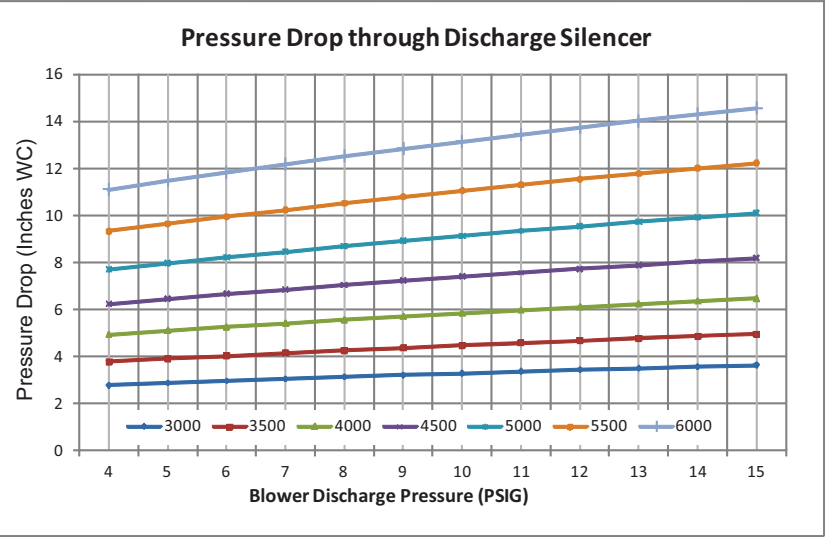
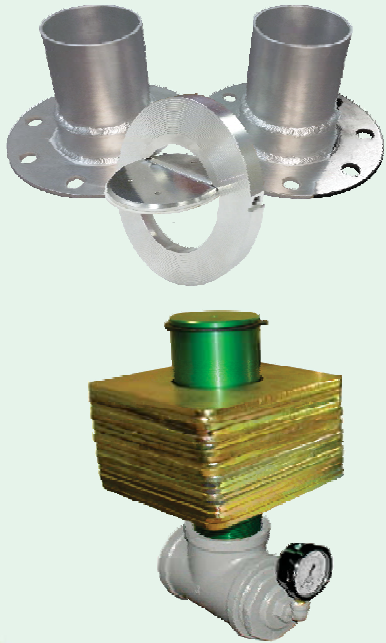




Silencer Size	Discharge Silencer Sizing Chart					
	Blower Discharge Pressure					
	4 PSIG	6 PSIG	8 PSIG	10 PSIG	12 PSIG	15 PSIG
1	0 - 41	0 - 43	0 - 45	0 - 48	0 - 50	0 - 53
1.5	38 - 96	40 - 103	42 - 109	44 - 114	46 - 119	49 - 126
2	88 - 160	94 - 171	100 - 180	105 - 189	109 - 198	116 - 210
2.5	146 - 227	156 - 242	165 - 256	172 - 269	180 - 281	191 - 297
3	207 - 351	221 - 375	233 - 396	245 - 416	256 - 434	270 - 460
4	319 - 609	341 - 649	361 - 687	378 - 720	395 - 753	418 - 797
5	554 - 951	590 - 1014	624 - 1074	655 - 1125	684 - 1177	724 - 1245
6	864 - 1366	921 - 1456	975 - 1541	1022 - 1617	1069 - 1690	1131 - 1788
8	1241 - 2380	1322 - 2537	1399 - 2685	1468 - 2817	1535 - 2944	1624 - 3116
10	2161 - 3752	2303 - 3998	2437 - 4231	2557 - 4439	2672 - 4640	2828 - 4912
12	3406 - 5382	3629 - 5725	3841 - 6069	4029 - 6367	4211 - 6655	4458 - 7045
14	4884 - 6935	5196 - 7389	5508 - 7820	5778 - 8204	6040 - 8576	6394 - 9077
16	6294 - 9128	6706 - 9726	7097 - 10293	7445 - 10798	7783 - 11287	8238 - 11948
18	8284 - 11609	8827 - 12369	9341 - 13091	9799 - 13733	10243 - 14355	10843 - 15196
Blower Inlet ICFM						



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Pathfinder Discharge Silencer S3, S5 & S6

PD Blower discharge silencers are critical to proper system design and performance. PD blowers generate more destructive pulses and noise on their discharge than they do on their inlets. Discharge pulses are 40% greater than the line pressure.

