

HAPCO
Extreme Series
End Inlet - End Outlet

SIZE MODEL	DRAWING NUMBER	A	B	C	D	E	WT (Lbs.)
1674EXT4	3000A-1	4	16	74	84	5	220
2092EXT5	3001A-1	5	20	92	105	6.5	310
2490EXT6	3002A-1	6	24	90	105	7.5	400
2690EXT8	3003A-1	8	26	90	106	8	500
30142EXT10	3004A-1	10	30	142	161	9.5	1025
36142EXT12	3005A-1	12	36	142	163	10.5	1500
42165EXT14	3006A-1	14	42	165	190	12.5	2255
42176EXT16	3007A-1	16	42	176	202	13	2525
48199EXT18	3008A-1	18	48	199	228	14.5	3300
54200EXT20	3009A-1	20	54	200	230	15	3750
60213EXT22	3010A-1	22	60	213	244	15.5	5125
62212EXT24	3011A-1	24	62	212	244	16	5350

*For price information see Section 2 Page 8

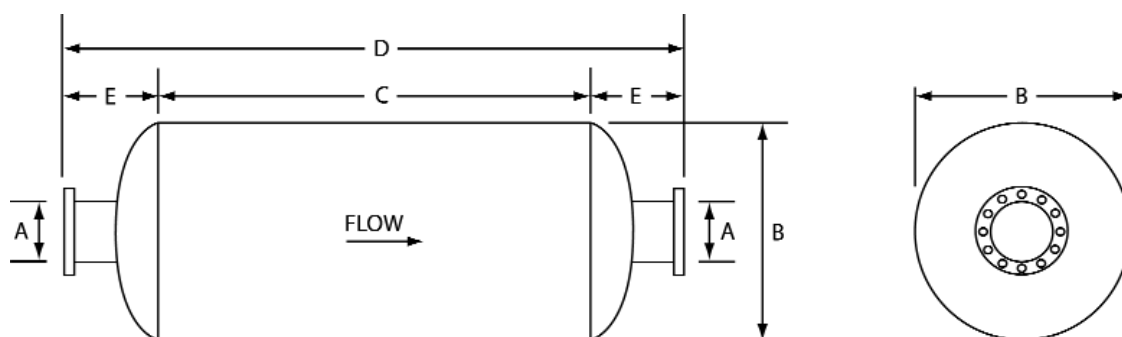
*Note Estimated weight only

Recommended Applications:

- Hospitals
- Tug and Fishing Boats
- Where the surrounding noise level is low

Features:

- Attenuation 45-52 dBA
- Listed sound data is based on average sound curves and is not to be used as absolute
- Noise reduction is accomplished by a combination of absorption and annulling of noise waves



**HAPCO
Extreme Series
Side Inlet - End Outlet**

SIZE MODEL	DRAWING NUMBER	A	B	C	D	E	F	G	H	I	WT (Lbs.)
1675EXT4SI	3100A-1	4	16	75	81	1	5	8	4	73	220
2090EXT5SI	3101A-1	5	20	90	99.75	3.25	6.5	10	4	89.75	310
2492EXT6SI	3102A-1	6	24	92	103.25	3.75	7.5	10	4	93.25	400
2692EXT8SI	3103A-1	8	26	92	104	4	8	10	4	94	500
30144EXT10SI	3104A-1	10	30	144	158	4.5	9.5	12	4	146	1025
36144EXT12SI	3105A-1	12	36	144	160	5.25	10.75	14	4	146	1500
42167EXT14SI	3106A-1	14	42	167	186	6.625	12.375	16	4	170	2255
42178EXT18SI	3107A-1	16	42	178	198	6.625	13.375	18	6	180	2525
48201EXT18SI	3108A-1	18	48	201	224	8.25	14.75	20	5	204	3300
54202EXT20SI	3109A-1	20	54	202	227	10	15	21	5	206	3750
60215EXT22SI	3110A-1	22	60	215	240	10	15	24	5	216	5125
62219EXT24SI	3111A-1	24	62	218	243.5	10	15.5	26	5	217.5	5350

