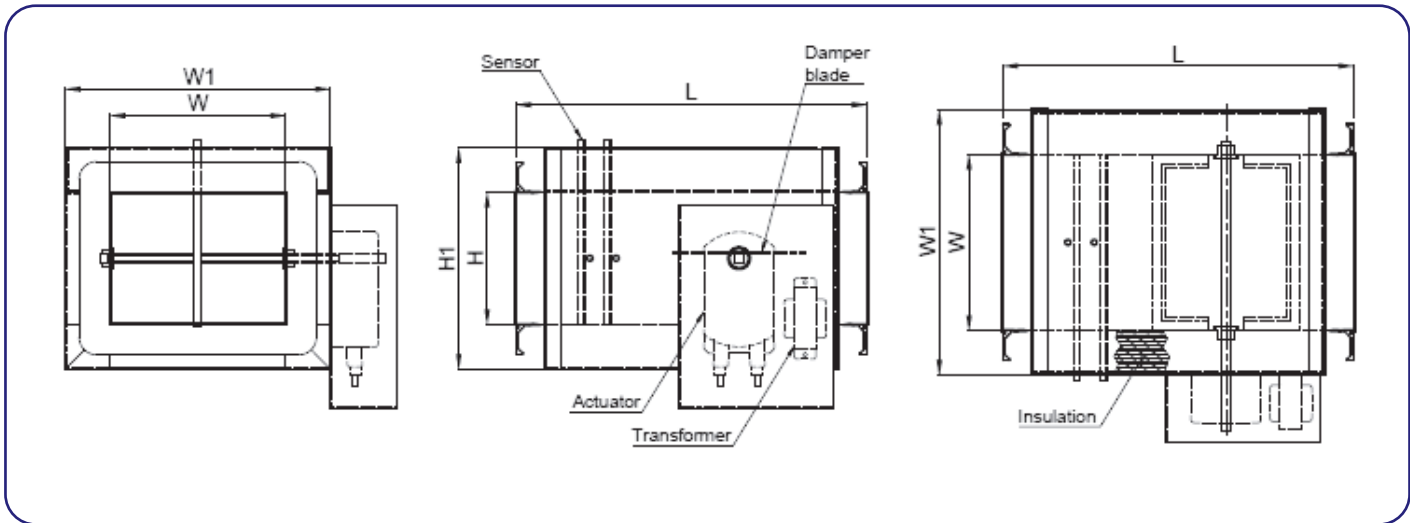
### Description:

- Model RS is a Single-blade air terminal with Rectangular inlet and outlet.
- Casing is made of 0.9mm & damper blade is made of 1.2mm; galvanized steel sheet.
- Blades are with rubber gasket, and self-lubricating plastic bushes.
- Damper shaft is made of solid square ½X½ inch G.I.
- Equipped with a multi-point flow-cross inlet flow sensor made of Aluminum.
- Air tightness complies with DIN 1946 Part 4. Housing leakage complies with Class II, VDI 3803 – DIN 24194.
- Model RS-DS has Double-Skin casing with 1" insulation made of strong resilient dual density glass fibers 24kg/m<sup>3</sup> that conform to NFPA-90A & 255, UL 181 and ASTM C665.





## SINGLE BLADE Rectangular-To-Rectangular Single Duct Variable Air Volume Terminal – Models RS and RS-DS



H=150 mm L=400 mm		H1-250mm		
W (mm)	W1 (mm)	A (m <sup>2</sup> )	F <sub>min</sub> (m3/h)	F <sub>max(NOM)</sub> (m3/h)
200	300	0.03	162	1080
250	350	0.04	203	1350
300	400	0.05	243	1620
350	450	0.05	284	1890
400	500	0.06	324	2160
450	550	0.07	365	2430
500	600	0.08	405	2700
600	700	0.09	510	3240
700	800	0.11	567	3780
800	900	0.12	648	4320
900	1000	0.14	729	4860
1000	1100	0.15	810	5400
1100	1200	0.17	892	5940
1200	1300	0.18	972	6480

H=200 mm L=460 mm		H1-250mm		
W (mm)	W1 (mm)	A (m <sup>2</sup> )	F <sub>min</sub> (m3/h)	F <sub>max(NOM)</sub> (m3/h)
200	300	0.04	216	1440
250	350	0.05	270	1800
300	400	0.06	324	2160
350	450	0.07	378	2520
400	500	0.08	432	2880
450	550	0.09	486	3240
500	600	0.1	540	3600
600	700	0.12	648	4320
700	800	0.14	756	5040
800	900	0.16	864	5760
900	1000	0.18	972	6480
1000	1100	0.20	1080	7200
1100	1200	0.22	1188	7920
1200	1300	0.24	1296	8640

