Bulletin “V-2”

Stoddard Silencers

Specialists in Industrial Silencing

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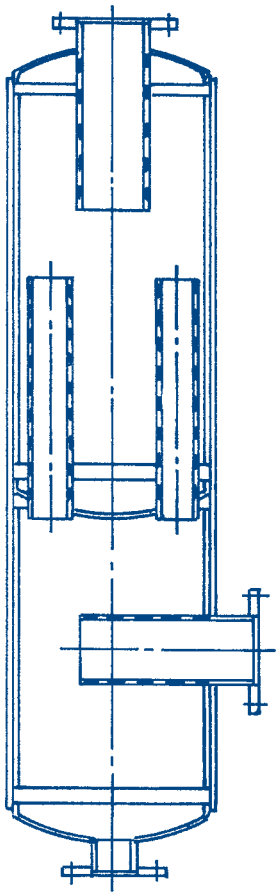
VACUUM PUMP SEPARATOR SILENCERS



Liquid Ring Vacuum Pump Separator Silencers

FOR WATER SEALED P-D VACUUM PUMP SEPARATOR SILENCERS SEE PAGE 4

Vacuum Pumps are designed primarily to handle a gas, such as air. They normally operate with an open discharge to the atmosphere. Water is usually used as a liquid compressant on vacuum pumps and the amount of water varies depending on the degree of vacuum that is required. Since the vacuum pump discharges both air and water to the atmosphere, there are two problems involved: discarding the water, and silencing the air noise flowing from the discharge.

Intake Silencers are seldom required in vacuum pump operations unless removal of process liquid is required, prior to entry into the pump. A pump or "barometric leg" is required to remove the liquid from the intake separator, because of the vacuum conditions. All Intake Silencers are designed for full vacuum service.

Discharge Separator Silencers are normally used on wet vacuum systems to reduce the discharge noise and simultaneously separate the liquid, which can be recovered or piped to a drain.

Stoddard Silencers can furnish separator silencers in sizes required for all vacuum systems.

Below is an application guide, engineered to best fit your requirements.

Separator Silencer Application Guide

Model	Requirement
Intake	
V12H and V12T	95% water removal
Discharge	
V31H	99% + water removal
V32H	99% + water removal and high degree of silencing
V32HA	99% + water removal and high degree of silencing for both low and high frequencies

Selection Chart

Select size of Intake and Discharge Separator Silencer from table below. (Sizing is based on start-up conditions [6000 FPM Maximum] to eliminate carry over.)

SILENCER SIZE	START-UP Maximum ACFM (6000 fpm)	SILENCER SIZE	START-UP Maximum ACFM (6000 fpm)	SILENCER SIZE	START-UP Maximum ACFM (6000 fpm)
2	138	8	2,316	18	10,164
3	306	10	3,636	20	12,600
4	600	12	5,100	22	15,306
5	936	14	6,168	24	18,264
6	1,350	16	8,100		

Intake and Discharge Separator Silencer Pressure Drop Calculations

Pressure Drop is the governing consideration for most vacuum systems. There are two conditions to consider — start-up and operating conditions. The size is controlled by air flow with a maximum velocity of 6,000 fpm for complete separation. This velocity must be determined for START-UP conditions since maximum air flow and pressure drop occur at this time.

Pressure Drop Procedure for Start-Up Conditions (Intake or Discharge)

1. Determine velocity based on size from selection chart.

$$\text{Velocity FPM} = \frac{\text{CFM} \times 186.4}{(\text{Silencer Size})^2} = \text{(Feet Per Minute)}$$

Note: CFM refers to inlet capacity of blower

$$\text{Velocity} = \frac{(\quad\quad)}{(\quad\quad)^2} \times 186.4 = \underline{\quad\quad\quad} \text{ Feet Per Minute}$$

2. Convert velocity to velocity pressure

$$\text{Velocity Pressure} = \left[\frac{\text{Inlet Velocity}}{4008}\right]^2 = \text{(Inches of Water)}$$

Note: Velocity was determined in step one above.

$$\text{Velocity Pressure} = \left[\frac{\quad\quad}{4008}\right]^2 = \underline{\quad\quad\quad} \text{ inches of water}$$

3. Calculate pressure drop across silencer size selected.

Pressure Drop = Velocity Pressure × Friction Factor = (Inches of Water)

Note: Velocity pressure determined in step two above.

For Models V12H, V12T and V31H

Pressure Drop = _____ × 4.0 = _____ inches of water.

For Models V32H and V32HA

Pressure Drop = _____ × 5.5 = _____ inches of water.

Sizing and Pressure Drop Procedures

Pressure Drop Procedure at Operating Conditions for Intake Silencer

1. Determine Inlet Velocity based on size from selection chart.

$$\text{Inlet Velocity FPM} = \frac{\text{Inlet CFM} \times 186.4}{(\text{Silencer Size})^2} = \text{FPM}$$

Note: Inlet CFM refers to Inlet Capacity of Blower.

$$\text{Inlet Velocity} = \frac{(\quad\quad)}{(\quad\quad)^2} \times 186.4 = \_\_\_\_\_ \text{ FPM}$$

2. Convert Intake Velocity to Velocity Pressure.

$$\text{Velocity Pressure} = \left[\frac{\text{Inlet Velocity}}{4008}\right]^2 = \left[\frac{\quad\quad}{4008}\right]^2 = \_\_\_\_\_ \text{ inches of water}$$

3. Calculate the Pressure Temperature Ratio (PTR).

$$\text{PTR} = \left[\frac{29.92 - \text{"Hg. Vac.}}{29.92}\right] \times \left[\frac{530}{(\text{Inlet Temp. °F}) + 460}\right]$$

$$\text{PTR} = \left[\frac{29.92 - (\quad\quad)}{29.92}\right] \times \left[\frac{530}{(\quad\quad) + 460}\right] = \_\_\_\_\_$$

