

消 音 箱

ACOUSTIC SILENCERS



NOISE ASSESSMENT & CONTROL

『環境聲學 · 噪音防治』

消音箱性能依照 **ASTM E477** 標準測試,可提供獨立認證實驗室測試報告.

Silencer performance in accordance with ASTM E477 standard test, providing independent certification laboratory test reports.

適用於各種通風設備、發電機、冷卻水塔、鼓風機.

For a variety of ventilation equipment, generators, cooling towers, blowers .

『ACOUSTIC SILENCERS 消音箱』

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一

Description

1. 流線形狀設計 具有高消音量與低壓損特性。

Streamline shape design with a high volume and low pressure loss characteristics of consumers.

2. 消音箱性能依照 **ASTM E477** 標準測試,可提供獨立認證實驗室測試報告。

Silencer performance in accordance with ASTM E477 standard test, providing independent certification laboratory test reports

3. 填充材符合 ASTM-E84 測驗，其結果為下列數值：

Fill material in line with ASTM-E84 test results the following values:

火焰擴散分類 10 煙發散等級 20

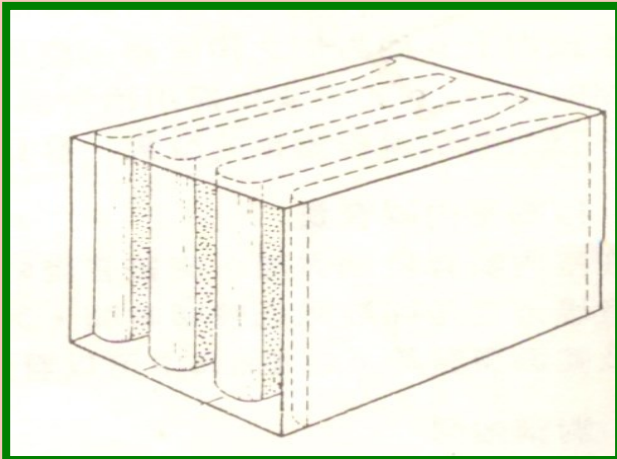
Flame spread 10 smoke divergence 20

4. 消音箱-加熱測試，在 280°C 高溫爐中放置 2 小時測試報告。

Silencer - heating test, high temperature oven at 280 °C for 2 hours in the test report.

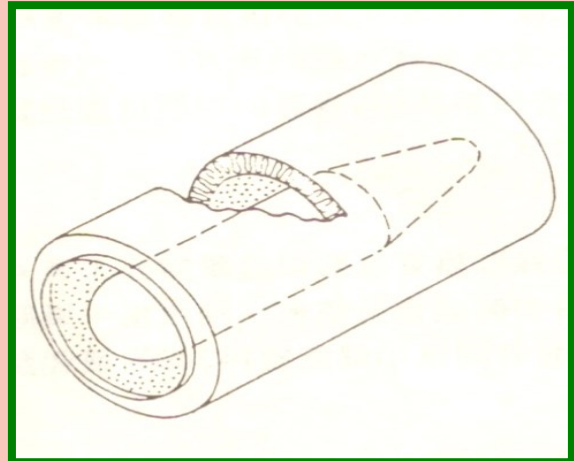
二

Pattern



方形消音箱

Square silencer



圓型消音箱

Circular silencer



三

main purpos

- ◎ 用於需要通風換氣並低噪音的場所
Need for ventilation and a place with low noise
- ◎ 應用於通風設備、發電機、冷卻水塔、鼓風機。
Used ventilation equipment, generators, cooling towers, blowers
- ◎ 應用於機房、KTV 歌唱間、錄音室
Used in the engine room, KTV singing room, recording studio

四

壓損表

方型消音箱壓損表

		風道 Wmm						
		75	100	125	150	200	250	300
消音板 Wmm	200	4.0	3.0	2.0		1.04		
	250	4.0		3.0	2.0		1.04	
	300		4.0		3.0	2.0		1.04

K 為上表之係數, V 為表面風速洽 (M/S), 壓損 (Pa) = KV²

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Schematic Sound attenuator DUCT-S200

Static Insertion Loss (dB)

