

Reference:

Client:

Project:

Consultant:

Location:

Contractor:

Date:

Submitted by:



Your Reliable HVAC Partner

**Model RF4A**

RF Series

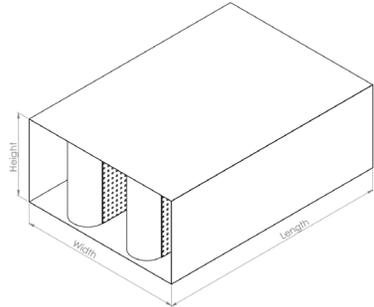
RECTANGULAR FIBROUS SILENCER

**Application:**

The RF series is designed for in-line duct mounting in a system where high frequency noise is required to be mitigated with a balanced broadband attenuation throughout the octave band. The splitters are radiused at both ends to minimize air pressure loss and regenerated noise

**Acoustic Infill:**

Standard Acoustic media used shall be inorganic, moisture and vermin resistant, non-hygroscopic and inert, long fibrous media packed with minimum 5% compression to eliminate voids and settling. Combustible rating for acoustic media shall have minimal flame and smoke spread rating of less than 10 and per NFPA90A, UL- 723, ASTM C24 and E84. For Fire rated construction, infill used shall be per requirements of Certifire CF761.



**Certified Performance Data:**

Length	Pressure Drop	Face Velocity	Dynamic Insertion Loss (dB)							
			Octave Band Center Frequency (Hz)							
(mm)	in. wg (Pa)	fpm (m/s)	63	125	250	500	1000	2000	4000	8000
24 610	0.92 (229)	-1500 (-7.62)	6	10	15	24	31	28	22	16
	0.42 (105)	-1000 (-5.1)	5	9	14	23	31	27	22	16
	0.00 (0)	0.00 (0)	6	7	13	22	29	27	22	17
	0.42 (105)	+1000 (+5.1)	6	7	12	21	27	25	20	16
	0.92 (229)	+1500 (+7.62)	8	7	12	21	27	25	22	17
48 1,219	1.15 (286)	-1750 (-8.89)	14	15	23	42	58	55	38	22
	0.48 (119)	-1000 (-5.1)	11	14	21	40	57	55	37	23
	0.00 (0)	0.00 (0)	10	12	19	38	55	53	37	25
	0.48 (119)	+1000 (+5.1)	10	10	18	36	54	53	38	27
	1.15 (286)	+1750 (+8.89)	9	9	18	34	51	51	39	27
72 1,829	1.71 (426)	-1750 (-8.89)	12	19	32	49	63	71	51	28
	0.52 (129)	-1000 (-5.1)	10	17	30	48	64	73	51	31
	0.00 (0)	0.00 (0)	9	14	25	48	64	74	51	34
	0.52 (129)	+1000 (+5.1)	8	13	23	46	65	72	52	37
	1.71 (426)	+1750 (+8.89)	7	13	22	47	66	69	52	39
96 2,438	1.89 (470)	-1750 (-8.89)	21	26	35	50	57	73	64	35
	0.55 (137)	-1000 (-5.1)	17	23	33	51	57	72	64	39
	0.00 (0)	0.00 (0)	13	20	30	49	55	72	62	42
	0.55 (137)	+1000 (+5.1)	13	18	29	49	56	70	64	44
	1.89 (470)	+1750 (+8.89)	12	18	28	49	56	67	64	48
120 3,048	0.94 (234)	-1250 (-6.35)	17	27	43	53	55	73	73	41
	0.63 (157)	-1000 (-5.1)	14	26	39	52	53	73	72	42
	0.00 (0)	0.00 (0)	14	22	36	49	52	74	68	43
	0.63 (157)	+1000 (+5.1)	13	19	32	48	50	72	69	46
	0.94 (234)	+1250 (+6.35)	12	18	31	45	48	70	67	48

Other Intermediate standard lengths are available with certified performance. Consult CVS representatives or CVS Silencer Selection Tool.

**Performance Notes:**

1. Performance data published is in accordance with ASTM E477
2. All tests have been conducted in NVLAP accredited laboratory.
3. "+" indicates forward flow, "-" indicates reverse flow.
4. Performance data is based on tests carried out on 24" x 24" silencer.

**Construction:**

Casing and Splitters are manufactured from standard sheet metal available in Galvanized Steel, Stainless Steel or Aluminium Casing formed with Pittsburgh lock formed seams with mastic sealant. The construction complies with SMACNA and DW 144 standards. Plain ends for duct connection as standard. The side baffles contain acoustic infill which complies with class O building regulations.

