

		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
<b>min</b>	<b>Lw tot dB(A)</b>	<b>33</b>	<b>37</b>	<b>33</b>	<b>26</b>	<b>20</b>	<b>11</b>	<b>15</b>	<b>33</b>
	<b>Outlet</b>	29	34	30	23	18	9	12	-
	<b>Structure</b>	20	20	25	13	12	-	-	-
	<b>Inlet</b>	31	33	29	22	15	6	11	-
<b>max</b>	<b>Lw tot dB(A)</b>	<b>62</b>	<b>65</b>	<b>64</b>	<b>64</b>	<b>60</b>	<b>54</b>	<b>47</b>	<b>68</b>
	<b>Outlet</b>	58	62	61	61	58	52	44	-
	<b>Structure</b>	45	48	56	46	52	36	30	-
	<b>Inlet</b>	60	60	60	60	55	49	43	-

To calculate the sound pressure you must define some conditions and use this formula  $L_p = L_w - 10 \times \text{Log}_{10} \left( \frac{4\pi \times d^2}{Q} \right)$

Where: **Q** = direction factor : is Q=4 if the air outlet/inlet is placed near the corner of 2 walls (vertical or floor-ceiling), Q=2 if the air outlet/inlet is placed at the center of the 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)

#### Conditions of measurements:

ISO3741: the sound power is calculated WITHOUT any additional inlet or outlet grill or plenum

**blank** = Not Measurable