

# Single Duct Terminal Units SPEQ, SDEQ Series

Ultra Quiet Exhaust Single Duct – Controller Type



## Recommended Air Volume Ranges

### CP 101

Unit Size	L/s Min.*	L/s Max.	cfm Min.*	cfm Max.
4	24	106	50	225
5	30	165	63	350
6	31	212	70	450
7	47	307	100	650
8	62	378	130	800
9	108	496	170	1050
10	126	637	262	1350
12	173	991	300	2100
14	226	1225	370	2600
16	315	1649	500	3500

### CP 100 and CP 200 Controller

Unit Size	L/s Min.*	L/s Max.	cfm Min.*	cfm Max.
4	34	106	75	225
5	43	165	80	350
6	44	212	100	450
7	66	307	140	650
8	88	378	190	800
9	151	496	240	1050
10	175	637	310	1350
12	242	991	420	2100
14	314	1225	540	2600
16	438	1649	710	3500

### Digital Controls

Unit Size	L/s Min.*	L/s Max.	cfm Min.*	cfm Max.
4	24	106	50	225
5	30	165	55	350
6	31	212	70	450
7	47	307	100	650
8	62	378	130	800
9	108	496	170	1050
10	126	637	220	1350
12	173	991	300	2100
14	226	1225	390	2600
16	315	1649	500	3500

### Notes:

Factory calibrated controls must be selected within the above flow range limits. A minimum value of zero is also available. When an auxiliary flow setting is specified, the value must be greater than the minimum setting and within the range limits.

On controls mounted by Price but supplied by others, the air volume ranges are guidelines only.

\*Minimum air flow limit is based on min .02 in. w.g. differential pressure signal from air flow sensor (.04 in. w.g. for CP100 and CP200). Selection of air flow limits below the listed values is not recommended. Stability and accuracy may not be acceptable at lower than recommended air flow limits. The actual performance will vary depending on the terminal unit controls supplied.

Maximum air flow limit is based on max 1.0 in. w.g. differential pressure signal from air flow sensor.

## Minimum Operating Pressure

Unit Size	Air Flow		Minimum ΔPs		Unit Size	Air Flow		Minimum ΔPs	
	cfm	L/s	Across in. w.g.	Unit Pa		cfm	L/s	Across in. w.g.	Unit Pa
4	75	35	0.11	28	9	450	212	0.13	32
	125	59	0.30	73		650	307	0.26	64
	175	83	0.56	139		850	401	0.42	105
	225	106	0.90	225		1050	496	0.63	157
5	125	59	0.19	47	10	550	260	0.13	32
	200	94	0.41	103		750	354	0.22	56
	275	130	0.70	174		950	448	0.34	86
	350	165	1.04	260		1150	543	0.49	121
6	150	71	0.11	28	1350	637	0.65	162	
	225	106	0.22	55	12	900	425	0.15	37
	300	142	0.36	90		1200	566	0.25	62
	375	177	0.53	131		1500	708	0.37	93
450	212	0.72	178	1800		850	0.52	129	
7	250	118	0.12	31	2100	991	0.69	171	
	350	165	0.23	57	14	1000	472	0.08	19
	450	212	0.37	91		1500	708	0.18	44
	550	260	0.53	131		2000	944	0.32	79
650	307	0.72	178	2500		1180	0.51	126	
8	400	189	0.16	40	16	1500	708	0.19	46
	500	236	0.25	62		2000	944	0.31	78
	600	283	0.35	87		2500	1180	0.47	117
	700	330	0.47	116		3000	1416	0.65	162
800	378	0.60	149	3500	1652	0.86	215		

### Performance Notes:

1. Test data obtained in accordance with AHRI Standard 880-2008 and ASHRAE Standard 130-2008.
2. Air flow given in L/s and cfm
3. Pressure given in Pa and in. w.g.
4. Data is not certified by AHRI.