- Maximum Differential Pressure: 8 in. wg (1987 Pa)
- Outer casing: 22 gauge (0.85 mm) galvanized steel

**Options:**

- Galvanized Steel  16 gauge (1.61 mm) casing;
  - 18 gauge (1.31 mm) casing
  - 22 gauge (0.85 mm) perforated
- Stainless Steel  304  316
- Connection:  Standard Bare
  - S & Drive
  - Slip-On Flange
  - RSA (30x30, 40x40, 50x50)

Fill Protection: Mylar protection

Fire Rated Construction: Available in SAFE4 Fire Rated construction compliant with requirements of BS476:

Part 24 and third party certified under Certifire CF761.

**Flow Generated Noise (dB):**

Length	Face Velocity	Flow Generated Noise (dB)							
		Octave Band Center Frequency (Hz)							
(mm)	fpm (m/s)	63	125	250	500	1000	2000	4000	8000
All Lengths	-1750 (-8.89)	74	68	66	66	64	63	62	57
	-1000 (-5.1)	74	67	55	54	52	52	46	41
	+1000 (+5.1)	74	74	62	46	52	51	47	41
	+1750 (+8.89)	75	71	66	62	62	65	64	57

As part of our continuous improvement program, we reserve the right to make further improvements without notice.

Submittal

Reference:

Client:

Project:

Consultant:

Location:

Contractor:

Date:

Submitted by:



Your Reliable HVAC Partner

**Model RF4C**

RF Series

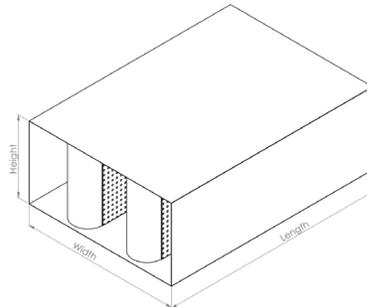
RECTANGULAR FIBROUS SILENCER

**Application:**

The RF series is designed for in-line duct mounting in a system where high frequency noise is required to be mitigated with a balances broadband attenuation throughout the octave band. The splitters are radiused at both ends to minimize air pressure loss and regenerated noise

**Acoustic Infill:**

Standard Acoustic media used shall be inorganic, moisture and vermin resistant, non-hygroscopic and inert, long fibrous media packed with minimum 5% compression to eliminate voids and settling. Combustible rating for acoustic media shall have minimal flame and smoke spread rating of less than 10 and per NFPA90A, UL- 723, ASTM C24 and E84. For Fire rated construction, infill used shall be per requirements of Certifire CF761.



**Certified Performance Data:**

Length (mm)	Pressure Drop in. wg (Pa)	Face Velocity fpm (m/s)	Dynamic Insertion Loss (dB)							
			Octave Band Center Frequency (Hz)							
			63	125	250	500	1000	2000	4000	8000
24 610	0.37 (92)	-2000 (-10.2)	6	6	10	16	23	20	16	12
	0.09 (22)	-1000 (-5.1)	5	6	9	15	23	20	16	13
	0.00 (0)	0.00 (0)	5	5	8	14	22	19	16	13
	0.09 (22)	+1000 (+5.1)	6	5	8	13	21	18	15	12
	0.37 (92)	+2000 (+10.2)	6	5	8	13	21	18	16	13
48 1,219	0.49 (122)	-2000 (-10.2)	9	9	16	26	40	36	26	18
	0.13 (32)	-1000 (-5.1)	8	9	14	24	40	36	26	20
	0.00 (0)	0.00 (0)	7	8	13	23	39	35	26	21
	0.13 (32)	+1000 (+5.1)	7	7	12	22	38	35	27	21
	0.49 (122)	+2000 (+10.2)	6	6	12	21	36	35	28	22
72 1,829	0.61 (152)	-2000 (-10.2)	8	12	21	36	54	51	34	21
	0.15 (37)	-1000 (-5.1)	7	11	19	33	54	51	34	22
	0.00 (0)	0.00 (0)	6	10	17	31	52	50	34	24
	0.15 (37)	+1000 (+5.1)	5	10	16	30	52	49	35	25
	0.61 (152)	+2000 (+10.2)	5	9	15	29	52	49	36	26
96 2,438	0.68 (169)	-2000 (-10.2)	11	16	25	43	55	56	43	25
	0.17 (42)	-1000 (-5.1)	10	15	23	42	54	55	43	27
	0.00 (0)	0.00 (0)	9	14	20	39	54	54	42	29
	0.17 (42)	+1000 (+5.1)	9	13	20	37	55	55	43	30
	0.68 (169)	+2000 (+10.2)	8	12	19	37	55	55	43	32
120 3,048	0.75 (187)	-2000 (-10.2)	11	18	30	49	55	56	46	27
	0.20 (50)	-1000 (-5.1)	9	16	26	49	54	56	45	27
	0.00 (0)	0.00 (0)	9	15	24	46	53	56	44	29
	0.20 (50)	+1000 (+5.1)	8	14	23	45	54	56	45	30
	0.75 (187)	+2000 (+10.2)	7	12	22	45	54	56	45	32

Other Intermediate standard lengths are available with certified performance. Consult CVS representatives or CVS Silencer Selection Tool.