**For price information see Section 2 Page 8*

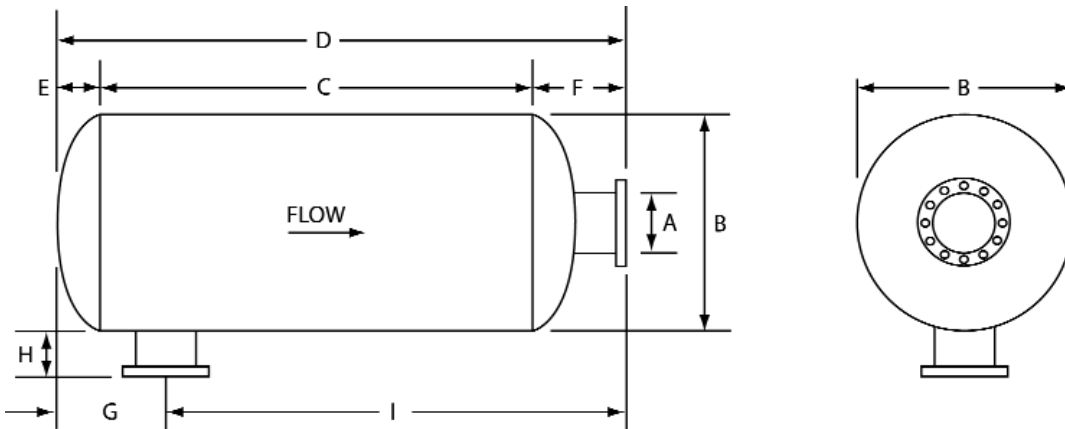
**Note Estimated weight only*

Recommended Applications:

- Hospitals
- Tug and Fishing Boats
- Where the surrounding noise level is low

Features:

- Attenuation 45-52 dBA
- Listed sound data is based on average sound curves and is not to be used as absolute
- Noise reduction is accomplished by a combination of absorption and annulling of noise waves



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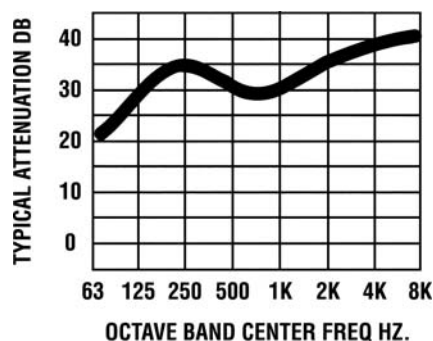
Super Critical Grade VCS Series

End Inlet - End Outlet

SIZE MODEL	DWG #	A	B	C	D	E	WT (Lbs.)
610VCS1	100A-1	1	6	10	14	2	11.5
612VCS1-4	101A-1	1.25	6	12	16	2	12
717VCS1-8	102A-1	1.5	7	17	22	2.5	15
7518VCS2	103A-1	2	7.5	18	24	3	19
924VCS2-8	104A-1	2.5	9	24	31.5	3.75	31
924VCS3	105A-1	3	9	24	31.5	3.75	37
1130VCS3-8	106A-1	3.5	11	30	37.5	3.75	53
1242VCS4	107A-1	4	12	42	51.5	4.75	100
1448VCS5	108A-1	5	14	48	57.5	4.75	123
1864VCS6	109A-1	6	18	64	77.5	6.75	249
2272VCS8	110A-1	8	22	72	86	7	340
2884VCS10	111A-1	10	28	84	99.5	7.75	670
3096VCS12	112A-1	12	30	96	114.5	9.25	812
36114VCS14	113A-1	14	36	114	133	9.5	1313
36124VCS16	114A-1	16	36	124	144	10	1400
42126VCS18	115A-1	18	42	126	148	11	2000
48130VCS20	116A-1	20	48	130	154	12	2508
48138VCS22	117A-1	22	48	138	162	12	2850
54148VCS24	118A-1	24	54	148	174	13	2910
54152VCS26	119A-1	26	54	152	182	15	3300
60160VCS28	120A-1	28	60	160	192	16	5400
66196VCS30	121A-1	30	66	196	229	16.5	7000
72242VCS32	122A-1	32	72	242	275	16.5	9500
74242VCS36	123A-1	36	74	242	275	16.5	11000

*For price information see Section 2 Page 6

*Note Estimated weight only



Recommended Applications:

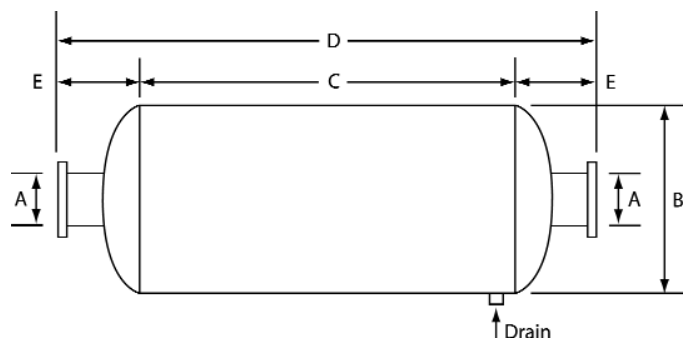
- Hospitals
- Ships, Tug and Fishing Boats
- Waste Water Plants
- Schools
- And other environmental impact areas

Features:

- Typical Attenuation 30-42 dBA
- Exhaust gases flow through the silencer in a vortex motion and noise reduction is accomplished by a combination of absorption & annulling of noise waves resulting in reduced silencer diameters
- Sound data is based on **Flow Velocity Not To Exceed 9000 FPM**, see engineering section chart
- Standard heavy duty all welded steel construction with high temperature primer and black paint
- Optional stainless steel construction or zinc based high heat and high corrosion resistant paint

Accessories:

- Flexible Connectors
- Mounting Bands
- Hanger Brackets
- Wye Connectors
- Wall and Roof Thimbles
- High Temp Exhaust Blankets
- Support Legs for Vertical Mounting
- Rain Caps
- Exhaust Pipe Spools
- Backfire Relief Vents
- Flanges of all types
- Clean Outs or Inspection Ports
- Gaskets - Hi Temp
- Nuts & Bolts



HAPCO
Super Critical Grade VCS Series
Side Inlet - End Outlet

INLET SIZE MODEL	DWG #	A	B	C	D	E	F	G	H	I	WT (Lbs.)
614VCS1SI	200A-1	1	6	14	16.5	0.5	2	1.75	1.5	14.75	13
616VCS1-4SI	201A-1	1.25	6	16	18.5	0.5	2	2	1.5	16.5	14.5
722VCS1-8SI	202A-1	1.5	7	22	25	0.5	2.5	2.25	2	22.75	23
7522VCS2SI	203A-1	2	7.5	22	25	0.5	2.5	2.25	2.5	22.75	26
926VCS2-8SI	204A-1	2.5	9	26	30.25	0.75	3.375	3	2.5	27.25	35
1036VCS3SI	205A-1	3	10	36	40.25	0.875	3.375	3	2.5	37.25	52
1238VCS3-8SI	206A-1	3.5	12	38	42.5	0.875	3.625	4.5	2.5	38	80
1248VCS4SI	207A-1	4	12	48	53.25	0.875	4.375	4.75	3	48.5	103
1658VCS5SI	208A-1	5	16	58	63.875	1	4.875	5.375	4	58.5	188
1872VCS6SI	209A-1	6	18	72	82	3	7	8	4	74	260
2284VCS8SI	211A-1	8	22	84	95	3.5	8	10	4	85	600
2896VCS10SI	212A-1	10	28	96	108.75	4.375	8.375	12.5	4	96.25	696
30110VCS12SI	213A-1	12	30	110	123	4.5	8.5	14	4	109	1075
36132VCS14SI	214A-1	14	36	132	146	5.25	8.75	16.5	5	129.5	1872
36144VCS16SI	215A-1	16	36	144	159.25	5.25	10	16.25	5	143	1920
42144VCS18SI	216A-1	18	42	144	162.25	6.625	11.63	19	5	143.25	2386
48160VCS20SI	217A-1	20	48	160	181.25	8.25	13	22.25	5	159	2550
48172VCS22SI	218A-1	22	48	172	193.25	8.25	13	23.25	5	170	2765
54185VCS24SI	219A-1	24	54	185	210	10	15	26	4.5	184	3539
54192VCS26SI	220A-1	26	54	192	217	10	15	27	5	190	3826
60204VCS28SI	221A-1	28	60	204	230	10	16	28	5	202	6000
66214VCS30SI	222A-1	30	66	214	241.5	11	16.5	30	5	211.5	7300
72230VCS32SI	223A-1	32	72	230	258.62	12.12	16.5	32.12	6	226.5	9200
74230VCS36SI	224A-1	36	74	230	258.62	12.12	16.5	32.12	6	226.5	11400