# Single Duct Terminal Units

## SPEQ, SDEQ Series

### Ultra Quiet Exhaust Single Duct – Controller Type



## Discharge Sound Power Levels – Hospital Grade Liner (FF/PL)

Unit Size		Sound Power Levels Lw dB re 10 <sup>-12</sup> Watts																											
		0.5 in. w.g. [125 Pa]							1.0 in. w.g. [250 Pa]							1.5 in. w.g. [375 Pa]							3.0 in. w.g. [750 Pa]						
		Air Flow		Octave Band					Octave Band					Octave Band					Octave Band										
L/s	cfm	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7				
4	35	75	60	44	31	27	—	21	67	52	34	30	—	22	74	60	37	34	—	23	79	66	39	36	—	23			
	59	125	59	45	38	33	—	30	66	53	41	37	—	31	74	61	44	40	—	32	79	66	46	43	—	33			
	83	175	*	*	*	*	*	*	66	53	45	41	—	37	74	62	49	45	21	38	79	67	51	47	22	39			
	106	225	*	*	*	*	*	*	66	54	49	44	24	42	74	62	52	48	26	43	78	67	54	50	27	43			
5	59	125	58	46	37	33	—	25	62	51	42	38	—	29	67	57	47	43	22	33	69	60	50	47	24	35			
	94	200	62	49	42	37	—	32	66	55	46	42	22	35	70	60	51	47	26	39	73	64	54	50	28	42			
	130	275	*	*	*	*	*	*	69	57	50	45	24	40	73	63	55	50	28	44	76	66	57	53	30	46			
	165	350	*	*	*	*	*	*	71	59	52	47	26	43	75	64	57	52	30	47	78	68	60	55	32	50			
6	71	150	55	43	36	31	—	22	58	48	41	35	—	28	62	53	47	40	—	35	64	56	50	43	20	39			
	106	225	59	47	40	35	—	25	62	52	45	39	22	31	66	57	50	44	25	38	68	60	54	46	27	42			
	142	300	62	50	42	37	24	27	65	55	47	42	27	33	69	60	53	46	30	40	71	63	56	49	31	44			
	177	375	*	*	*	*	*	*	67	57	50	44	30	34	71	62	55	48	33	41	73	65	59	51	35	45			
212	450	*	*	*	*	*	*	69	59	51	45	33	36	73	64	57	50	36	43	75	67	60	53	38	47				
7	118	250	57	45	36	32	—	21	62	51	41	36	—	29	67	57	47	41	—	38	70	61	50	43	—	43			
	165	350	59	48	39	35	25	24	64	53	44	39	26	32	69	60	50	44	27	40	72	64	53	46	27	45			
	212	450	61	49	41	38	31	26	66	55	46	42	32	34	71	62	52	46	33	43	74	66	56	49	34	48			
	260	550	*	*	*	*	*	*	67	57	48	43	37	36	73	63	54	48	38	44	76	67	57	50	39	49			
307	650	*	*	*	*	*	*	69	58	50	45	41	37	74	65	56	49	42	46	77	68	59	52	43	51				
8	189	400	58	47	39	35	25	27	62	52	44	39	26	32	66	58	48	42	26	37	69	61	51	44	26	40			
	236	500	61	49	42	38	34	31	64	54	46	41	34	36	68	60	51	45	34	41	71	64	53	47	34	44			
	283	600	62	51	44	40	40	34	66	56	48	43	40	38	70	62	53	47	41	44	72	65	55	49	41	47			
	330	700	64	52	46	42	46	36	67	58	50	45	46	41	71	63	54	48	46	46	74	67	57	50	46	50			
378	800	*	*	*	*	*	*	69	59	52	46	51	43	73	65	56	50	51	49	75	68	58	52	51	52				
9	212	450	56	46	39	32	20	26	60	52	44	36	21	32	66	58	49	39	22	38	69	62	52	41	22	41			
	307	650	59	49	42	37	32	30	64	55	47	40	33	36	69	61	52	43	33	42	72	64	55	45	34	45			
	401	850	61	51	44	40	41	33	66	57	49	43	41	39	71	63	54	46	42	45	74	67	57	48	42	48			
	496	1050	*	*	*	*	*	*	68	58	50	45	48	41	73	64	55	49	49	47	76	68	58	51	49	50			
10	260	550	55	47	40	33	23	26	60	52	44	36	24	30	65	58	49	39	24	35	68	62	52	41	25	38			
	354	750	58	49	43	37	34	32	63	55	47	40	35	36	68	61	52	43	35	41	71	64	55	45	36	44			
	448	950	61	51	45	40	42	36	65	57	49	43	43	41	70	63	54	46	44	46	73	66	57	48	44	49			
	543	1150	62	53	46	42	49	40	67	58	51	45	50	45	72	64	56	48	50	50	75	68	58	50	51	53			
637	1350	*	*	*	*	*	*	68	60	52	47	55	48	74	66	57	50	56	53	76	69	60	52	56	56				
12	425	900	59	52	42	36	30	33	64	58	47	39	32	38	69	64	52	43	34	44	73	68	55	45	35	48			
	566	1200	61	54	45	40	37	36	66	60	50	43	39	41	71	66	55	46	41	47	75	70	58	48	42	51			
	708	1500	62	56	47	43	42	38	67	62	52	46	44	44	73	68	57	49	47	50	76	72	60	51	48	53			
	850	1800	*	*	*	*	*	*	68	63	53	48	49	46	74	69	58	51	51	52	77	73	61	53	52	55			
991	2100	*	*	*	*	*	*	69	64	55	50	53	48	75	71	60	53	55	54	78	74	63	55	56	57				
14	472	1000	54	48	38	31	26	30	59	54	42	34	28	36	65	60	46	37	30	41	69	64	48	38	31	45			
	708	1500	57	50	42	37	34	33	62	56	46	40	36	39	68	63	50	43	39	45	71	67	52	44	40	48			
	944	2000	59	52	45	41	41	36	64	58	49	44	43	41	70	65	53	47	45	47	73	69	55	48	46	50			
	1180	2500	*	*	*	*	*	*	65	59	51	47	47	43	71	66	55	50	49	49	75	70	58	52	51	52			
16	708	1500	56	50	41	34	22	28	62	56	44	36	22	32	69	63	47	38	23	36	73	67	48	39	23	38			
	944	2000	57	51	46	39	33	33	64	58	48	41	34	37	70	64	51	43	34	40	74	68	53	45	35	43			
	1180	2500	59	53	49	43	42	37	65	59	52	45	43	40	72	66	55	47	43	44	76	70	56	49	44	46			
	1416	3000	*	*	*	*	*	*	66	60	55	48	50	43	73	67	58	51	50	47	77	71	59	52	51	49			
1652	3500	*	*	*	*	*	*	67	61	57	51	56	46	74	68	60	53	57	49	78	72	62	55	57	52				

