

		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	dBA
7	Lw tot dBA	52	55	53	51	49	43	34	56
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	48	52	50	48	46	41	31	-
	Structure	35	38	45	34	41	25	17	-
	Inlet	50	52	49	47	43	38	30	-
6	Lw tot dBA	50	53	51	48	46	36	25	52
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	46	50	48	46	44	34	23	-
	Structure	33	35	42	31	38	18	18	-
	Inlet	48	50	47	44	41	31	21	-
5	Lw tot dBA	46	49	46	44	41	33	23	49
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	42	46	43	41	39	31	21	-
	Structure	29	31	38	26	33	15	15	-
	Inlet	44	45	42	40	36	28	19	-
4	Lw tot dBA	42	45	43	40	36	26	19	45
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	38	42	39	37	34	24	16	-
	Structure	26	27	34	23	28	15	15	-
	Inlet	40	42	39	36	31	22	15	-
3	Lw tot dBA	40	43	40	37	32	22	18	42
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	36	40	37	34	30	20	15	-
	Structure	23	25	31	20	24	12	12	-
	Inlet	38	39	36	33	27	17	14	-
2	Lw tot dBA	38	40	37	34	29	16	17	39
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	34	37	34	31	26	14	14	-
	Structure	21	22	29	17	21	12	12	-
	Inlet	36	37	33	30	23	12	13	-
1	Lw tot dBA	34	37	33	31	24	13	17	35
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	30	34	30	27	22	12	14	-
	Structure	17	19	25	13	16	12	14	-
	Inlet	32	33	29	28	19	13	13	-

**NOTES**

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 (dBA)

**Lw** = sound power (dBA)

**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	dBA
7	Lw tot dBA	54	59	58	53	50	45	36	59
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	50	56	54	51	48	43	33	-
	Structure	37	41	49	36	42	27	19	-
	Inlet	52	55	54	49	45	41	32	-
6	Lw tot dBA	52	56	55	50	46	39	29	56
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	48	53	52	47	44	37	27	-
	Structure	35	38	46	33	38	22	12	-
	Inlet	50	52	51	46	41	35	25	-
5	Lw tot dBA	48	55	54	48	44	34	24	54
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	44	52	51	45	41	32	21	-
	Structure	32	37	45	30	36	17	7	-
	Inlet	46	51	50	44	38	30	20	-
4	Lw tot dBA	46	52	52	46	41	32	21	52
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	42	49	49	43	39	30	18	-
	Structure	29	35	43	28	33	14	4	-
	Inlet	44	49	48	42	36	28	17	-
3	Lw tot dBA	44	48	46	40	35	24	16	46
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	40	45	42	37	33	22	13	-
	Structure	27	30	37	23	27			-
	Inlet	42	45	42	36	30	20	12	-
2	Lw tot dBA	40	44	41	35	28	16	14	42
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	36	41	38	32	26	14	11	-
	Structure	23	27	33	18	20			-
	Inlet	38	41	37	31	23	11	10	-
1	Lw tot dBA	37	41	37	30	20	11	15	37
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	33	38	34	27	18	9	12	-
	Structure	20	23	29	13	12			-
	Inlet	35	37	33	26	15	6	11	-

## NOTES

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 (dBA)

**Lw** = sound power (dBA)

### Conditions of measurements:

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**blank** = Not Measurable

		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	dBA
7	Lw tot dBA	63	67	65	65	61	55	49	69
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	59	64	62	62	59	53	46	-
	Structure	46	49	57	47	53	38	32	-
	Inlet	61	63	61	61	56	51	45	-
6	Lw tot dBA	61	64	63	63	59	53	46	67
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	57	61	60	60	57	51	43	-
	Structure	44	47	55	46	51	35	29	-
	Inlet	59	61	59	59	54	48	42	-
5	Lw tot dBA	58	60	61	61	56	49	41	64
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	54	57	58	58	54	47	39	-
	Structure	41	43	52	43	48	31	24	-
	Inlet	56	57	57	57	51	44	37	-
4	Lw tot dBA	52	55	56	54	51	43	34	58
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	48	52	53	51	49	41	31	-
	Structure	35	37	47	37	43	26	17	-
	Inlet	50	51	52	50	45	39	30	-
3	Lw tot dBA	50	53	54	52	49	41	31	56
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	46	50	51	49	47	39	28	-
	Structure	33	35	46	34	41	23	14	-
	Inlet	48	49	50	48	44	36	27	-
2	Lw tot dBA	51	50	52	49	47	38	29	54
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	47	47	49	47	45	36	26	-
	Structure	34	33	44	32	39	21	11	-
	Inlet	49	47	48	45	42	34	25	-
1	Lw tot dBA	46	49	51	48	46	38	28	53
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Outlet	42	46	47	45	44	36	25	-
	Structure	29	31	42	31	38	20	11	-
	Inlet	44	46	47	44	41	33	24	-

## NOTES

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<sup>o</sup> wall)

**d** = distance (mt) from the sound source and the measure point

**Lp** = sound pressure (dBA)

**Lw** = sound power (dBA)

### Conditions of measurements:

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

**blank** = Not Measurable