200mm Silencer board		63	125	250	500	1K	2K	4K	8K
Duct width 75mm	600	4	9	19	31	38	37	33	25
	900	7	12	24	35	44	43	37	39
	1200	8	14	33	45	50	50	47	37
	1500	9	18	40	49	50	50	50	42
	1800	11	19	45	50	50	50	50	48
	2100	14	25	50	50	50	50	50	50
	2400	16	29	50	50	50	50	50	50
	2700	14	34	50	50	50	50	50	50
	3000	18	38	50	50	50	50	50	50
Duct width 100mm	600	3	6	13	22	29	28	22	16
	900	6	10	20	25	32	31	24	18
	1200	7	12	23	33	39	37	29	23
	1500	8	14	27	38	45	44	32	25
	1800	9	16	32	45	50	50	38	29
	2100	10	17	34	43	50	50	38	32
	2400	11	20	38	47	50	50	43	33
	2700	12	23	40	50	50	50	46	34
	3000	13	26	45	50	50	50	50	38
Duct width 125mm	600	3	5	11	19	26	23	17	14
	900	5	8	14	23	28	26	21	16
	1200	6	10	18	30	35	33	24	20
	1500	7	12	22	35	41	37	27	21
	1800	8	14	26	40	46	41	30	25
	2100	9	15	29	41	47	44	34	26
	2400	10	17	31	42	48	46	35	27
	2700	11	19	34	46	50	50	39	31
	3000	12	20	37	50	50	50	44	34
Duct width 200mm	600	2	5	7	12	15	13	11	10
	900	4	5	10	15	19	16	12	12
	1200	4	6	14	24	28	22	16	13
	1500	5	8	16	27	32	24	17	14
	1800	6	10	19	33	38	28	19	16
	2100	6	11	22	37	44	28	19	16
	2400	7	12	24	40	47	29	20	17
	2700	7	14	28	46	50	31	22	18
	3000	8	15	30	48	50	32	23	18



Schematic Sound attenuator DUCT-S250

Static Insertion Loss (dB)

250mm Silencer board		63	125	250	500	1K	2K	4K	8K
Duct width 75mm	600	5	10	20	29	35	33	27	20
	900	7	12	25	33	40	38	31	23
	1200	10	16	35	42	50	46	39	31
	1500	11	19	42	46	50	49	40	34
	1800	12	21	50	50	50	50	47	39
	2100	15	27	50	50	50	50	50	43
	2400	17	32	50	50	50	50	50	47
	2700	19	37	50	50	50	50	50	50
	3000	20	41	50	50	50	50	50	50
Duct width 125mm	600	4	6	13	21	27	25	18	13
	900	6	9	16	24	30	28	20	15
	1200	7	12	23	31	37	33	24	19
	1500	8	14	28	36	42	38	27	21
	1800	9	15	33	42	48	43	31	24
	2100	11	19	35	43	49	45	32	26
	2400	12	22	39	47	50	49	36	28
	2700	13	25	41	50	50	50	39	29
	3000	14	29	47	50	50	50	41	32
風道寬 150mm	600	3	5	11	18	24	20	15	11
	900	5	8	14	21	26	23	17	13
	1200	6	11	19	28	32	29	20	16
	1500	7	13	23	33	37	33	22	17
	1800	8	15	27	37	42	37	25	20
	2100	10	17	30	38	43	39	28	21
	2400	10	19	32	39	44	41	29	22
	2700	11	21	35	43	48	45	32	25
	3000	12	23	39	47	50	49	36	27
Duct width 250mm	600	2	5	7	11	13	11	9	8
	900	4	7	13	14	17	14	10	9
	1200	5	8	15	22	25	19	13	10
	1500	6	11	17	25	29	21	14	11
	1800	7	12	20	30	34	25	16	13
	2100	9	13	24	34	39	25	16	13
	2400	9	14	25	37	42	26	17	14
	2700	10	16	29	42	48	28	18	15
	3000	11	18	32	49	50	29	19	15



Schematic Sound attenuator DUCT-S300

Static Insertion Loss (dB)

300mm Silencer board		63	125	250	500	1K	2K	4K	8K
Duct width 75mm	600	7	12	22	27	32	29	21	15
	900	10	15	28	31	36	33	25	17
	1200	12	20	39	39	40	40	31	23
	1500	13	22	46	43	43	43	33	26
	1800	15	25	50	46	45	44	38	30
	2100	18	32	50	50	48	46	40	33
	2400	20	38	50	50	50	47	42	36
	2700	23	44	50	50	50	49	44	39
	3000	24	48	50	50	50	50	45	41
Duct width 150mm	600	6	7	14	20	25	22	14	10
	900	8	13	18	23	28	25	16	12
	1200	9	16	25	29	35	29	19	15
	1500	11	18	31	34	39	32	22	17
	1800	12	21	36	39	43	36	24	19
	2100	14	24	38	43	46	40	26	20
	2400	15	27	42	47	46	44	29	23
	2700	17	30	46	49	48	45	32	24
	3000	18	35	50	50	50	48	33	26
Duct width 200mm	600	4	6	12	17	22	17	11	8
	900	7	11	15	19	24	20	13	10
	1200	8	14	21	26	29	25	16	12
	1500	9	16	25	31	33	29	17	13
	1800	10	18	30	34	38	33	20	15
	2100	11	21	33	35	39	34	22	16
	2400	12	23	35	36	40	36	23	17
	2700	13	25	38	40	42	39	25	19
	3000	14	28	43	43	44	42	28	20
Duct width 300mm	600	3	6	8	10	11	9	7	6
	900	5	9	11	13	15	12	8	6
	1200	6	10	17	20	22	13	10	7
	1500	6	11	19	23	26	18	11	8
	1800	8	14	22	27	30	22	12	10
	2100	10	17	25	31	34	22	13	10
	2400	10	18	27	34	37	23	14	11
	2700	11	21	32	39	42	25	14	12
	3000	12	22	35	42	44	26	15	12