

SVE | Slide-In Retrofit

**SVE Performance Data**

**SVE, DISCHARGE SOUND DATA**

Inlet Size	Flow Rate		Min Δ Ps		0.75" Δ Ps							1.5" Δ Ps							2.5" Δ Ps						
					Octave Band Sound Power, Lw							Lp	Octave Band Sound Power, Lw							Lp	Octave Band Sound Power, Lw				
	CFM	(L/s)	"WG	(Pa)	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC
A	75	(35)	0.057	(14.10)	72	57	47	36	39	28	30	80	68	59	45	49	37	40	86	75	67	51	56	43	47
	155	(73)	0.242	(60.22)	74	56	48	39	40	30	33	82	67	60	48	50	39	43	88	74	68	55	58	45	50
	235	(111)	0.556	(138.43)	76	56	49	41	41	32	34	83	66	60	50	51	40	41	89	74	69	57	59	46	48
	315	(149)	1.000	(248.72)	CFM Not Available*							84	66	61	52	52	41	42	90	74	69	59	59	47	49
B	114	(54)	0.058	(14.46)	71	56	49	35	39	28	28	78	66	62	44	49	36	38	84	74	71	51	56	43	45
	225	(106)	0.226	(56.31)	73	55	49	39	40	30	31	81	66	62	48	50	38	41	87	74	71	55	58	45	48
	350	(165)	0.548	(136.26)	74	55	49	41	41	31	29	82	65	62	50	51	40	39	88	73	71	57	59	46	47
	473	(223)	1.000	(248.86)	CFM Not Available*							83	65	62	52	52	40	40	89	73	71	59	59	47	48
C	152	(72)	0.037	(9.31)	71	56	50	36	40	28	28	78	67	62	45	50	37	38	84	74	72	51	57	43	45
	350	(165)	0.198	(49.35)	74	55	50	40	41	31	28	81	66	62	49	51	39	38	87	73	71	56	58	45	45
	575	(271)	0.535	(133.20)	75	54	50	43	42	32	30	83	65	62	52	52	40	40	88	73	71	58	59	47	47
	786	(371)	1.000	(248.90)	CFM Not Available*							84	65	62	53	52	41	39	89	72	71	60	60	48	46
D	253	(119)	0.079	(19.60)	67	53	46	32	37	25	-	75	64	60	41	47	34	33	81	72	69	48	55	41	41
	475	(224)	0.278	(69.08)	70	53	48	37	39	28	24	78	64	61	46	49	37	34	84	73	71	53	57	44	42
	675	(319)	0.561	(139.50)	72	53	48	40	40	30	26	80	65	62	49	51	39	37	86	73	71	56	58	46	44
	902	(426)	1.001	(249.11)	CFM Not Available*							82	65	62	51	52	40	36	88	73	72	58	60	47	44
E	354	(167)	0.071	(17.67)	68	55	49	35	39	28	21	76	65	61	43	49	36	34	81	73	70	49	56	42	41
	675	(319)	0.258	(64.26)	71	55	50	39	41	30	25	79	65	62	48	51	39	35	84	73	71	54	58	45	41
	1000	(472)	0.567	(141.03)	73	55	51	42	43	32	25	81	65	63	51	52	40	34	86	73	72	57	59	46	41
	1328	(627)	1.000	(248.73)	CFM Not Available*							82	65	63	53	53	41	36	87	73	72	59	60	47	43
F	341	(161)	0.072	(17.95)	68	54	48	34	38	27	20	75	65	61	43	48	36	34	81	72	70	49	55	42	41
	650	(307)	0.262	(65.23)	71	55	49	38	41	30	25	79	65	62	47	50	38	34	84	73	71	54	57	44	42
	950	(448)	0.560	(139.35)	73	55	50	41	42	31	25	81	65	62	50	52	40	34	86	73	72	56	59	46	42
	1270	(599)	1.001	(249.03)	CFM Not Available*							82	65	63	52	52	41	36	88	73	72	58	60	47	43
G	379	(179)	0.070	(17.35)	66	53	47	32	37	26	-	74	64	60	41	47	34	28	79	72	69	48	54	41	35
	725	(342)	0.255	(63.50)	70	54	49	38	40	29	21	78	65	61	47	50	38	31	83	72	71	53	57	44	38
	1075	(507)	0.561	(139.60)	72	54	50	41	42	31	24	80	65	62	50	52	40	34	86	73	72	57	59	46	41
	1435	(677)	1.000	(248.76)	CFM Not Available*							82	65	63	53	53	41	36	87	73	72	59	60	48	43
