

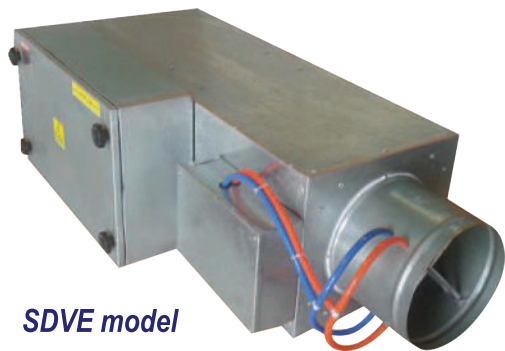


PRESSURE INDEPENDENT SINGLE DUCT VAV - SDV/SDVE MODELS

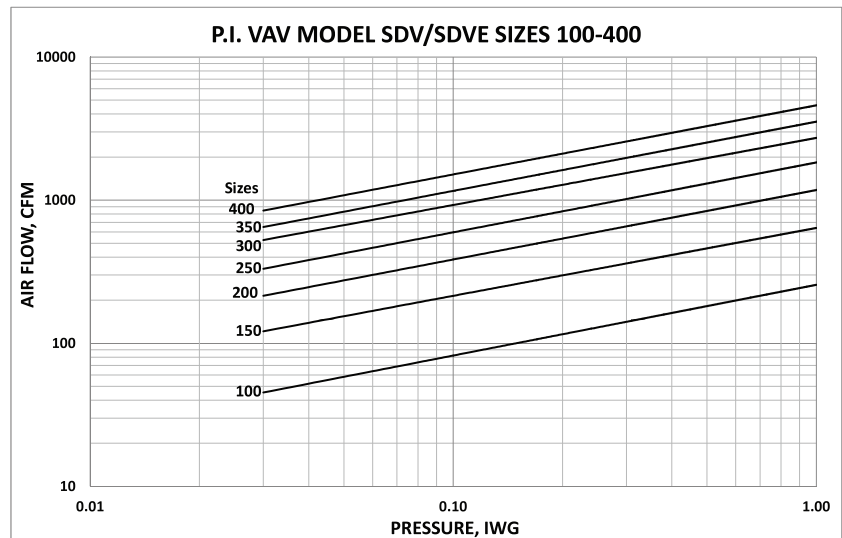
DESCRIPTION

SDV model

- Casing is made of 0.9mm & damper blade is made of 1.2mm; galvanized steel sheet.
- Damper shaft is made of solid square 1/2X1/2 inch G.I.
- With self-lubricating plastic bushes.
- Lined with 1/2 inch thick clean high efficient insulation made of strong resilient dual density glass fibers 24kg/m³ that conform to NFPA-90A & 255, UL 181 and ASTM C665.
- Insulation edges are covered by metal to prevent exposing to airstream for zero fiber migration.
- Equipped with a multi-point flow-cross inlet flow sensor made of Aluminum. Other types of sensors can be arranged upon request with minimum quantities applicable.
- Sound and Pressure Drop of SDV terminals are tested at Intertek - USA in accordance with industry standards AHRI 880-2008 and ASHRAE 130-2008.
- For both Variable Air Volume (VAV) and Constant Air Volume (CAV) applications.
- SDVE model is enabled for electric heater for re-heat application by extended length of box.



SDVE model



AIR CAPACITIES

SIZE	100	150	200	250	300	350	400
INLET DIA., IN	4	6	8	10	12	14	16
INLET AREA, SQ.FT.	0.09	0.20	0.35	0.55	0.79	1.07	1.40
NOMINAL FLOW, CFM	256	639	1176	1833	2721	3534	4597
MIN SENSIBLE FLOW, CFM	45	121	215	331	473	650	848