H=250 mm L=500 mm		H1-350mm		
W (mm)	W1 (mm)	A (m <sup>2</sup> )	F <sub>min</sub> (m3/h)	F <sub>max(NOM)</sub> (m3/h)
200	300	0.05	338	2250
300	400	0.08	405	2700
350	450	0.09	473	3150
400	500	0.10	540	3600
450	550	0.11	608	4050
500	600	0.13	675	4500
600	700	0.15	810	5400
700	800	0.18	945	6300
800	900	0.20	1080	7200
900	1000	0.23	1215	8100
1000	1100	0.25	1350	9000
1100	1200	0.28	1485	9900
1200	1300	0.30	1620	10800

H=300 mm L=560 mm		H1-400mm		
W (mm)	W1 (mm)	A (m <sup>2</sup> )	F <sub>min</sub> (m3/h)	F <sub>max(NOM)</sub> (m3/h)
300	400	0.09	486	3240
350	450	0.11	567	3780
400	500	0.12	648	4220
450	550	0.14	729	4860
500	600	0.15	810	5400
600	700	0.18	972	6480
700	800	0.21	1134	7560
800	900	0.24	1269	8640
900	1000	0.27	1458	9720
1000	1100	0.30	1620	10800
1100	1200	0.33	1782	11880
1200	1300	0.36	1944	12960





## SINGLE BLADE Rectangular-To-Rectangular Single Duct Variable Air Volume Terminal – Model RS and RS-DS

### DISCHARGE SOUND:

W mm	H mm	AREA m <sup>2</sup>	AIR VELOCITY m/s	Δ P in Pa		
				200 dB(A)	500 dB(A)	1000 dB(A)
600	150	0.09	2	52	61	68
			6	55	65	72
			8	56	66	73
			10	57	67	74
600	200	0.12	2	53	62	69
			6	56	66	73
			8	57	67	74
			10	58	68	75
600	250	0.15	2	53	63	70
			6	56	67	74
			8	57	68	75
			10	58	69	76
600	300	0.18	2	54	64	71
			6	57	67	74
			8	59	69	76
			10	60	70	77

Correction factor "C" to be added for Discharge Sound of other widths:

W mm	C
200	3
250	3
300	2
350	2
400	1
450	1
500	1
600	0
700	0
800	-1
900	-1
1000	-2
1100	-3
1200	-3

### RADIATED SOUND:

W mm	H mm	AREA m <sup>2</sup>	AIR VELOCIT Y m/s	Δ P					
				200 Pa		500 Pa		1000 Pa	
				RS dB(A)	RS-DS dB(A)	RS dB(A)	RS-DS dB(A)	RS dB(A)	RS-DS dB(A)
600	150	0.09	2	38	25	46	34	52	40
			6	45	33	53	41	60	48
			8	47	35	57	45	63	51
			10	51	39	59	47	65	53
600	200	0.12	2	41	29	49	37	55	43
			6	50	38	58	46	63	51
			8	52	40	60	48	66	54
			10	54	42	62	50	68	56
600	250	0.15	2	42	30	50	38	56	44
			6	51	39	59	47	64	52
			8	53	41	61	49	67	55
			10	55	43	63	51	69	57
600	300	0.18	2	43	31	51	39	57	45
			6	51	39	59	47	65	53
			8	54	42	62	50	68	56
			10	56	44	64	52	70	58

Correction factor "C" to be added for Radiated Sound of other widths:

W mm	C
200	3
250	2
300	2
350	2
400	1
450	1
500	1
600	0
700	0
800	-1
900	-1
1000	-2
1100	-2
1200	-2





# SINGLE BLADE Rectangular-To-Rectangular Single Duct Variable Air Volume Terminal – Model RS and RS-DS



## ORDERING KEY

R	S	D	S	B	O	O	X	I	S	O	L	B	S	T	
RETANGULAR SINGLE-BLADE PRESSURE INDEPENDENT SINGLE DUCT VAV BOX															
---: WITHOUT INSULATION (STANDARD)															
DS: INSULATION CONTAINED IN DOUBLE SKIN															
SIZE: WIDTH X HEIGHT															
L: CONTROL BOX AT LEFT SIDE OF VAV BOX (STANDARD)															
R: CONTROL BOX AT RIGHT SIDE OF VAV BOX															
ACTUATOR:															
B: BELIMO		J: JOHNSON													
G: GRUNER		S: SIEMENS													
H: HONEYWELL		O: OTHERS													
W: WITHOUT ACTUATOR															
THERMOSTAT:															
A: ACSYS		J: JOHNSON													
B: BELIMO		S: SIEMENS													
H: HONEYWELL		T: TITAN													
O: OTHERS		W: WITHOUT THERMOSTAT													
T: WITH TRANSFORMER															
---: WITHOUT TRANSFORMER															

