

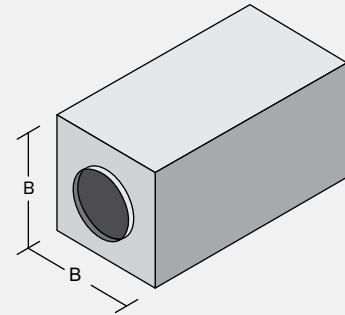
## 8 CNM-HV-F1

Circular No-Media  
High velocity silencer  
(<2000 fpm)

How to Specify Example:

8 X CNM-HV-F1 X 72

↑ Duct Connection Size    ↑ Silencer Model    ↑ Silencer Length



### Insertion Loss (IL)

+ : "forward flow" where noise & airflow move in same direction (e.g. supply side)

- : "reverse flow" where noise & airflow move in opposite directions (e.g. return side)

See [Silencer Selection Instructions](#). DIL above 50dB may be limited due to noise flanking around the silencer or along the duct walls. If more than 50dB DIL is required, contact your local Vibro-Acoustics Representative or call **1-800-565-8401**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1500	13	16	37	10	8	11	10	8
	0	12	14	35	8	8	12	11	9
	+ 1500	11	16	37	10	9	13	12	9
48	- 1500	13	18	38	11	9	13	13	10
	0	13	15	36	9	8	14	14	11
	+ 1500	12	18	38	11	10	15	14	11
60	- 1500	13	20	40	12	9	15	16	12
	0	14	16	37	10	9	17	16	12
	+ 1500	13	20	40	12	11	17	17	13
72	- 1500	13	21	41	13	10	17	19	14
	0	15	17	38	11	9	19	19	13
	+ 1500	14	21	42	13	12	20	20	14

### Pressure Drop (PD)

Pressure drops are reported in accordance with ASTM E477 methods and are based upon **ideal** flow conditions (5 diameters of straight duct on silencer inlet and 10 on outlet). Less than ideal conditions will result in an increase in pressure drop due to System Effects. See [Silencer System Effects Data](#).

Duct Connect. Size (in.)	B x B (in.)	Silencer Length (in.)	Weight (lbs)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
				750	1000	1250	1500	1750	2000	2500
8	30x30	36	106	0.03	0.06	0.10	0.14	0.19	0.25	0.31
		48	139	0.04	0.07	0.11	0.16	0.21	0.28	0.35
		60	172	0.04	0.08	0.12	0.17	0.24	0.31	0.39
		72	204	0.05	0.09	0.13	0.19	0.26	0.34	0.43

Acceptable (0 - 0.35")     Caution (>0.35") Pressure Drop may be too high for certain applications

### Generated Noise (GN)

@ 0.35 sq.ft. face area

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Generated Noise (dB re 10 <sup>-12</sup> watts)							
		63	125	250	500	1000	2000	4000	8000
All	- 2000	58	54	53	52	52	56	58	51
	- 1250	55	47	45	45	46	49	45	30
	+ 1250	58	54	48	43	45	47	44	31
	+ 2000	58	59	57	52	49	53	53	46

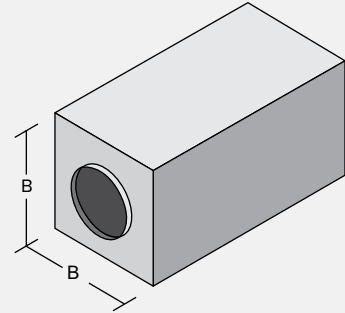
## 8 CNM-HV-F2

Circular No-Media  
High velocity silencer  
(<2000 fpm)

How to Specify Example:

8 X CNM-HV-F2 X 72

↑ Duct Connection Size      ↑ Silencer Model      ↑ Silencer Length



### Insertion Loss (IL)

+ : "forward flow" where noise & airflow move in same direction (e.g. supply side)

- : "reverse flow" where noise & airflow move in opposite directions (e.g. return side)

See [Silencer Selection Instructions](#). DIL above 50dB may be limited due to noise flanking around the silencer or along the duct walls. If more than 50dB DIL is required, contact your local Vibro-Acoustics Representative or call **1-800-565-8401**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1500	7	13	19	23	11	13	12	11
	0	5	9	15	20	10	13	12	13
	+ 1500	5	12	19	26	14	16	16	16
48	- 1500	9	15	23	25	12	14	14	12
	0	8	10	18	21	11	14	14	14
	+ 1500	6	14	23	28	15	17	18	17
60	- 1500	10	16	27	27	14	15	16	14
	0	10	12	21	23	12	15	15	15
	+ 1500	7	15	27	30	16	18	19	18
72	- 1500	12	18	31	29	15	17	17	15
	0	12	13	24	24	13	16	17	16
	+ 1500	7	17	30	33	18	19	21	19