*For price information see Section 2 Page 7

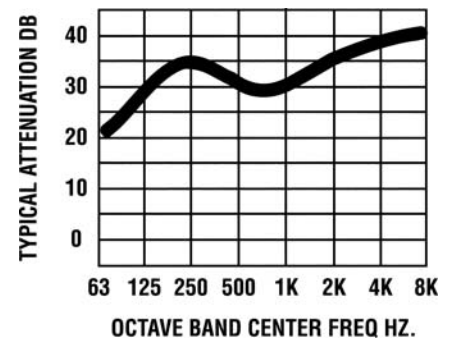
*Note Estimated weight only

Features:

- Typical Attenuation 30-42 dBA
- Exhaust gases flow through the silencer in a vortex motion and noise reduction is accomplished by a combination of absorption & annulling of noise waves resulting in reduced silencer diameters
- Sound data is based on **Flow Velocity Not To Exceed 9000 FPM**, see engineering section chart
- Standard heavy duty all welded steel construction with high temperature primer and black paint
- Optional stainless steel construction or zinc based high heat and high corrosion resistant paint

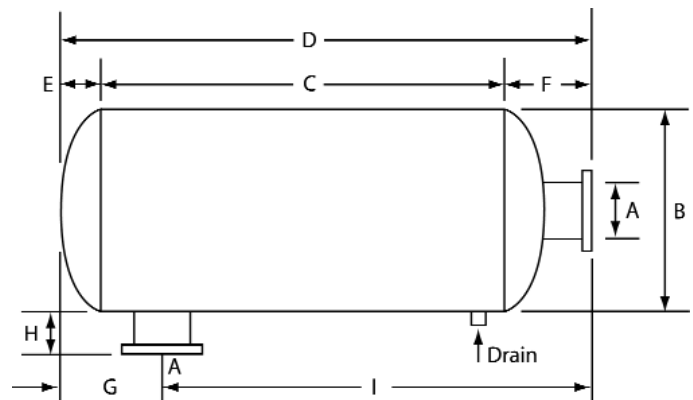
Recommended Applications:

- Hospitals
- Ships, Tug and Fishing Boats
- Waste Water Plants
- Schools
- And other environmental impact areas



Accessories:

- Flexible Connectors
- Mounting Bands
- Hanger Brackets
- Wye Connectors
- Wall and Roof Thimbles
- High Temp Exhaust Blankets
- Support Legs for Vertical Mounting
- Rain Caps
- Exhaust Pipe Spools
- Backfire Relief Vents
- Flanges of all types
- Clean Outs or Inspection Ports
- Gaskets - Hi Temp
- Nuts & Bolts



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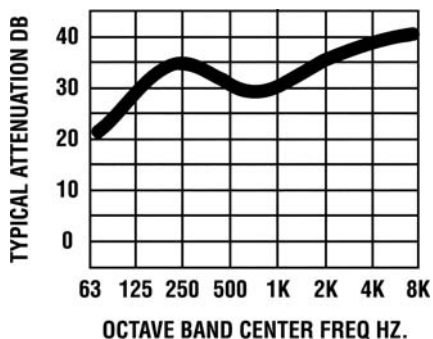
Super Critical Grade VCS Series

