



Accel II Airflow Control Valves  
**MEDIUM PRESSURE SHUT-OFF EXHAUST/RETURN**  
Sound Power Level Data

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## Phoenix Controls Accel II Airflow Control Valves

### Medium Pressure Shut Off Valves

### Exhaust/Return Sound Power Level Performance Data

#### Size 108

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	0.60	150	40	42	40	39	32	27
100	45	170	0.60	150	43	48	44	41	38	31
150	70	250	0.60	150	43	51	46	42	40	33
200	95	340	0.60	150	46	52	48	46	43	36
250	120	420	0.60	150	48	52	48	48	46	39
300	140	510	0.60	150	50	53	51	49	48	41
350	160	590	0.60	150	52	55	52	51	50	44
400	190	680	0.60	150	53	57	54	53	51	46
450	210	760	0.60	150	55	59	57	55	52	48
500	230	850	0.60	150	57	61	57	57	54	50
550	255	925	0.60	150	59	63	61	59	56	51
600	280	1000	0.60	150	60	65	62	61	57	52

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	2.00	500	50	45	42	46	43	42
100	45	170	2.00	500	51	55	50	53	49	44
150	70	250	2.00	500	51	58	54	56	51	49
200	95	340	2.00	500	53	60	56	57	54	50
250	120	420	2.00	500	54	61	56	58	55	51
300	140	510	2.00	500	55	62	58	59	56	52
350	160	590	2.00	500	58	64	60	60	58	54
400	190	680	2.00	500	59	65	62	62	60	56
450	210	760	2.00	500	61	67	63	64	59	58
500	230	850	2.00	500	62	68	65	66	62	59
550	255	925	2.00	500	64	69	67	68	63	60
600	280	1000	2.00	500	65	71	68	69	64	61

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	1.00	250	44	44	41	42	37	33
100	45	170	1.00	250	46	51	46	48	43	36
150	70	250	1.00	250	47	54	49	49	45	39
200	95	340	1.00	250	49	56	51	50	47	41
250	120	420	1.00	250	51	56	52	52	49	43
300	140	510	1.00	250	52	57	54	53	51	46
350	160	590	1.00	250	55	59	56	55	53	48
400	190	680	1.00	250	56	60	58	57	55	50
450	210	760	1.00	250	58	62	60	59	56	52
500	230	850	1.00	250	59	64	60	61	57	53
550	255	925	1.00	250	61	65	63	63	59	54
600	280	1000	1.00	250	62	67	65	64	60	56

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	2.50	625	51	46	43	47	45	44
100	45	170	2.50	625	53	56	51	55	51	47
150	70	250	2.50	625	53	60	55	57	53	51
200	95	340	2.50	625	55	62	57	59	55	53
250	120	420	2.50	625	55	62	58	60	56	52
300	140	510	2.50	625	56	64	60	61	58	54
350	160	590	2.50	625	59	65	61	62	60	56
400	190	680	2.50	625	60	67	63	63	61	57
450	210	760	2.50	625	62	68	65	65	62	58
500	230	850	2.50	625	63	69	66	68	63	59
550	255	925	2.50	625	65	71	68	69	64	61
600	280	1000	2.50	625	66	72	69	70	65	62

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	1.50	375	47	45	42	44	41	38
100	45	170	1.50	375	49	53	48	51	46	41
150	70	250	1.50	375	50	56	52	53	49	45
200	95	340	1.50	375	52	58	54	54	51	46
250	120	420	1.50	375	52	58	54	56	53	47
300	140	510	1.50	375	54	60	56	57	54	49
350	160	590	1.50	375	56	62	58	58	56	51
400	190	680	1.50	375	58	63	60	60	58	54
450	210	760	1.50	375	60	65	62	62	59	55
500	230	850	1.50	375	61	66	63	64	60	56
550	255	925	1.50	375	63	68	65	66	61	57
600	280	1000	1.50	375	64	69	67	67	62	58

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	3.00	750	53	46	43	48	47	47
100	45	170	3.00	750	54	57	52	56	53	49
150	70	250	3.00	750	54	61	56	59	55	52
200	95	340	3.00	750	56	63	59	60	57	53
250	120	420	3.00	750	56	64	59	61	58	54
300	140	510	3.00	750	57	65	60	62	59	56
350	160	590	3.00	750	60	67	63	63	61	58
400	190	680	3.00	750	61	68	64	65	62	59
450	210	760	3.00	750	63	69	66	66	64	61
500	230	850	3.00	750	64	70	67	69	65	62
550	255	925	3.00	750	66	72	69	71	66	63
600	280	1000	3.00	750	67	73	70	72	67	64

#### Notes

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Exhaust/Return sound is the noise emitted from the valve inlet into the laboratory/room.

## Phoenix Controls Accel II Airflow Control Valves

### Medium Pressure Shut Off Valves

#### Exhaust/Return Sound Power Level Performance Data

Size 108 with Neutralizer

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	0.60	150	40	42	40	23	22	21
100	45	170	0.60	150	43	48	44	26	26	22
150	70	250	0.60	150	43	51	46	27	29	25
200	95	340	0.60	150	46	52	48	27	32	27
250	120	420	0.60	150	48	52	48	30	35	30
300	140	510	0.60	150	50	53	51	34	38	32
350	160	590	0.60	150	52	55	52	38	41	34
400	190	680	0.60	150	53	57	54	42	43	36
450	210	760	0.60	150	55	59	57	45	45	36
500	230	850	0.60	150	57	61	57	48	46	39
550	255	925	0.60	150	59	63	61	51	49	42
600	280	1000	0.60	150	60	65	62	53	50	44

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	2.00	500	50	45	42	28	31	32
100	45	170	2.00	500	51	55	50	35	37	34
150	70	250	2.00	500	51	58	54	37	41	38
200	95	340	2.00	500	53	60	56	40	41	40
250	120	420	2.00	500	54	61	56	40	44	41
300	140	510	2.00	500	55	62	58	42	46	43
350	160	590	2.00	500	58	64	60	45	48	45
400	190	680	2.00	500	59	65	62	48	49	46
450	210	760	2.00	500	61	67	63	51	51	47
500	230	850	2.00	500	62	68	65	54	53	49
550	255	925	2.00	500	64	69	67	56	54	50
600	280	1000	2.00	500	65	71	68	58	56	52

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	1.00	250	44	44	41	25	26	25
100	45	170	1.00	250	46	51	46	30	31	27
150	70	250	1.00	250	47	54	49	31	35	30
200	95	340	1.00	250	49	56	51	33	37	33
250	120	420	1.00	250	51	56	52	34	39	35
300	140	510	1.00	250	52	57	54	37	41	37
350	160	590	1.00	250	55	59	56	41	44	38
400	190	680	1.00	250	56	60	58	44	46	40
450	210	760	1.00	250	58	62	60	48	47	41
500	230	850	1.00	250	59	64	60	50	49	43
550	255	925	1.00	250	61	65	63	53	51	45
600	280	1000	1.00	250	62	67	65	55	53	47

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	2.50	625	51	46	43	29	33	34
100	45	170	2.50	625	53	56	51	36	39	37
150	70	250	2.50	625	53	60	55	39	43	40
200	95	340	2.50	625	55	62	57	41	43	42
250	120	420	2.50	625	55	62	58	42	46	43
300	140	510	2.50	625	56	64	60	44	47	45
350	160	590	2.50	625	59	65	61	47	49	46
400	190	680	2.50	625	60	67	63	50	51	48
450	210	760	2.50	625	62	68	65	53	52	49
500	230	850	2.50	625	63	69	66	55	54	51
550	255	925	2.50	625	65	71	68	57	56	52
600	280	1000	2.50	625	66	72	69	59	57	54

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	1.50	375	47	45	42	27	29	29
100	45	170	1.50	375	49	53	48	33	34	31
150	70	250	1.50	375	50	56	52	35	39	35
200	95	340	1.50	375	52	58	54	37	39	37
250	120	420	1.50	375	52	58	54	37	42	39
300	140	510	1.50	375	54	60	56	40	44	40
350	160	590	1.50	375	56	62	58	43	46	42
400	190	680	1.50	375	58	63	60	47	48	44
450	210	760	1.50	375	60	65	62	50	50	45
500	230	850	1.50	375	61	66	63	52	51	47
550	255	925	1.50	375	63	68	65	54	53	48
600	280	1000	1.50	375	64	69	67	56	55	50

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	3.00	750	53	46	43	30	35	35
100	45	170	3.00	750	54	57	52	37	40	39
150	70	250	3.00	750	54	61	56	40	44	42
200	95	340	3.00	750	56	63	59	43	46	44
250	120	420	3.00	750	56	64	59	43	47	45
300	140	510	3.00	750	57	65	60	45	48	46
350	160	590	3.00	750	60	67	63	48	50	48
400	190	680	3.00	750	61	68	64	51	52	49
450	210	760	3.00	750	63	69	66	54	53	51
500	230	850	3.00	750	64	70	67	56	55	52
550	255	925	3.00	750	66	72	69	58	56	53
600	280	1000	3.00	750	67	73	70	59	58	55

**Notes**

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Exhaust/Return sound is the noise emitted from the valve inlet into the laboratory/room.