4. Calculate Pressure Drop across Silencer size selected.

Pressure Drop = Velocity Pressure × Friction Factor × PTR = inches of water

Note: For Models V12H and V12T

Pressure Drop = (_____) × 4.0 × (_____) = inches of water

Pressure Drop Procedure at Operating Conditions for Discharge Silencers

1. Determine the Pressure Temperature Ratio (PTR).

$$\text{PTR} = \left[\frac{29.92 - \text{" Hg.Vacuum (Operating)}}{29.92}\right] \times \left[\frac{(\text{Discharge Temp. °F}) + 460)}{(\text{Inlet Temp. °F}) + 460)}\right]$$

$$\text{PTR} = \left[\frac{29.92 - (\quad\quad)}{29.92}\right] \times \left[\frac{(\quad\quad) + 460}{(\quad\quad) + 460}\right] = \_\_\_\_\_$$

2. Calculate ACFM being discharged to atmosphere.

Discharge ACFM = ICFM × PTR

Discharge ACFM = (_____) × (_____) = _____

3. Determine Discharge Velocity based on size from selection chart.

$$\text{Discharge Velocity FPM} = \frac{\text{Discharge ACFM} \times 186.4}{(\text{Silencer Size})^2} = \text{FPM}$$

$$\text{Discharge Velocity FPM} = \left[\frac{(\quad\quad) \times 186.4}{(\quad\quad)^2}\right] = \_\_\_\_\_ \text{ FPM}$$

4. Convert Discharge Velocity (fpm) to Velocity Pressure (inches of Water)

$$\text{Velocity Pressure} = \left[\frac{\text{Disch. Velocity}}{4008}\right]^2 = \left[\frac{\quad\quad}{4008}\right]^2 = \_\_\_\_\_ \text{ inches of water}$$

5. Calculate pressure drop across silencer size selected.

Pressure Drop = Velocity Pressure × Friction Factor = (Inches of Water)

Note: Velocity pressure determined in step two above.

For Model V31H

Pressure Drop = _____ x 4.0 x PTR = _____ inches of water

For Models V32H and V32HA

Pressure Drop = _____ x 5.5 x PTR = _____ inches of water

Water Sealed Rotary Positive Vacuum Pump Separator Silencers

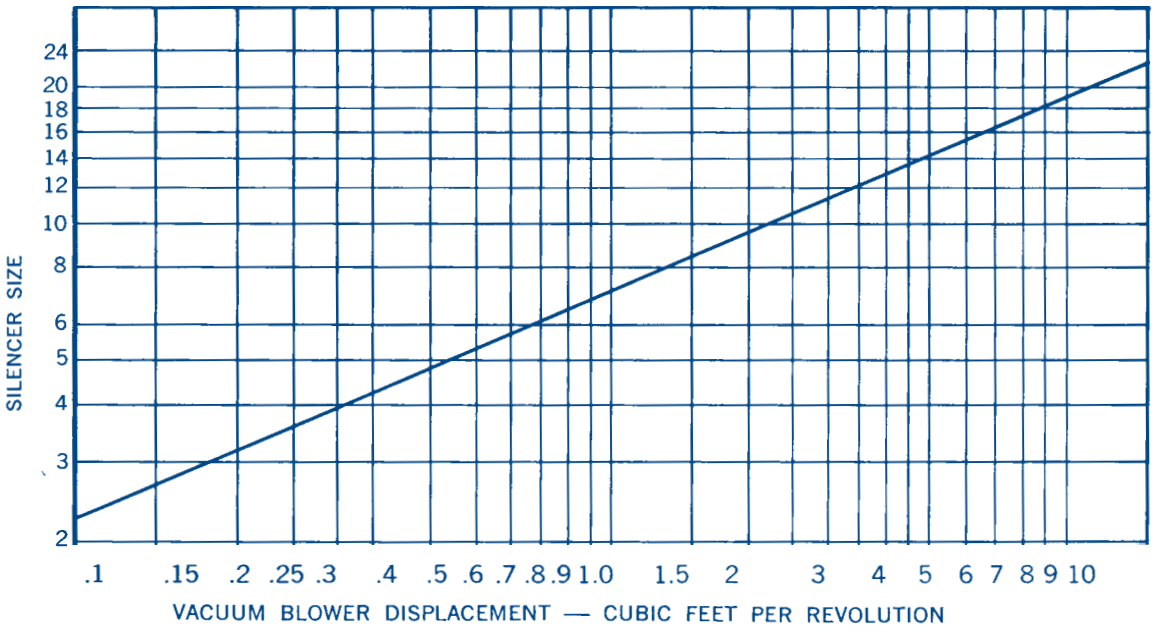
Silencer Selection Procedure

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
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

Size Selection Chart “B”



