

## Pacific HVAC Engineering attenuators



### Pacific HVAC Engineering Attenuators

Pacific HVAC Engineering Attenuators offer high performance noise reduction in ducted ventilation systems at competitive prices.

#### Construction

Attenuators and pods (where fitted) are rigidly constructed from galvanised steel, internally lined with sound absorbing material not less than 100mm thick, retained by galvanised steel perforated sheet.

Attenuator end faces have nutserts fitted to match the flange details of the associated fan.

Attenuator 'sound' absorbing material is chemically inert, non combustible, non hygroscopic and vermin resistant.

#### Testing

The performance of Pacific HVAC Engineering Attenuators has been determined by testing in accordance with BS4718:1971

#### Ranges Available

- Circular Un-podded
- Circular Podded
- Rectangular Straight
- Rectangular Tapered

#### **Suggested Specification**

*Attenuators shall be designed and supplied by Pacific HVAC Engineering Pty Ltd.*

*Attenuators and pods (where fitted) shall be rigidly constructed from galvanised steel, all Circular attenuators to be made with a thickness of at least 100mm of sound absorbent insulation. The lining material for the centre of the silencer to be made from perforated sheet with an open area of > 11%. If silencer to be manufactured with a Melinex lining then the open area of the perforated sheet to be 30%. Attenuator end faces shall be drilled and tapped to match the flange details of the associated fan.*

*Acoustic performance shall be determined by testing in accordance with BS4718:1971*

#### Attenuation Performance

The following tables demonstrate the levels of sound reduction by octave band to be offset against the sound spectrums of fans.

#### Published Range

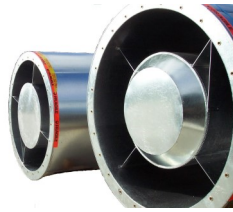
In this catalogue we have published attenuation data relating to un-podded and podded cylindrical silencers in single as well as double diameter lengths for the standard range of AX/AT/AC/AY/AZ/AB series axial fans. These data provide a quick guide for the set of attenuators useful in general applications.

#### Selecting Attenuators

To access the full range of attenuators offered by Pacific HVAC Engineering and to select the right silencer for any given situation, please refer to our electronic fan and attenuator selection software, **FansSelect**, available for download at [www.pacificHVAC.com](http://www.pacificHVAC.com)

Your local Pacific HVAC Engineering sales office is equipped to answer specific queries relating to the full range of silencers and attenuators.

## CSP - podded cylindrical attenuators

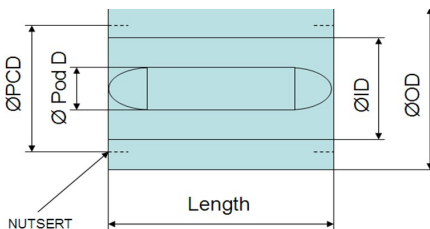


### Size = 1 x Ø

Code	Sound Power Reduction dB							
	63	125	250	500	1k	2k	4k	8k
CSP0315-1D	4	6	9	13	20	20	17	14
CSP0350-1D	4	6	9	13	20	20	17	14
CSP0400-1D	5	7	9	15	21	19	17	14
CSP0450-1D	5	7	10	16	22	19	16	14
CSP0500-1D	4	7	9	15	23	19	15	12
CSP056 0-1D	5	6	9	15	22	20	15	12
CSP06 30-1D	5	7	10	18	22	19	16	11
CSP07 10-1D	5	6	11	19	23	20	15	11
CSP08 00-1D	6	6	11	18	24	18	15	11
CSP0900-1D	6	7	11	21	21	16	14	11
CSP1000-1D	6	8	12	21	19	14	14	11
CSP1120-1D	6	7	13	21	20	14	14	10
CSP1250-1D	5	7	13	21	20	15	13	10
CSP1400-1D	6	8	12	19	18	15	12	9
CSP1500-1D	5	8	12	18	17	13	10	9
CSP16 00-1D	5	8	12	19	18	13	11	9
CSP18 00-1D	6	8	13	19	17	13	10	9
CSP2000-1D	6	8	12	18	18	12	10	10