## Phoenix Controls Accel II Airflow Control Valves

### Medium Pressure Shut Off Valves

#### Exhaust/Return Sound Power Level Performance Data

#### Size 110

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	24	85	0.60	150	39	33	28	29	31	25
100	47	170	0.60	150	40	37	34	37	34	30
150	71	255	0.60	150	45	45	38	40	35	30
200	94	340	0.60	150	46	48	39	42	37	32
250	118	425	0.60	150	49	51	40	44	38	33
300	142	510	0.60	150	49	53	40	45	40	34
350	165	595	0.60	150	51	55	45	49	43	36
400	189	680	0.60	150	53	56	46	50	45	37
450	212	765	0.60	150	55	57	47	51	46	40
500	236	850	0.60	150	56	57	48	52	48	41
550	260	934	0.60	150	57	58	49	53	49	43
600	283	1019	0.60	150	58	58	50	54	50	44
650	307	1104	0.60	150	59	58	50	54	51	45
700	330	1189	0.60	150	60	59	51	54	52	47
750	354	1274	0.60	150	60	58	51	54	53	48
800	378	1359	0.60	150	61	60	51	56	53	48
850	401	1444	0.60	150	63	60	51	55	53	48

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	24	85	2.00	500	49	44	42	43	47	41
100	47	170	2.00	500	50	47	47	49	50	47
150	71	255	2.00	500	52	54	49	51	51	47
200	94	340	2.00	500	53	58	52	52	51	48
250	118	425	2.00	500	56	57	53	53	50	47
300	142	510	2.00	500	57	60	56	55	52	48
350	165	595	2.00	500	59	66	59	62	56	51
400	189	680	2.00	500	60	66	60	64	57	52
450	212	765	2.00	500	63	69	61	65	59	53
500	236	850	2.00	500	64	69	62	66	60	55
550	260	934	2.00	500	65	70	63	67	61	56
600	283	1019	2.00	500	66	71	64	68	62	57
650	307	1104	2.00	500	67	72	64	68	63	58
700	330	1189	2.00	500	68	72	65	69	64	59
750	354	1274	2.00	500	68	72	65	69	65	60
800	378	1359	2.00	500	69	73	65	69	65	60
850	401	1444	2.00	500	70	73	65	70	65	60

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	24	85	1.00	250	43	36	34	35	38	32
100	47	170	1.00	250	44	42	40	42	41	37
150	71	255	1.00	250	47	49	43	44	42	37
200	94	340	1.00	250	49	52	45	47	43	38
250	118	425	1.00	250	52	53	46	48	43	39
300	142	510	1.00	250	52	56	47	50	45	40
350	165	595	1.00	250	55	59	51	55	48	42
400	189	680	1.00	250	56	60	52	56	50	44
450	212	765	1.00	250	59	62	53	57	51	46
500	236	850	1.00	250	60	62	54	58	53	47
550	260	934	1.00	250	61	63	55	59	54	48
600	283	1019	1.00	250	61	64	56	59	55	50
650	307	1104	1.00	250	62	64	56	60	56	51
700	330	1189	1.00	250	63	64	57	60	57	52
750	354	1274	1.00	250	64	64	57	60	58	53
800	378	1359	1.00	250	65	65	57	61	58	53
850	401	1444	1.00	250	66	65	57	61	58	53

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	24	85	2.50	625	51	46	45	45	51	45
100	47	170	2.50	625	51	48	49	51	53	50
150	71	255	2.50	625	53	55	51	53	54	50
200	94	340	2.50	625	54	60	54	54	53	50
250	118	425	2.50	625	57	59	55	55	53	50
300	142	510	2.50	625	58	62	58	57	54	51
350	165	595	2.50	625	61	68	62	65	58	53
400	189	680	2.50	625	62	68	63	66	60	55
450	212	765	2.50	625	64	71	64	68	61	56
500	236	850	2.50	625	66	71	65	69	62	57
550	260	934	2.50	625	67	73	65	70	63	58
600	283	1019	2.50	625	67	74	66	70	65	59
650	307	1104	2.50	625	68	74	67	71	65	60
700	330	1189	2.50	625	69	75	67	71	66	61
750	354	1274	2.50	625	70	75	67	72	67	62
800	378	1359	2.50	625	70	75	68	72	67	62
850	401	1444	2.50	625	72	76	68	72	68	62

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	24	85	1.50	375	47	38	39	39	43	37
100	47	170	1.50	375	47	45	44	46	46	43
150	71	255	1.50	375	50	52	47	48	47	43
200	94	340	1.50	375	51	55	49	50	47	44
250	118	425	1.50	375	55	56	51	51	47	44
300	142	510	1.50	375	55	59	52	53	49	45
350	165	595	1.50	375	57	63	56	59	53	47
400	189	680	1.50	375	59	64	57	60	54	49
450	212	765	1.50	375	61	66	58	62	56	50
500	236	850	1.50	375	62	66	59	62	57	51
550	260	934	1.50	375	63	67	60	63	58	53
600	283	1019	1.50	375	64	68	60	64	59	54
650	307	1104	1.50	375	65	69	61	65	60	55
700	330	1189	1.50	375	66	69	62	65	61	56
750	354	1274	1.50	375	66	69	62	65	62	57
800	378	1359	1.50	375	67	70	61	66	62	57
850	401	1444	1.50	375	68	70	62	66	62	57

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	24	85	3.00	750	52	47	47	48	53	47
100	47	170	3.00	750	53	48	51	53	55	53
150	71	255	3.00	750	55	56	53	55	56	53
200	94	340	3.00	750	55	62	55	56	56	53
250	118	425	3.00	750	58	60	57	56	55	52
300	142	510	3.00	750	59	64	59	58	56	53
350	165	595	3.00	750	62	70	64	67	60	56
400	189	680	3.00	750	63	70	65	68	62	57
450	212	765	3.00	750	66	73	66	70	63	58
500	236	850	3.00	750	67	73	67	71	64	59
550	260	934	3.00	750	68	75	68	72	65	60
600	283	1019	3.00	750	69	76	68	73	66	61
650	307	1104	3.00	750	70	76	69	73	67	62
700	330	1189	3.00	750	70	77	69	74	68	63
750	354	1274	3.00	750	71	77	70	74	69	64
800	378	1359	3.00	750	72	78	70	74	69	64
850	401	1444	3.00	750	73	78	70	75	69	64

#### Notes

1. All Data was obtained from testing in accordance with ASHRAE/ANSI Standard 130, *Methods of Testing Air Terminal Units*
2. DPS is the difference in static pressure across the valve.
3. Exhaust/Return sound is the noise emitted from the valve inlet into the laboratory/room.

# Phoenix Controls

## Accel II Airflow Control Valves

### Medium Pressure Shut Off Valves

### Exhaust/Return Sound Power Level Performance Data

#### Size 110 with Neutralizer

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000

50	24	85	0.60	150	39	33	28	14	21	17
100	47	170	0.60	150	40	37	34	23	24	23
150	71	255	0.60	150	45	45	38	26	25	23
200	94	340	0.60	150	46	48	39	29	27	24
250	118	425	0.60	150	49	51	40	29	30	26
300	142	510	0.60	150	49	53	40	30	32	27
350	165	595	0.60	150	51	55	45	33	34	29
400	189	680	0.60	150	53	56	46	34	35	30
450	212	765	0.60	150	55	57	47	35	37	33
500	236	850	0.60	150	56	57	48	36	38	34
550	260	934	0.60	150	57	58	49	38	40	36
600	283	1019	0.60	150	58	58	50	39	41	38
650	307	1104	0.60	150	59	58	50	40	43	39
700	330	1189	0.60	150	60	59	51	40	43	40
750	354	1274	0.60	150	60	58	51	40	43	40
800	378	1359	0.60	150	61	60	51	41	43	40
850	401	1444	0.60	150	63	60	51	41	44	41

50	24	85	1.00	250	43	36	34	20	28	25
100	47	170	1.00	250	44	42	40	28	31	30
150	71	255	1.00	250	47	49	43	31	31	30
200	94	340	1.00	250	49	52	45	33	33	30
250	118	425	1.00	250	52	53	46	33	35	32
300	142	510	1.00	250	52	56	47	35	37	33
350	165	595	1.00	250	55	59	51	39	39	35
400	189	680	1.00	250	56	60	52	40	41	37
450	212	765	1.00	250	59	62	53	41	42	39
500	236	850	1.00	250	60	62	54	42	44	40
550	260	934	1.00	250	61	63	55	43	45	42
600	283	1019	1.00	250	61	64	56	45	46	43
650	307	1104	1.00	250	62	64	56	46	48	44
700	330	1189	1.00	250	63	64	57	46	48	45
750	354	1274	1.00	250	64	64	57	46	48	45
800	378	1359	1.00	250	65	65	57	46	48	45
850	401	1444	1.00	250	66	65	57	47	49	46

50	24	85	1.50	375	47	38	39	24	34	30
100	47	170	1.50	375	47	45	44	32	36	35
150	71	255	1.50	375	50	52	47	34	36	36
200	94	340	1.50	375	51	55	49	36	38	36
250	118	425	1.50	375	55	56	51	37	39	37
300	142	510	1.50	375	55	59	52	38	41	38
350	165	595	1.50	375	57	63	56	43	43	40
400	189	680	1.50	375	59	64	57	45	45	42
450	212	765	1.50	375	61	66	58	45	46	43
500	236	850	1.50	375	62	66	59	47	48	45
550	260	934	1.50	375	63	67	60	48	49	46
600	283	1019	1.50	375	64	68	60	49	51	47
650	307	1104	1.50	375	65	69	61	50	52	48
700	330	1189	1.50	375	66	69	62	51	52	49
750	354	1274	1.50	375	66	69	62	51	52	49
800	378	1359	1.50	375	67	70	61	51	52	49
850	401	1444	1.50	375	68	70	62	52	53	50