Inlet Separator Silencers

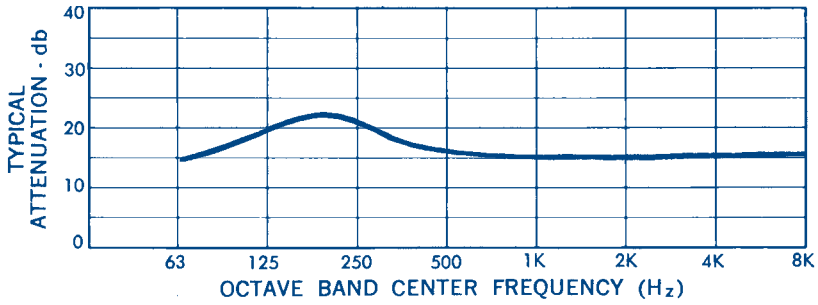
V12H

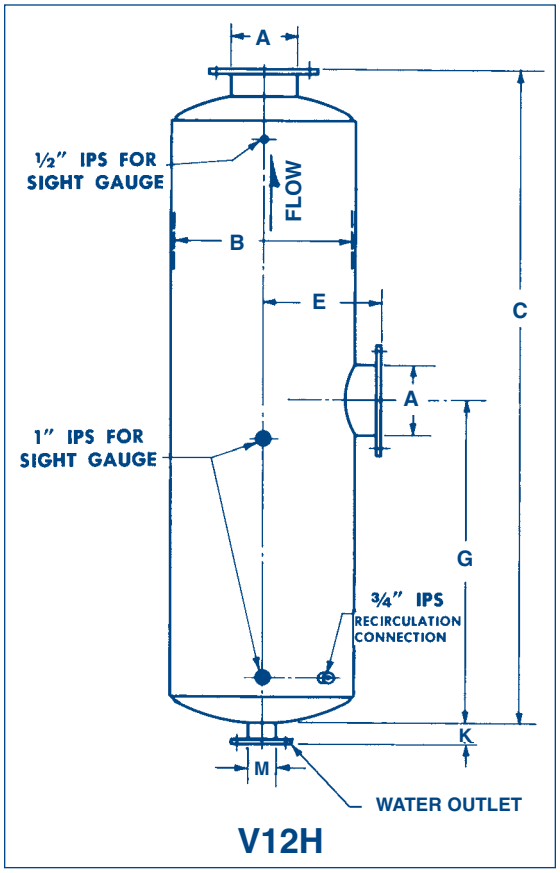
Application
Intake Separator Silencer for wet vacuum systems.

Design
Removes entrained liquid from air in a vacuum system. Air flows through a separation chamber where 95% of the liquid is removed. Water pump or barometric leg is required on water outlet. Alternate designs for 99% separation are available.

Construction
Separator Silencer is all-welded construction designed to handle a full-vacuum system. Exterior surfaces painted with a high quality primer.

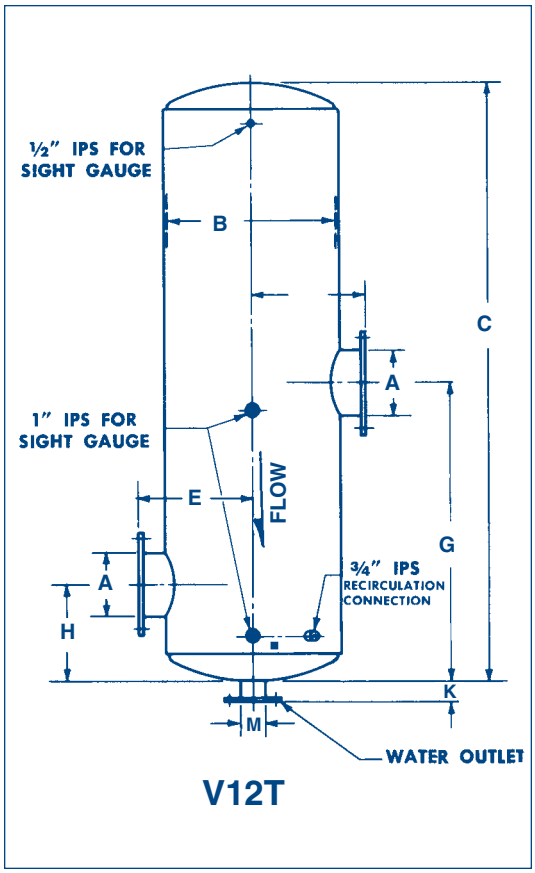
Typical Attenuation Curve





MODEL	A	B	C	E	G	K	M	GPM	Wt. lbs.
V12H- 4	4	14	45½	11	21	1	2 IPS	25	125
V12H- 5	5	16	51½	12	24	1½	3 IPS	40	175
V12H- 6	6	18	58	13	27	1½	3 IPS	60	225
V12H- 8	8	22	70½	15	33	4	4	100	350
V12H-10	10	26	96	17	47	4	4	140	550
V12H-12	12	30	109	19	55	4	6	180	800
V12H-14	14	36	117	22	56	4	6	200	1100
V12H-16	16	42	125	25	64	4	6	250	1475
V12H-18	18	48	132½	28	66	4	6	300	2000
V12H-20	20	54	140	31	68	4	8	350	2450
V12H-22	22	60	142	34	70	4	8	400	2800
V12H-24	24	60	160	34	77	4	8	450	3050

V12T Inlet Separator Silencers



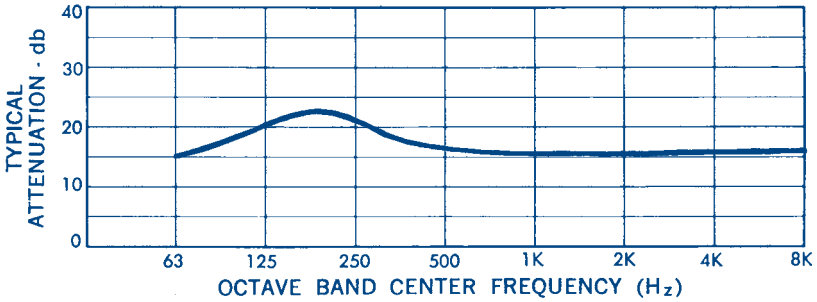
V12T

Application
Intake Separator Silencer for wet vacuum systems.

Design
Removes entrained liquid from air in a vacuum system. Air flows through a separation chamber where 95% of the liquid is removed. Water pump or barometric leg is required on water outlet. Alternate designs for 99% separation are available.