H	568	(268)	0.055	(13.77)	69	56	51	37	41	29	22	75	65	62	44	50	37	30	80	72	70	50	56	42	37
	1175	(555)	0.237	(58.95)	72	57	52	41	43	32	24	79	66	63	49	52	40	32	84	73	72	55	58	45	39
	1775	(838)	0.541	(134.52)	74	57	53	44	45	34	26	81	66	64	52	53	41	35	86	73	73	57	59	47	41
	2414	(1139)	1.000	(248.81)	CFM Not Available*							83	66	65	54	54	43	37	88	73	73	59	60	48	43
J	682	(322)	0.048	(11.88)	69	57	52	37	42	29	22	75	66	62	44	49	36	30	80	72	70	49	55	42	36
	1475	(696)	0.223	(55.58)	73	58	54	43	45	32	25	79	67	64	50	53	40	33	84	73	72	55	58	45	39
	2300	(1085)	0.543	(135.13)	76	59	56	46	47	35	28	82	67	66	53	55	42	36	86	73	73	58	60	47	42
	3121	(1473)	1.000	(248.82)	CFM Not Available*							84	67	67	55	56	43	38	88	73	74	60	61	49	44
K	884	(417)	0.032	(8.02)	71	59	54	40	45	29	22	77	66	62	47	53	36	29	81	71	69	52	58	41	34
	2225	(1050)	0.204	(50.83)	75	61	57	44	46	34	28	81	68	66	51	53	41	35	85	73	72	56	59	46	40
	3550	(1675)	0.520	(129.38)	77	62	59	46	46	37	30	83	69	67	53	54	44	38	87	74	74	58	59	49	43
	4923	(2323)	1.000	(248.82)	CFM Not Available*							85	69	69	54	54	46	40	89	75	75	59	59	51	45
L	1137	(537)	0.013	(3.20)	73	61	56	42	47	31	25	78	66	63	47	52	36	31	81	70	67	51	56	40	35
	2925	(1380)	0.085	(21.19)	78	64	61	47	50	37	31	82	69	68	52	55	42	36	85	73	73	56	59	46	40
	4725	(2230)	0.222	(55.30)	80	65	64	50	51	40	34	84	71	70	55	56	46	39	88	75	75	58	61	49	43
	6563	(3097)	0.429	(106.69)	82	66	66	51	52	43	36	86	72	72	56	57	48	41	89	76	77	60	61	51	45
M	1111	(524)	0.017	(4.17)	70	60	55	40	45	30	21	75	66	62	45	51	36	27	78	70	67	49	56	40	31
	2850	(1345)	0.110	(27.45)	77	63	60	47	49	36	30	81	69	67	52	55	42	36	85	73	72	56	59	46	40
	4625	(2183)	0.290	(72.29)	81	64	63	50	51	40	35	85	70	70	55	57	45	40	88	74	75	59	61	49	44
	6417	(3028)	0.559	(139.15)	83	65	65	53	52	42	38	87	71	72	58	58	47	43	91	75	77	62	62	51	47
N	1364	(644)	0.013	(3.21)	72	60	56	42	47	31	24	77	66	62	47	53	36	29	80	70	67	51	57	40	33
	3525	(1664)	0.086	(21.44)	77	63	61	47	49	37	30	81	69	68	52	55	42	35	84	73	72	56	59	46	39
	5650	(2666)	0.221	(55.09)	79	65	64	49	50	40	33	83	70	70	54	56	45	38	87	74	75	58	60	49	42
	7875	(3716)	0.430	(107.02)	81	66	66	51	51	42	35	85	71	72	56	56	48	40	88	75	77	60	61	51	44
P	1894	(894)	0.013	(3.21)	72	61	55	43	47	30	24	76	67	62	48	53	36	29	79	71	66	52	58	40	33
	4875	(2301)	0.086	(21.28)	76	63	61	46	48	36	29	81	69	67	52	54	41	34	84	73	72	55	59	45	38
	7875	(3716)	0.223	(55.52)	78	64	64	48	49	38	32	83	70	70	53	55	44	37	86	74	75	57	60	48	41
	10938	(5162)	0.430	(107.11)	80	65	66	49	50	40	34	84	71	72	54	56	46	39	87	74	76	58	60	50	43
R	2526	(1192)	0.013	(3.20)	73	62	55	43	46	27	24	77	67	61	48	53	34	30	80	71	66	52	57	38	33
	6500	(3068)	0.085	(21.21)	76	63	61	46	48	34	29	80	69	67	51	54	40	34	83	73	71	55	59	45	38
	10475	(4944)	0.221	(55.08)	78	64	63	48	48	37	31	82	69	70	53	55	43	36	85	73	74	57	59	48	40
	14583	(6882)	0.429	(106.76)	79	65	65	49	49	39	33	83	70	72	54	55	46	38	86	74	76	58	60	50	42