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000

50	24	85	2.00	500	49	44	42	28	38	34
100	47	170	2.00	500	50	47	47	35	40	39
150	71	255	2.00	500	52	54	49	37	40	40
200	94	340	2.00	500	53	58	52	38	41	39
250	118	425	2.00	500	56	57	53	39	42	40
300	142	510	2.00	500	57	60	56	40	44	41
350	165	595	2.00	500	59	66	59	47	47	44
400	189	680	2.00	500	60	66	60	48	48	45
450	212	765	2.00	500	63	69	61	49	49	46
500	236	850	2.00	500	64	69	62	50	51	48
550	260	934	2.00	500	65	70	63	51	52	49
600	283	1019	2.00	500	66	71	64	53	53	50
650	307	1104	2.00	500	67	72	64	54	55	51
700	330	1189	2.00	500	68	72	65	54	55	52
750	354	1274	2.00	500	68	72	65	55	55	52
800	378	1359	2.00	500	69	73	65	54	55	52
850	401	1444	2.00	500	70	73	65	55	56	53

50	24	85	2.50	625	51	46	45	30	41	38
100	47	170	2.50	625	51	48	49	38	43	43
150	71	255	2.50	625	53	55	51	39	43	43
200	94	340	2.50	625	54	60	54	41	44	43
250	118	425	2.50	625	57	59	55	41	45	44
300	142	510	2.50	625	58	62	58	43	46	44
350	165	595	2.50	625	61	68	62	49	49	46
400	189	680	2.50	625	62	68	63	51	51	48
450	212	765	2.50	625	64	71	64	51	52	49
500	236	850	2.50	625	66	71	65	53	53	50
550	260	934	2.50	625	67	73	65	54	55	52
600	283	1019	2.50	625	67	74	66	55	56	53
650	307	1104	2.50	625	68	74	67	56	57	54
700	330	1189	2.50	625	69	75	67	57	57	54
750	354	1274	2.50	625	70	75	67	58	57	55
800	378	1359	2.50	625	70	75	68	57	58	55
850	401	1444	2.50	625	72	76	68	58	58	55

50	24	85	3.00	750	52	47	47	33	44	40
100	47	170	3.00	750	53	48	51	40	45	45
150	71	255	3.00	750	55	56	53	41	46	46
200	94	340	3.00	750	55	62	55	42	46	45
250	118	425	3.00	750	58	60	57	42	47	46
300	142	510	3.00	750	59	64	59	45	48	47
350	165	595	3.00	750	62	70	64	52	51	49
400	189	680	3.00	750	63	70	65	53	52	50
450	212	765	3.00	750	66	73	66	54	54	51
500	236	850	3.00	750	67	73	67	55	55	52
550	260	934	3.00	750	68	75	68	56	56	54
600	283	1019	3.00	750	69	76	68	57	58	55
650	307	1104	3.00	750	70	76	69	59	59	56
700	330	1189	3.00	750	70	77	69	59	59	56
750	354	1274	3.00	750	71	77	70	60	59	57
800	378	1359	3.00	750	72	78	70	59	59	57
850	401	1444	3.00	750	73	78	70	60	60	57

**Notes**

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Exhaust/Return sound is the noise emitted from the valve inlet into the laboratory/room.

## Phoenix Controls Accel II Airflow Control Valves

### Medium Pressure Shut Off Valves

### Exhaust/Return Sound Power Level Performance Data

#### Size 112

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	0.60	150	41	41	41	40	35	28
300	142	510	0.60	150	44	45	44	44	38	33
400	189	680	0.60	150	46	46	45	46	42	37
500	236	850	0.60	150	49	51	47	49	44	41
600	283	1019	0.60	150	51	52	47	50	46	41
700	330	1189	0.60	150	53	54	48	51	48	43
800	378	1359	0.60	150	55	56	49	51	50	45
900	425	1529	0.60	150	57	56	49	53	51	47
1000	472	1699	0.60	150	59	57	50	54	52	48
1100	519	1869	0.60	150	59	57	51	54	53	49
1200	566	2039	0.60	150	61	57	51	56	53	49
1300	614	2209	0.60	150	63	58	52	57	54	50

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	2.00	500	51	55	51	52	48	43
300	142	510	2.00	500	54	59	56	57	51	46
400	189	680	2.00	500	56	63	58	61	54	49
500	236	850	2.00	500	58	65	59	63	58	52
600	283	1019	2.00	500	61	66	61	64	60	54
700	330	1189	2.00	500	62	68	61	65	60	55
800	378	1359	2.00	500	64	69	62	66	61	56
900	425	1529	2.00	500	65	70	63	67	62	58
1000	472	1699	2.00	500	67	71	63	68	63	60
1100	519	1869	2.00	500	67	71	63	69	64	60
1200	566	2039	2.00	500	70	72	64	70	65	60
1300	614	2209	2.00	500	71	72	64	70	65	60

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	1.00	250	45	48	45	45	40	34
300	142	510	1.00	250	48	52	49	50	43	39
400	189	680	1.00	250	50	54	51	52	47	42
500	236	850	1.00	250	53	56	51	55	53	47
600	283	1019	1.00	250	55	58	53	56	54	49
700	330	1189	1.00	250	57	60	54	57	56	51
800	378	1359	1.00	250	59	61	54	57	57	50
900	425	1529	1.00	250	60	62	55	59	56	52
1000	472	1699	1.00	250	62	63	55	60	57	53
1100	519	1869	1.00	250	62	63	56	60	59	55
1200	566	2039	1.00	250	65	63	56	62	59	56
1300	614	2209	1.00	250	66	64	57	62	60	57

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	2.50	625	53	57	53	55	50	46
300	142	510	2.50	625	56	62	58	60	53	49
400	189	680	2.50	625	58	65	61	63	56	52
500	236	850	2.50	625	60	67	62	66	59	55
600	283	1019	2.50	625	62	69	63	67	62	56
700	330	1189	2.50	625	64	71	64	68	62	57
800	378	1359	2.50	625	66	72	64	69	63	59
900	425	1529	2.50	625	67	73	65	70	64	60
1000	472	1699	2.50	625	68	74	66	71	65	62
1100	519	1869	2.50	625	69	74	66	71	66	62
1200	566	2039	2.50	625	71	74	66	72	67	63
1300	614	2209	2.50	625	72	75	66	73	67	63

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	1.50	375	49	52	49	49	45	39
300	142	510	1.50	375	52	56	53	54	47	43
400	189	680	1.50	375	54	59	55	57	51	47
500	236	850	1.50	375	56	61	56	60	56	49
600	283	1019	1.50	375	58	63	56	61	58	51
700	330	1189	1.50	375	60	65	58	62	58	52
800	378	1359	1.50	375	62	66	58	62	58	53
900	425	1529	1.50	375	63	67	59	64	60	56
1000	472	1699	1.50	375	65	67	60	64	61	57
1100	519	1869	1.50	375	65	68	60	65	61	57
1200	566	2039	1.50	375	68	68	61	66	62	58
1300	614	2209	1.50	375	69	68	61	67	62	58

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	3.00	750	54	59	55	57	53	48
300	142	510	3.00	750	57	64	60	62	55	51
400	189	680	3.00	750	59	68	63	66	57	54
500	236	850	3.00	750	61	70	64	68	61	56
600	283	1019	3.00	750	64	72	65	69	63	57
700	330	1189	3.00	750	65	73	66	70	64	59
800	378	1359	3.00	750	67	75	66	71	65	60
900	425	1529	3.00	750	68	75	67	72	66	62
1000	472	1699	3.00	750	70	76	68	73	67	63
1100	519	1869	3.00	750	70	76	68	74	68	64
1200	566	2039	3.00	750	72	77	68	75	69	64
1300	614	2209	3.00	750	74	77	68	75	69	65

#### Notes

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Exhaust/Return sound is the noise emitted from the valve inlet into the laboratory/room.

## Phoenix Controls Accel II Airflow Control Valves

### Medium Pressure Shut Off Valves

#### Exhaust/Return Sound Power Level Performance Data

##### Size 112 with Neutralizer

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	0.60	150	41	41	41	28	25	22
300	142	510	0.60	150	44	45	44	33	29	28
400	189	680	0.60	150	46	46	45	35	33	32
500	236	850	0.60	150	49	51	47	37	34	35
600	283	1019	0.60	150	51	52	47	39	36	35
700	330	1189	0.60	150	53	54	48	39	38	37
800	378	1359	0.60	150	55	56	49	40	40	39
900	425	1529	0.60	150	57	56	49	42	42	41
1000	472	1699	0.60	150	59	57	50	42	43	42
1100	519	1869	0.60	150	59	57	51	43	44	43
1200	566	2039	0.60	150	61	57	51	45	44	44
1300	614	2209	0.60	150	63	58	52	45	45	44

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	2.00	500	51	55	51	41	39	37
300	142	510	2.00	500	54	59	56	46	42	41
400	189	680	2.00	500	56	63	58	50	45	44
500	236	850	2.00	500	58	65	59	52	48	47
600	283	1019	2.00	500	61	66	61	53	50	48
700	330	1189	2.00	500	62	68	61	54	51	49
800	378	1359	2.00	500	64	69	62	55	51	51
900	425	1529	2.00	500	65	70	63	56	53	52
1000	472	1699	2.00	500	67	71	63	56	54	54
1100	519	1869	2.00	500	67	71	63	57	55	54
1200	566	2039	2.00	500	70	72	64	58	55	55
1300	614	2209	2.00	500	71	72	64	59	56	55

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	1.00	250	45	48	45	34	31	28
300	142	510	1.00	250	48	52	49	38	34	34
400	189	680	1.00	250	50	54	51	41	38	37
500	236	850	1.00	250	53	56	51	43	43	42
600	283	1019	1.00	250	55	58	53	45	45	43
700	330	1189	1.00	250	57	60	54	45	46	45
800	378	1359	1.00	250	59	61	54	46	48	45
900	425	1529	1.00	250	60	62	55	48	47	46
1000	472	1699	1.00	250	62	63	55	48	48	47
1100	519	1869	1.00	250	62	63	56	49	50	49
1200	566	2039	1.00	250	65	63	56	50	50	51
1300	614	2209	1.00	250	66	64	57	51	51	51