### Pressure Drop (PD)

Pressure drops are reported in accordance with ASTM E477 methods and are based upon **ideal** flow conditions (5 diameters of straight duct on silencer inlet and 10 on outlet). Less than ideal conditions will result in an increase in pressure drop due to System Effects. See [Silencer System Effects Data](#).

Duct Connect. Size (in.)	B x B (in.)	Silencer Length (in.)	Weight (lbs)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
				750	1000	1250	1500	1750	2000	2500
8	20x20	36	68	0.06	0.10	0.16	0.23	0.31	0.40	0.51
		48	90	0.06	0.10	0.16	0.23	0.32	0.41	0.52
		60	113	0.06	0.11	0.17	0.24	0.33	0.43	0.54
		72	134	0.06	0.11	0.17	0.25	0.34	0.44	0.56

Acceptable (0 - 0.35")       Caution (>0.35") Pressure Drop may be too high for certain applications

### Generated Noise (GN)

@ 0.35 sq.ft. face area

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Generated Noise (dB re 10 <sup>-12</sup> watts)							
		63	125	250	500	1000	2000	4000	8000
All	- 2000	58	54	52	52	52	56	58	51
	- 1250	55	47	45	45	46	49	45	30
	+ 1250	58	54	48	43	45	47	44	31
	+ 2000	58	59	57	52	49	53	53	46

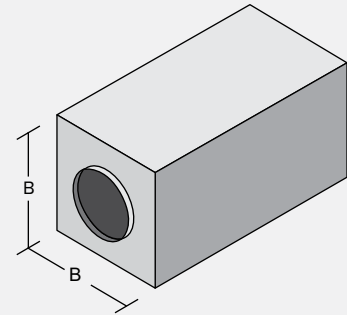
## 10 CNM-HV-F1

Circular No-Media  
High velocity silencer  
(<2000 fpm)

### How to Specify Example:

10 X CNM-HV-F1 X 72

↑ Duct Connection Size      ↑ Silencer Model      ↑ Silencer Length



### Insertion Loss (IL)

+ : "forward flow" where noise & airflow move in same direction (e.g. supply side)

- : "reverse flow" where noise & airflow move in opposite directions (e.g. return side)

See [Silencer Selection Instructions](#). DIL above 50dB may be limited due to noise flanking around the silencer or along the duct walls. If more than 50dB DIL is required, contact your local Vibro-Acoustics Representative or call **1-800-565-8401**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1500	12	14	31	11	8	11	10	9
	0	10	11	26	8	7	12	12	11
	+ 1500	12	13	29	10	9	13	13	12
48	- 1500	14	15	33	12	9	14	13	10
	0	11	12	29	9	9	15	14	12
	+ 1500	14	15	32	12	11	17	15	14
60	- 1500	15	17	36	14	11	17	16	12
	0	12	13	31	11	10	19	17	14
	+ 1500	15	17	35	14	12	20	18	16
72	- 1500	16	18	38	15	12	21	19	14
	0	13	14	33	12	11	22	19	16
	+ 1500	16	19	38	16	14	23	21	17

### Pressure Drop (PD)

Pressure drops are reported in accordance with ASTM E477 methods and are based upon **ideal** flow conditions (5 diameters of straight duct on silencer inlet and 10 on outlet). Less than ideal conditions will result in an increase in pressure drop due to System Effects. See [Silencer System Effects Data](#).