### Performance Notes:

1. Test data obtained in accordance with AHRI Standard 880-2011 and ASHRAE Standard 130-2008.
2. Sound power levels include duct end corrections per AHRI Standard 880-2011. Please refer to page F25 for more details.
3. Air flow given in L/s and cfm.
4. Pressure given in Pa and in.w.g.
5. Asterisks (\*) indicate minimum static pressure of the unit exceeds the minimum operating pressure across the unit.
6. Data is not certified by AHRI.

# Single Duct Terminal Units SPEQ, SDEQ Series

Ultra Quiet Exhaust Single Duct – Controller Type



## Radiated Sound Power Levels – Hospital Grade Liner (FF/PL)

Sound Power Levels Lw dB re 10<sup>-12</sup> Watts

Unit Size	Air Flow L/s    cfm		0.5 in. w.g. [125 Pa]							1.0 in. w.g. [250 Pa]							1.5 in. w.g. [375 Pa]							3.0 in. w.g. [750 Pa]						
			Octave Band							Octave Band							Octave Band							Octave Band						
			2	3	4	5	6	7		2	3	4	5	6	7		2	3	4	5	6	7		2	3	4	5	6	7	
4	35	75	42	34	28	24	—	20	42	37	32	30	26	27	43	41	37	35	34	34	43	43	40	38	38	38				
	59	125	52	42	33	28	21	22	53	45	38	33	28	29	53	48	43	39	36	36	54	50	46	42	40	40				
	83	175	*	*	*	*	*	*	60	50	42	36	30	30	61	53	47	41	37	37	61	55	50	44	42	42				
	106	225	*	*	*	*	*	*	65	53	45	37	31	31	66	57	50	43	39	38	66	59	53	46	43	43				
5	59	125	46	36	33	24	—	—	49	41	38	30	27	25	52	47	43	37	35	34	54	51	47	40	40	39				
	94	200	52	41	37	27	21	—	56	46	42	33	28	27	59	52	48	40	37	36	61	56	51	44	42	41				
	130	275	*	*	*	*	*	*	60	50	45	36	30	29	63	55	51	42	38	37	65	59	54	46	43	42				
	165	350	*	*	*	*	*	*	63	52	48	37	30	30	67	58	53	44	39	38	69	61	57	48	43	43				
6	71	150	45	36	32	23	20	—	49	42	38	30	28	25	53	49	45	38	36	35	55	53	49	42	41	41				
	106	225	49	40	35	26	21	—	53	46	42	32	29	26	57	52	48	40	37	36	59	56	52	44	42	42				
	142	300	52	42	38	27	22	—	56	48	44	34	30	29	60	55	51	42	38	36	62	59	55	46	43	42				
	177	375	*	*	*	*	*	*	58	50	46	35	31	26	62	57	53	43	39	37	64	61	57	47	44	43				
212	450	*	*	*	*	*	*	60	52	48	37	31	27	64	59	55	44	39	37	66	62	59	48	44	43					
7	118	250	49	38	33	26	26	21	53	44	39	30	30	27	58	51	45	35	34	34	61	55	49	38	37	38				
	165	350	52	41	36	28	25	20	56	47	42	33	29	27	61	54	48	38	34	34	64	58	52	40	37	38				
	212	450	54	43	39	30	25	—	58	49	44	35	29	26	63	56	50	40	34	33	66	60	54	42	36	37				
	260	550	*	*	*	*	*	*	60	51	46	36	29	26	65	58	52	41	34	33	68	62	56	44	36	37				
307	650	*	*	*	*	*	*	62	52	48	38	29	25	67	59	54	42	33	32	69	63	57	45	36	36					
8	189	400	50	40	35	27	—	—	55	47	41	32	27	27	60	54	46	37	35	37	63	58	50	40	39	43				
	236	500	52	42	38	29	21	—	57	48	43	34	28	27	62	56	49	39	36	38	65	60	52	43	41	44				