NOTE: See page D2-18 for notes. CFM value not available at 0.75" Δ Ps; the minimum required Δ Ps at the CFM exceeds the Δ Ps available.

RETROFIT/BYPASS TERMINAL UNITS

SVE

**SVE Performance Data**
**SVE, RADIATED SOUND DATA**

Inlet Size	Flow Rate		Min Δ Ps		0.75" Δ Ps							1.5" Δ Ps							2.5" Δ Ps						
					Octave Band Sound Power, Lw							Lp	Octave Band Sound Power, Lw							Lp	Octave Band Sound Power, Lw				
	CFM	(L/s)	"WG	(pa)	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC
A	75	(35)	0.057	(14.10)	54	54	42	32	30	29	23	61	64	55	43	41	38	34	66	72	64	51	49	45	43
	155	(73)	0.242	(60.22)	57	54	43	32	30	33	23	64	64	56	43	41	42	35	69	72	65	51	49	48	43
	235	(111)	0.556	(138.43)	59	54	43	32	30	35	23	66	64	56	43	41	44	35	71	72	66	51	49	50	43
	315	(149)	1.000	(248.72)	CFM Not Available*							68	64	56	43	41	45	35	73	72	66	51	49	52	43
B	114	(54)	0.058	(14.46)	54	54	41	31	29	29	23	61	64	54	43	41	38	34	65	72	64	51	49	45	43
	225	(106)	0.226	(56.31)	57	54	42	31	29	33	23	64	64	55	43	41	42	35	69	72	65	51	49	48	43
	350	(165)	0.548	(136.26)	60	54	43	31	29	35	23	66	64	56	43	41	44	35	71	72	66	51	49	50	43
	473	(223)	1.000	(248.86)	CFM Not Available*							68	64	56	43	41	45	35	73	72	66	51	49	52	44
C	152	(72)	0.037	(9.31)	54	55	42	32	30	30	23	61	65	55	43	40	38	35	66	72	64	52	48	45	43
	350	(165)	0.198	(49.35)	59	55	43	32	30	34	23	65	65	56	43	40	43	35	70	72	66	51	48	49	43
	575	(271)	0.535	(133.20)	61	55	45	31	29	36	24	68	65	57	42	40	45	35	72	72	67	51	48	51	43
	786	(371)	1.000	(248.90)	CFM Not Available*							69	65	58	42	40	47	35	74	72	67	50	48	53	43
D	253	(119)	0.079	(19.60)	51	52	38	30	27	26	20	58	62	51	42	38	35	32	63	70	61	50	47	42	42
	475	(224)	0.278	(69.08)	56	53	41	30	28	31	21	63	64	54	42	39	40	34	68	71	64	51	48	47	43
	675	(319)	0.561	(139.50)	58	54	42	30	28	33	22	65	64	56	42	40	43	35	70	72	66	51	49	49	44
	902	(426)	1.001	(249.11)	CFM Not Available*							68	65	57	43	41	45	35	73	72	67	51	49	52	44