Duct Connect. Size (in.)	B x B (in.)	Silencer Length (in.)	Weight (lbs)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
				750	1000	1250	1500	1750	2000	2500
10	30x30	36	110	0.04	0.07	0.10	0.15	0.20	0.27	0.34
		48	143	0.04	0.07	0.11	0.16	0.22	0.28	0.36
		60	178	0.04	0.08	0.12	0.17	0.23	0.30	0.38
		72	212	0.05	0.08	0.13	0.18	0.25	0.32	0.41

Acceptable (0 - 0.35")       Caution (>0.35") Pressure Drop may be too high for certain applications

### Generated Noise (GN)

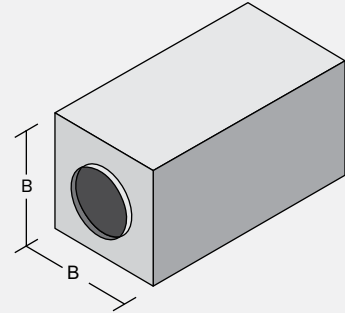
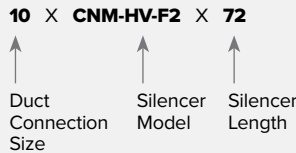
@ 0.35 sq.ft. face area

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Generated Noise (dB re 10 <sup>-12</sup> watts)							
		63	125	250	500	1000	2000	4000	8000
All	- 2000	58	58	56	54	54	58	61	57
	- 1250	55	50	47	46	48	50	48	36
	+ 1250	55	53	43	40	41	42	36	29
	+ 2000	57	59	57	52	49	54	53	47

## 10 CNM-HV-F2

Circular No-Media  
High velocity silencer  
(<2000 fpm)

**How to Specify Example:**



### Insertion Loss (IL)

+ : "forward flow" where noise & airflow move in same direction (e.g. supply side)

- : "reverse flow" where noise & airflow move in opposite directions (e.g. return side)

See [Silencer Selection Instructions](#). DIL above 50dB may be limited due to noise flanking around the silencer or along the duct walls. If more than 50dB DIL is required, contact your local Vibro-Acoustics Representative or call **1-800-565-8401**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1500	9	11	16	22	11	12	11	10
	0	7	8	12	19	10	12	12	12
	+ 1500	9	10	16	24	13	15	15	15
48	- 1500	11	12	18	25	13	14	13	12
	0	8	9	14	22	11	14	14	14
	+ 1500	9	11	18	27	15	17	17	16
60	- 1500	12	13	21	29	15	16	16	13
	0	9	10	16	24	13	16	16	15
	+ 1500	10	13	21	31	17	18	19	18
72	- 1500	13	14	24	32	17	18	18	15
	0	10	11	18	27	15	18	18	17
	+ 1500	11	14	23	34	19	20	21	19

### Pressure Drop (PD)

Pressure drops are reported in accordance with ASTM E477 methods and are based upon **ideal** flow conditions (5 diameters of straight duct on silencer inlet and 10 on outlet). Less than ideal conditions will result in an increase in pressure drop due to System Effects. See [Silencer System Effects Data](#).

Duct Connect. Size (in.)	B x B (in.)	Silencer Length (in.)	Weight (lbs)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
				750	1000	1250	1500	1750	2000	2500
10	20x20	36	73	0.05	0.09	0.13	0.19	0.26	0.34	0.43
		48	96	0.05	0.09	0.14	0.20	0.27	0.35	0.45
		60	119	0.05	0.09	0.14	0.21	0.28	0.37	0.46
		72	142	0.05	0.10	0.15	0.21	0.29	0.38	0.48

Acceptable (0 - 0.35")       Caution (>0.35") Pressure Drop may be too high for certain applications

### Generated Noise (GN)

@ 0.55 sq.ft. face area

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Generated Noise (dB re 10 <sup>-12</sup> watts)							
		63	125	250	500	1000	2000	4000	8000
All	- 2000	58	57	55	53	54	58	60	55
	- 1250	55	50	46	45	47	49	46	34
	+ 1250	55	55	44	38	41	41	34	29
	+ 2000	57	59	57	51	49	54	53	47

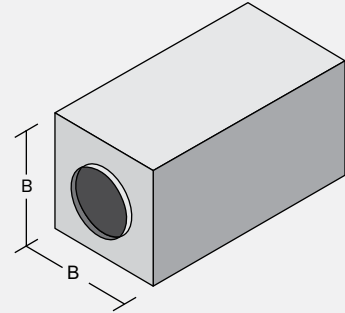
## 12 CNM-HV-F1

Circular No-Media  
High velocity silencer  
(<2000 fpm)

### How to Specify Example:

12 X CNM-HV-F1 X 72

↑ Duct Connection Size      ↑ Silencer Model      ↑ Silencer Length



### Insertion Loss (IL)

+ : "forward flow" where noise & airflow move in same direction (e.g. supply side)

- : "reverse flow" where noise & airflow move in opposite directions (e.g. return side)