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	2.50	625	53	57	53	43	41	40
300	142	510	2.50	625	56	62	58	48	44	43
400	189	680	2.50	625	58	65	61	52	47	47
500	236	850	2.50	625	60	67	62	55	50	50
600	283	1019	2.50	625	62	69	63	56	52	50
700	330	1189	2.50	625	64	71	64	56	53	52
800	378	1359	2.50	625	66	72	64	58	53	53
900	425	1529	2.50	625	67	73	65	59	55	54
1000	472	1699	2.50	625	68	74	66	59	56	56
1100	519	1869	2.50	625	69	74	66	60	57	56
1200	566	2039	2.50	625	71	74	66	61	57	57
1300	614	2209	2.50	625	72	75	66	62	58	57

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	1.50	375	49	52	49	38	35	33
300	142	510	1.50	375	52	56	53	43	38	38
400	189	680	1.50	375	54	59	55	46	42	41
500	236	850	1.50	375	56	61	56	48	46	44
600	283	1019	1.50	375	58	63	56	50	48	46
700	330	1189	1.50	375	60	65	58	50	48	46
800	378	1359	1.50	375	62	66	58	51	49	48
900	425	1529	1.50	375	63	67	59	52	50	50
1000	472	1699	1.50	375	65	67	60	53	52	51
1100	519	1869	1.50	375	65	68	60	53	52	51
1200	566	2039	1.50	375	68	68	61	55	53	52
1300	614	2209	1.50	375	69	68	61	56	53	53

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	3.00	750	54	59	55	45	44	42
300	142	510	3.00	750	57	64	60	50	46	45
400	189	680	3.00	750	59	68	63	54	48	48
500	236	850	3.00	750	61	70	64	57	52	51
600	283	1019	3.00	750	64	72	65	58	54	52
700	330	1189	3.00	750	65	73	66	59	55	53
800	378	1359	3.00	750	67	75	66	60	55	55
900	425	1529	3.00	750	68	75	67	61	57	56
1000	472	1699	3.00	750	70	76	68	61	58	57
1100	519	1869	3.00	750	70	76	68	62	59	58
1200	566	2039	3.00	750	72	77	68	63	59	59
1300	614	2209	3.00	750	74	77	68	64	60	59

#### Notes

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Exhaust/Return sound is the noise emitted from the valve inlet into the laboratory/room.

## Phoenix Controls Accel II Airflow Control Valves

### Medium Pressure Shut Off Valves

#### Exhaust/Return Sound Power Level Performance Data

Size 114

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	125	250	500	1000	2000	4000
200	94	340	0.60	150	39	46	36	38	20	10
300	142	510	0.60	150	43	47	39	42	28	19
400	189	680	0.60	150	47	49	41	44	33	26
500	236	850	0.60	150	49	49	43	46	38	31
600	283	1019	0.60	150	51	50	44	48	41	35
700	330	1189	0.60	150	53	51	45	50	44	38
800	378	1359	0.60	150	54	51	46	51	46	41
900	425	1529	0.60	150	55	52	47	52	49	44
1000	472	1699	0.60	150	56	52	48	53	51	46
1100	519	1869	0.60	150	57	53	48	54	52	48
1200	566	2039	0.60	150	58	53	49	55	54	50
1300	614	2209	0.60	150	59	53	49	55	56	52
1400	661	2379	0.60	150	60	54	50	56	57	54
1500	708	2549	0.60	150	61	54	50	57	58	55
1600	755	2718	0.60	150	62	54	51	57	60	57

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	125	250	500	1000	2000	4000
200	94	340	2.00	500	48	59	51	51	32	23
300	142	510	2.00	500	53	60	54	55	40	32
400	189	680	2.00	500	56	62	56	58	46	38
500	236	850	2.00	500	58	63	57	60	50	44
600	283	1019	2.00	500	60	63	59	62	54	48
700	330	1189	2.00	500	62	64	60	63	57	51
800	378	1359	2.00	500	63	65	61	65	60	54
900	425	1529	2.00	500	64	65	61	66	62	57
1000	472	1699	2.00	500	65	66	62	67	64	59
1100	519	1869	2.00	500	66	66	63	68	66	61
1200	566	2039	2.00	500	67	66	63	68	68	63
1300	614	2209	2.00	500	68	67	64	69	69	65
1400	661	2379	2.00	500	69	67	64	70	71	67
1500	708	2549	2.00	500	70	67	65	71	72	68
1600	755	2718	2.00	500	70	68	65	71	73	70

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	125	250	500	1000	2000	4000
200	94	340	1.00	250	43	51	43	44	24	17
300	142	510	1.00	250	47	53	45	47	32	26
400	189	680	1.00	250	50	54	47	50	38	32
500	236	850	1.00	250	53	55	49	52	42	37
600	283	1019	1.00	250	55	56	50	54	46	41
700	330	1189	1.00	250	56	56	51	55	49	44
800	378	1359	1.00	250	58	57	52	57	52	47
900	425	1529	1.00	250	59	57	53	58	54	50
1000	472	1699	1.00	250	60	58	54	59	56	52
1100	519	1869	1.00	250	61	58	54	60	58	54
1200	566	2039	1.00	250	62	59	55	60	60	56
1300	614	2209	1.00	250	63	59	56	61	61	58
1400	661	2379	1.00	250	64	59	56	62	63	59
1500	708	2549	1.00	250	65	60	57	62	64	61
1600	755	2718	1.00	250	65	60	57	63	65	62

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	125	250	500	1000	2000	4000
200	94	340	2.50	625	50	61	54	54	34	25
300	142	510	2.50	625	54	63	57	58	42	34
400	189	680	2.50	625	57	64	59	61	48	41
500	236	850	2.50	625	60	65	60	63	53	46
600	283	1019	2.50	625	62	66	61	64	56	50
700	330	1189	2.50	625	63	67	62	66	59	54
800	378	1359	2.50	625	65	67	63	67	62	57
900	425	1529	2.50	625	66	68	64	68	64	59
1000	472	1699	2.50	625	67	68	65	69	67	62
1100	519	1869	2.50	625	68	69	65	70	69	64
1200	566	2039	2.50	625	69	69	66	71	70	66
1300	614	2209	2.50	625	70	69	67	72	72	68
1400	661	2379	2.50	625	70	70	67	73	73	69
1500	708	2549	2.50	625	71	70	68	73	75	71
1600	755	2718	2.50	625	72	70	68	74	76	72

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	125	250	500	1000	2000	4000
200	94	340	1.50	375	46	56	48	48	30	20
300	142	510	1.50	375	50	57	50	52	38	29
400	189	680	1.50	375	53	59	52	55	44	35
500	236	850	1.50	375	56	59	54	57	48	40
600	283	1019	1.50	375	58	60	55	58	51	45
700	330	1189	1.50	375	59	61	56	60	54	48
800	378	1359	1.50	375	61	61	57	61	57	51
900	425	1529	1.50	375	62	62	58	62	59	54
1000	472	1699	1.50	375	63	62	59	63	61	56
1100	519	1869	1.50	375	64	63	59	64	63	58
1200	566	2039	1.50	375	65	63	60	65	65	60
1300	614	2209	1.50	375	66	64	60	66	66	62
1400	661	2379	1.50	375	67	64	61	66	67	64
1500	708	2549	1.50	375	67	64	61	67	69	65
1600	755	2718	1.50	375	68	64	62	68	70	67

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	125	250	500	1000	2000	4000
200	94	340	3.00	750	51	63	56	56	36	27
300	142	510	3.00	750	56	65	59	60	45	36
400	189	680	3.00	750	59	66	61	63	50	43
500	236	850	3.00	750	61	67	62	65	55	48
600	283	1019	3.00	750	63	68	64	67	58	52
700	330	1189	3.00	750	65	69	65	68	62	56
800	378	1359	3.00	750	66	69	65	69	64	59
900	425	1529	3.00	750	67	70	66	71	67	61
1000	472	1699	3.00	750	68	70	67	72	69	64
1100	519	1869	3.00	750	69	71	68	72	71	66
1200	566	2039	3.00	750	70	71	68	73	72	68
1300	614	2209	3.00	750	71	71	69	74	74	70
1400	661	2379	3.00	750	72	72	69	75	75	71
1500	708	2549	3.00	750	73	72	70	75	77	73
1600	755	2718	3.00	750	73	72	70	76	78	74

**Notes**

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Exhaust/Return sound is the noise emitted from the valve inlet into the laboratory/room.