E	354	(167)	0.071	(17.67)	53	54	41	32	29	29	23	60	64	54	43	40	37	34	64	71	63	51	48	43	42
	675	(319)	0.258	(64.26)	58	55	44	33	30	33	24	64	65	56	43	41	42	35	69	72	65	51	49	48	43
	1000	(472)	0.567	(141.03)	60	56	45	33	31	36	25	67	65	58	43	41	44	36	71	72	67	51	49	50	44
	1328	(627)	1.000	(248.73)	CFM Not Available*							68	66	59	44	42	46	36	73	73	68	52	49	52	45
F	341	(161)	0.072	(17.95)	53	53	40	31	29	28	22	59	63	53	42	39	37	33	64	70	62	51	47	43	42
	650	(307)	0.262	(65.23)	57	55	43	32	30	32	23	64	64	56	43	40	41	35	68	72	65	51	48	47	43
	950	(448)	0.560	(139.35)	60	55	44	32	30	35	24	66	65	57	43	41	44	36	71	72	67	51	49	50	44
	1270	(599)	1.001	(249.03)	CFM Not Available*							68	66	58	43	41	45	36	73	73	68	52	49	52	45
G	379	(179)	0.070	(17.35)	51	53	39	30	27	26	21	58	63	52	42	39	35	33	63	70	61	50	47	42	41
	725	(342)	0.255	(63.50)	57	54	42	31	29	32	23	63	64	55	43	40	40	34	68	71	65	51	48	47	43
	1075	(507)	0.561	(139.60)	60	55	44	32	30	35	24	66	65	57	43	41	44	35	71	72	67	52	49	50	44
	1435	(677)	1.000	(248.76)	CFM Not Available*							68	66	59	44	42	46	36	73	73	68	52	50	52	45
H	568	(268)	0.055	(13.77)	55	56	43	34	31	31	25	61	65	55	44	41	38	35	65	71	63	51	48	44	42
	1175	(555)	0.237	(58.95)	59	57	46	34	32	35	26	65	66	58	44	42	43	36	69	72	66	52	49	48	44
	1775	(838)	0.541	(134.52)	62	58	48	35	33	38	27	68	67	59	45	42	45	37	72	73	68	52	50	51	45
	2414	(1139)	1.000	(248.81)	CFM Not Available*							69	67	60	45	43	47	38	74	74	69	52	50	53	45
J	682	(322)	0.048	(11.88)	55	57	44	34	31	30	26	60	65	55	43	40	37	35	64	70	63	50	47	42	42
	1475	(696)	0.223	(55.58)	61	59	48	35	33	36	28	66	67	58	45	42	43	37	69	72	66	52	49	48	44
	2300	(1085)	0.543	(135.13)	64	60	50	37	35	40	29	69	68	60	46	44	47	39	73	74	68	53	50	52	45
	3121	(1473)	1.000	(248.82)	CFM Not Available*							71	68	62	47	44	49	40	75	74	70	53	51	54	46
K	884	(417)	0.032	(8.02)	56	58	45	34	31	32	27	60	65	55	42	39	40	35	63	70	61	48	45	46	41
	2225	(1050)	0.204	(50.83)	63	61	51	38	36	35	31	67	68	60	46	44	43	39	71	73	67	52	50	49	45