See [Silencer Selection Instructions](#). DIL above 50dB may be limited due to noise flanking around the silencer or along the duct walls. If more than 50dB DIL is required, contact your local Vibro-Acoustics Representative or call **1-800-565-8401**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1500	10	11	24	11	8	11	11	9
	0	8	9	17	7	7	12	13	12
	+ 1500	10	11	22	11	9	14	14	14
48	- 1500	12	13	28	13	10	15	13	11
	0	9	10	21	10	9	16	15	14
	+ 1500	11	13	26	14	11	18	17	16
60	- 1500	13	14	32	15	12	20	16	13
	0	10	11	25	12	11	20	18	16
	+ 1500	13	14	31	16	14	22	19	18
72	- 1500	14	15	36	17	14	24	19	14
	0	11	12	28	14	13	25	20	19
	+ 1500	14	16	35	19	16	27	21	21

### Pressure Drop (PD)

Pressure drops are reported in accordance with ASTM E477 methods and are based upon **ideal** flow conditions (5 diameters of straight duct on silencer inlet and 10 on outlet). Less than ideal conditions will result in an increase in pressure drop due to System Effects. See [Silencer System Effects Data](#).

Duct Connect. Size (in.)	B x B (in.)	Silencer Length (in.)	Weight (lbs)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
				750	1000	1250	1500	1750	2000	2500
12	30x30	36	114	0.04	0.07	0.11	0.16	0.22	0.28	0.36
		48	149	0.04	0.07	0.11	0.16	0.22	0.29	0.37
		60	184	0.04	0.07	0.12	0.17	0.23	0.30	0.38
		72	219	0.04	0.08	0.12	0.17	0.23	0.30	0.38

Acceptable (0 - 0.35")       Caution (>0.35") Pressure Drop may be too high for certain applications

### Generated Noise (GN)

@ 0.79 sq.ft. face area

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Generated Noise (dB re 10 <sup>-12</sup> watts)							
		63	125	250	500	1000	2000	4000	8000
All	- 2000	58	61	59	56	56	61	65	63
	- 1250	56	54	50	48	49	52	51	42
	+ 1250	52	51	38	37	38	37	27	27
	+ 2000	55	59	57	52	50	55	53	49

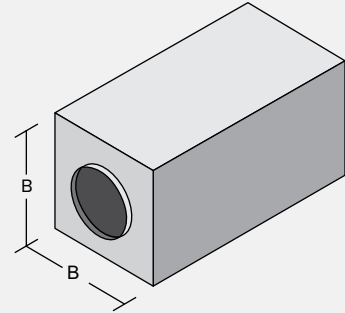
## 12 CNM-HV-F2

Circular No-Media  
High velocity silencer  
(<2000 fpm)

### How to Specify Example:

**12** × **CNM-HV-F2** × **72**

↑ Duct Connection Size      ↑ Silencer Model      ↑ Silencer Length



### Insertion Loss (IL)

+ : “forward flow” where noise & airflow move in same direction (e.g. supply side)

- : “reverse flow” where noise & airflow move in opposite directions (e.g. return side)

See [Silencer Selection Instructions](#). DIL above 50dB may be limited due to noise flanking around the silencer or along the duct walls. If more than 50dB DIL is required, contact your local Vibro-Acoustics Representative or call **1-800-565-8401**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1500	7	8	13	21	11	11	11	9
	0	6	6	10	19	9	11	12	11
	+ 1500	7	8	13	21	13	13	14	14
48	- 1500	8	9	14	25	13	14	13	11
	0	6	7	11	23	12	14	15	13
	+ 1500	8	9	14	26	15	16	16	15
60	- 1500	9	10	15	30	16	17	16	12
	0	7	8	11	26	14	17	17	15
	+ 1500	9	10	15	31	17	19	19	17
72	- 1500	10	11	17	35	19	20	18	14
	0	8	9	12	30	16	20	19	18
	+ 1500	9	10	16	36	19	21	21	18

### Pressure Drop (PD)

Pressure drops are reported in accordance with ASTM E477 methods and are based upon **ideal** flow conditions (5 diameters of straight duct on silencer inlet and 10 on outlet). Less than ideal conditions will result in an increase in pressure drop due to System Effects. See [Silencer System Effects Data](#).