# Phoenix Controls Accel II Airflow Control Valves

## Medium Pressure Shut Off Valves

### Exhaust/Return Sound Power Level Performance Data

#### Size 114 with Neutralizer

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	125	250	500	1000	2000	4000
200	94	340	0.60	150	39	46	36	28	13	< 10
300	142	510	0.60	150	43	47	39	32	20	12
400	189	680	0.60	150	47	49	41	35	26	18
500	236	850	0.60	150	49	49	43	37	30	23
600	283	1019	0.60	150	51	50	44	38	33	28
700	330	1189	0.60	150	53	51	45	40	36	31
800	378	1359	0.60	150	54	51	46	41	39	34
900	425	1529	0.60	150	55	52	47	42	41	37
1000	472	1699	0.60	150	56	52	48	43	43	39
1100	519	1869	0.60	150	57	53	48	44	45	41
1200	566	2039	0.60	150	58	53	49	45	46	43
1300	614	2209	0.60	150	59	53	49	46	48	45
1400	661	2379	0.60	150	60	54	50	46	49	46
1500	708	2549	0.60	150	61	54	50	47	51	48
1600	755	2718	0.60	150	62	54	51	47	52	49
200	94	340	1.00	250	43	51	43	34	16	10
300	142	510	1.00	250	47	53	45	38	24	19
400	189	680	1.00	250	50	54	47	40	30	25
500	236	850	1.00	250	53	55	49	42	35	30
600	283	1019	1.00	250	55	56	50	44	38	34
700	330	1189	1.00	250	56	56	51	45	41	37
800	378	1359	1.00	250	58	57	52	47	44	40
900	425	1529	1.00	250	59	57	53	48	46	42
1000	472	1699	1.00	250	60	58	54	49	48	45
1100	519	1869	1.00	250	61	58	54	50	50	47
1200	566	2039	1.00	250	62	59	55	51	52	49
1300	614	2209	1.00	250	63	59	56	51	54	50
1400	661	2379	1.00	250	64	59	56	52	55	52
1500	708	2549	1.00	250	65	60	57	53	56	54
1600	755	2718	1.00	250	65	60	57	53	58	55
200	94	340	2.00	500	48	59	51	42	24	19
300	142	510	2.00	500	53	60	54	45	32	28
400	189	680	2.00	500	56	62	56	48	38	34
500	236	850	2.00	500	58	63	57	50	42	39
600	283	1019	2.00	500	60	63	59	52	46	43
700	330	1189	2.00	500	62	64	60	53	49	47
800	378	1359	2.00	500	63	65	61	55	52	50
900	425	1529	2.00	500	64	65	61	56	54	53
1000	472	1699	2.00	500	65	66	62	57	56	55
1100	519	1869	2.00	500	66	66	63	58	58	57
1200	566	2039	2.00	500	67	66	63	59	60	59
1300	614	2209	2.00	500	68	67	64	59	62	61
1400	661	2379	2.00	500	69	67	64	60	63	63
1500	708	2549	2.00	500	70	67	65	61	64	64
1600	755	2718	2.00	500	70	68	65	61	66	66
200	94	340	2.50	625	50	61	54	44	27	18
300	142	510	2.50	625	54	63	57	48	35	27
400	189	680	2.50	625	57	64	59	51	40	34
500	236	850	2.50	625	60	65	60	53	45	39
600	283	1019	2.50	625	62	66	61	55	49	43
700	330	1189	2.50	625	63	67	62	56	52	46
800	378	1359	2.50	625	65	67	63	57	54	49
900	425	1529	2.50	625	66	68	64	59	57	52
1000	472	1699	2.50	625	67	68	65	60	59	54
1100	519	1869	2.50	625	68	69	65	60	61	57
1200	566	2039	2.50	625	69	69	66	61	62	58
1300	614	2209	2.50	625	70	69	67	62	64	60
1400	661	2379	2.50	625	70	70	67	63	66	62
1500	708	2549	2.50	625	71	70	68	63	67	64
1600	755	2718	2.50	625	72	70	68	64	68	65
200	94	340	3.00	750	51	63	56	46	29	20
300	142	510	3.00	750	56	65	59	50	37	29
400	189	680	3.00	750	59	66	61	53	43	36
500	236	850	3.00	750	61	67	62	55	47	41
600	283	1019	3.00	750	63	68	64	57	51	45
700	330	1189	3.00	750	65	69	65	58	54	48
800	378	1359	3.00	750	66	69	65	60	56	51
900	425	1529	3.00	750	67	70	66	61	59	54
1000	472	1699	3.00	750	68	70	67	62	61	56
1100	519	1869	3.00	750	69	71	68	63	63	59
1200	566	2039	3.00	750	70	71	68	64	65	60
1300	614	2209	3.00	750	71	71	69	64	66	62
1400	661	2379	3.00	750	72	72	69	65	68	64
1500	708	2549	3.00	750	73	72	70	66	69	66
1600	755	2718	3.00	750	73	72	70	66	70	67

#### Notes

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Exhaust/Return sound is the noise emitted from the valve inlet into the laboratory/room.

# Phoenix Controls Accel II Airflow Control Valves

## Medium Pressure Shut Off Valves

### Exhaust/Return Sound Power Level Performance Data

#### Size 210

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	0.60	149	43	42	40	42	38	32
300	142	510	0.60	149	44	45	43	45	42	35
400	189	680	0.60	149	46	47	45	49	43	37
500	236	850	0.60	149	48	49	47	51	45	40
600	283	1019	0.60	149	50	51	48	52	47	42
700	330	1189	0.60	149	51	52	49	53	49	43
800	378	1359	0.60	149	53	53	50	54	50	45
900	425	1529	0.60	149	55	54	51	55	51	46
1000	472	1699	0.60	149	57	55	52	56	52	47
1100	519	1869	0.60	149	58	56	52	57	53	48
1200	566	2039	0.60	149	59	57	53	57	54	49
1300	614	2209	0.60	149	61	57	54	58	55	50
1400	661	2379	0.60	149	62	58	54	59	56	51
1500	708	2549	0.60	149	62	58	54	59	56	52
1600	755	2718	0.60	149	62	59	54	59	56	52
1700	802	2888	0.60	149	63	60	55	60	57	53

  

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	2.00	498	54	55	52	55	51	46
300	142	510	2.00	498	54	57	55	59	54	48
400	189	680	2.00	498	56	60	58	61	55	50
500	236	850	2.00	498	57	62	61	63	57	53
600	283	1019	2.00	498	59	64	62	65	59	55
700	330	1189	2.00	498	60	65	63	66	61	56
800	378	1359	2.00	498	61	66	64	67	62	58
900	425	1529	2.00	498	63	67	65	68	63	59
1000	472	1699	2.00	498	64	68	66	69	64	60
1100	519	1869	2.00	498	65	69	66	70	65	61
1200	566	2039	2.00	498	66	69	67	71	66	62
1300	614	2209	2.00	498	67	70	67	71	67	63
1400	661	2379	2.00	498	69	71	68	72	68	64
1500	708	2549	2.00	498	70	71	68	72	68	64
1600	755	2718	2.00	498	71	72	68	73	69	65
1700	802	2888	2.00	498	72	72	69	73	69	65

  

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	1.00	249	47	46	44	47	43	38
300	142	510	1.00	249	48	49	47	50	47	40
400	189	680	1.00	249	49	51	50	54	48	43
500	236	850	1.00	249	51	53	52	56	50	45
600	283	1019	1.00	249	53	55	53	58	52	47
700	330	1189	1.00	249	54	57	54	59	54	49
800	378	1359	1.00	249	56	58	55	60	55	50
900	425	1529	1.00	249	58	60	57	61	56	52
1000	472	1699	1.00	249	60	61	58	61	57	53
1100	519	1869	1.00	249	61	61	58	62	58	54
1200	566	2039	1.00	249	62	62	59	63	59	55
1300	614	2209	1.00	249	63	63	59	63	60	56
1400	661	2379	1.00	249	65	63	60	64	61	57
1500	708	2549	1.00	249	66	64	60	65	61	57
1600	755	2718	1.00	249	66	64	60	65	61	58
1700	802	2888	1.00	249	66	65	61	65	62	58

  

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	2.50	623	56	57	54	57	53	47
300	142	510	2.50	623	56	59	58	61	57	51
400	189	680	2.50	623	58	62	61	64	57	53
500	236	850	2.50	623	59	64	63	66	59	55
600	283	1019	2.50	623	60	66	64	67	61	57
700	330	1189	2.50	623	62	67	66	69	63	59
800	378	1359	2.50	623	63	68	67	70	64	60
900	425	1529	2.50	623	64	69	67	71	66	61
1000	472	1699	2.50	623	65	70	68	72	67	62
1100	519	1869	2.50	623	67	71	69	72	68	63
1200	566	2039	2.50	623	68	72	69	73	68	64
1300	614	2209	2.50	623	69	72	70	74	69	65
1400	661	2379	2.50	623	70	73	70	74	70	66
1500	708	2549	2.50	623	71	74	71	75	70	66
1600	755	2718	2.50	623	72	74	71	75	71	67
1700	802	2888	2.50	623	73	75	72	76	71	68

  

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	1.50	374	52	51	49	52	48	43
300	142	510	1.50	374	52	54	52	55	51	45
400	189	680	1.50	374	53	57	55	58	52	47
500	236	850	1.50	374	55	59	57	60	54	50
600	283	1019	1.50	374	56	61	59	62	56	51
700	330	1189	1.50	374	58	62	60	63	58	53
800	378	1359	1.50	374	59	63	61	64	59	55
900	425	1529	1.50	374	61	64	62	65	61	56
1000	472	1699	1.50	374	62	65	62	66	62	57
1100	519	1869	1.50	374	64	66	63	67	62	58
1200	566	2039	1.50	374	65	66	64	67	63	59
1300	614	2209	1.50	374	66	67	64	68	64	60
1400	661	2379	1.50	374	67	68	65	69	65	61
1500	708	2549	1.50	374	68	68	65	69	65	61
1600	755	2718	1.50	374	69	69	65	70	66	62
1700	802	2888	1.50	374	70	69	66	70	66	62

  

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	3.00	747	56	57	54	59	55	50
300	142	510	3.00	747	56	59	58	63	58	53
400	189	680	3.00	747	58	62	61	66	59	55
500	236	850	3.00	747	59	64	63	68	61	57
600	283	1019	3.00	747	60	66	64	69	63	59
700	330	1189	3.00	747	62	67	66	71	65	61
800	378	1359	3.00	747	63	68	67	72	66	62
900	425	1529	3.00	747	65	71	69	73	68	63
1000	472	1699	3.00	747	67	72	70	74	68	64
1100	519	1869	3.00	747	68	73	71	75	69	65
1200	566	2039	3.00	747	69	74	71	75	70	66
1300	614	2209	3.00	747	70	74	72	76	71	67
1400	661	2379	3.00	747	71	75	73	76	72	68
1500	708	2549	3.00	747	72	76	73	77	72	68
1600	755	2718	3.00	747	73	76	73	78	72	69
1700	802	2888	3.00	747	74	77	74	78	73	70

#### Notes

- All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
- DPS is the difference in static pressure across the valve.
- Exhaust/Return sound is the noise emitted from the valve inlet into the laboratory/room.

