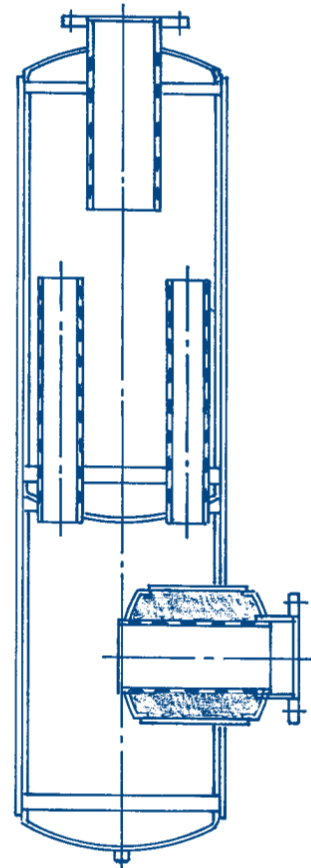




## Specialists in Industrial Silencing

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# DRY VACUUM BLOWER SILENCERS





# Series "V"

## Dry Vacuum Blower Silencers

Silencers effectively reduce the noise and destructive low frequency pulsations that can be detrimental to surrounding equipment and personnel, as well as neighbors. The noise and/or pulsation energy generated by the blower is a function of both blower speed and blower size.

It is an established fact that the smaller size blowers do not develop destructive low frequency pulsations, where as larger blowers do. To properly eliminate these destructive pulsations, a chamber-type silencer with a minimum volume of 15 items the blower displacement is required. This parameter

has been incorporated in all application recommendations.

Blower speed plays an important part in the correct selection of a silencer. For slow speed blowers, the chamber-type silencer performs best on all sizes.

For high-speed blowers (i.e., blowers with operating speeds above the transition speed) a chamber-absorption type silencer is required. This combination design is necessary to reduce the increased high-frequency noise energy that is developed above the transition speed and also effectively treat the energy contained in the low frequencies.

**Intake Silencers Model Selection Chart "A"**

Blower Gear Size	Intake Transition Speed - RPM (3300 FPM)	Below Transition Speed	Above Transition Speed
2	6297	L21 or D13	D33
2½	5038		
3	4198		
4	3148		
5	2519	↓	↓
6	2099		
7	1799		
8	1574		
10	1295	L41	L61
12	1049		
14	899		
16	787		
18	699	↓	↓
20	629		

**Discharge Silencer Model Selection Chart "B"**

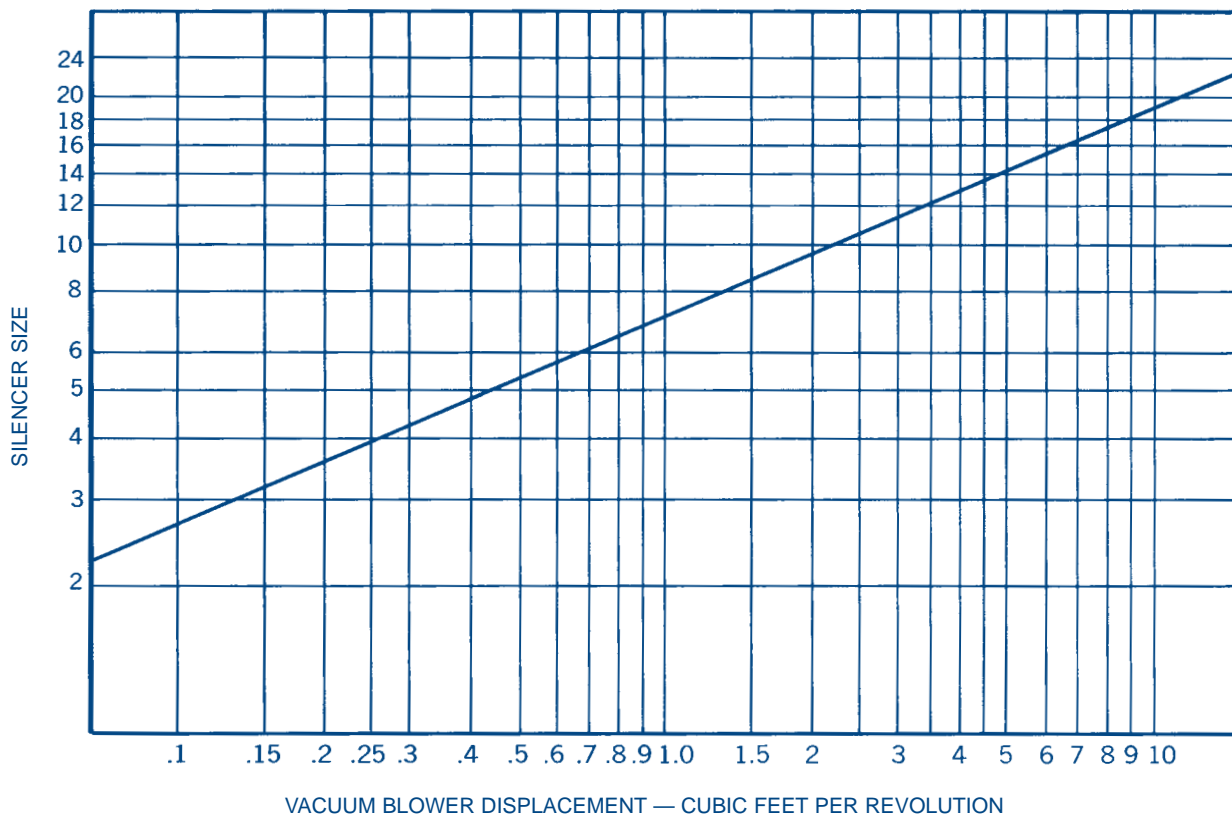
Blower Gear Size	Discharge Transition Speed - RPM (2700 FPM)	Below Transition Speed	Above Transition Speed
2	5152	D13	D33
2½	4125		
3	3435		
3½	2945	↓	↓
4	2580		
5	2060		
6	1720		
7	1470	↓	↓
8	1285		
10	1030		
12	860		
14	735	↓	↓
16	645		
18	573		
20	515		