**Performance Notes:**

1. Performance data published is in accordance with ASTM E477
2. All tests have been conducted in NVLAP accredited laboratory.
3. "+" indicates forward flow, "-" indicates reverse flow.
4. Performance data is based on tests carried out on 24" x 24" silencer.

As part of our continuous improvement program, we reserve the right to make further improvements without notice.

**Construction:**

Casing and Splitters are manufactured from standard sheet metal available in Galvanized Steel, Stainless Steel or Aluminium Casing formed with Pittsburgh lock formed seams with mastic sealant. The construction complies with SMACNA and DW 144 standards. Plain ends for duct connection as standard. The side baffles contain acoustic infill which complies with class O building regulations.

- Maximum Differential Pressure: 8 in. wg (1987 Pa)
- Outer casing: 22 gauge (0.85 mm) galvanized steel

**Options:**

- Galvanized Steel  16 gauge (1.61 mm) casing;
  - 18 gauge (1.31 mm) casing
  - 22 gauge (0.85 mm) perforated
- Stainless Steel  304  316
- Connection:  Standard Bare
  - S & Drive
  - Slip-On Flange
  - RSA (30x30, 40x40, 50x50)

Fill Protection: Mylar protection

Fire Rated Construction: Available in SAFE4 Fire Rated construction compliant with requirements of BS476:

Part 24 and third party certified under Certifire CF761.

**Flow Generated Noise (dB):**

Length (mm)	Face Velocity fpm (m/s)	Flow Generated Noise (dB)							
		Octave Band Center Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
All Lengths	-2000 (-10.2)	73	65	61	59	57	60	56	48
	-1000 (-5.1)	69	64	49	45	46	40	33	25
	+1000 (+5.1)	69	64	47	43	44	38	31	23
	+2000 (+10.2)	72	65	59	54	55	58	54	47

Submittal

Reference:

Client:

Project:

Consultant:

Location:

Contractor:

Date:

Submitted by:



Your Reliable HVAC Partner

**Model RF6E**

**RF Series**

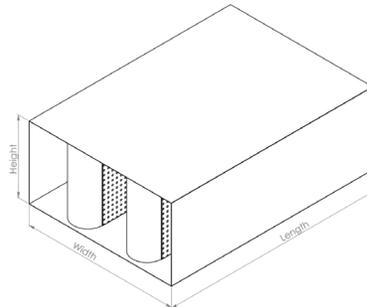
**RECTANGULAR FIBROUS SILENCER**

**Application:**

The RF series is designed for in-line duct mounting in a system where high frequency noise is required to be mitigated with a balances broadband attenuation throughout the octave band. The splitters are radiused at both ends to minimize air pressure loss and regenerated noise

**Acoustic Infill:**

Standard Acoustic media used shall be inorganic, moisture and vermin resistant, non-hygroscopic and inert, long fibrous media packed with minimum 5% compression to eliminate voids and settling. Combustible rating for acoustic media shall have minimal flame and smoke spread rating of less than 10 and per NFPA90A, UL- 723, ASTM C24 and E84. For Fire rated construction, infill used shall be per requirements of Certifire CF761.



**Certified Performance Data:**

Length (mm)	Pressure Drop in. wg (Pa)	Face Velocity fpm (m/s)	Dynamic Insertion Loss (dB)							
			Octave Band Center Frequency (Hz)							
			63	125	250	500	1000	2000	4000	8000
24 610	0.39 (97)	-2000 (-10.2)	7	6	11	16	20	17	14	11
	0.09 (22)	-1000 (-5.1)	7	6	10	15	20	17	14	12
	0.00 (0)	0.00 (0)	6	6	9	14	19	16	14	12
	0.09 (22)	+1000 (+5.1)	6	6	9	13	18	16	14	12
	0.39 (97)	+2000 (+10.2)	6	5	9	12	18	16	14	12
48 1,219	0.49 (122)	-2000 (-10.2)	9	10	18	26	35	29	22	17
	0.12 (30)	-1000 (-5.1)	9	10	16	24	35	29	22	18
	0.00 (0)	0.00 (0)	8	9	15	23	34	28	22	19
	0.12 (30)	+1000 (+5.1)	7	8	14	22	33	28	23	19
	0.49 (122)	+2000 (+10.2)	6	7	13	21	32	29	23	20
72 1,829	0.58 (144)	-2000 (-10.2)	9	13	23	37	48	41	27	18
	0.15 (37)	-1000 (-5.1)	8	12	21	34	48	40	27	19
	0.00 (0)	0.00 (0)	7	12	20	32	46	39	27	20
	0.15 (37)	+1000 (+5.1)	6	11	19	31	46	39	28	21
	0.58 (144)	+2000 (+10.2)	6	10	18	30	45	40	29	22
96 2,438	0.68 (169)	-2000 (-10.2)	12	16	28	45	54	47	34	21
	0.17 (42)	-1000 (-5.1)	11	16	26	43	53	46	34	23
	0.00 (0)	0.00 (0)	10	14	23	41	53	45	33	24
	0.17 (42)	+1000 (+5.1)	10	14	23	39	53	46	34	25
	0.68 (169)	+2000 (+10.2)	9	12	21	38	53	47	35	26
120 3,048	0.76 (189)	-2000 (-10.2)	12	19	32	50	56	48	36	22
	0.20 (50)	-1000 (-5.1)	12	17	29	50	55	48	35	22
	0.00 (0)	0.00 (0)	11	16	27	47	54	47	34	24
	0.20 (50)	+1000 (+5.1)	9	15	26	46	55	47	35	24
	0.76 (189)	+2000 (+10.2)	9	14	25	47	55	48	36	26

