

ROBIN Esprite

Noise Measurement



Date of measurements : 26.11.2019 Temperature / humidity : 21°C / 27 % 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)*	Settings C)*	Settings D)*
63 Hz	7	10	10	10
125 Hz	17	27	33	33
250 Hz	28	39	44	44
500 Hz	34	48	56	56
1 kHz	30	46	56	56
2 kHz	29	45	54	54
4 kHz	24	38	49	49
8 kHz	18	29	42	42
Total	37	52	60	60

A)* .. Quiet mode, 100% dimmer, static position, without effects

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

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

D)* .. High-power mode On, 100% dimmer, static position, without effects

2. Sound pressure power 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)*	Settings C)*	Settings D)*
1	29	44	52	52
3	20	34	42	42
5	15	30	38	38
8	11	26	34	34
10	9	24	32	32

A)* .. Quiet mode, 100% dimmer, static position, without effects

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

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

D)* .. High-power mode On, 100% dimmer, static position, without effects

Test results apply only to the tested specimen.

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