Construction
Separator Silencer is all-welded construction designed to handle a full-vacuum system. Exterior surfaces painted with a high quality primer.

Typical Attenuation Curve



MODEL	A	B	C	E	G	K	M	H		GPM	Wt. lbs.
								MIN.	MAX.		
V12T- 4	4	14	42	11	21	1	2 IPS	6	10	25	175
V12T- 5	5	16	48	12	24	1½	3 IPS	7	11	40	230
V12T- 6	6	18	54½	13	27	1½	3 IPS	8	13	60	280
V12T- 8	8	22	67	15	33	4	4	9	15	100	400
V12T-10	10	26	93	17	47	4	4	11	17	140	650
V12T-12	12	30	106	19	55	4	6	12	18	180	1025
V12T-14	14	36	114	22	56	4	6	14	24	200	1350
V12T-16	16	42	122	25	64	4	6	16	26	250	1650
V12T-18	18	48	129½	28	66	4	6	18	26	300	2450
V12T-20	20	54	137	31	68	4	8	20	26	350	2900
V12T-22	22	60	139	34	70	4	8	22	25	400	3400
V12T-24	24	60	157	34	77	4	8	23	29	450	3800

Discharge Separator Silencers
Liquid Ring Pumps

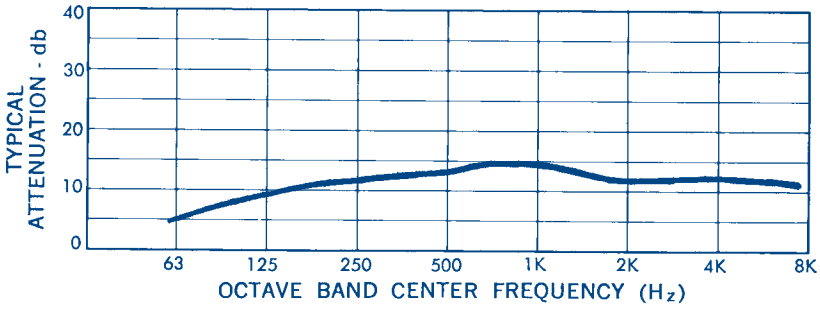
V31H

Application
Discharge Separator for liquid ring vacuum pumps. They may be used on water-sealed vacuum pumps where silencing is not critical.

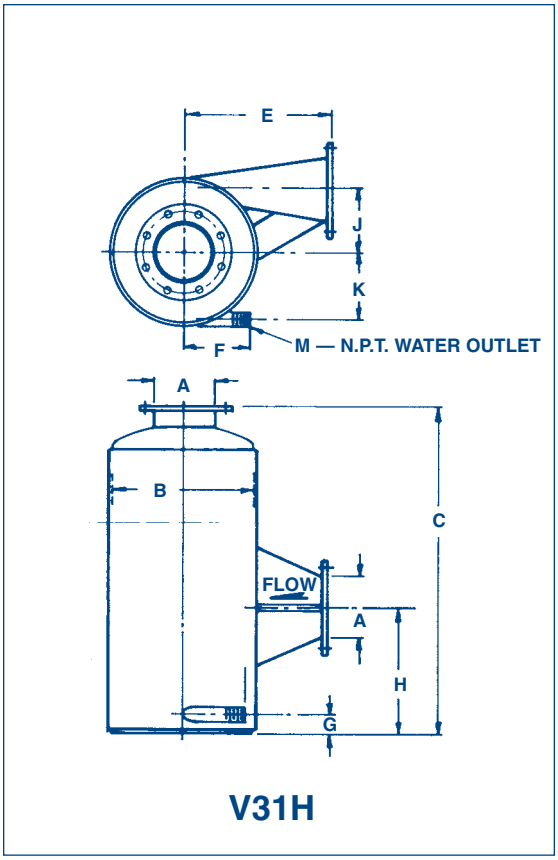
Design
A highly effective single-chamber Separator Silencer which attenuates a wide band of frequencies through a separation section and removes 99+% of the free liquid.

Construction
All-welded heavy-duty steel construction. Exterior surfaces are painted with a high quality primer.

Typical Attenuation Curve



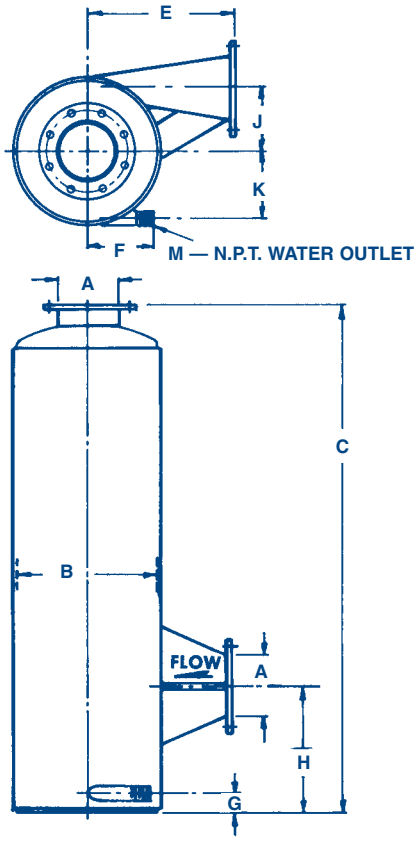
MODEL	A	B	C	E	F	G	H	J	K	M	WEIGHT
V31H-4	4	12	29½	12	7	2½	11	5⅜	4¾	2	100
V31H-5	5	16	36	16	9	3	13	7¼	6¾	2	150
V31H-6	6	18	42¼	18	11	3	15	8⅛	7½	2½	180
V31H-8	8	22	49½	22	11	3½	20	9¾	9¼	3	300
V31H-10	10	24	55¾	24	13	4	24	10⅜	10	3	375
V31H-12	12	30	68½	30	16	4	28	13¼	12¾	4	550
V31H-14	14	36	75½	36	18	4½	32	16	15¾	4	930
V31H-16	16	42	82½	42	23	4½	36	18¾	18¾	4	1175