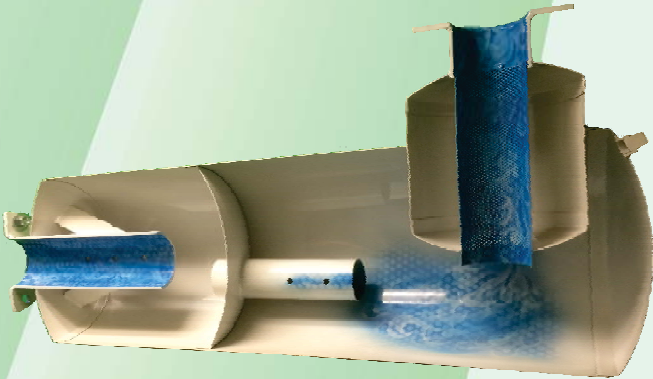
PD blowers are not compressors. PD blowers are positive displacement blowers and move a constant volume of air from their inlet to their discharge. Compression takes place when the line pressure builds up to the outlet of the blower. Powerful, destructive waves are created that are thrust down the piping. Silencers dampen these pulsations to protect downstream equipment and remove unwanted noise.

Blower speed and displacement are the two major factors in silencer design. Discharge silencers should have a blower volume ratio of 18:1 or 15:1 depending on the size/ratio of the blower.

When blower RPM reaches higher ranges, frequencies generated will be higher than what conventional chamber technology can efficiently cancel out and a packed section is required to absorb these high frequencies. The specific rpm is called the transition speed. Please see the back page of the brochure for the specific RPM for your PD blower. Above this RPM, chamber-absorption silencers are recommended.

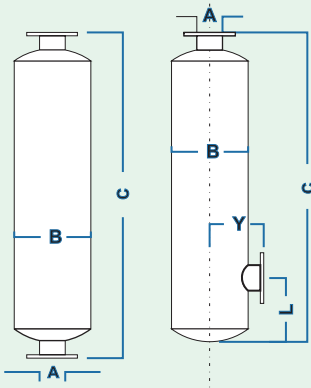


Blower Gear Size	Transition Speed (RPM)	Tuthill Models	Roots Models	GD Models	Above Transition Speed	Below Transition Speed
2	5152	2002, 2004	22, 24	2M, 2L	IS6, IS6L, DB6	IS3, IS3L, DB3
2.5	4125				IS6, IS6L, DB6	IS3, IS3L, DB3
3	3435	3002, 3003, 3006, 3202, 3203, 3204, 3206, 3208, 3210	33, 36	3H, 3M, 3L	IS6, IS6L, DB6	IS3, IS3L, DB3
3.5	2945				IS6, IS6L, DB6	IS3, IS3L, DB3
4	2576	4002, 4005, 4007, 4009, 4012, 4504, 4506, 4509, 4512, 4606, 4609, 4610, 4612	42, 45, 47, 404, 406, 409, 412, 413, 416, 418	4H, 4M, 4L	IS6, IS6L, DB6	IS3, IS3L, DB3
4.5	2289				IS6, IS6L, DB6	IS3, IS3L, DB3
5	2060	5003, 5006, 5009	53, 56, 59	5H, 5M, 5L	IS6, IS6L, DB6	IS3, IS3L, DB3
5.5	1873	5507, 5511, 5514, 5518			IS6, IS6L, DB6	IS3, IS3L, DB3
6	1720	6005, 6008, 6012, 6015, 6016, 6024	65, 68, 615, 616, 617, 621, 624	6H, 6M, 6L	IS6, IS6L, DB6	IS3, IS3L, DB3
7	1470	7006, 7009, 7010, 7011, 7013, 7017, 7018, 7021, 7026	76, 711, 718, 722, 728	7H, 7M, 7L	IS6, IS6L, DB6	IS3, IS3L, DB3
8	1285		817, 821, 824, 826, 827, 832		IS6, IS6L, DB6	IS3, IS3L, DB3
9	1145	9016, 9020, 9027			IS6, IS6L, DB6	IS3, IS3L, DB3
10	1030		1006, 1009, 1012, 1016, 1018, 1021, 1024		IS6, IS6L, DB6	IS3, IS3L, DB3
12	860	1215, 1224, 1236, 1248	1212, 1216, 1220, 1222, 1225, 1228, 1236		IS6, IS6L, DB6	IS3, IS3L, DB3