Other Intermediate standard lengths are available with certified performance. Consult CVS representatives or CVS Silencer Selection Tool.

**Performance Notes:**

1. Performance data published is in accordance with ASTM E477
2. All tests have been conducted in NVLAP accredited laboratory.
3. "+" indicates forward flow, "-" indicates reverse flow.
4. Performance data is based on tests carried out on 24" x 24" silencer.

As part of our continuous improvement program, we reserve the right to make further improvements without notice.

**Construction:**

Casing and Splitters are manufactured from standard sheet metal available in Galvanized Steel, Stainless Steel or Aluminium Casing formed with Pittsburgh lock formed seams with mastic sealant. The construction complies with SMACNA and DW 144 standards. Plain ends for duct connection as standard. The side baffles contain acoustic infill which complies with class O building regulations.

- Maximum Differential Pressure: 8 in. wg (1987 Pa)
- Outer casing: 22 gauge (0.85 mm) galvanized steel

**Options:**

- Galvanized Steel  16 gauge (1.61 mm) casing;
  - 18 gauge (1.31 mm) casing
  - 22 gauge (0.85 mm) perforated
- Stainless Steel  304  316
- Connection:  Standard Bare
  - S & Drive
  - Slip-On Flange
  - RSA (30x30, 40x40, 50x50)

Fill Protection: Mylar protection

Fire Rated Construction: Available in SAFE4 Fire Rated construction compliant with requirements of BS476:

Part 24 and third party certified under Certifire CF761.

**Flow Generated Noise (dB):**

Length (mm)	Face Velocity fpm (m/s)	Flow Generated Noise (dB)							
		Octave Band Center Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
All Lengths	-2000 (-10.2)	73	66	60	59	57	59	56	48
	-1000 (-5.1)	67	58	49	44	45	38	31	22
	+1000 (+5.1)	62	53	41	44	43	37	29	21
	+2000 (+10.2)	72	65	59	54	55	57	54	47

Submittal

Reference:

Client:

Project:

Consultant:

Location:

Contractor:

Date:

Submitted by:



Your Reliable HVAC Partner

Model RF8C

RF Series

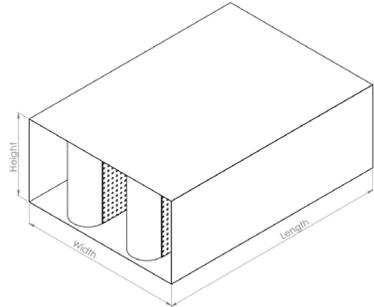
RECTANGULAR FIBROUS SILENCER

Application:

The RF series is designed for in-line duct mounting in a system where high frequency noise is required to be mitigated with a balances broadband attenuation throughout the octave band. The splitters are radiused at both ends to minimize air pressure loss and regenerated noise

Acoustic Infill:

Standard Acoustic media used shall be inorganic, moisture and vermin resistant, non-hygroscopic and inert, long fibrous media packed with minimum 5% compression to eliminate voids and settling. Combustible rating for acoustic media shall have minimal flame and smoke spread rating of less than 10 and per NFPA90A, UL- 723, ASTM C24 and E84. For Fire rated construction, infill used shall be per requirements of Certifire CF761.



Certified Performance Data:

Table with columns: Length, Pressure Drop, Face Velocity, Dynamic Insertion Loss (dB). Rows include lengths 24, 48, 72, 96, 120 with various pressure drop and velocity values.

Other Intermediate standard lengths are available with certified performance. Consult CVS representatives or CVS Silencer Selection Tool.

Performance Notes:

- 1. Performance data published is in accordance with ASTM E477
2. All tests have been conducted in NVLAP accredited laboratory.
3. "+" indicates forward flow, "-" indicates reverse flow.
4. Performance data is based on tests carried out on 24" x 24" silencer.