V31H

V32H

Discharge Separator Silencers
Liquid Ring Pumps



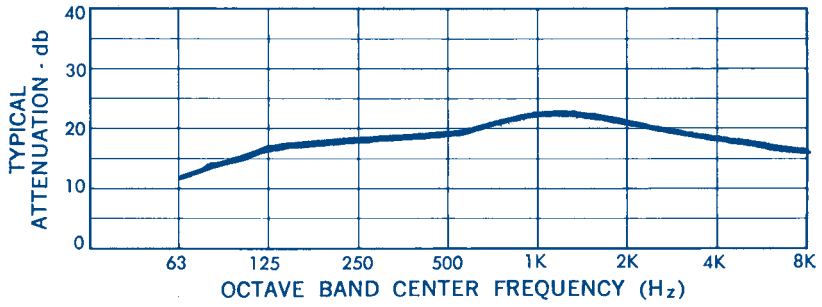
V32H

Application
Discharge Separator for liquid-ring vacuum pumps. They may be used on water-sealed vacuum pumps where a high degree of silencing is required.

Design
A two-chamber Separator Silencer that attenuates a wide band of frequencies and removes entrained liquid air. Air flows through a separation chamber where 99+% of the free liquid is removed centrifugally.

Construction
All-welded heavy-duty steel construction. Exterior surfaces are painted with a high quality primer.

Typical Attenuation Curve



MODEL	A	B	C	E	F	G	H	J	K	M	WEIGHT
V32H-4	4	12	42	12	7	2½	11	5⅜	4¾	2	125
V32H-5	5	16	60	16	9	3	13	7¼	6¾	2	175
V32H-6	6	18	78½	18	11	3	15	8⅛	7½	2½	210
V32H-8	8	22	79	22	11	3½	20	9¾	9¼	3	375
V32H-10	10	24	92	24	13	4	24	10⅜	10	3	500
V32H-12	12	30	117	30	16	4	28	13¼	12¾	4	910
V32H-14	14	36	118	36	18	4½	32	16	15¾	4	1280
V32H-16	16	42	155	42	23	4½	36	18¾	18¾	4	1670

Discharge Separator Silencers
Liquid Ring Pumps

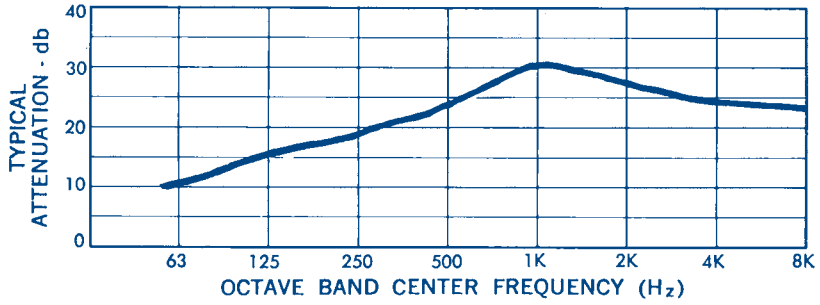
V32HA

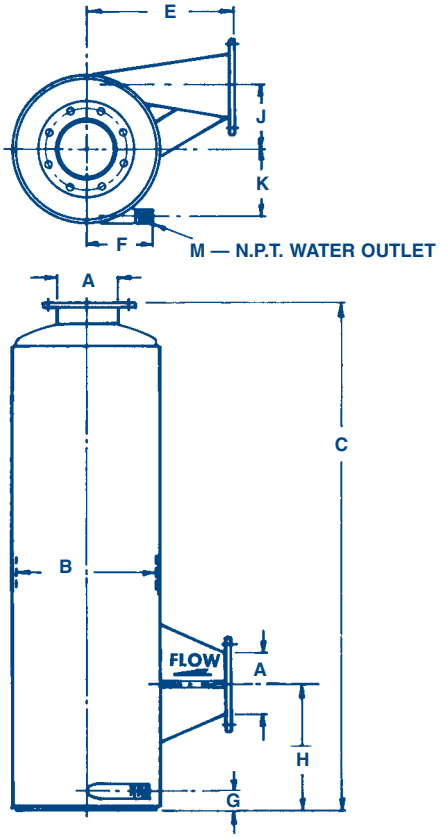
Application
Discharge Separator for liquid-ring vacuum pumps. They may be used on water-sealed vacuum pumps where a high degree of silencing is required.

Design
A multi-chamber silencer containing a high-frequency absorption device to attenuate the noise over a wide frequency range. Air flows through a separation chamber where 99+% of the free liquid is removed centrifugally.

Construction
All-welded heavy-duty steel construction. Exterior surfaces are painted with a high-quality primer.

