

Sound power level and Spectrum

FW02 T

| Sound Power Levels dB(A) | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Global Lw |
|--------------------------|--------|--------|--------|---------|---------|---------|---------|-----------|
| max | 41.8 | 55.1 | 57.2 | 56.8 | 53.5 | 45.2 | 31 | 62.0 |
| min | - | 19.9 | 25.3 | 21.6 | 16.1 | - | - | 28.0 |

FW03 T

| Sound Power Levels dB(A) | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Global Lw |
|--------------------------|--------|--------|--------|---------|---------|---------|---------|-----------|
| max | 47.2 | 59.6 | 65.2 | 65.9 | 63.3 | 55.8 | 43.6 | 70.3 |
| min | - | 20.8 | 25.4 | 21.2 | 14.3 | - | - | 28.0 |

FW06 T

| Sound Power Levels dB(A) | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Global Lw |
|--------------------------|--------|--------|--------|---------|---------|---------|---------|-----------|
| max | 41.1 | 55.0 | 59.2 | 59.3 | 56.4 | 48.4 | 36.1 | 64.0 |
| min | - | 21.0 | 24.9 | 21.1 | 17.8 | - | - | 28.0 |

FW08 T

| Sound Power Levels dB(A) | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Global Lw |
|--------------------------|--------|--------|--------|---------|---------|---------|---------|-----------|
| max | 46.6 | 61.0 | 65.3 | 66.7 | 63.8 | 56.7 | 46.7 | 70.9 |
| min | - | 21.5 | 24.7 | 21.9 | 15.2 | - | - | 28.0 |

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| Conditions of measurements | ISO3741: in case of (M) models the sound power is calculated WITHOUT any additional inlet or outlet grill or plenum! |
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To calculate the sound pressure you must define some conditions and use this formula $L_p = L_w - 10 \times \log_{10} \left(\frac{4\pi \times d^2}{Q} \right)$

- Where:
- Q = direction factor: is Q=4 if the FCU is installed near 2 walls (vertical or floor-ceiling), Q=2 if the FCU is installed near 1 wall (at floor or ceiling but faraway the 2° wall)
 - d = distance (mt) from the sound source and the measure point
 - Lp = sound pressure (dB A)
 - Lw = sound power (dB A)