	3550	(1675)	0.520	(129.38)	67	63	54	40	38	37	33	71	70	63	48	46	45	41	75	75	70	54	52	50	47
	4923	(2323)	1.000	(248.82)	CFM Not Available*							74	71	65	49	48	46	42	77	76	72	56	53	51	48
L	1137	(537)	0.013	(3.20)	59	62	58	44	42	37	32	62	67	66	50	48	43	41	65	71	72	55	53	48	48
	2925	(1380)	0.085	(21.19)	65	65	60	45	41	39	35	69	70	68	51	48	45	43	71	74	74	56	53	49	50
	4725	(2230)	0.222	(55.30)	69	67	61	45	41	40	37	72	72	69	52	48	45	45	75	76	75	56	52	50	51
	6563	(3097)	0.429	(106.69)	71	68	61	46	41	40	39	75	73	69	52	48	46	45	77	77	75	57	52	50	52
M	1111	(524)	0.017	(4.17)	57	60	57	39	40	33	32	60	65	66	46	46	39	41	63	69	72	51	51	44	48
	2850	(1345)	0.110	(27.45)	65	64	58	42	42	38	34	69	69	67	50	48	44	43	71	73	74	55	53	48	50
	4625	(2183)	0.290	(72.29)	69	66	59	44	43	40	36	73	71	68	52	49	46	44	75	75	75	57	54	51	51
	6417	(3028)	0.559	(139.15)	72	67	60	45	43	42	38	76	73	69	53	50	48	45	78	77	75	58	54	52	52
N	1364	(644)	0.013	(3.21)	58	61	57	39	39	35	32	62	66	65	46	45	41	41	64	70	71	51	50	45	47
	3525	(1664)	0.086	(21.44)	65	64	59	43	41	38	35	69	70	67	50	47	44	43	71	73	73	55	51	48	50
	5650	(2666)	0.221	(55.09)	69	66	60	45	42	39	37	72	71	68	52	48	45	44	75	75	74	57	52	50	51
	7875	(3716)	0.430	(107.02)	71	67	61	47	42	40	38	75	73	69	54	48	46	45	77	76	75	59	53	51	52
P	1894	(894)	0.013	(3.21)	59	60	56	41	39	35	31	63	66	65	48	46	41	40	65	70	71	53	50	46	47
	4875	(2301)	0.086	(21.28)	65	64	59	42	40	37	34	69	69	67	49	47	43	42	72	73	73	54	51	48	49
	7875	(3716)	0.223	(55.52)	68	65	60	43	41	38	35	72	71	68	50	47	44	43	75	75	74	55	52	49	50
	10938	(5162)	0.430	(107.11)	70	66	60	43	41	39	37	74	72	68	50	47	45	44	77	76	74	56	52	50	51
R	2526	(1192)	0.013	(3.20)	59	61	57	42	40	36	31	63	66	65	48	46	42	40	66	70	70	53	50	47	46
	6500	(3068)	0.085	(21.21)	65	64	59	44	41	38	34	69	69	67	50	47	44	42	72	73	72	54	51	48	49
	10475	(4944)	0.221	(55.08)	69	65	60	45	42	38	36	72	71	68	51	47	44	43	75	75	73	55	52	49	50
	14583	(6882)	0.429	(106.76)	71	66	60	46	42	39	37	74	72	68	52	48	45	44	77	76	74	56	52	49	51