As part of our continuous improvement program, we reserve the right to make further improvements without notice.

Construction:

Casing and Splitters are manufactured from standard sheet metal available in Galvanized Steel, Stainless Steel or Aluminium Casing formed with Pittsburgh lock formed seams with mastic sealant. The construction complies with SMACNA and DW 144 standards. Plain ends for duct connection as standard. The side baffles contain acoustic infill which complies with class O building regulations.

- Maximum Differential Pressure: 8 in. wg (1987 Pa)
• Outer casing: 22 gauge (0.85 mm) galvanized steel

Options:

- Galvanized Steel [ ] 16 gauge (1.61 mm) casing; [ ] 18 gauge (1.31 mm) casing; [ ] 22 gauge (0.85 mm) perforated
• Stainless Steel [ ] 304 [ ] 316
• Connection: [ ] Standard Bare; [ ] S & Drive; [ ] Slip-On Flange; [ ] RSA (30x30, 40x40, 50x50)

Fill Protection: Mylar protection

Fire Rated Construction: Available in SAFE4 Fire Rated construction compliant with requirements of BS476:

Part 24 and third party certified under Certifire CF761.

Flow Generated Noise (dB):

Table with columns: Length, Face Velocity, Flow Generated Noise (dB). Rows include All Lengths with noise values for various face velocities.

Submittal

Reference:

Client:

Project:

Consultant:

Location:

Contractor:

Date:

Submitted by:



Your Reliable HVAC Partner

**Model RF8G**

RF Series

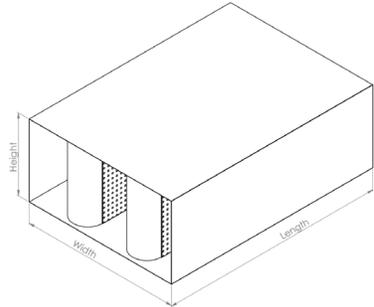
RECTANGULAR FIBROUS SILENCER

**Application:**

The RF series is designed for in-line duct mounting in a system where high frequency noise is required to be mitigated with a balanced broadband attenuation throughout the octave band. The splitters are radiused at both ends to minimize air pressure loss and regenerated noise

**Acoustic Infill:**

Standard Acoustic media used shall be inorganic, moisture and vermin resistant, non-hygroscopic and inert, long fibrous media packed with minimum 5% compression to eliminate voids and settling. Combustible rating for acoustic media shall have minimal flame and smoke spread rating of less than 10 and per NFPA90A, UL- 723, ASTM C24 and E84. For Fire rated construction, infill used shall be per requirements of Certifire CF761.



**Certified Performance Data:**

Length (mm)	Pressure Drop in. wg (Pa)	Face Velocity fpm (m/s)	Dynamic Insertion Loss (dB)							
			Octave Band Center Frequency (Hz)							
			63	125	250	500	1000	2000	4000	8000
24 610	0.41 (102)	-2000 (-10.2)	8	6	12	15	16	14	12	10
	0.10 (25)	-1000 (-5.1)	8	6	11	14	16	14	12	11
	0.00 (0)	0.00 (0)	6	6	10	13	15	13	12	11
	0.10 (25)	+1000 (+5.1)	6	6	10	12	15	13	12	11
	0.41 (102)	+2000 (+10.2)	5	5	9	11	15	13	12	11
48 1,219	0.49 (122)	-2000 (-10.2)	9	10	19	26	30	22	17	15
	0.11 (27)	-1000 (-5.1)	9	10	17	24	29	21	17	16
	0.00 (0)	0.00 (0)	8	9	16	23	28	21	17	16
	0.11 (27)	+1000 (+5.1)	7	9	15	22	27	21	18	16
	0.49 (122)	+2000 (+10.2)	6	8	14	21	27	22	18	17
72 1,829	0.56 (139)	-2000 (-10.2)	10	14	25	37	42	30	20	15
	0.14 (35)	-1000 (-5.1)	9	13	23	35	41	29	20	15
	0.00 (0)	0.00 (0)	8	13	22	33	39	28	20	16
	0.14 (35)	+1000 (+5.1)	7	12	21	32	39	28	21	16
	0.56 (139)	+2000 (+10.2)	6	10	20	30	38	30	22	17
96 2,438	0.68 (169)	-2000 (-10.2)	12	16	30	46	53	38	24	17
	0.17 (42)	-1000 (-5.1)	12	16	28	44	52	37	24	18
	0.00 (0)	0.00 (0)	11	14	26	42	52	36	24	18
	0.17 (42)	+1000 (+5.1)	10	14	25	40	51	37	24	19
	0.68 (169)	+2000 (+10.2)	9	12	23	39	50	38	26	20
120 3,048	0.77 (192)	-2000 (-10.2)	13	19	34	51	56	40	26	17
	0.19 (47)	-1000 (-5.1)	14	18	32	50	55	39	24	17
	0.00 (0)	0.00 (0)	12	17	30	48	54	38	24	18
	0.19 (47)	+1000 (+5.1)	10	16	29	47	55	38	25	18
	0.77 (192)	+2000 (+10.2)	10	15	28	46	56	39	26	19

Other Intermediate standard lengths are available with certified performance. Consult CVS representatives or CVS Silencer Selection Tool.