Duct Connect. Size (in.)	B x B (in.)	Silencer Length (in.)	Weight (lbs)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
				750	1000	1250	1500	1750	2000	2500
12	20x20	36	76	0.04	0.07	0.11	0.16	0.21	0.28	0.35
		48	101	0.04	0.07	0.11	0.17	0.22	0.29	0.37
		60	125	0.04	0.08	0.12	0.17	0.23	0.31	0.39
		72	150	0.05	0.08	0.13	0.18	0.25	0.32	0.41

Acceptable (0 - 0.35")       Caution (>0.35") Pressure Drop may be too high for certain applications

### Generated Noise (GN)

@ 0.79 sq.ft. face area

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Generated Noise (dB re 10 <sup>-12</sup> watts)							
		63	125	250	500	1000	2000	4000	8000
All	-2000	58	60	57	54	55	60	63	60
	-1250	55	53	48	46	48	50	47	38
	+1250	52	55	47	38	47	41	31	31
	+2000	56	60	57	50	49	55	53	49

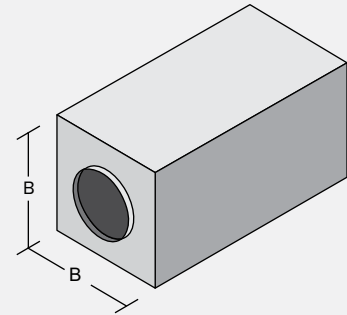
## 14 CNM-HV-F1

Circular No-Media  
High velocity silencer  
(<2000 fpm)

How to Specify Example:

14 X CNM-HV-F1 X 72

↑ Duct Connection Size      ↑ Silencer Model      ↑ Silencer Length



### Insertion Loss (IL)

+ : “forward flow” where noise & airflow move in same direction (e.g. supply side)

- : “reverse flow” where noise & airflow move in opposite directions (e.g. return side)

See [Silencer Selection Instructions](#). DIL above 50dB may be limited due to noise flanking around the silencer or along the duct walls. If more than 50dB DIL is required, contact your local Vibro-Acoustics Representative or call **1-800-565-8401**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1500	9	10	24	9	8	9	8	6
	0	8	8	19	7	8	10	9	8
	+ 1500	8	9	22	9	9	11	10	9
48	- 1500	10	12	28	10	10	12	10	8
	0	9	10	22	8	10	13	12	11
	+ 1500	10	11	27	11	11	14	12	11
60	- 1500	12	13	31	12	12	16	12	10
	0	10	11	25	10	12	17	14	13
	+ 1500	12	13	31	13	14	18	15	14
72	- 1500	13	14	35	14	14	19	15	12
	0	11	12	28	11	15	20	17	15
	+ 1500	14	15	35	15	16	21	17	16

### Pressure Drop (PD)

Pressure drops are reported in accordance with ASTM E477 methods and are based upon **ideal** flow conditions (5 diameters of straight duct on silencer inlet and 10 on outlet). Less than ideal conditions will result in an increase in pressure drop due to System Effects. See [Silencer System Effects Data](#).

Duct Connect. Size (in.)	B x B (in.)	Silencer Length (in.)	Weight (lbs)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
				750	1000	1250	1500	1750	2000	2500
14	36x36	36	145	0.03	0.05	0.08	0.12	0.16	0.21	0.27
		48	189	0.03	0.06	0.09	0.13	0.18	0.23	0.29
		60	233	0.04	0.06	0.10	0.14	0.19	0.25	0.32
		72	278	0.04	0.07	0.11	0.16	0.21	0.28	0.35

Acceptable (0 - 0.35")       Caution (>0.35") Pressure Drop may be too high for certain applications

### Generated Noise (GN)

@ 1.07 sq.ft. face area

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Generated Noise (dB re 10 <sup>-12</sup> watts)							
		63	125	250	500	1000	2000	4000	8000
All	-2000	60	63	64	59	61	66	73	67
	-1250	57	56	55	51	54	58	60	46
	+1250	57	59	51	45	48	50	48	39
	+2000	59	65	65	57	56	62	65	57

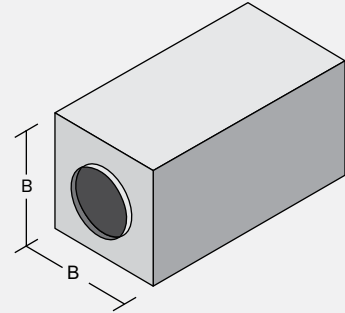
## 14 CNM-HV-F2

Circular No-Media  
High velocity silencer  
(<2000 fpm)