**Phoenix Controls**  
**Accel II Airflow Control Valves**

**Medium Pressure Shut Off Valves**

**Exhaust/Return Sound Power Level Performance Data**

**Size 210 with Neutralizer**

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	0.60	149	43	42	40	31	31	26
300	142	510	0.60	149	44	45	43	33	34	28
400	189	680	0.60	149	46	47	45	37	35	30
500	236	850	0.60	149	48	49	47	39	37	33
600	283	1019	0.60	149	50	51	48	40	40	35
700	330	1189	0.60	149	51	52	49	41	41	36
800	378	1359	0.60	149	53	53	50	43	43	38
900	425	1529	0.60	149	55	54	51	44	44	40
1000	472	1699	0.60	149	57	55	52	44	45	41
1100	519	1869	0.60	149	58	56	52	45	46	42
1200	566	2039	0.60	149	59	57	53	46	47	44
1300	614	2209	0.60	149	61	57	54	47	48	44
1400	661	2379	0.60	149	62	58	54	47	49	45
1500	708	2549	0.60	149	62	58	54	48	49	46
1600	755	2718	0.60	149	62	59	54	48	50	47
1700	802	2888	0.60	149	63	60	55	49	51	47

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	189	680	2.00	498	54	55	52	43	43	39
300	283	1019	2.00	498	54	57	55	47	47	41
400	378	1359	2.00	498	56	60	58	50	48	43
500	472	1699	2.00	498	57	62	61	52	49	46
600	566	2039	2.00	498	59	64	62	53	51	48
700	661	2379	2.00	498	60	65	63	55	53	50
800	755	2718	2.00	498	61	66	64	56	55	51
900	850	3058	2.00	498	63	67	65	57	56	53
1000	944	3398	2.00	498	64	68	66	58	57	54
1100	1038	3738	2.00	498	65	69	66	58	58	55
1200	1133	4078	2.00	498	66	69	67	59	59	56
1300	1227	4417	2.00	498	67	70	67	60	60	57
1400	1321	4757	2.00	498	69	71	68	60	61	58
1500	1416	5097	2.00	498	70	71	68	61	61	58
1600	1510	5437	2.00	498	71	72	68	61	62	59
1700	1605	5777	2.00	498	72	72	69	62	63	60

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	136	491	1.00	249	47	46	44	36	36	31
300	205	736	1.00	249	48	49	47	38	39	34
400	273	982	1.00	249	49	51	50	42	41	36
500	341	1227	1.00	249	51	53	52	44	42	38
600	409	1472	1.00	249	53	55	53	46	45	40
700	477	1718	1.00	249	54	57	54	47	46	42
800	545	1963	1.00	249	56	58	55	48	48	43
900	614	2209	1.00	249	57	59	56	48	48	44
1000	683	2455	1.00	249	59	59	56	49	49	46
1100	752	2700	1.00	249	61	60	57	50	50	47
1200	821	2946	1.00	249	62	61	58	50	51	48
1300	890	3191	1.00	249	63	62	58	51	52	49
1400	959	3437	1.00	249	64	62	59	52	53	50
1500	1028	3682	1.00	249	65	63	59	52	53	50
1600	1097	3928	1.00	249	65	63	59	52	54	51
1700	1166	4173	1.00	249	66	64	60	53	55	52

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	2.50	623	56	57	54	45	46	41
300	142	510	2.50	623	56	59	58	49	49	44
400	189	680	2.50	623	58	62	61	52	50	46
500	236	850	2.50	623	59	64	63	54	51	48
600	283	1019	2.50	623	60	66	64	56	54	50
700	330	1189	2.50	623	62	67	66	57	55	52
800	378	1359	2.50	623	63	68	67	58	57	53
900	425	1529	2.50	623	64	69	67	59	58	55
1000	472	1699	2.50	623	65	70	68	60	59	56
1100	519	1869	2.50	623	67	71	69	61	60	57
1200	566	2039	2.50	623	68	72	69	61	61	58
1300	614	2209	2.50	623	69	72	70	62	62	59
1400	661	2379	2.50	623	70	73	70	63	63	60
1500	708	2549	2.50	623	71	74	71	63	64	61
1600	755	2718	2.50	623	72	74	71	64	64	61
1700	802	2888	2.50	623	73	75	72	65	65	62

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	189	680	1.50	374	52	51	49	40	40	36
300	283	1019	1.50	374	52	54	52	44	44	38
400	378	1359	1.50	374	53	57	55	47	45	40
500	472	1699	1.50	374	55	59	57	48	46	43
600	566	2039	1.50	374	56	61	59	50	49	45
700	661	2379	1.50	374	58	62	60	52	50	46
800	755	2718	1.50	374	59	63	61	53	52	48
900	850	3058	1.50	374	61	64	62	54	53	50
1000	944	3398	1.50	374	62	65	62	54	54	51
1100	1038	3738	1.50	374	64	66	63	55	55	52
1200	1133	4078	1.50	374	65	66	64	56	56	53
1300	1227	4417	1.50	374	66	67	64	57	57	54
1400	1321	4757	1.50	374	67	68	65	57	58	55
1500	1416	5097	1.50	374	68	68	65	58	59	55
1600	1510	5437	1.50	374	69	69	65	58	59	56
1700	1605	5777	1.50	374	70	69	66	59	60	57

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	94	340	3.00	747	56	57	54	47	48	43
300	142	510	3.00	747	56	59	58	51	51	46
400	189	680	3.00	747	58	62	61	54	52	48
500	236	850	3.00	747	59	64	63	56	53	50
600	283	1019	3.00	747	60	66	64	58	55	52
700	330	1189	3.00	747	62	67	66	59	57	54
800	378	1359	3.00	747	63	68	67	60	59	55
900	425	1529	3.00	747	65	71	69	61	60	57
1000	472	1699	3.00	747	67	72	70	62	61	58
1100	519	1869	3.00	747	68	73	71	63	62	59
1200	566	2039	3.00	747	69	74	71	64	63	60
1300	614	2209	3.00	747	70	74	72	64	64	61
1400	661	2379	3.00	747	71	75	73	65	65	62
1500	708	2549	3.00	747	72	76	73	65	65	63
1600	755	2718	3.00	747	73	76	73	66	66	63
1700	802	2888	3.00	747	74	77	74	67	67	64

**Notes**

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Exhaust/Return sound is the noise emitted from the valve inlet into the laboratory/room.

## Phoenix Controls Accel II Airflow Control Valves

### Medium Pressure Shut Off Valves

#### Exhaust/Return Sound Power Level Performance Data

#### Size 212

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	0.60	150	39	34	31	45	40	22
600	283	1019	0.60	150	42	41	38	49	45	31
800	378	1359	0.60	150	47	46	43	52	49	37
1000	472	1699	0.60	150	51	50	47	54	51	43
1200	566	2039	0.60	150	54	52	50	56	53	47
1400	661	2379	0.60	150	56	54	52	58	55	51
1600	755	2718	0.60	150	57	56	54	59	56	54
1800	850	3058	0.60	150	59	57	56	60	57	56
2000	944	3398	0.60	150	60	58	57	61	58	58
2200	1038	3738	0.60	150	62	59	58	61	59	60
2400	1133	4078	0.60	150	64	60	59	62	60	61
2600	1227	4417	0.60	150	66	61	60	63	61	64

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	2.00	500	50	50	43	57	52	33
600	283	1019	2.00	500	53	56	49	62	56	42
800	378	1359	2.00	500	58	61	54	64	60	49
1000	472	1699	2.00	500	62	65	58	67	62	54
1200	566	2039	2.00	500	65	68	62	69	64	59
1400	661	2379	2.00	500	67	70	65	70	66	63
1600	755	2718	2.00	500	68	71	66	71	67	65
1800	850	3058	2.00	500	70	72	67	72	68	65
2000	944	3398	2.00	500	71	73	68	73	69	66
2200	1038	3738	2.00	500	72	74	69	74	69	67
2400	1133	4078	2.00	500	74	74	70	74	70	68
2600	1227	4417	2.00	500	75	74	71	75	71	70

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	1.00	250	44	41	36	50	45	27
600	283	1019	1.00	250	47	47	43	54	50	36
800	378	1359	1.00	250	51	52	48	57	54	42
1000	472	1699	1.00	250	56	56	52	60	56	48
1200	566	2039	1.00	250	58	59	55	62	57	52
1400	661	2379	1.00	250	60	61	58	63	59	56
1600	755	2718	1.00	250	62	62	59	64	61	59
1800	850	3058	1.00	250	64	64	60	65	62	60
2000	944	3398	1.00	250	65	65	62	66	63	61
2200	1038	3738	1.00	250	66	65	63	67	63	63
2400	1133	4078	1.00	250	68	66	64	67	64	64
2600	1227	4417	1.00	250	70	67	65	68	65	66

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	2.50	625	52	53	45	60	54	35
600	283	1019	2.50	625	55	59	52	64	58	44
800	378	1359	2.50	625	60	64	57	66	62	51
1000	472	1699	2.50	625	65	68	61	69	64	56
1200	566	2039	2.50	625	67	71	64	71	66	61
1400	661	2379	2.50	625	69	73	67	72	67	65
1600	755	2718	2.50	625	71	74	68	74	69	67
1800	850	3058	2.50	625	72	75	69	75	70	67
2000	944	3398	2.50	625	73	76	70	75	71	68
2200	1038	3738	2.50	625	74	76	71	76	71	69
2400	1133	4078	2.50	625	75	77	72	77	72	70
2600	1227	4417	2.50	625	77	77	73	77	73	71