**Performance Notes:**

1. Performance data published is in accordance with ASTM E477
2. All tests have been conducted in NVLAP accredited laboratory.
3. "+" indicates forward flow, "-" indicates reverse flow.
4. Performance data is based on tests carried out on 24" x 24" silencer.

As part of our continuous improvement program, we reserve the right to make further improvements without notice.

**Construction:**

Casing and Splitters are manufactured from standard sheet metal available in Galvanized Steel, Stainless Steel or Aluminium Casing formed with Pittsburgh lock formed seams with mastic sealant. The construction complies with SMACNA and DW 144 standards. Plain ends for duct connection as standard. The side baffles contain acoustic infill which complies with class O building regulations.

- Maximum Differential Pressure: 8 in. wg (1987 Pa)
- Outer casing: 22 gauge (0.85 mm) galvanized steel

**Options:**

- Galvanized Steel  16 gauge (1.61 mm) casing:
  - 18 gauge (1.31 mm) casing
  - 22 gauge (0.85 mm) perforated
- Stainless Steel  304  316
- Connection:  Standard Bare
  - S & Drive
  - Slip-On Flange
  - RSA (30x30, 40x40, 50x50)

Fill Protection: Mylar protection

Fire Rated Construction: Available in SAFE4 Fire Rated construction compliant with requirements of BS476:

Part 24 and third party certified under Certifire CF761.

**Flow Generated Noise (dB):**

Length (mm)	Face Velocity fpm (m/s)	Flow Generated Noise (dB)							
		Octave Band Center Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
All Lengths	-2000 (-10.2)	72	66	59	59	56	58	55	47
	-1000 (-5.1)	65	52	48	43	43	36	28	19
	+1000 (+5.1)	54	41	35	44	41	35	26	19
	+2000 (+10.2)	72	65	58	53	54	56	53	47

Submittal

Reference:

Client:

Project:

Consultant:

Location:

Contractor:

Date:

Submitted by:



Your Reliable HVAC Partner

Model RF10D

RF Series

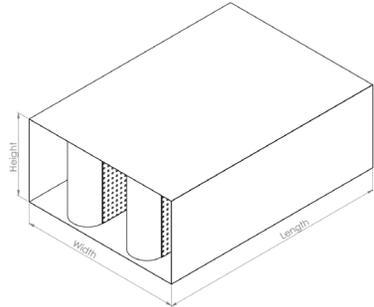
RECTANGULAR FIBROUS SILENCER

Application:

The RF series is designed for in-line duct mounting in a system where high frequency noise is required to be mitigated with a balances broadband attenuation throughout the octave band. The splitters are radiused at both ends to minimize air pressure loss and regenerated noise

Acoustic Infill:

Standard Acoustic media used shall be inorganic, moisture and vermin resistant, non-hygroscopic and inert, long fibrous media packed with minimum 5% compression to eliminate voids and settling. Combustible rating for acoustic media shall have minimal flame and smoke spread rating of less than 10 and per NFPA90A, UL- 723, ASTM C24 and E84. For Fire rated construction, infill used shall be per requirements of Certifire CF761.



Certified Performance Data:

Table with columns: Length, Pressure Drop, Face Velocity, and Dynamic Insertion Loss (dB) across various octave band center frequencies (63, 125, 250, 500, 1000, 2000, 4000, 8000 Hz).

Other Intermediate standard lengths are available with certified performance. Consult CVS representatives or CVS Silencer Selection Tool.

Performance Notes:

- 1. Performance data published is in accordance with ASTM E477
2. All tests have been conducted in NVLAP accredited laboratory.
3. "+" indicates forward flow, "-" indicates reverse flow.
4. Performance data is based on tests carried out on 24" x 24" silencer.

As part of our continuous improvement program, we reserve the right to make further improvements without notice.

Construction:

Casing and Splitters are manufactured from standard sheet metal available in Galvanized Steel, Stainless Steel or Aluminium Casing formed with Pittsburgh lock formed seams with mastic sealant. The construction complies with SMACNA and DW 144 standards. Plain ends for duct connection as standard. The side baffles contain acoustic infill which complies with class O building regulations.

