

ROBIN ProMotion

Noise Measurement



Date of measurements : 24.2.2021 Temperature / humidity : 20°C / 45 % r.h.

Testing method : EN ISO 9614-1 Acoustics - Determination of **sound power levels** of noise sources
using sound intensity - Part 1: Measurement at discrete points

Testing equipment : Analyzer Brüel & Kjær 2270
Sound intensity probe Brüel & Kjær 3654

1. Sound power levels [dB(A)] - measurement

[dB(A)]	Settings A)*	Settings B)*
63 Hz	-	9
125 Hz	12	12
250 Hz	34	39
500 Hz	40	49
1 kHz	40	51
2 kHz	34	49
4 kHz	29	43
8 kHz	27	34
Total	44	55

- ... *unmeasurable value*

A)* .. Fans mode: Auto, 100% dimmer, static position, without effects

B)* .. Fans mode: High, 100% dimmer, static position, without effects

2. Sound pressure levels [dB(A)] – determination

$$L_p = L_w + 10 \log \left(\frac{Q}{4\pi r^2} \right)$$

Q = 2

[distance (m)]	Settings A)*	Settings B)*
1	36	47
3	27	37
5	22	33
8	18	29
10	16	27

A)* .. Fans mode: Auto, 100% dimmer, static position, without effects

B)* .. Fans mode: High, 100% dimmer, static position, without effects

Test results apply only to the tested specimen.

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