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	1.50	375	48	46	40	54	49	30
600	283	1019	1.50	375	51	52	47	59	54	40
800	378	1359	1.50	375	55	57	52	61	57	46
1000	472	1699	1.50	375	60	61	56	64	59	51
1200	566	2039	1.50	375	62	64	59	66	61	56
1400	661	2379	1.50	375	64	66	62	67	63	60
1600	755	2718	1.50	375	66	68	63	68	64	62
1800	850	3058	1.50	375	67	69	64	69	66	63
2000	944	3398	1.50	375	68	70	66	70	66	64
2200	1038	3738	1.50	375	70	70	67	71	67	65
2400	1133	4078	1.50	375	71	70	68	71	68	67
2600	1227	4417	1.50	375	72	71	68	72	69	68

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	3.00	750	54	56	47	61	56	37
600	283	1019	3.00	750	57	62	53	66	60	46
800	378	1359	3.00	750	62	66	58	68	63	53
1000	472	1699	3.00	750	66	70	63	71	65	58
1200	566	2039	3.00	750	69	74	66	73	67	63
1400	661	2379	3.00	750	71	76	69	74	69	67
1600	755	2718	3.00	750	72	77	70	75	71	68
1800	850	3058	3.00	750	74	78	71	76	72	68
2000	944	3398	3.00	750	75	79	72	77	72	69
2200	1038	3738	3.00	750	76	79	73	78	73	70
2400	1133	4078	3.00	750	77	79	74	78	73	71
2600	1227	4417	3.00	750	78	79	75	79	74	72

#### Notes

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130**, *Methods of Testing Air Terminal Units*
2. DPS is the difference in static pressure across the valve.
3. Exhaust/Return sound is the noise emitted from the valve inlet into the laboratory/room.

## Phoenix Controls Accel II Airflow Control Valves

### Medium Pressure Shut Off Valves

#### Exhaust/Return Sound Power Level Performance Data

##### Size 212 with Neutralizer

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	0.60	150	39	34	31	33	29	16
600	283	1019	0.60	150	42	41	38	37	34	25
800	378	1359	0.60	150	47	46	43	40	38	31
1000	472	1699	0.60	150	51	50	47	42	40	37
1200	566	2039	0.60	150	54	52	50	44	42	41
1400	661	2379	0.60	150	56	54	52	46	44	45
1600	755	2718	0.60	150	57	56	54	47	45	48
1800	850	3058	0.60	150	59	57	56	48	46	50
2000	944	3398	0.60	150	60	58	57	49	47	52
2200	1038	3738	0.60	150	62	59	58	49	48	54
2400	1133	4078	0.60	150	64	60	59	50	49	55
2600	1227	4417	0.60	150	66	61	60	51	50	58

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	2.00	500	50	50	43	45	41	27
600	283	1019	2.00	500	53	56	49	50	45	36
800	378	1359	2.00	500	58	61	54	52	49	43
1000	472	1699	2.00	500	62	65	58	55	51	48
1200	566	2039	2.00	500	65	68	62	57	53	53
1400	661	2379	2.00	500	67	70	65	58	55	57
1600	755	2718	2.00	500	68	71	66	59	56	59
1800	850	3058	2.00	500	70	72	67	60	57	59
2000	944	3398	2.00	500	71	73	68	61	58	60
2200	1038	3738	2.00	500	72	74	69	62	58	61
2400	1133	4078	2.00	500	74	74	70	62	59	62
2600	1227	4417	2.00	500	75	74	71	63	60	64

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	1.00	250	44	41	36	38	34	21
600	283	1019	1.00	250	47	47	43	42	39	30
800	378	1359	1.00	250	51	52	48	45	43	36
1000	472	1699	1.00	250	56	56	52	48	45	42
1200	566	2039	1.00	250	58	59	55	50	46	46
1400	661	2379	1.00	250	60	61	58	51	48	50
1600	755	2718	1.00	250	62	62	59	52	50	53
1800	850	3058	1.00	250	64	64	60	53	51	54
2000	944	3398	1.00	250	65	65	62	54	52	55
2200	1038	3738	1.00	250	66	65	63	55	52	57
2400	1133	4078	1.00	250	68	66	64	55	53	58
2600	1227	4417	1.00	250	70	67	65	56	54	60

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	2.50	625	52	53	45	48	43	29
600	283	1019	2.50	625	55	59	52	52	47	38
800	378	1359	2.50	625	60	64	57	54	51	45
1000	472	1699	2.50	625	65	68	61	57	53	50
1200	566	2039	2.50	625	67	71	64	59	55	55
1400	661	2379	2.50	625	69	73	67	60	56	59
1600	755	2718	2.50	625	71	74	68	62	58	61
1800	850	3058	2.50	625	72	75	69	63	59	61
2000	944	3398	2.50	625	73	76	70	63	60	62
2200	1038	3738	2.50	625	74	76	71	64	60	63
2400	1133	4078	2.50	625	75	77	72	65	61	64
2600	1227	4417	2.50	625	77	77	73	65	62	65

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	1.50	375	48	46	40	42	38	24
600	283	1019	1.50	375	51	52	47	47	43	34
800	378	1359	1.50	375	55	57	52	49	46	40
1000	472	1699	1.50	375	60	61	56	52	48	45
1200	566	2039	1.50	375	62	64	59	54	50	50
1400	661	2379	1.50	375	64	66	62	55	52	54
1600	755	2718	1.50	375	66	68	63	56	53	56
1800	850	3058	1.50	375	67	69	64	57	55	57
2000	944	3398	1.50	375	68	70	66	58	55	58
2200	1038	3738	1.50	375	70	70	67	59	56	59
2400	1133	4078	1.50	375	71	70	68	59	57	61
2600	1227	4417	1.50	375	72	71	68	60	58	62

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	3.00	750	54	56	47	49	45	31
600	283	1019	3.00	750	57	62	53	54	49	40
800	378	1359	3.00	750	62	66	58	56	52	47
1000	472	1699	3.00	750	66	70	63	59	54	52
1200	566	2039	3.00	750	69	74	66	61	56	57
1400	661	2379	3.00	750	71	76	69	62	58	61
1600	755	2718	3.00	750	72	77	70	63	60	62
1800	850	3058	3.00	750	74	78	71	64	61	62
2000	944	3398	3.00	750	75	79	72	65	61	63
2200	1038	3738	3.00	750	76	79	73	66	62	64
2400	1133	4078	3.00	750	77	79	74	66	62	65
2600	1227	4417	3.00	750	78	79	75	67	63	66

**Notes**

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Exhaust/Return sound is the noise emitted from the valve inlet into the laboratory/room.

## Phoenix Controls Accel II Airflow Control Valves

### Medium Pressure Shut Off Valves

### Exhaust/Return Sound Power Level Performance Data

#### Size 214

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	0.60	150	#REF!	50	50	33	11	17
600	283	1019	0.60	150	44	50	50	34	15	20
800	378	1359	0.60	150	45	50	51	40	28	29
1000	472	1699	0.60	150	46	51	51	42	33	32
1200	566	2039	0.60	150	47	51	51	44	39	36
1400	661	2379	0.60	150	48	52	51	47	42	39
1600	755	2718	0.60	150	49	52	52	49	46	41
1800	850	3058	0.60	150	51	52	52	51	49	44
2000	944	3398	0.60	150	52	53	52	52	52	47
2200	1038	3738	0.60	150	53	53	52	54	55	50
2400	1133	4078	0.60	150	55	54	52	56	57	53
2600	1227	4417	0.60	150	56	54	52	57	59	55
2800	1321	4757	0.60	150	57	54	52	59	61	57
3000	1416	5097	0.60	150	58	55	52	60	63	60
3200	1510	5437	0.60	150	59	55	52	62	65	62

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	2.00	500	59	80	79	59	22	39
600	283	1019	2.00	500	61	81	79	61	27	42
800	378	1359	2.00	500	64	81	79	67	40	51
1000	472	1699	2.00	500	66	81	80	69	45	54
1200	566	2039	2.00	500	68	81	80	72	50	58
1400	661	2379	2.00	500	69	81	80	74	54	61
1600	755	2718	2.00	500	71	82	81	77	58	64
1800	850	3058	2.00	500	72	82	81	79	61	67
2000	944	3398	2.00	500	73	82	81	81	64	70
2200	1038	3738	2.00	500	74	82	81	83	67	73
2400	1133	4078	2.00	500	75	82	81	85	70	75
2600	1227	4417	2.00	500	76	83	81	86	72	78
2800	1321	4757	2.00	500	77	83	81	88	74	80
3000	1416	5097	2.00	500	78	84	81	89	76	82
3200	1510	5437	2.00	500	79	85	81	90	78	85

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	1.00	250	48	56	56	39	19	23
600	283	1019	1.00	250	50	56	56	43	27	28
800	378	1359	1.00	250	51	56	57	46	36	34
1000	472	1699	1.00	250	52	56	57	49	41	37
1200	566	2039	1.00	250	53	56	57	51	47	41
1400	661	2379	1.00	250	54	56	58	53	50	44
1600	755	2718	1.00	250	55	56	58	56	54	47
1800	850	3058	1.00	250	57	57	58	58	57	50
2000	944	3398	1.00	250	58	57	58	60	60	53
2200	1038	3738	1.00	250	59	57	58	61	63	55
2400	1133	4078	1.00	250	60	57	58	63	66	58
2600	1227	4417	0.60	150	59	58	59	58	61	54
2800	1321	4757	1.00	250	62	58	59	66	69	63
3000	1416	5097	1.00	250	63	59	59	67	72	65
3200	1510	5437	1.00	250	64	60	59	69	74	67