Side Inlet - Side Outlet

SIZE MODEL	DWG #	A	B	C	D	E	F	G	H	I	WT (Lbs.)
1038VCS3SI-SO	300A-1	3	10	38	39.75	0.875	3	3.25	3.25	33.25	55
1240VCS3-8SI-SO	301A-1	3.5	12	40	41.75	0.875	3	3.625	3.625	34.5	95
1448VCS4SI-SO	302A-1	4	14	48	49.75	0.875	3	4.125	4.125	41.5	130
1660VCS5SI-SO	303A-1	5	16	60	62	1	3.5	5.375	5.375	51.25	197
2268VCS6SI-SO	304A-1	6	22	68	75	3.5	4	10.5	10.5	54	340
2480VCS8SI-SO	305A-1	8	24	80	87.5	3.75	4	11.25	11.25	65	460
2896VCS10SI-SO	306A-1	10	28	96	104.75	4.375	4	13	13	78.75	715
30140VCS12SI-SO	307A-1	12	30	116	125	4.5	4	14.375	14.375	96.25	1275
36140VCS14SI-SO	308A-1	14	36	140	150.5	5.25	5	16.25	16.25	118	1975
42154VCS16SI-SO	309A-1	16	42	154	167.25	6.625	5	18.625	18.625	130	2595
42168VCS18SI-SO	310A-1	18	42	168	181.25	6.625	5	19.625	19.625	142	2890
48180VCS20SI-SO	311A-1	20	48	180	196.5	8.25	5	22.25	22.25	152	2899
54196VCS22SI-SO	312A-1	22	54	196	216	10	5	25	25	166	3900
54209VCS24SI-SO	313A-1	24	54	209	229	10	5	26	26	177	4200
60212VCS26SI-SO	314A-1	26	60	212	232	10	6	27	27	178	6300
60232VCS28SI-SO	315A-1	28	60	232	252	10	6	27	27	198	6600
72232VCS30SI-SO	316A-1	30	72	232	256.24	12.12	6	29.12	29.12	198	9300

*For price information see Section 2 Page 7

*Note Estimated weight only



Recommended Applications:

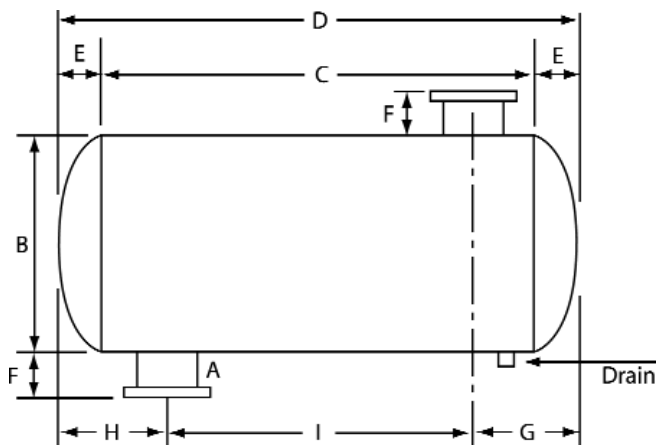
- Hospitals
- Waste Water Plants
- Tug and Fishing Boats
- And other environmental impact areas

Features:

- Attenuation 30-42 dBA
- Exhaust gases flow through the silencer in a vortex motion and noise reduction is accomplished by a combination of absorption & annulling of noise waves resulting in reduced silencer diameters
- Sound data is based on **Flow Velocity Not To Exceed 9000 FPM**, see engineering section chart
- Standard heavy duty all welded steel construction with high temperature primer and black paint
- Optional stainless steel construction or zinc based high heat and high corrosion resistant paint
- Inlet size 3" MPT - larger size flanged

Accessories:

- Flexible Connectors
- Mounting Bands
- Hanger Brackets
- Wye Connectors
- Wall and Roof Thimbles
- High Temp Exhaust Blankets
- Support Legs for Vertical Mounting
- Rain Caps
- Exhaust Pipe Spools
- Backfire Relief Vents
- Flanges of all types
- Clean Outs or Inspection Ports
- Gaskets - Hi Temp
- Nuts & Bolts



HAPCO
Super Critical Grade SCSC Series
Center Side Inlet - End Outlet

SIZE MODEL	DWG #	A	B	C	D	E	F	G	H	I	WT (Lbs.)
1140SCSC2-8	400A-1	2.5	11	40	44.75	0.875	3.875	24	3	20.5	90
1248SCSC3	401A-1	3	12	48	53	0.875	4.375	28.25	5	24.75	120
1460SCSC3-8	402A-1	3.5	14	60	65.25	0.875	4.375	34.375	5	30.875	160
1664SCSC4	403A-1	4	16	64	69.375	1	4.375	36.375	5	33	210
1870SCSC5	404A-1	5	18	70	79.5	3	6.5	41.5	5	38	270
2078SCSC6	405A-1	6	20	78	88	3.25	6.75	45.75	5	42.25	328
2688SCSC8	406A-1	8	26	88	99.5	4	7.5	51.5	5	48	400
3098SCSC10	407A-1	10	30	98	111	4.5	8.5	57.5	5	53.5	875
36124SCSC12	408A-1	12	36	124	139.25	5.25	10	72	6	67.25	1550
42146SCSC14	409A-1	14	42	146	163.25	6.625	10.625	83.625	6	79.625	2450
48160SCSC16	410A-1	16	48	160	180.5	8.25	12.25	92.25	6	88.25	2600
54182SCSC18	411A-1	18	54	182	206	10	14	105	6	101	3400
60182SCSC20	412A-1	20	60	182	206	10	14	105	6	101	7500