**Size Selection Chart "C"**

SILENCER SIZE	Inlet Silencer Max. ICFM 5500 fpm.	ATMOSPHERIC DISCHARGE SILENCERS Max. ICFM at Blower Inlet						
		5" Hg.	10" Hg.	12" Hg.	15" Hg.	18" Hg.	20" Hg.	24" Hg.
2	127	140	165	180	205	250	295	470
2.5	182	205	235	255	295	360	420	670
3	281	315	365	395	460	555	650	1,040
4	550	615	715	775	900	1,085	1,275	2,035
5	858	960	1,120	1,210	1,400	1,690	1,985	3,175
6	1,238	1,380	1,615	1,750	2,020	2,440	2,865	4,580
8	2,123	2,370	2,770	3,000	3,470	4,185	4,910	7,860
10	3,333	3,720	4,345	4,710	5,445	6,570	7,710	12,340
12	4,675	5,215	6,095	6,605	7,635	9,215	10,815	17,310
14	5,654	6,310	7,375	7,985	9,235	11,145	13,080	20,935
16	7,425	8,285	9,685	10,490	12,130	14,640	17,180	27,495
18	9,317	10,400	12,150	13,160	15,220	18,370	21,555	34,500
20	11,550	12,890	15,065	16,315	18,870	22,770	26,725	42,770
22	14,031	15,660	18,300	19,820	22,920	27,660	32,460	51,955
24	16,742	18,685	21,835	23,650	27,350	33,005	38,735	61,995

# Silencer Selection

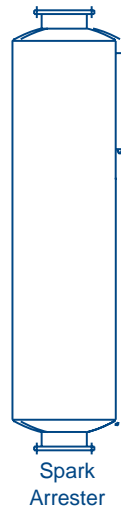
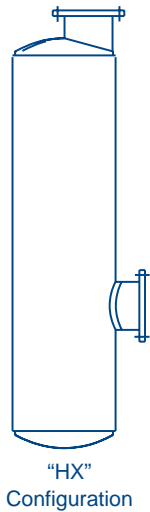
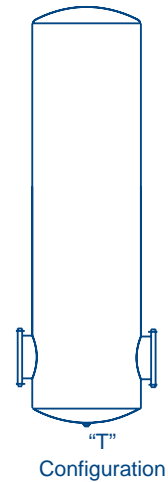
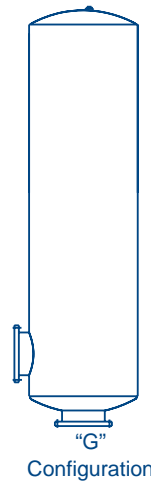
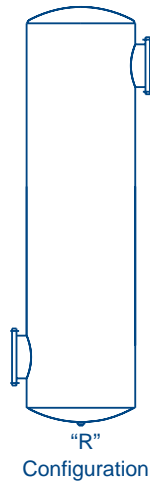
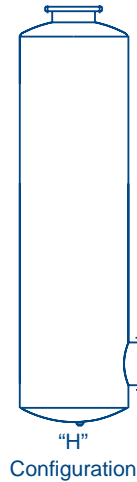
## Size Selection Chart "D"