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	2.50	625	56	71	69	53	34	37
600	283	1019	2.50	625	59	71	70	56	42	42
800	378	1359	2.50	625	61	71	70	60	51	48
1000	472	1699	2.50	625	63	71	71	63	56	52
1200	566	2039	2.50	625	65	71	71	65	62	55
1400	661	2379	2.50	625	66	72	71	68	66	58
1600	755	2718	2.50	625	68	72	72	70	69	61
1800	850	3058	2.50	625	69	72	72	72	73	64
2000	944	3398	2.50	625	70	72	72	74	76	67
2200	1038	3738	2.50	625	71	72	72	76	78	70
2400	1133	4078	2.50	625	72	73	72	78	81	73
2600	1227	4417	2.50	625	73	73	72	77	81	73
2800	1321	4757	2.50	625	74	73	72	81	85	78
3000	1416	5097	2.50	625	75	74	72	83	87	80
3200	1510	5437	2.50	625	76	75	72	84	89	82

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	1.50	375	53	61	61	44	24	28
600	283	1019	1.50	375	55	61	62	47	32	33
800	378	1359	1.50	375	56	61	62	51	41	39
1000	472	1699	1.50	375	57	61	62	54	46	43
1200	566	2039	1.50	375	57	61	63	56	52	46
1400	661	2379	1.50	375	59	62	63	58	55	49
1600	755	2718	1.50	375	60	62	63	61	59	52
1800	850	3058	1.50	375	61	62	63	63	62	55
2000	944	3398	1.50	375	62	62	64	65	65	58
2200	1038	3738	1.50	375	64	62	64	67	68	61
2400	1133	4078	1.50	375	65	63	64	68	71	64
2600	1227	4417	1.50	375	66	63	64	70	73	66
2800	1321	4757	1.50	375	67	63	64	71	74	68
3000	1416	5097	1.50	375	68	64	64	73	77	71
3200	1510	5437	1.50	375	69	65	64	74	79	73

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	189	680	3.00	750	59	74	72	55	36	39
600	283	1019	3.00	750	61	74	72	58	44	45
800	378	1359	3.00	750	63	74	72	62	53	50
1000	472	1699	3.00	750	65	74	73	65	59	54
1200	566	2039	3.00	750	67	74	73	67	64	58
1400	661	2379	3.00	750	68	74	73	70	68	61
1600	755	2718	3.00	750	70	74	74	72	72	64
1800	850	3058	3.00	750	71	74	74	74	75	67
2000	944	3398	3.00	750	72	75	74	77	78	70
2200	1038	3738	3.00	750	73	75	74	78	81	72
2400	1133	4078	3.00	750	74	75	74	80	83	75
2600	1227	4417	2.50	625	75	76	74	82	85	78
2800	1321	4757	3.00	750	76	76	74	83	87	80
3000	1416	5097	3.00	750	77	77	74	85	89	82
3200	1510	5437	3.00	750	78	77	75	86	91	85

#### Notes

- All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
- DPS is the difference in static pressure across the valve.
- Exhaust/Return sound is the noise emitted from the valve inlet into the laboratory/room.

**Phoenix Controls  
Accel II Airflow Control Valves**

**Medium Pressure Shut Off Valves**

**Exhaust/Return Sound Power Level Performance Data**

**Size 214 with Neutralizer**

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	125	250	500	1000	2000	4000
400	189	680	0.60	150	41	50	50	24	< 10	< 10
600	283	1019	0.60	150	44	50	50	26	< 10	< 10
800	378	1359	0.60	150	45	50	51	31	14	14
1000	472	1699	0.60	150	46	50	51	34	20	18
1200	566	2039	0.60	150	47	50	51	36	25	22
1400	661	2379	0.60	150	48	50	51	38	29	24
1600	755	2718	0.60	150	49	50	52	40	32	27
1800	850	3058	0.60	150	51	50	52	42	36	30
2000	944	3398	0.60	150	52	51	52	44	39	33
2200	1038	3738	0.60	150	53	51	52	46	41	36
2400	1133	4078	0.60	150	55	51	52	47	44	38
2600	1227	4417	0.60	150	56	52	52	49	46	41
2800	1321	4757	0.60	150	57	52	52	50	48	43
3000	1416	5097	0.60	150	58	53	52	52	50	45
3200	1510	5437	0.60	150	59	54	52	53	52	48

400	189	680	1.00	250	48	56	56	31	< 10	< 10
600	283	1019	1.00	250	50	56	56	34	14	14
800	378	1359	1.00	250	51	56	57	38	22	20
1000	472	1699	1.00	250	52	56	57	40	28	23
1200	566	2039	1.00	250	53	56	57	43	33	27
1400	661	2379	1.00	250	54	56	58	45	37	30
1600	755	2718	1.00	250	55	56	58	47	41	33
1800	850	3058	1.00	250	57	57	58	49	44	36
2000	944	3398	1.00	250	58	57	58	51	47	39
2200	1038	3738	1.00	250	59	57	58	53	49	41
2400	1133	4078	1.00	250	60	57	58	55	52	44
2600	1227	4417	1.00	250	59	58	59	49	47	40
2800	1321	4757	1.00	250	62	58	59	57	56	49
3000	1416	5097	1.00	250	63	59	59	59	58	51
3200	1510	5437	1.00	250	64	60	59	60	60	53

400	189	680	1.50	375	53	61	61	35	10	14
600	283	1019	1.50	375	55	61	62	39	19	19
800	378	1359	1.50	375	56	61	62	42	27	25
1000	472	1699	1.50	375	57	61	62	45	33	28
1200	566	2039	1.50	375	57	61	63	48	38	32
1400	661	2379	1.50	375	59	62	63	50	42	35
1600	755	2718	1.50	375	60	62	63	52	45	38
1800	850	3058	1.50	375	61	62	63	54	49	41
2000	944	3398	1.50	375	62	62	64	56	52	44
2200	1038	3738	1.50	375	64	62	64	58	54	47
2400	1133	4078	1.50	375	65	63	64	60	57	49
2600	1227	4417	1.50	375	66	63	64	61	59	52
2800	1321	4757	1.50	375	67	63	64	63	61	54
3000	1416	5097	1.50	375	68	64	64	64	63	56
3200	1510	5437	1.50	375	69	65	64	66	65	59

Airflow			DPS		Sound Power Levels in dB ref 10 <sup>-12</sup> Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m <sup>3</sup> /h	in wc	Pa	125	250	500	1000	2000	4000
400	189	680	2.00	500	59	81	79	51	9	25
600	283	1019	2.00	500	61	81	79	53	13	28
800	378	1359	2.00	500	64	81	79	58	26	36
1000	472	1699	2.00	500	66	81	80	61	31	40
1200	566	2039	2.00	500	68	81	80	63	37	44
1400	661	2379	2.00	500	69	81	80	66	41	47
1600	755	2718	2.00	500	71	81	81	68	44	50
1800	850	3058	2.00	500	72	81	81	70	48	53
2000	944	3398	2.00	500	73	82	81	72	51	56
2200	1038	3738	2.00	500	74	82	81	74	53	58
2400	1133	4078	2.00	500	75	82	81	76	56	61
2600	1227	4417	2.00	500	76	83	81	77	58	64
2800	1321	4757	2.00	500	77	83	81	79	60	66
3000	1416	5097	2.00	500	78	84	81	80	62	68
3200	1510	5437	2.00	500	79	84	81	82	64	71

400	189	680	2.50	625	56	71	69	44	20	23
600	283	1019	2.50	625	59	71	70	48	29	28
800	378	1359	2.50	625	61	71	70	51	37	34
1000	472	1699	2.50	625	63	71	71	54	43	38
1200	566	2039	2.50	625	65	71	71	57	48	41
1400	661	2379	2.50	625	66	72	71	59	52	44
1600	755	2718	2.50	625	68	72	72	62	56	47
1800	850	3058	2.50	625	69	72	72	64	59	50
2000	944	3398	2.50	625	70	72	72	66	62	53
2200	1038	3738	2.50	625	71	72	72	68	65	56
2400	1133	4078	2.50	625	72	73	72	70	67	59
2600	1227	4417	2.50	625	73	73	72	69	67	59
2800	1321	4757	2.50	625	74	73	72	73	71	64
3000	1416	5097	2.50	625	75	74	72	74	73	66
3200	1510	5437	2.50	625	76	75	72	75	75	68

400	189	680	3.00	750	59	74	72	46	22	25
600	283	1019	3.00	750	61	74	72	50	31	30
800	378	1359	3.00	750	63	74	72	53	40	36
1000	472	1699	3.00	750	65	74	73	56	45	40
1200	566	2039	3.00	750	67	74	73	59	51	43
1400	661	2379	3.00	750	68	74	73	61	54	46
1600	755	2718	3.00	750	70	74	74	64	58	49
1800	850	3058	3.00	750	71	74	74	66	61	52
2000	944	3398	3.00	750	72	75	74	68	64	56
2200	1038	3738	3.00	750	73	75	74	70	67	58
2400	1133	4078	3.00	750	74	75	74	72	70	61
2600	1227	4417	3.00	750	75	76	74	73	72	63
2800	1321	4757	3.00	750	76	76	74	75	74	66
3000	1416	5097	3.00	750	77	77	74	76	76	68
3200	1510	5437	3.00	750	78	77	75	78	78	70

**Notes**

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130**, *Methods of Testing Air Terminal Units*
2. DPS is the difference in static pressure across the valve.
3. Exhaust/Return sound is the noise emitted from the valve inlet into the laboratory/room.