How to Specify Example:

14 X CNM-HV-F2 X 72

↑ Duct Connection Size      ↑ Silencer Model      ↑ Silencer Length



### Insertion Loss (IL)

+ : "forward flow" where noise & airflow move in same direction (e.g. supply side)

- : "reverse flow" where noise & airflow move in opposite directions (e.g. return side)

See [Silencer Selection Instructions](#). DIL above 50dB may be limited due to noise flanking around the silencer or along the duct walls. If more than 50dB DIL is required, contact your local Vibro-Acoustics Representative or call **1-800-565-8401**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1500	8	10	14	22	13	11	9	7
	0	5	6	11	18	10	10	10	8
	+ 1500	8	9	14	22	15	14	12	11
48	- 1500	9	10	15	26	14	13	10	7
	0	6	7	12	20	12	12	12	10
	+ 1500	9	10	15	25	16	15	13	12
60	- 1500	10	11	16	29	16	14	11	8
	0	7	8	13	23	13	14	13	11
	+ 1500	10	11	17	28	17	17	15	13
72	- 1500	11	12	18	33	17	16	12	9
	0	8	8	14	26	15	15	15	12
	+ 1500	10	12	18	31	19	18	16	14

### Pressure Drop (PD)

Pressure drops are reported in accordance with ASTM E477 methods and are based upon **ideal** flow conditions (5 diameters of straight duct on silencer inlet and 10 on outlet). Less than ideal conditions will result in an increase in pressure drop due to System Effects. See [Silencer System Effects Data](#).

Duct Connect. Size (in.)	B x B (in.)	Silencer Length (in.)	Weight (lbs)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
				750	1000	1250	1500	1750	2000	2500
14	24x24	36	95	0.03	0.05	0.08	0.11	0.15	0.20	0.25
		48	125	0.03	0.05	0.08	0.12	0.16	0.21	0.27
		60	155	0.03	0.06	0.09	0.13	0.17	0.23	0.29
		72	185	0.03	0.06	0.09	0.14	0.18	0.24	0.30

Acceptable (0 - 0.35")       Caution (>0.35") Pressure Drop may be too high for certain applications

### Generated Noise (GN)

@ 1.07 sq.ft. face area

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Generated Noise (dB re 10 <sup>-12</sup> watts)							
		63	125	250	500	1000	2000	4000	8000
All	-2000	60	63	63	58	60	66	72	65
	-1250	57	56	54	50	54	57	58	44
	+1250	57	60	52	43	47	49	46	39
	+2000	59	65	65	56	56	62	65	57



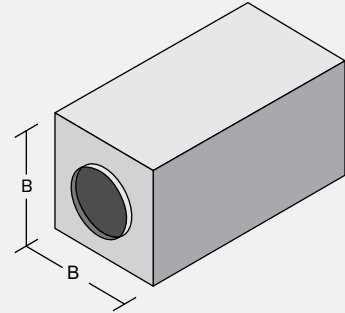
## 16 CNM-HV-F1

Circular No-Media  
High velocity silencer  
(<2000 fpm)

**How to Specify Example:**

**16 X CNM-HV-F1 X 72**

↑ Duct Connection Size      ↑ Silencer Model      ↑ Silencer Length



### Insertion Loss (IL)

+ : "forward flow" where noise & airflow move in same direction (e.g. supply side)

- : "reverse flow" where noise & airflow move in opposite directions (e.g. return side)

See [Silencer Selection Instructions](#). DIL above 50dB may be limited due to noise flanking around the silencer or along the duct walls. If more than 50dB DIL is required, contact your local Vibro-Acoustics Representative or call **1-800-565-8401**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1500	7	9	24	6	1	7	4	3
	0	6	8	21	6	9	8	6	5
	+ 1500	6	8	23	6	8	8	6	5
48	- 1500	9	10	27	7	10	9	6	5
	0	8	9	23	7	11	11	8	7
	+ 1500	8	10	27	8	11	11	8	7
60	- 1500	11	12	31	9	12	11	8	7
	0	10	11	25	8	14	13	11	9
	+ 1500	10	12	31	9	14	13	11	9
72	- 1500	12	13	34	10	15	14	10	10
	0	11	12	27	9	17	15	13	10
	+ 1500	12	14	35	11	17	16	13	11

### Pressure Drop (PD)

Pressure drops are reported in accordance with ASTM E477 methods and are based upon **ideal** flow conditions (5 diameters of straight duct on silencer inlet and 10 on outlet). Less than ideal conditions will result in an increase in pressure drop due to System Effects. See [Silencer System Effects Data](#).