### Size = 2 x Ø

Code	Sound Power Reduction dB							
	63	125	250	500	1k	2k	4k	8k
CSP0315-2D	6	9	15	22	29	29	26	22
CSP0350-2D	6	9	15	22	29	29	26	22
CSP0400-2D	6	10	14	22	29	29	27	24
CSP0450-2D	7	10	14	23	30	28	27	24
CSP0500-2D	8	10	14	25	31	30	28	23
CSP056 0-2D	7	11	15	25	30	29	28	22
CSP06 30-2D	7	11	16	28	34	32	29	20
CSP07 10-2D	8	11	17	28	35	32	28	21
CSP08 00-2D	9	12	17	28	35	31	28	21
CSP0900-2D	8	12	19	27	28	27	33	19
CSP1000-2D	8	11	19	27	30	28	23	19
CSP1120-2D	8	12	20	27	28	28	22	17
CSP1250-2D	9	11	19	27	29	28	23	18
CSP1400-2D	9	13	21	27	29	27	20	16
CSP1500-2D	10	15	21	26	28	26	18	16
CSP16 00-2D	10	15	22	26	28	26	18	16
CSP18 00-2D	10	14	22	27	28	27	19	16
CSP2000-2D	11	14	22	26	28	26	18	16



### Dimensions 1 x Ø

Code	A	B	C	size	number	PCD [mm]	kg
CSP0315-1D	300	516	315	M8	8	355	14
CSP0350-1D	300	556	350	M8	8	395	16
CSP0400-1D	600	606	400	M10	8	450	25
CSP0450-1D	600	656	450	M10	8	500	33
CSP0500-1D	600	706	500	M10	12	560	36
CSP056 0-1D	600	766	560	M10	12	620	41
CSP06 30-1D	600	836	630	M10	12	690	47
CSP07 10-1D	900	916	710	M10	16	770	70
CSP08 00-1D	900	1006	800	M10	16	860	78
CSP0900-1D	1150	1106	900	M12	16	970	106
CSP1000-1D	1150	1206	1000	M12	16	1070	127
CSP1120-1D	1150	1330	1120	M12	20	1190	143
CSP1250-1D	1150	1456	1250	M12	20	1320	158
CSP1400-1D	1150	1606	1400	M12	20	1470	177
CSP1500-1D	1150	1706	1500	M12	20	1570	232
CSP16 00-1D	1800	1806	1600	M16	24	1680	286
CSP18 00-1D	1800	2006	1800	M16	24	1880	321
CSP2000-1D	1800	2206	2000	M16	24	2080	357

### Dimensions 2 x Ø

Code	A	B	C	size	number	PCD [mm]	kg
CSP0315-2D	600	516	315	M8	8	355	30
CSP0350-2D	600	556	350	M8	8	395	32
CSP0400-2D	900	606	400	M10	8	450	38
CSP0450-2D	900	656	450	M10	8	500	50
CSP0500-2D	1150	706	500	M10	12	560	70
CSP056 0-2D	1150	766	560	M10	12	620	75
CSP06 30-2D	1500	836	630	M10	12	690	90
CSP07 10-2D	1500	916	710	M10	16	770	116
CSP08 00-2D	1500	1006	800	M10	16	860	130
CSP0900-2D	1800	1106	900	M12	16	970	166
CSP1000-2D	1800	1206	1000	M12	16	1070	198
CSP1120-2D	2400	1330	1120	M12	20	1190	264
CSP1250-2D	2400	1456	1250	M12	20	1320	329
CSP1400-2D	2400	1606	1400	M12	20	1470	369
CSP1500-2D	2400	1706	1500	M12	20	1570	470
CSP16 00-2D	3600	1806	1600	M16	24	1680	571
CSP18 00-2D	3600	2006	1800	M16	24	1880	642
CSP2000-2D	3600	2206	2000	M16	24	2080	713

## CSU - un-podded cylindrical attenuators

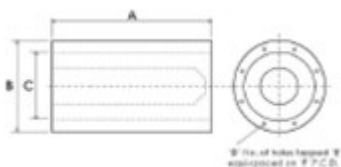


### Size = 1 x Ø

Code	Sound Power Reduction dB							
	63	125	250	500	1k	2k	4k	8k
CSU0315-1D	3	3	5	9	14	11	9	8
CSU0350-1D	3	3	5	9	14	11	9	8
CSU0400-1D	2	3	6	10	13	11	9	7
CSU0450-1D	2	4	5	11	13	11	8	8
CSU0500-1D	3	3	6	10	15	11	9	8
CSU056 0-1D	3	4	7	10	14	10	8	8
CSU06 30-1D	3	4	8	14	14	9	8	6
CSU07 10-1D	3	4	9	14	14	10	7	7
CSU08 00-1D	4	5	8	15	13	10	8	6
CSU0900-1D	3	5	9	14	14	9	7	6
CSU1000-1D	4	5	10	15	13	9	7	6
CSU1120-1D	4	5	11	14	12	9	6	7
CSU1250-1D	4	5	11	15	12	9	6	7
CSU1400-1D	4	5	11	13	11	9	6	6
CSU1500-1D	5	6	12	14	11	8	5	5
CSU16 00-1D	5	6	12	13	11	7	6	5
CSU18 00-1D	5	6	11	14	11	7	5	5
CSU2000-1D	5	6	11	14	9	7	6	6