## Silencer Selection Procedure

1. Determine Silencer Model from Chart "A" and "B" based on Blower Gear Size and RPM.
2. Select Discharge Silencer Size from Chart "C" based on ICFM and Vacuum.
3. Select Discharge Silencer Size from Chart "D" based on Blower Displacement. (ICFM ÷ RPM)
4. Use largest size determined from Chart "C" and "D".

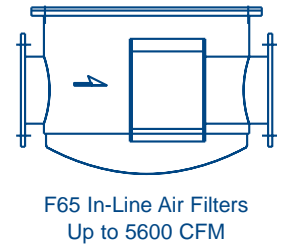
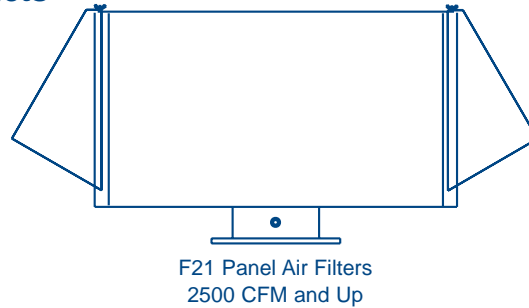
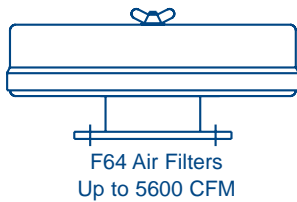
# Silencer Basic Configurations



Flanged, NPT and plain pipe tubes inlet, outlet are available

See Accessory Bulletin "A" for optional mounting brackets, raincaps, and other accessories

## Other Stoddard Silencers Products



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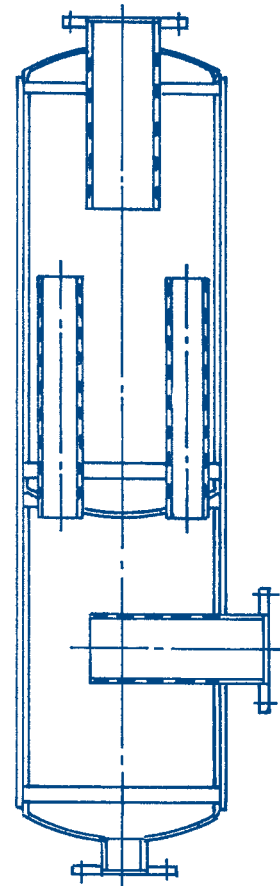
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# VACUUM PUMP SEPARATOR SILENCERS



# Water Sealed Rotary Positive Vacuum Pump Separator Silencers

## Silencer Selection Procedure

1. Determine Silencer Model. (V22H = 95% water removal V33H = 99% water removal)
2. Select Silencer Size from Chart "A" based on ACFM and Vacuum.
3. Select Silencer Size from Chart "B" based on Blower Displacement. (ICFM ÷ RPM)
4. Use largest size determined from Chart "A" and "B".

## Size Selection Chart "A"

SILENCER SIZE	Inlet Silencer Max. ICFM 5500 fpm.	ATMOSPHERIC DISCHARGE SILENCERS Max. ACFM at Blower Inlet						
		5" Hg.	10" Hg.	12" Hg.	15" Hg.	18" Hg.	20" Hg.	24" Hg.
2	127	140	165	180	205	250	295	470
2.5	182	205	235	255	295	360	420	670
3	281	315	365	395	460	555	650	1,040
4	550	615	715	775	900	1,085	1,275	2,035
5	858	960	1,120	1,210	1,400	1,690	1,985	3,175
6	1,238	1,380	1,615	1,750	2,020	2,440	2,865	4,580
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22	14,031	15,660	18,300	19,820	22,920	27,660	32,460	51,955
24	16,742	18,685	21,835	23,650	27,350	33,005	38,735	61,995

## Size Selection Chart "B"