- Maximum Differential Pressure: 8 in. wg (1987 Pa)
• Outer casing: 22 gauge (0.85 mm) galvanized steel

Options:

- Galvanized Steel □ 16 gauge (1.61 mm) casing:
□ 18 gauge (1.31 mm) casing
□ 22 gauge (0.85 mm) perforated
• Stainless Steel □ 304 □ 316
• Connection: □ Standard Bare
□ S & Drive
□ Slip-On Flange
□ RSA (30x30, 40x40, 50x50)

Fill Protection: Mylar protection

Fire Rated Construction: Available in SAFE4 Fire Rated construction compliant with requirements of BS476:

Part 24 and third party certified under Certifire CF761.

Flow Generated Noise (dB):

Table with columns: Length, Face Velocity, and Flow Generated Noise (dB) across various octave band center frequencies (63, 125, 250, 500, 1000, 2000, 4000, 8000 Hz).

Submittal

Reference:

Client:

Project:

Consultant:

Location:

Contractor:

Date:

Submitted by:



Your Reliable HVAC Partner

Model RF101

RF Series

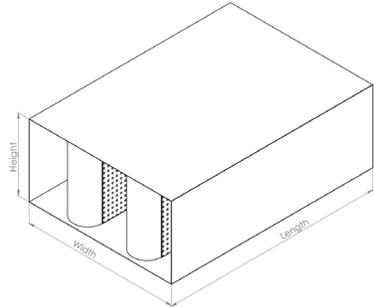
RECTANGULAR FIBROUS SILENCER

Application:

The RF series is designed for in-line duct mounting in a system where high frequency noise is required to be mitigated with a balances broadband attenuation throughout the octave band. The splitters are radiused at both ends to minimize air pressure loss and regenerated noise

Acoustic Infill:

Standard Acoustic media used shall be inorganic, moisture and vermin resistant, non-hygroscopic and inert, long fibrous media packed with minimum 5% compression to eliminate voids and settling. Combustible rating for acoustic media shall have minimal flame and smoke spread rating of less than 10 and per NFPA90A, UL- 723, ASTM C24 and E84. For Fire rated construction, infill used shall be per requirements of Certifire CF761.



Certified Performance Data:

Table with columns: Length, Pressure Drop, Face Velocity, Dynamic Insertion Loss (dB) across various octave band center frequencies (63, 125, 250, 500, 1000, 2000, 4000, 8000 Hz).

Other Intermediate standard lengths are available with certified performance. Consult CVS representatives or CVS Silencer Selection Tool.

Performance Notes:

- 1. Performance data published is in accordance with ASTM E477
2. All tests have been conducted in NVLAP accredited laboratory.
3. "+" indicates forward flow, "-" indicates reverse flow.
4. Performance data is based on tests carried out on 24" x 24" silencer.

As part of our continuous improvement program, we reserve the right to make further improvements without notice.

Construction:

Casing and Splitters are manufactured from standard sheet metal available in Galvanized Steel, Stainless Steel or Aluminium Casing formed with Pittsburgh lock formed seams with mastic sealant. The construction complies with SMACNA and DW 144 standards. Plain ends for duct connection as standard. The side baffles contain acoustic infill which complies with class O building regulations.

- Maximum Differential Pressure: 8 in. wg (1987 Pa)
• Outer casing: 22 gauge (0.85 mm) galvanized steel

Options:

- Galvanized Steel [ ] 16 gauge (1.61 mm) casing; [ ] 18 gauge (1.31 mm) casing; [ ] 22 gauge (0.85 mm) perforated
• Stainless Steel [ ] 304 [ ] 316
• Connection: [ ] Standard Bare; [ ] S & Drive; [ ] Slip-On Flange; [ ] RSA (30x30, 40x40, 50x50)

Fill Protection: Mylar protection

Fire Rated Construction: Available in SAFE4 Fire Rated construction compliant with requirements of BS476:

Part 24 and third party certified under Certifire CF761.

Flow Generated Noise (dB):

Table showing Flow Generated Noise (dB) across various face velocities and octave band center frequencies.

Submittal

Reference:

Client:

Project:

Consultant:

Location:

Contractor:

Date:

Submitted by:



Your Reliable HVAC Partner

**Model RF12K**

RF Series

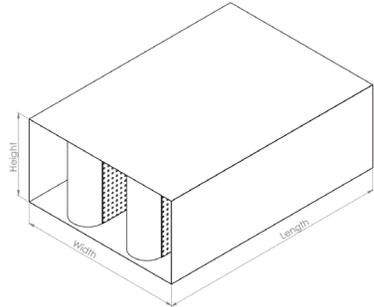
RECTANGULAR FIBROUS SILENCER

**Application:**

The RF series is designed for in-line duct mounting in a system where high frequency noise is required to be mitigated with a balances broadband attenuation throughout the octave band. The splitters are radiused at both ends to minimize air pressure loss and regenerated noise

**Acoustic Infill:**

Standard Acoustic media used shall be inorganic, moisture and vermin resistant, non-hygroscopic and inert, long fibrous media packed with minimum 5% compression to eliminate voids and settling. Combustible rating for acoustic media shall have minimal flame and smoke spread rating of less than 10 and per NFPA90A, UL- 723, ASTM C24 and E84. For Fire rated construction, infill used shall be per requirements of Certifire CF761.