Typical Attenuation Curve



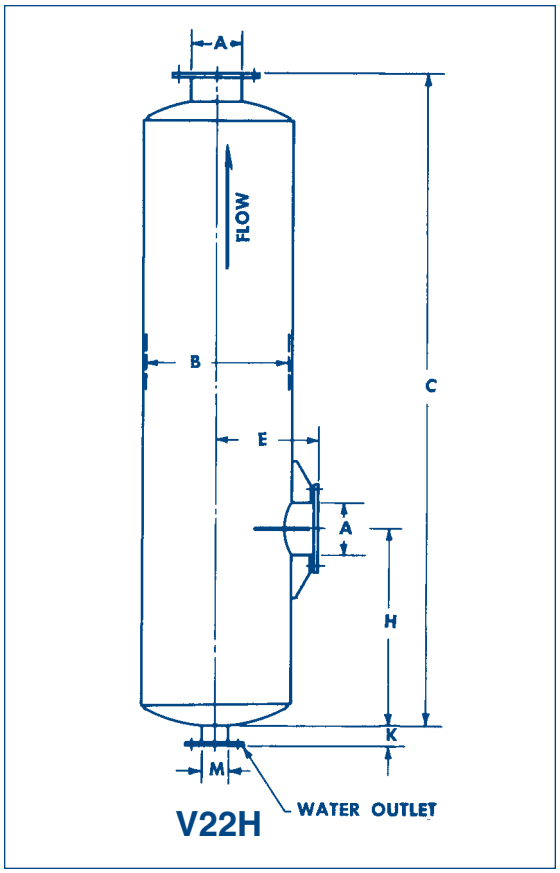


V32HA

MODEL	A	B	C	E	F	G	H	J	K	M	WEIGHT
V32HA-4	4	12	42	12	7	2½	11	5⅜	4¾	2	125
V32HA-5	5	16	60	16	9	3	13	7¼	6¾	2	175
V32HA-6	6	18	78½	18	11	3	15	8⅛	7½	2½	210
V32HA-8	8	22	79	22	11	3½	20	9¾	9¼	3	375
V32HA-10	10	24	92	24	13	4	24	10⅜	10	3	500
V32HA-12	12	30	117	30	16	4	28	13¼	12¾	4	910
V32HA-14	14	36	118	36	18	4½	32	16	15¾	4	1280
V32HA-16	16	42	155	42	23	4½	36	18¾	18¾	4	1670

V22H

Discharge Separator Silencers
Rotary Positive Vacuum Pumps



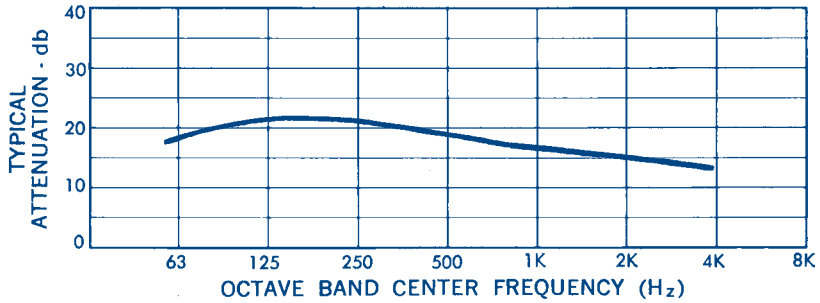
V22H

Application
Discharge Silencer for water sealed vacuum blowers, and dry type vacuum blowers.

Design
A highly effective two-chamber silencer which attenuates a wide band of frequencies. Gas passes through a separation section, a ported tube, and final silencer section. 95% of the free liquid is removed at the inlet section.

Construction
All-welded heavy-duty steel construction. Exterior surfaces are painted with a high quality primer.

Typical Attenuation Curve



MODEL	A	B	C	E	K	M	H		Wt. lbs.
							Min.	Max.	
V22H- 2	2 NPT	8	30	7	1	1½ IPS	4	4	35
V22H- 3	3 NPT	10	36	8	1	1½ IPS	5	5	75
V22H- 4	4	14	45	11	1	2 IPS	6	6	150
V22H- 5	5	16	51	12	1½	2 IPS	7	7	225
V22H- 6	6	18	58	13	1½	2 IPS	7	22	275
V22H- 8	8	22	70½	15	4	4	9	30	375
V22H-10	10	26	95½	17	4	4	11	45	800
V22H-12	12	30	108½	19	4	6	14	50	975
V22H-14	14	36	110½	22	4	6	16	48	1275
V22H-16	16	42	124½	25	4	6	18	52	1900
V22H-18	18	48	138	28	4	6	20	60	2700
V22H-20	20	48	150	28	4	6	22	63	2950
V22H-22	22	54	163½	31	4	6	24	70	3575
V22H-24	24	60	163½	34	4	6	26	72	4500

Discharge Separator Silencers
Rotary Positive Vacuum Pumps

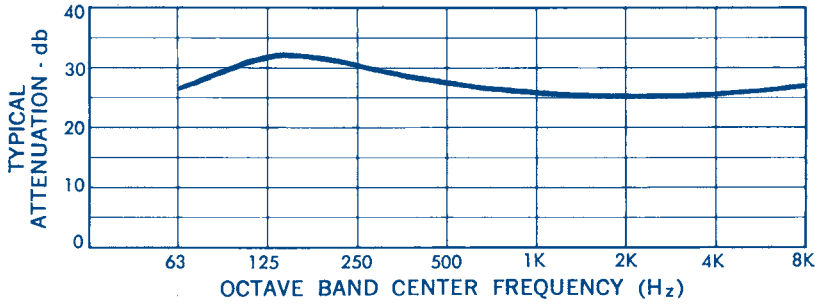
V33H

Application
Discharge Separator for water-sealed Rotary Positive Vacuum Blowers requiring high degree of silencing.