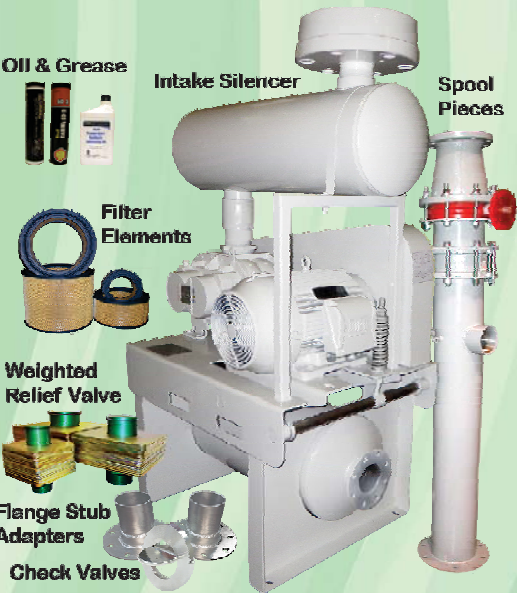
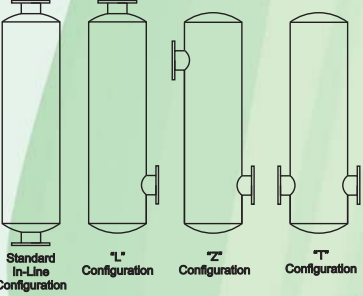


Note: Pathfinder offers direct drop-ins for Universal and Stoddard as well as most other domestic manufacturers of silencers. If you need a specific size, inquire with your account manager.

	Pathfinder Model	Universal Model	Stoddard Model	Burgess Model
Discharge Silencers	S3	URB	D13	BMA
	S3L	URBY	D13H	BMAL
	S6	RD	D33	
	S6L	RDY	D33H	
	S6T	RDS	D33T	
	S5	RIS & SD	D32	BMSS
	S5L	RISY & SDY	D32H	BMSSL

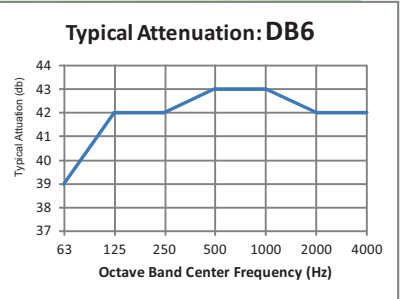
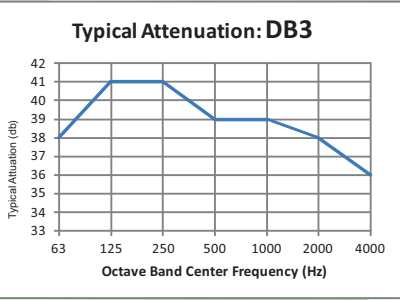


Silencer Configurations



DB Silencers

The modern solution to today’s high speed blowers is Pathfinder’s Dynabase Silencers (DB). Our DB silencers focus on blowers running above 60% of maximum speed. This shift to higher speed blowers in the market has shifted blower frequencies and requires shorter silencers to cancel out these higher frequencies (shorter wavelengths). Take advantage of their improved performance and smaller footprint in our Dynabase Blower Package as well.

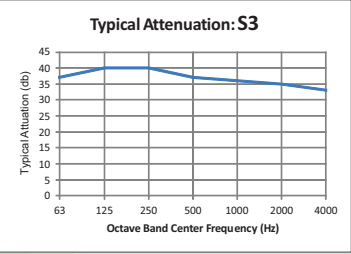


Discharge Silencers

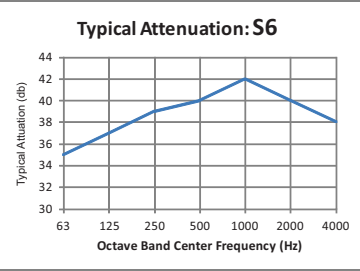
S3 / S3L (Premium Chamber-Only Silencers)

Size	A	B	C	C (S3L)	L (range)	Y	Wt
1.5	1.5 NPT	6.5	24				16
2	2 NPT	8	33	30	6 - 10	7	26
2.5	2.5 NPT	10	33	31	6 - 10	8	40
3	3 NPT	10	51	49	6 - 10	8	50
4	4 FLG/NPT	14	53	49	7 - 24	11	138
5	5 FLG/NPT	16	65	62	8 - 28	12	160
6	6 FLG	18	72	68	9 - 34	13	193
8	8 FLG	22	68	65	10 - 22	15	378
10	10 FLG	24	84	78	12 - 30	17	544
12	12 FLG	30	88	85	13 - 34	19	879