*For price information see Section 2 Page 8

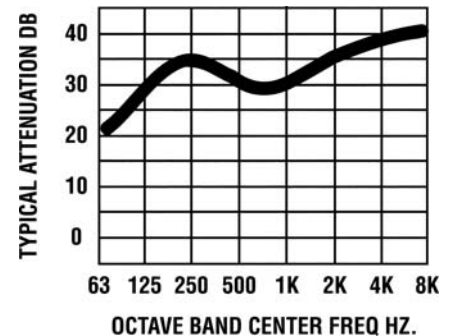
*Note Estimated weight only

Features:

- Attenuation 30-42 dBA
- Exhaust gases flow through the silencer in a vortex motion and noise reduction is accomplished by a combination of absorption & annulling of noise waves resulting in reduced silencer diameters
- Sound data is based on **Flow Velocity Not To Exceed 9000 FPM**, see engineering section chart
- Standard heavy duty all welded steel construction with high temperature primer and black paint
- Optional stainless steel construction or zinc based high heat and high corrosion resistant paint
- Optional dual side inlets available
- 4" and above are flanged
- Condensation drain included

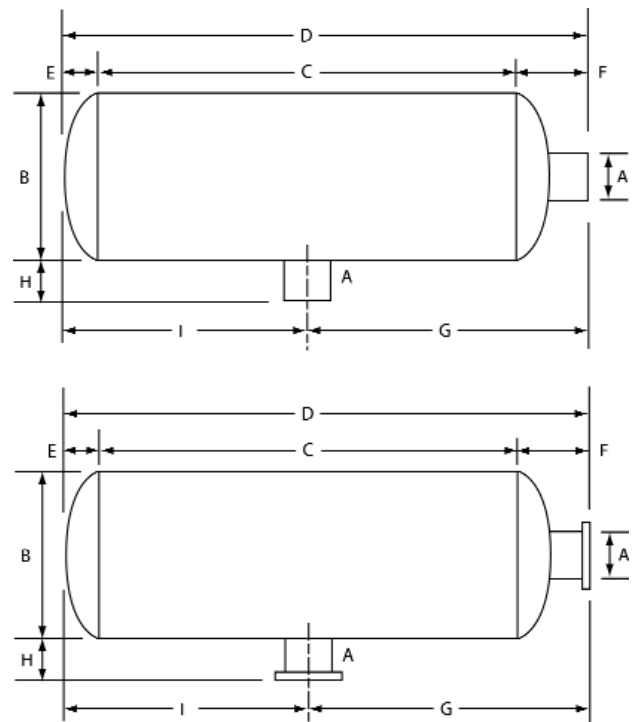
Recommended Applications:

- Hospitals
- Tug and Fishing Boats
- And where the surrounding noise level is low



Accessories:

- Flexible Connectors
- Mounting Bands
- Hanger Brackets
- Wye Connectors
- Wall and Roof Thimbles
- High Temp Exhaust Blankets
- Support Legs for Vertical Mounting
- Rain Caps
- Exhaust Pipe Spools
- Backfire Relief Vents
- Flanges of all types
- Clean Outs or Inspection Ports
- Gaskets - Hi Temp
- Nuts & Bolts