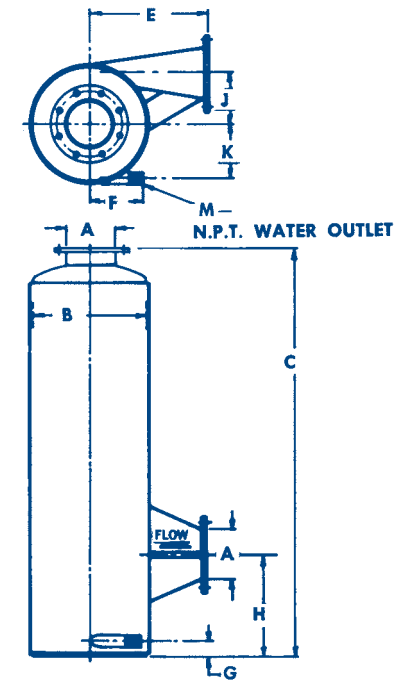
Design
A highly effective three-chamber Separator Silencer which attenuates a wide band of frequencies. Gas passes through a separation section, a ported tube, and final Silencer sections. 99+% of the free liquid is removed at the inlet chamber.

Construction
All-welded heavy-duty steel construction. Exterior surfaces are painted with a high-quality primer.

Typical Attenuation Curve



MODEL	A	B	C	E	F	G	H	J	K	M	WEIGHT
V33H-4	4	12	54	12	7	2½	11	5⅜	4¾	2	140
V33H-5	5	16	66	16	9	3	13	7¼	6¾	2	195
V33H-6	6	18	74	18	11	3	15	8⅛	7½	2½	240
V33H-8	8	22	91	22	11	3½	16	9¾	9¼	3	420
V33H-10	10	24	110	24	13	4	24	10⅜	10	3	585
V33H-12	12	30	127	30	16	4	28	13¼	12¾	4	1000
V33H-14	14	36	142	36	18	4½	32	16	15¾	4	1390
V33H-16	16	42	179	42	22	4½	36	18¾	18¾	4	2035
V33H-18	18	48	204	48	22	4½	36	21⅝	21¾	4	3130



V33H

Other Stoddard Silencers Products

Bulletin	Series/Title	Contents
Series PD	Discharge Silencer and Base	The PD is a discharge silencer for blowers on which the blower, motor and belt guard are mounted as an integral part of the silencer.
Series L	Rotary Blower Intake Silencers	Intake silencers effectively reduce the noise and destructive low frequency pulsations that can be detrimental to surrounding equipment and personnel, as well as neighbors.
Series D	Rotary Blower Discharge Silencers	Discharge silencers are essential to good system performance on all rotary blower systems. The belief that the discharge creates less noise than the inlet is erroneous because the discharge pulsations and noise are normally contained in a closed system.
Series E	Engine Exhaust Silencers	The selection of the correct type of engine intake and discharge silencer is determined by the type of engine, the end use of the engine, and the degree of silencing required. Various models are available which can meet the above requirements. Special performance can be designed into existing models upon request.
Series C	Centrifugal Compressor Silencers	Effective treatment of the intake and discharge noise generated by the centrifugal compressor is accomplished through the use of the low pressure-drop absorption-type silencers.
Series CF	Fan Silencers	Effective treatment of the intake and discharge noise generated by the blower fan is accomplished by using a high volume, low pressure drop, absorption type silencer which can control the noise as a unit.
Series F	Air Intake Filters and Filter Silencers	Air intake filter and filter silencer requirements vary with installation locations and type of foreign matter being removed from the air.
Series F64	Air Intake Filters and Filter Silencers	The series F64 Air Intake Filter and Filter Silencer is designed to mount directly on the inlet of an engine, blower, or compressor.
Series F65	Inline Air Filters	The series F65 Filter is designed to mount directly in the air piping system for engines, blowers or compressors.
Series B	Vent Silencers	To effectively treat the noise generated due to turbulence, high velocity of the gas stream must be reduced. This is achieved through the use of one or two stage diffusers located at the silencer inlet.
Series D90/D93	Rotary Blower Combination Silencers	The D90/D93 silencer is a combination intake and discharge silencer, designed into a single silencer, in which the blower and motor are mounted as an integral part of the silencer. This enables the blower system to be pretested, before installation at the job site.

*****Custom Designed Silencers Available*****

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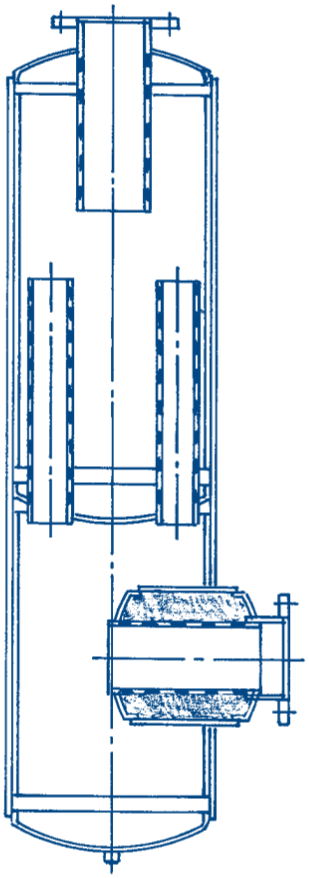
DRY VACUUM BLOWER SILENCERS



Stoddard 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 pulses, 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 2½ 3 4	6297 5038 4198 3148	L21 or D13	D33
5 6 7 8	2519 2099 1799 1574		
10 12 14	1295 1049 899	L41	L61
16 18 20	787 699 629		

Discharge Silencer Model Selection Chart "B"