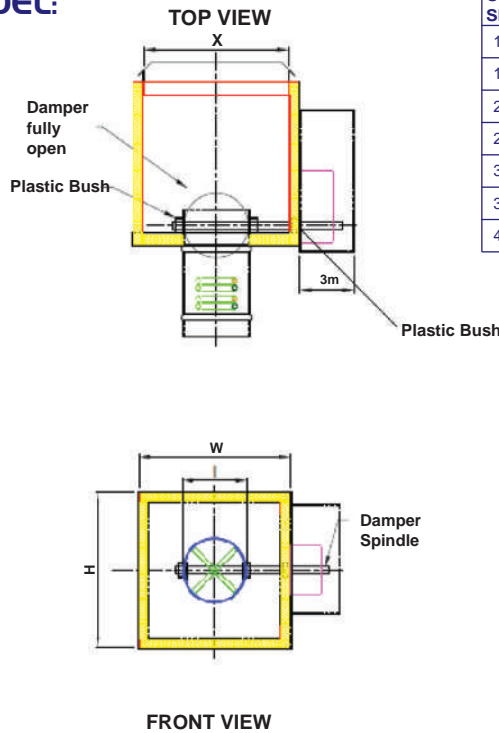




PRESSURE INDEPENDENT SINGLE DUCT VAV - SDV/SDVE MODELS

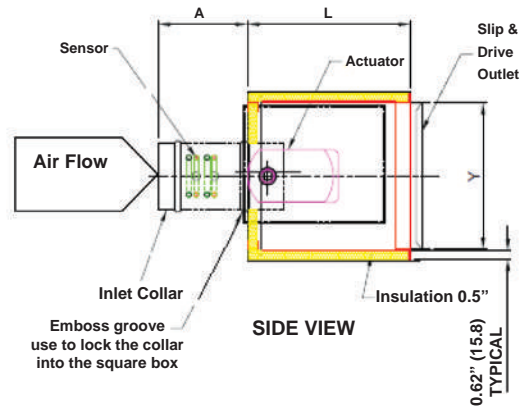
DIMENSIONS

1) SDV MODEL:



UNIT SIZE	DIMENSIONS						
	W	H	L	A	I	X	Y
100	10 (254)	10 (254)	9.85 (250)	10.5 (267)	3.875 (98)	8.75 (222)	8.75 (222)
150	10 (254)	10 (254)	9.85 (250)	6.5 (165)	5.875 (149)	8.75 (222)	8.75 (222)
200	12 (305)	10 (254)	9.85 (250)	6.5 (165)	7.875 (200)	10.75 (273)	8.75 (222)
250	14 (356)	12.5 (318)	11.85 (301)	6.5 (165)	9.875 (251)	12.75 (324)	11.25 (286)
300	16 (406)	15 (381)	11.85 (301)	6.5 (165)	11.875 (302)	14.75 (375)	13.25 (349)
350	20 (508)	17.5 (445)	16.35 (416)	6.5 (165)	13.875 (352)	18.75 (476)	16.25 (413)
400	24 (610)	17.5 (445)	16.35 (416)	6.5 (165)	15.875 (403)	22.75 (578)	16.25 (413)

NOTES:-
 • ALL DIMENSIONS ARE IN INCHES (MM) WITH A TOLERANCE OF ±0.125" (3MM)

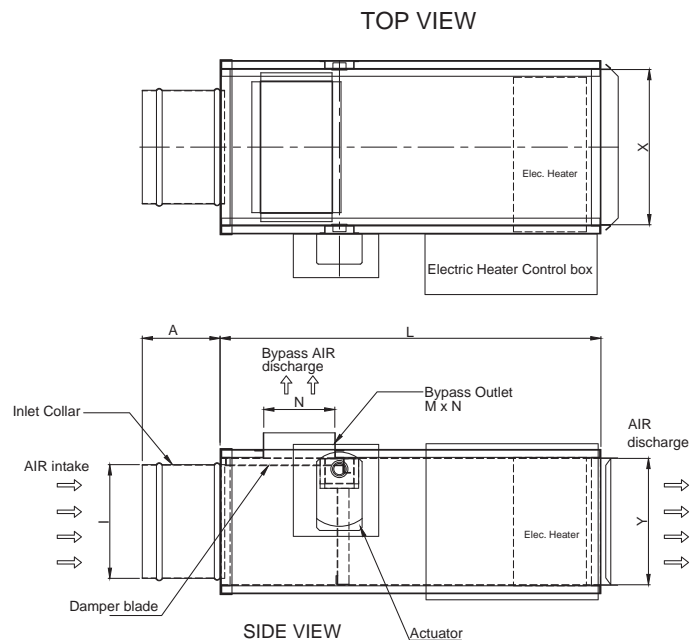
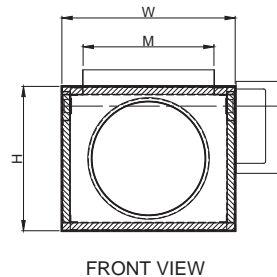


Note: "L" dimension shown and the dimensions of the control box of the electric heater are changeable according to size / capacity of the heating element and the options selected.

