



Technical Information Crossflow Heat Exchangers

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Sound dampening

A plate heat exchanger is often a good sound damper in a ventilation system. The dampening depends on heat exchanger size and plate distance. Below is a guide to how much the dampening is at different frequencies.

Example: Sound Dampening in dB at different frequencies

Exchanger Plate size	Plate distances mm	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
200	2.1-2.7	1	2	2	3	3	3	4	4
300	1.8-5.0	1	2	2	3	3	3	4	4
415/425	3.3-6.5	1	2	2	3	4	4	4	4
490	3.3-5.0	1	2	2	4	4	5	6	6
600	2.7-6.0	2	4	4	6	7	8	9	9
600	7.5-12.0	1	2	2	4	4	5	5	5
750/800	3.3-6.0	2	5	5	7	8	10	11	11
750/800	7.5-12.0	1	2	2	4	4	5	6	6
850	3.3-7.5	2	5	5	7	8	10	11	11
1000	5.0-6.0	3	5	5	8	9	11	12	13
1000	7.5-12.0	2	4	4	6	7	8	9	9
1200	4.5-6.0	3	5	5	8	9	11	12	13
1200	7.5-12.0	2	5	5	7	8	10	12	12
1500	4.5-6.0	3	6	6	9	10	11	13	13
1500	7.5-12.0	3	5	5	8	9	11	12	13
2000	5.0-6.0	3	7	7	10	11	14	15	15
2000	7.5-12.0	3	6	6	9	10	12	13	14
2250/2400/3000	4.5-6.0	4	9	9	12	14	16	19	19
2250/2400/3000	7.5-12.0	3	7	7	9	11	13	14	14