### Size = 2 x Ø

Code	Sound Power Reduction dB							
	63	125	250	500	1k	2k	4k	8k
CSU0315-2D	5	6	11	15	22	17	14	13
CSU0350-2D	5	6	11	15	22	17	14	13
CSU0400-2D	5	6	10	16	22	18	16	14
CSU0450-2D	5	8	10	17	21	19	16	14
CSU0500-2D	5	8	11	19	22	17	16	13
CSU056 0-2D	6	7	12	18	21	18	16	12
CSU06 30-2D	5	9	11	21	24	17	15	10
CSU07 10-2D	5	9	12	22	24	27	15	11
CSU08 00-2D	5	8	13	22	24	26	16	10
CSU0900-2D	5	9	13	23	19	14	13	11
CSU1000-2D	6	8	14	22	19	13	13	10
CSU1120-2D	6	9	13	22	19	14	13	11
CSU1250-2D	6	8	13	22	18	13	12	12
CSU1400-2D	7	10	15	22	19	12	11	11
CSU1500-2D	9	9	15	21	17	11	9	8
CSU16 00-2D	9	9	16	21	17	11	9	9
CSU18 00-2D	9	10	16	21	18	11	9	8
CSU2000-2D	9	10	15	20	18	10	10	8



### Dimensions 1 x Ø

Code	A	B	C	D	E	F	kg
CSU0315-1D	300	516	315	8	M8	355	13
CSU0350-1D	300	556	350	8	M8	395	14
CSU0400-1D	6 00	6 06	400	8	M10	450	24
CSU0450-1D	6 00	6 56	450	8	M10	500	26
CSU0500-1D	6 00	7 06	500	12	M10	56 0	28
CSU056 0-1D	6 00	7 6 6	56 0	12	M10	6 20	31
CSU06 30-1D	6 00	8 36	6 30	12	M10	6 90	35
CSU07 10-1D	900	9 16	7 10	16	M10	7 7 0	52
CSU08 00-1D	900	1006	8 00	16	M10	8 6 0	57
CSU0900-1D	1150	1106	900	16	M12	97 0	7 6
CSU1000-1D	1150	1206	1000	16	M12	107 0	8 9
CSU1120-1D	1150	1130	1120	20	M12	1190	99
CSU1250-1D	1150	1456	1250	20	M12	1320	109
CSU1400-1D	1150	16 06	1400	20	M12	147 0	121
CSU1500-1D	1150	17 06	1500	20	M12	157 0	193
CSU16 00-1D	18 00	18 06	16 00	24	M16	16 8 0	204
CSU18 00-1D	18 00	2006	18 00	24	M16	18 8 0	215
CSU2000-1D	18 00	2206	2000	24	M16	208 0	238

### Dimensions 2 x Ø

Code	A	B	C	D	E	F	kg
CSU0315-2D	6 00	516	315	8	M8	355	26
CSU0350-2D	6 00	556	350	8	M8	395	28
CSU0400-2D	900	6 06	400	8	M10	450	34
CSU0450-2D	900	6 56	450	8	M10	500	38
CSU0500-2D	1150	7 06	500	8	M10	56 0	52
CSU056 0-2D	1150	7 6 6	56 0	12	M10	6 20	57
CSU06 30-2D	1150	8 36	6 30	12	M10	6 90	6 4
CSU07 10-2D	1500	9 16	7 10	16	M10	7 7 0	8 3
CSU08 00-2D	1500	1006	8 00	16	M10	8 6 0	92
CSU0900-2D	18 00	1106	900	16	M12	97 0	116
CSU1000-2D	18 00	1206	1000	16	M12	107 0	140
CSU1120-2D	2400	1330	1120	20	M12	1190	18 5
CSU1250-2D	2400	1456	1250	20	M12	1320	229
CSU1400-2D	2400	16 06	1400	20	M12	147 0	241
CSU1500-2D	2400	17 06	1500	20	M12	157 0	38 6
CSU16 00-2D	36 00	18 06	16 00	24	M16	16 8 0	38 9
CSU18 00-2D	36 00	2006	18 00	24	M16	18 8 0	434
CSU2000-2D	36 00	2206	2000	24	M16	208 0	48 2

Note: Pressure drop for un-podded attenuators is negligible.