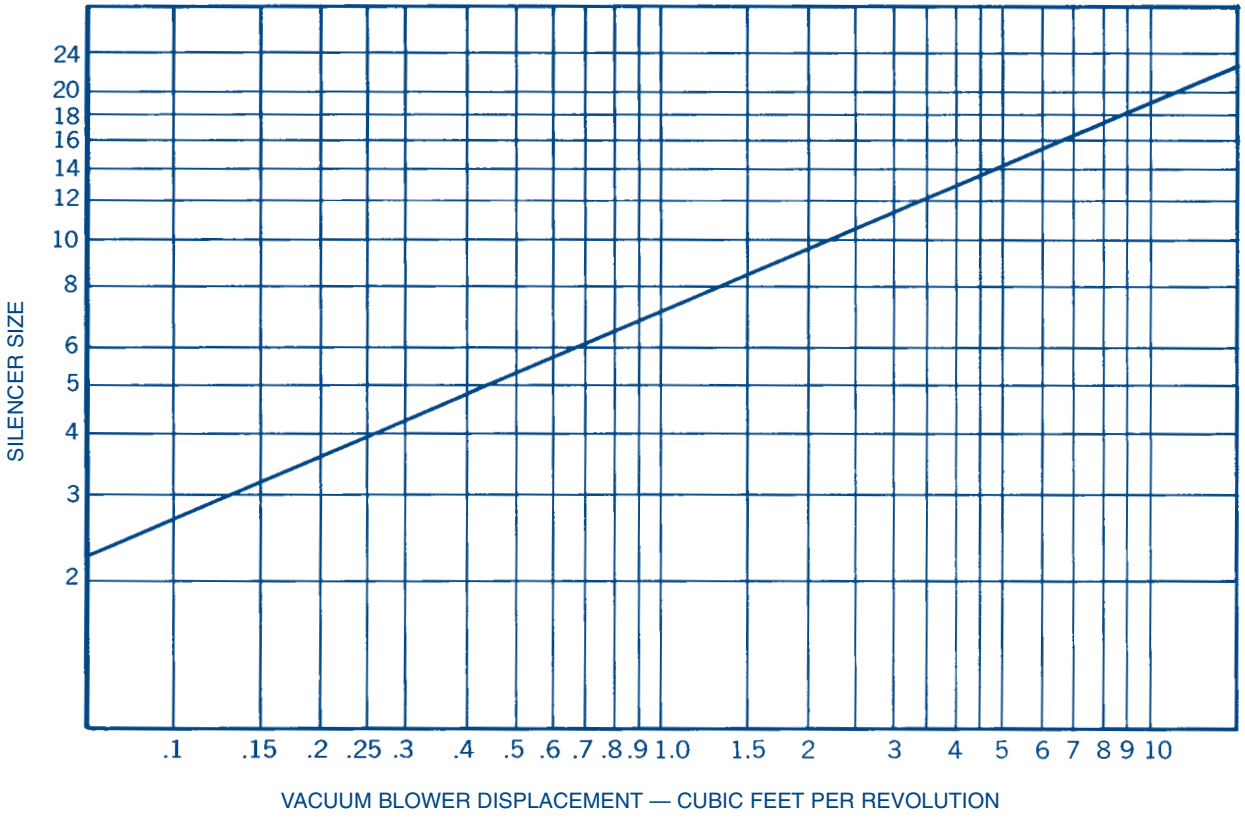
Blower Gear Size	Discharge Transition Speed - RPM (2700 FPM)	Below Transition Speed	Above Transition Speed
2 2½ 3	5152 4125 3435	D13	D33
3½ 4 5	2945 2580 2060		
6 7 8	1720 1470 1285		
10 12 14	1030 860 735		
16 18 20	645 573 515		

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

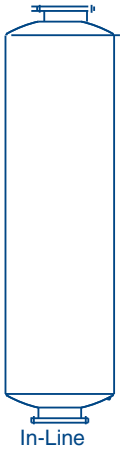
Size Selection Chart “D”



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”.

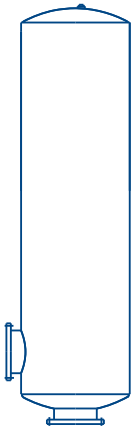
Silencer Basic Configurations



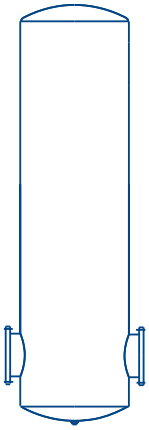
In-Line
Configuration

"H"
Configuration

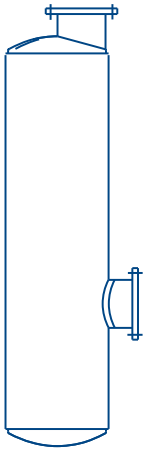
"R"
Configuration



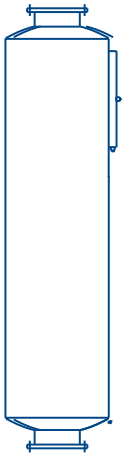
"G"
Configuration



"T"
Configuration



"HX"
Configuration

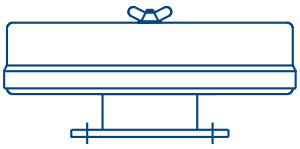


Spark
Arrester

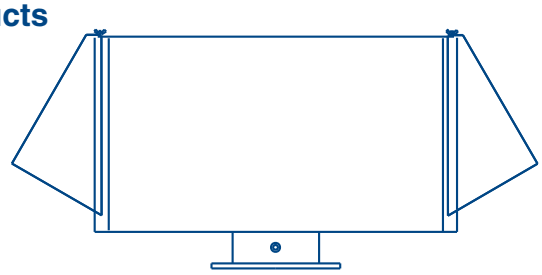
Flanged, NPT and plain pipe tubes inlet, outlet are available

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

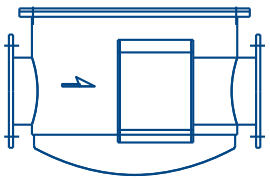
Other Stoddard Silencers Products



F64 Air Filters
Up to 5600 CFM



F21 Panel Air Filters
2500 CFM and Up



F65 In-Line Air Filters
Up to 5600 CFM

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