

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

		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
min	Lw tot dB(A)	33	37	33	26	20	11	15	33
	Outlet	29	34	30	23	18	9	12	-
	Structure	20	20	25	13	12	-	-	-
	Inlet	31	33	29	22	15	6	11	-
max	Lw tot dB(A)	65	69	67	67	63	57	51	71
	Outlet	61	66	64	64	61	55	48	-
	Structure	48	51	59	49	55	40	34	-
	Inlet	63	65	63	63	57	53	46	-

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