**Certified Performance Data:**

Length	Pressure Drop	Face Velocity	Dynamic Insertion Loss (dB)							
			Octave Band Center Frequency (Hz)							
			63	125	250	500	1000	2000	4000	8000
24 610	0.46 (114)	-2000 (-10.2)	10	8	11	10	10	8	9	8
	0.12 (30)	-1000 (-5.1)	8	8	10	10	9	8	9	8
	0.00 (0)	0.00 (0)	8	7	9	9	9	8	9	8
	0.12 (30)	+1000 (+5.1)	6	7	9	9	9	8	9	8
	0.46 (14)	+2000 (+10.2)	6	7	9	9	9	8	9	8
48 1,219	0.44 (109)	-2000 (-10.2)	12	13	18	19	18	13	12	11
	0.10 (25)	-1000 (-5.1)	11	13	18	18	17	13	12	11
	0.00 (0)	0.00 (0)	11	13	16	17	17	13	12	12
	0.10 (25)	+1000 (+5.1)	10	12	16	17	16	13	13	12
	0.44 (109)	+2000 (+10.2)	9	11	15	16	17	13	13	12
72 1,829	0.50 (124)	-2000 (-10.2)	12	16	26	28	25	17	14	11
	0.12 (30)	-1000 (-5.1)	11	16	24	27	24	16	14	12
	0.00 (0)	0.00 (0)	10	16	23	25	23	16	14	13
	0.12 (30)	+1000 (+5.1)	9	15	22	24	22	16	15	13
	0.50 (124)	+2000 (+10.2)	9	14	21	24	23	17	15	13
96 2,438	0.52 (130)	-2000 (-10.2)	17	22	32	36	33	21	17	16
	0.13 (32)	-1000 (-5.1)	18	20	32	35	31	21	17	16
	0.00 (0)	0.00 (0)	15	21	29	32	30	20	17	17
	0.13 (32)	+1000 (+5.1)	15	20	30	33	29	21	18	17
	0.52 (130)	+2000 (+10.2)	13	18	28	31	31	21	19	18
120 3,048	0.56 (141)	-2000 (-10.2)	21	28	38	44	41	25	19	20
	0.14 (35)	-1000 (-5.1)	22	24	40	43	37	25	19	20
	0.00 (0)	0.00 (0)	19	27	35	38	38	24	19	21
	0.14 (35)	+1000 (+5.1)	19	26	38	41	35	25	22	21
	0.56 (141)	+2000 (+10.2)	15	22	34	37	39	25	23	22

Other Intermediate standard lengths are available with certified performance. Consult CVS representatives or CVS Silencer Selection Tool.

**Performance Notes:**

1. Performance data published is in accordance with ASTM E477
2. All tests have been conducted in NVLAP accredited laboratory.
3. "+" indicates forward flow, "-" indicates reverse flow.
4. Performance data is based on tests carried out on 24" x 24" silencer.

As part of our continuous improvement program, we reserve the right to make further improvements without notice.

**Construction:**

Casing and Splitters are manufactured from standard sheet metal available in Galvanized Steel, Stainless Steel or Aluminium Casing formed with Pittsburgh lock formed seams with mastic sealant. The construction complies with SMACNA and DW 144 standards. Plain ends for duct connection as standard. The side baffles contain acoustic infill which complies with class O building regulations.

- Maximum Differential Pressure: 8 in. wg (1987 Pa)
- Outer casing: 22 gauge (0.85 mm) galvanized steel

**Options:**

- Galvanized Steel  16 gauge (1.61 mm) casing:
  - 18 gauge (1.31 mm) casing
  - 22 gauge (0.85 mm) perforated
- Stainless Steel  304  316
- Connection:  Standard Bare
  - S & Drive
  - Slip-On Flange
  - RSA (30x30, 40x40, 50x50)

Fill Protection: Mylar protection

Fire Rated Construction: Available in SAFE4 Fire Rated construction compliant with requirements of BS476:

Part 24 and third party certified under Certifire CF761.

**Flow Generated Noise (dB):**

Length	Face Velocity	Flow Generated Noise (dB)							
		Octave Band Center Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
All Lengths	-2000 (-10.2)	88	86	59	59	52	54	50	43
	-1000 (-5.1)	53	51	44	40	41	36	25	21
	+1000 (+5.1)	43	60	47	44	41	35	32	23
	+2000 (+10.2)	73	68	60	53	52	56	52	46

Submittal