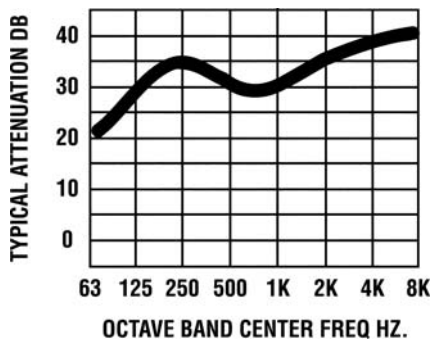


HAPCO Super Critical Grade VCS Series Dual Side Inlet

SIZE MODEL	DWG #	A	A1	B	C	D	E	F	G	H	I	M	WT (Lbs.)
1252VCS2-8X2-8X4	500A-1	2.5	4	12	52	57.125	0.875	4.25	6	4	51	±	130
1669VCS3X3X5	501A-1	3	5	16	69	74.75	1	4.75	8	4	66.5	±	265
2472VCS4X4X6	502A-1	4	6	24	72	83.5	3.75	7.75	8	4	75.5	±	478
2888VCS5X5X8	503A-1	5	8	28	88	100.75	4.375	8.375	8	4	92.75	±	684
30102VCS6X6X10	504A-1	6	10	30	102	115	4.5	8.5	10	6	105	±	1045
36136VCS8X8X12	505A-1	8	12	36	136	150.5	5.25	9.25	11.75	6	138.75	±	1682
36142VCS8X8X14	506A-1	8	14	36	142	157.25	5.25	10	12.5	6	144.75	±	1767
42150VCS10X10X16	507A-1	10	16	42	150	167.25	6.625	10.62	15.625	8	151.625	±	2150
48162VCS12X12X18	508A-1	12	18	48	162	183.5	8.25	13.25	15	8	168.5	±	2596
54184VCS12X12X20	509A-1	12	20	54	184	207.25	10	13.25	18	8	187.5	±	3233
72196VCS18X18X30	510A-1	18	30	72	196	224.12	12.12	16	24	8	198.5	±	5497
84252VCS20X20X36	511A-1	20	36	84	252	283.75	13.75	18	26	8	256.5	±	7879

*For price information see Section 2 Page 8

*Note Estimated weight only

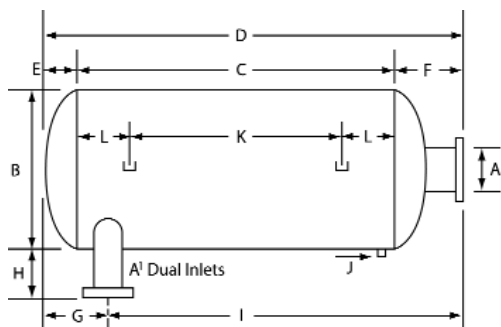


Recommended Applications:

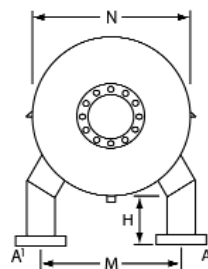
- Hospitals
- Waste Water Plants
- High Tech Industries
- Where the surrounding noise level is low

Features:

- Attenuation 30 to 40 dBA
- The rotation of the exhaust gas allows for a clean transition through the silencer with limited pressure loss
- This type of design allows for a change in the noise frequency to a higher band, the results are a much simpler sound to attenuate
- This is accomplished by the annulling of the noise by a series of chambers with acoustical packing
- The multi-chambered design also allows us to attenuate the lower frequency bands present in the exhaust
- A side branch designed chamber provides the last step to de-energize the noise. The external shell temperature is greatly reduced by the chambers with internal packing
- Hanger brackets and condensation drain included
- Exhaust gases flow through the silencer in a vortex motion and noise reduction is accomplished by a combination of absorption & annulling of noise waves resulting in reduced silencer diameters
- Sound data is based on **Flow Velocity Not To Exceed 9000 FPM**, see engineering section chart
- Standard heavy duty all welded steel construction with high temperature primer and black paint
- Optional stainless steel construction or zinc based high heat and high corrosion resistant paint



**NOTE: DUAL END INLETS
ALSO AVAILABLE**



NOTE:
M (±) DETERMINED
BY ENGINE EXHAUST
PIPING

Accessories:

- Flexible Connectors
- Mounting Bands
- Hanger Brackets
- Wye Connectors
- Wall and Roof Thimbles
- High Temp Exhaust Blankets
- Support Legs for Vertical Mounting
- Rain Caps
- Exhaust Pipe Spools
- Backfire Relief Vents
- Flanges of all types
- Clean Outs or Inspection Ports
- Gaskets - Hi Temp
- Nuts & Bolts