	283	600	54	43	39	31	22	—	58	50	45	36	29	28	63	57	51	41	37	38	66	62	54	45	42	44				
	330	700	55	45	41	32	23	—	60	51	47	37	30	28	65	59	52	43	38	38	68	63	56	46	43	44				
378	800	*	*	*	*	*	*	61	53	48	39	31	28	66	60	54	44	39	39	69	64	57	48	43	45					
9	212	450	46	41	37	26	—	—	51	48	44	32	25	22	57	57	50	40	33	32	60	62	55	44	37	38				
	307	650	49	42	39	28	20	—	55	50	46	35	27	24	60	58	52	42	35	34	64	63	56	46	39	40				
	401	850	52	43	41	30	22	—	57	51	47	36	29	25	63	59	54	44	36	35	66	64	58	48	41	41				
	496	1050	*	*	*	*	*	*	59	51	48	38	30	26	65	60	55	45	37	36	68	65	59	49	42	42				
10	260	550	49	44	41	32	23	----	54	51	46	38	30	25	60	57	52	44	38	33	63	61	56	48	42	38				
	354	750	52	45	43	34	25	----	57	52	48	39	32	26	62	58	54	46	39	34	65	62	57	49	44	39				
	448	950	54	46	44	35	26	----	59	52	49	41	33	26	64	59	55	47	41	35	67	63	59	51	45	39				
	543	1150	55	47	45	36	27	----	60	53	51	42	34	27	66	59	56	48	42	35	69	63	60	52	46	40				
637	1350	*	*	*	*	*	*	61	53	52	42	35	28	67	60	57	49	43	36	70	64	61	53	47	40					
12	425	900	49	42	40	29	24	21	55	48	45	34	30	30	61	56	51	40	37	38	65	60	54	43	41	44				
	566	1200	51	44	43	31	26	22	57	51	48	36	32	30	63	58	54	42	39	39	67	62	57	46	43	45				
	708	1500	53	46	45	33	28	23	59	52	50	38	34	31	65	59	56	44	41	40	68	64	59	48	45	45				
	850	1800	*	*	*	*	*	*	60	53	52	40	35	32	66	61	58	46	42	40	70	65	61	49	46	46				
991	2100	*	*	*	*	*	*	61	55	54	41	36	32	67	62	59	47	43	41	71	66	63	51	47	46					
14	472	1000	47	43	38	30	25	21	54	49	44	36	31	27	61	57	51	43	36	33	65	61	55	46	40	37				
	708	1500	49	45	41	32	27	22	56	51	47	38	32	28	63	59	53	44	38	34	67	63	57	48	41	38				
	944	2000	51	46	42	33	28	22	57	53	48	39	33	28	64	60	55	45	39	35	68	64	58	49	42	39				
	1180	2500	*	*	*	*	*	*	58	54	49	39	34	29	65	61	56	46	40	35	69	65	60	49	43	39				
16	708	1500	52	45	39	32	28	21	58	51	45	38	35	30	64	58	50	44	42	40	67	62	54	48	46	46				
	944	2000	54	48	42	34	30	22	60	54	48	40	36	31	66	60	53	46	43	41	70	64	57	50	47	46				
	1180	2500	56	50	45	36	30	22	62	56	50	41	37	31	68	62	56	47	44	41	71	66	59	51	48	47				
	1416	3000	*	*	*	*	*	*	63	58	52	42	38	32	69	64	58	49	45	41	73	68	61	52	49	47				
1652	3500	*	*	*	*	*	*	64	59	54	43	38	32	71	65	59	50	45	42	74	69	63	53	50	47					

**Performance Notes:**

1. Test data obtained in accordance with AHRI Standard 880-2011 and ASHRAE Standard 130-2008.
2. Sound power levels include duct end corrections per AHRI Standard 880-2011. Please refer to page F25 for more details.
3. Air flow given in L/s and cfm.
4. Pressure given in Pa and in.w.g.
5. Asterisks (\*) indicate minimum static pressure of the unit exceeds the minimum operating pressure across the unit.
6. Data is not certified by AHRI.