Duct Connect. Size (in.)	B x B (in.)	Silencer Length (in.)	Weight (lbs)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
				750	1000	1250	1500	1750	2000	2500
16	36x36	36	151	0.02	0.03	0.05	0.08	0.10	0.13	0.17
		48	197	0.02	0.04	0.07	0.10	0.13	0.17	0.22
		60	242	0.03	0.05	0.08	0.12	0.16	0.21	0.27
		72	288	0.04	0.06	0.10	0.14	0.19	0.25	0.32

Acceptable (0 - 0.35")       Caution (>0.35") Pressure Drop may be too high for certain applications

### Generated Noise (GN)

@ 1.40 sq.ft. face area

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Generated Noise (dB re 10 <sup>-12</sup> watts)							
		63	125	250	500	1000	2000	4000	8000
All	-2000	63	67	73	64	70	71	70	63
	-1250	61	61	65	57	60	62	61	53
	+1250	68	73	63	54	58	59	57	48
	+2000	66	75	75	66	68	71	67	59

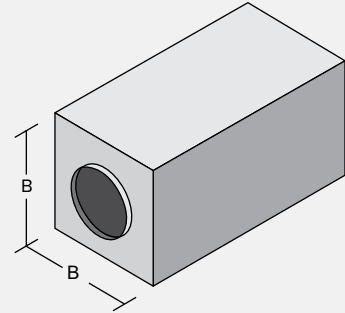
## 16 CNM-HV-F2

Circular No-Media  
High velocity silencer  
(<2000 fpm)

How to Specify Example:

16 X CNM-HV-F2 X 72

↑ Duct Connection Size      ↑ Silencer Model      ↑ Silencer Length



### Insertion Loss (IL)

+ : "forward flow" where noise & airflow move in same direction (e.g. supply side)

- : "reverse flow" where noise & airflow move in opposite directions (e.g. return side)

See [Silencer Selection Instructions](#). DIL above 50dB may be limited due to noise flanking around the silencer or along the duct walls. If more than 50dB DIL is required, contact your local Vibro-Acoustics Representative or call **1-800-565-8401**.

Length (in.)	Face Velocity (ft. per min)	16Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1500	5	11	16	23	15	12	7	4
	0	3	6	11	16	12	10	8	6
	+ 1500	5	11	16	24	17	14	10	9
48	- 1500	6	12	17	26	15	12	7	4
	0	4	7	13	18	12	10	9	6
	+ 1500	6	11	17	25	17	14	10	9
60	- 1500	7	13	18	29	16	12	7	4
	0	4	7	14	20	12	11	9	7
	+ 1500	7	12	18	26	18	14	11	10
72	- 1500	9	14	19	31	16	12	7	4
	0	4	8	16	22	13	11	10	7
	+ 1500	8	13	20	27	18	15	11	10

### Pressure Drop (PD)

Pressure drops are reported in accordance with ASTM E477 methods and are based upon **ideal** flow conditions (5 diameters of straight duct on silencer inlet and 10 on outlet). Less than ideal conditions will result in an increase in pressure drop due to System Effects. See [Silencer System Effects Data](#).

Duct Connect. Size (in.)	B x B (in.)	Silencer Length (in.)	Weight (lbs)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
				750	1000	1250	1500	1750	2000	2500
16	24x24	36	101	0.02	0.03	0.05	0.07	0.09	0.12	0.15
		48	132	0.02	0.03	0.05	0.08	0.10	0.13	0.17
		60	164	0.02	0.04	0.06	0.08	0.11	0.15	0.19
		72	196	0.02	0.04	0.06	0.09	0.12	0.16	0.20

Acceptable (0 - 0.35")       Caution (>0.35") Pressure Drop may be too high for certain applications

### Generated Noise (GN)

@ 1.40 sq.ft. face area

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Generated Noise (dB re 10 <sup>-12</sup> watts)							
		63	125	250	500	1000	2000	4000	8000
All	-2000	64	68	74	65	71	72	71	63
	-1250	61	61	66	57	60	62	62	51
	+1250	67	71	63	52	57	59	57	49
	+2000	66	74	75	64	69	71	69	59