NOTE: See page D2-18 for notes. CFM value not available at 0.75" Δ Ps; the minimum required Δ Ps at the CFM exceeds the Δ Ps available.

**SVE Performance Data Notes**

**AHRI 885-08 DISCHARGE REDUCTIONS**

AHRI 885-08 Discharge / < 300 CFM	Octave Bands					
	2	3	4	5	6	7
Environmental Effect	2	1	0	0	0	0
Duct Lining, 5', 8"x8"x1"	2	6	12	25	29	18
End Reflection	9	5	2	0	0	0
Power Division (0 outlets)	0	0	0	0	0	0
5', 8" Flex Duct	6	10	18	20	21	12
Space Effect	5	6	7	8	9	10
<b>Total Attenuation</b>	<b>24</b>	<b>28</b>	<b>39</b>	<b>53</b>	<b>59</b>	<b>40</b>

AHRI 885-08 Discharge 300-700 CFM	Octave Bands					
	2	3	4	5	6	7
Environmental Effect	2	1	0	0	0	0
Duct Lining, 5', 12"x12"x1"	2	4	10	20	20	14
10" End Reflection	9	5	2	0	0	0
Power Division ( 2 outlets)	3	3	3	3	3	3
5', 8" Flex Duct	6	10	18	20	21	12
Space Effect	5	6	7	8	9	10
<b>Total Attenuation</b>	<b>27</b>	<b>29</b>	<b>40</b>	<b>51</b>	<b>53</b>	<b>39</b>

AHRI 885-08 Discharge >700 CFM	Octave Bands					
	2	3	4	5	6	7
Environmental Effect	2	1	0	0	0	0
Duct Lining, 5', 15"x15"x1"	2	3	9	18	17	12
End Reflection	9	5	2	0	0	0
Power Division ( 3 outlets)	5	5	5	5	5	5
5', 8" Flex Duct	6	10	18	20	21	12
Space Effect	5	6	7	8	9	10
<b>Total Attenuation</b>	<b>29</b>	<b>30</b>	<b>41</b>	<b>51</b>	<b>52</b>	<b>39</b>

**AHRI 885-08 RADIATED REDUCTIONS**

NC Radiated (dB re 10 <sup>-12</sup> Watts)	Octave Bands					
	2	3	4	5	6	7
Environmental Adjustment Factor	2	1	0	0	0	0
Plenum/Room Effect	16	18	20	26	31	36
<b>Total dB Reduction</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>26</b>	<b>31</b>	<b>36</b>

NOTES: Discharge sound power is the sound emitted from the unit discharge. Radiated sound power is the sound transmitted through the casing walls. All sound data is based on tests conducted in accordance with AHRI 880-11. Sound power levels are in dB, re 10<sup>-12</sup> Watts. ΔPs is the difference in static pressure from inlet to discharge. NC application data is from AHRI Standard 885-08 Appendix E, as a function of flow rate shown. All data points listed are application ratings outside the scope of the Certification Program. Dash indicates a NC is less than 20. See Engineering section for reductions and definitions.

**SVE Control Information**

The following list shows the standard control arrangements available with the SVE product offering. Control packages offer a variety of pressure independent operating functions. Control functions are identified by the Krueger control package number.

**PNEUMATIC CONTROL ARRANGEMENTS**

All control packages are pressure independent and include a K4 LineaCross, four quadrant, center averaging inlet airflow sensor.

- 1102 - Single Function; DA-NO
- 1103 - Single Function; RA-NC
- 1104 - Multi-function; DA-NO
- 1105 - Multi-function; DA-NC
- 1106 - Multi-function; RA-NO
- 1107 - Multi-function; RA-NC

**Pneumatic Control Legend:**

- DA - Direct Acting Thermostat
- RA - Reverse Acting Thermostat
- NO - Normally Open Damper Position
- NC - Normally Closed Damper Position
- Single Function Controller - Provides Single Function, DA-NO or RA-NC
- Multi-function Controller - Capable of Providing DA-NO, DA-NC, RA-NC or RA-NO Functions

**ANALOG CONTROL ARRANGEMENTS**

All control packages are pressure independent and include a K4 LineaCross, four quadrant, center averaging inlet airflow sensor, controller/actuator, control enclosure and wall thermostat to match the control type. An optional 24 volt transformer is available that will be mounted and wired inside the control enclosures.

- 2100 - Heating Control
- 2101 - Cooling Control

**DIRECT DIGITAL CONTROL ARRANGEMENT**

Control packages are field supplied for factory mounting. All DDC control arrangements include a K4 LineaCross, four quadrant, center averaging inlet airflow sensor and control enclosure. An optional 24 volt transformer is available that will be mounted and wired inside the control enclosure.

**ELECTRIC CONTROL ARRANGEMENT**

Pressure dependent control package consist of an electric actuator and control enclosure. An optional 24 volt transformer is available that will be mounted and wired inside the control enclosure.

- 3100 - Temperature Responsive Control

RETROFIT/BYPASS TERMINAL UNITS

SVE