

Renovent Sky 200

Laboratoriummeting geluidvermogeniveau

Datum : 01 maart 2017
Revisie : B
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Subject : Sound power level Renovent Sky 200
Date of measurement : 28-02-2017
Type of filter : G4 / G4

Sound radiation of the unit

Air flow [m³/h]	Pressure [Pa]	Sound power level*						L _{WA} [dB(A)]
		L _w [dB]						
		250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	Total
75	25	35.8	32.4	29.5	18.0	14.9	13.9	< 34**
100	50	42.6	38.6	35.1	24.4	20.2	16.1	39.5
140	50	47.1	48.2	38.9	29.7	26.5	22.5	46
125	100	49.1	46.4	39.7	31.3	27.7	23.9	46.3
150	100	51.3	47.5	41.3	34.2	30.8	27.9	47.9
175	100	53.9	53.7	42.7	37.0	33.4	31.4	52.5
200	100	54.8	51.0	44.1	39.9	36.0	34.6	51.7

Supply air duct

Air flow [m³/h]	Pressure [Pa]	Sound power level*						L _{WA} [dB(A)]
		L _w [dB]						
		250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	Total
75	25	44.8	43.7	46.5	39.7	30.6	17.8	48.6
100	50	54.0	50.4	55.9	48.8	42.0	31.0	57.8
140	50	57.6	55.3	60.1	54.2	48.3	38.9	62.4
125	100	60.3	57.7	60.9	56.0	49.6	40.2	63.7
150	100	62.3	59.5	62.5	59.1	52.6	44.1	65.7
175	100	63.9	62.8	64.2	62.3	55.6	47.6	68.2
200	100	66.1	65.3	65.8	65.1	58.1	50.6	70.4

Extract air duct

Air flow [m³/h]	Pressure [Pa]	Sound power level*						L _{WA} [dB(A)]
		L _w [dB]						
		250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	Total
75	25	35.9	34.3	32.0	19.4	15.1	13.7	< 35.4**
100	50	43.4	40.4	38.2	26.5	19.7	14.2	41.8
140	50	48.7	46.3	41.6	31.8	24.4	15.5	46.6
125	100	49.4	46.8	42.2	32.2	24.9	15.7	47.2
150	100	51.8	49.0	43.5	35.1	27.4	17.1	49.2
175	100	54.6	51.4	44.8	37.8	30.0	19.4	51.4
200	100	55.7	53.3	45.6	39.6	31.6	21.0	52.9

* - values are copied from report "Sky 200 geluidsmetingen" with report number 0948.

- accuracy sound data is ± 1 dB(A).

** - value to close to background sound