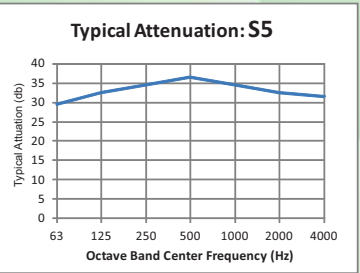
Pathfinder S3 silencers are an all-welded, chamber-only silencer for blowers below transition speed. The S3 silencer is a multi-chamber design containing baffled tubes and chambers to properly dissipate noise and pulsations.



Pathfinder S6 silencers are an all-welded, chamber-absorption silencer for blowers above transition speed. The S6 silencer is a premium multi-chamber design containing baffled tubes, chambers and absorption material to properly dissipate and absorb noise and pulsations.



Pathfinder S5 silencers are an all-welded, chamber-absorption silencer for blowers above transition speed. The S6 silencer is a standard-duty multi-chamber design containing baffled tubes, chambers and absorption material to properly dissipate and absorb noise and pulsations.



S6 / S6L (Standard Chamber Absorption Silencers)

Size	A	B	C	C (S3L)	L (range)	Y	Wt
2	2 NPT	8	33	30	6 - 10	9	28
2.5	2.5 NPT	10	33	31	7 - 11	10	59
3	3 NPT	10	51	49	7 - 11	12	83
4	4 FLG/NPT	14	53	50	8 - 17	14	153
5	5 FLG/NPT	16	65	62	9 - 20	15	220
6	6 FLG	18	72	69	10 - 24	17	310
8	8 FLG	22	98	95	12 - 26	26	787
10	10 FLG	26	123	120	14 - 36	34	1054
12	12 FLG	30	136	133	16 - 40	40	1489

S5 / S5L (Premium Chamber Absorption Silencers)

Size	A	B	C	C (S3L)	L (range)	Y	Wt
4	4 FLG	10	45	42	7.5 - 16.5	12.5	82.5
5	5 FLG	12	57.5	55	9 - 23	15.5	127
6	6 FLG	14	64	61.5	9 - 25.5	17	176
8	8 FLG	18	72	69	12 - 30.5	21.5	275
10	10 FLG	22	85	82	13.5 - 34	25.5	451
12	12 FLG	26	98	95.25	15 - 39.5	29.5	638
14	14 FLG	30	124	121	17 - 34	42	963
16	16 FLG	46	138	135	19 - 34	47	1375
18	18 FLG	42	151	148	21 - 36	53	1815

Chamber-Only Silencers

DB3Z (Inlet) / DB3L (Discharge)

Size	A	B	C	D	L	Y	Inlet	Wt
1.5	1.5 NPT	8	30	28	8	9	1.5 FPT	23
2	2 NPT	8	30	28	8	9	2 FPT	23
2.5	2.5 NPT	10	31	28	7	10	2.5 FPT	38
3	3 NPT	12	41	38 1/2	9	12	3 FPT	62
4	4 FLG/NPT	16	40	38	8	13	4 FPT	83
5	5 FLG	18	50	47	12	17	5 FLG	117
6	6 FLG	20	50	47	12	19	6 FLG	174
8	8 FLG	24	58	59	13 1/2	20	8 FLG	257
10	10 FLG	30	72	69	16	25 5/8	10 FLG	523

Premium Chamber/Absorption Silencers

DB6Z (Inlet) / DB6L (Discharge)

Size	A	B	C	C (S3L)	L (range)	Y		Wt
1.5	1.5 NPT	8	30	28	8	9	1.5 PP	24
2	2 NPT	8	33	30	6 - 10	9	2 PP	24
2.5	2.5 NPT	10	33	31	7 - 11	10	2.5 PP	40
3	3 NPT	10	51	49	7 - 11	12	3 PP	65
4	4 FLG/NPT	14	53	50	8 - 17	14	4 PP	87
5	5 FLG/NPT	16	65	62	9 - 20	15	5 PP	123
6	6 FLG	18	72	69	10 - 24	17	6 PP	183
8	8 FLG	22	98	95	12 - 26	26	8 PP	270
10	10 FLG	26	123	120	14 - 36	34	10 PP	550