2) SDVE MODEL:

UNIT SIZE	DIMENSIONS						
	W	H	L	A	I	X	Y
4	10 (254)	10 (254)	34.0 (864)	10.5 (267)	3.875 (98)	8.75 (222)	8.75 (222)
6	10 (254)	10 (254)	34.0 (864)	6.5 (165)	5.875 (149)	8.75 (222)	8.75 (222)
8	12 (305)	10 (254)	34.0 (864)	6.5 (165)	7.875 (200)	10.75 (273)	8.75 (222)
10	14 (356)	12.5 (318)	31.0 (787)	6.5 (165)	9.875 (251)	12.75 (324)	11.25 (286)
12	16 (406)	15 (381)	31.0 (787)	6.5 (165)	11.875 (302)	14.75 (375)	13.25 (349)
14	20 (508)	17.5 (445)	31.0 (787)	6.5 (165)	13.875 (352)	18.75 (476)	16.25 (413)
16	24 (610)	17.5 (445)	31.0 (787)	6.5 (165)	15.875 (403)	22.75 (578)	16.25 (413)

NOTE: ABOVE DIMENSIONS ARE IN INCHES (MM) WITH A TOLERANCE OF ±0.125" (3MM)





PRESSURE INDEPENDENT SINGLE DUCT VAV - SDV/SDVE MODELS

PERFORMANCE DATA

Terminal Size	CFM	Min ΔPs (inch WG)	0.5 Inch WG							1.0 Inch WG							3.0 inch WG								
			OCTAVE BAND NUMBER							NC _D	OCTAVE BAND NUMBER							NC _D	OCTAVE BAND NUMBER						
			2 (125)	3 (250)	4 (500)	5 (1000)	6 (2000)	7 (4000)	2 (125)		3 (250)	4 (500)	5 (1000)	6 (2000)	7 (4000)	2 (125)	3 (250)		4 (500)	5 (1000)	6 (2000)	7 (4000)			
100	50	0.01	45	45	39	37	33	33	36	49	50	45	42	40	39	41	50	54	51	49	49	50	52		
	100	0.02	48	48	42	40	36	36	39	52	53	48	45	43	42	44	53	57	54	52	52	53	55		
	150	0.03	50	52	45	43	39	39	42	57	58	51	48	46	46	49	59	64	60	56	56	57	59		
	250	0.05	59	59	52	52	46	46	51	64	63	57	54	51	50	56	70	72	67	61	60	60	66		
150	150	0.02	47	46	41	37	34	34	36	52	52	48	43	40	40	44	54	59	57	53	52	54	56		
	250	0.04	50	49	44	40	37	38	40	54	54	50	45	42	42	46	56	61	59	55	54	56	58		
	450	0.07	55	55	52	48	41	42	48	59	61	58	52	48	49	55	64	67	66	60	59	61	63		
	600	0.08	58	58	55	52	44	46	51	63	65	62	56	51	52	59	67	69	69	62	62	64	66		
200	200	0.01	46	46	43	40	36	35	39	50	49	49	44	43	41	45	55	62	65	59	60	60	62		
	500	0.03	51	51	48	43	40	39	44	55	55	54	49	48	47	50	58	64	67	60	61	61	64		
	800	0.03	57	56	54	48	44	42	50	60	61	59	54	51	50	56	65	68	68	62	62	65	65		
	1100	0.04	61	60	57	53	48	46	54	63	64	62	57	55	52	59	69	70	70	63	63	63	68		
250	300	0.01	48	47	44	40	37	34	39	53	54	53	47	44	43	49	59	64	65	59	55	55	62		
	800	0.01	52	51	48	44	41	38	44	57	58	57	51	48	47	54	63	68	69	63	59	59	66		
	1200	0.01	57	56	54	49	43	41	50	61	62	60	54	51	49	57	68	71	70	64	61	61	68		
	1900	0.03	61	60	58	53	47	45	55	65	66	64	58	55	53	61	72	75	74	68	65	65	-		
300	450	0.01	47	49	47	40	39	38	43	52	55	56	50	49	49	53	59	63	64	60	59	58	61		
	1100	0.01	51	53	51	44	43	42	47	56	59	60	54	53	53	57	63	67	68	64	63	62	65		
	1700	0.02	56	56	56	49	46	44	53	61	62	62	57	55	53	59	68	71	72	68	66	65	70		
	2700	0.03	58	58	58	51	48	46	55	63	64	64	59	57	55	61	70	73	74	70	68	67	-		
350	600	0.01	49	46	46	40	39	37	41	54	53	52	48	48	50	61	64	64	59	58	59	61			
	1500	0.01	54	51	51	45	44	42	47	59	58	57	53	53	55	66	69	69	64	63	64	66			
	2300	0.02	58	57	57	50	47	44	54	63	62	61	55	55	55	70	72	70	67	66	65	68			
	3500	0.03	60	59	59	52	49	46	56	65	64	63	57	57	57	60	72	74	72	69	68	67	70		
400	800	0.01	55	51	51	44	42	39	47	60	58	55	51	50	50	52	66	69	65	63	63	62	64		
	2600	0.02	59	55	55	48	46	43	51	64	62	59	55	54	54	56	70	73	69	67	67	66	68		
	3600	0.03	61	60	60	52	50	47	57	66	66	64	57	56	55	61	75	76	73	69	68	68	-		
	4500	0.04	63	62	62	54	52	49	59	68	68	66	59	58	57	63	77	78	75	71	70	70	-		

Terminal Size	CFM	Min ΔPs (inch WG)	0.5 Inch WG							1.0 Inch WG							3.0 inch WG								
			OCTAVE BAND NUMBER							NC _R	OCTAVE BAND NUMBER							NC _R	OCTAVE BAND NUMBER						
			2 (125)	3 (250)	4 (500)	5 (1000)	6 (2000)	7 (4000)	2 (125)		3 (250)	4 (500)	5 (1000)	6 (2000)	7 (4000)	2 (125)	3 (250)		4 (500)	5 (1000)	6 (2000)	7 (4000)			
100	50	0.01	42	40	30	24	23	25	28	45	41	29	25	24	22	30	44	47	40	33	30	28	36		
	100	0.02	45	43	33	27	26	28	32	48	44	32	28	27	25	33	47	50	43	36	33	31	39		
	150	0.03	48	47	36	29	26	29	36	51	48	39	33	29	29	37	52	55	47	41	36	33	46		
	250	0.05	53	54	41	34	28	30	45	57	54	44	37	31	30	45	60	62	53	47	40	35	55		
150	150	0.02	43	39	31	24	22	22	27	45	44	37	30	27	28	33	50	52	46	42	34	31	42		
	250	0.04	45	41	33	26	24	24	30	47	46	39	32	29	30	35	52	54	48	44	36	33	45		
	450	0.07	53	48	42	32	29	29	37	56	53	46	37	31	30	43	59	60	54	47	39	35	52		
	600	0.08	55	50	44	34	31	31	39	58	55	48	39	33	32	46	61	62	56	49	41	37	55		
200	200	0.01	46	38	33	26	24	23	28	49	45	40	32	31	29	35	53	54	53	45	40	38	49		
	500	0.03	49	41	36	29	27	26	31	52	48	43	35	34	32	38	56	57	56	48	43	41	53		
	800	0.03	57	47	42	33	29	29	40	59	53	48	40	36	33	44	63	61	58	49	45	43	55		
	1100	0.04	59	52	48	39	33	31	44	61	56	51	43	38	34	47	66	63	59	51	46	44	56		
250	300	0.01	46	38	34	26	23	36	38	50	45	41	33	27	27	36	55	55	53	45	39	33	49		
	800	0.01	50	42	38	30	27	30	33	54	49	45	37	31	31	40	59	59	58	49	43	37	55		
	1200	0.01	54	46	42	34	30	30	37	56	53	49	39	33	31	45	63	61	59	51	44	39	56		
	1900	0.03	59	51	47	39	35	35	43	61	58	54	44	38	36	50	68	66	64	56	49	44	61		
300	450	0.01	44	40	38	29	27	26	33	49	47	45	37	34	30	40	52	57	56	48	44	42	53		
	1100	0.01	48	44	42	33	31	30	37	53	51	49	41	38	34	45	56	61	60	52	48	46	57		
	1700	0.02	52	48	45	36	33	30	40	55	53	52	43	39	35	48	60	63	62	54	49	47	59		
	2700	0.03	55	51	48	39	36	33	44	58	56	55	46	42	38	51	63	66	65	57	52	50	62		
350	600	0.01	44	40	35	31	30	27	31	49	47	42	35	37	33	38	57	57	52	47	44	44	48		
	1500	0.01	48	44	39	35	34	31	35	53	51	46	39	41	37	42	61	61	56	51	48	48	53		
	2300	0.02	52	48	43	37	34	31	38	56	54	49	42	43	38	45	64	63	59	53	53	51	56		
	3500	0.03	56	52	47	41	38	35	43	60	58	53	46	47	42	49	68	67	63	57	57	55	60		
400	800	0.01	46	42	37	30	26	26	32	51	48	43	37	35	29	38	57	59	54	47	42	37	50		
	2600	0.02	51	47	42	35	31	37	56	53	48	42	40	34	44	62	64	59	52	47	42	57			
	3600	0.03	55	51	48	38	34	31	44	59	57	52	43	42	34	48	66	66	62	53	49	43	59		
	4500	0.04	58	54	51	41	37	34	47	62	60	55	46	45	37	52	69	69	65	56	52	46	63		

NOTES:

- 1- Min ΔPs is the static pressure loss through the unit with 100% air flow through discharge outlet.
- 2- NCD is the discharge noise criteria through the unit with 100% air flow through discharge outlet, based on 10 dB room absorption.
- 3- NCR is the radiated noise criteria through an exposed unit with 100% air flow through discharge outlet, based on 10 dB room absorption.



