Series

VENTS KSB K2

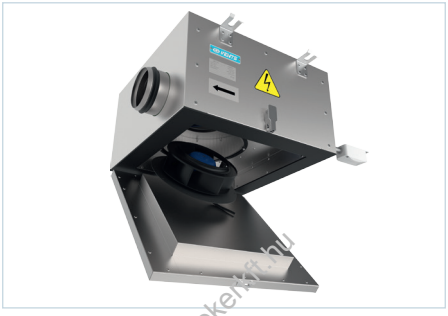
Inline centrifugal fans in heat- and sound-insulated casing with air flow up to **7000 m³/h**

Purpose

KSB fan design allows to use them in supply and exhaust ventilation systems in premises with high requirements to the noise level and with limited space for mounting.
For example, the unit design includes a possibility of space-restricted installation above suspended ceilings.
They are designed for mounting into Ø 100-500 mm air ducts.

Design

The fan casing is made of aluzinc. For easy installation and operation, the top cover of the fan is secured with a special lock. Heat- and sound insulation is made of non-combustible 50 mm mineral wool layer. To ensure better noise absorption, the inner surface of the insulation is made of a perforated metal sheet. The round connecting spigots are rubber sealed.



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Motor

The fans are equipped with asynchronous motors with an external rotor and centrifugal impellers with backward curved blades.
The motors are equipped with an integrated overheating protection with automatic restart.
The use of ball bearings with specially selected lubricating oil guarantees low noise and makes the fan completely maintenance-free.

Speed control

Smooth or step speed control by means of a thyristor or autotransformer speed controller.
Several fans can be connected to one controller, provided that the total power and operating current do not exceed the nominal parameters of the controller.

Mounting

The round inline fans are designed for connection to round air ducts. The fans are installed at an air duct junction. The use of flexible connectors requires fixation of the fan on the building structure by means of supports, mounts or fixing brackets. The fan can be fixed in any position with respect to the air flow direction indicated by the arrow on the fan casing. While mounting the fan provide enough access for servicing and repair operations.

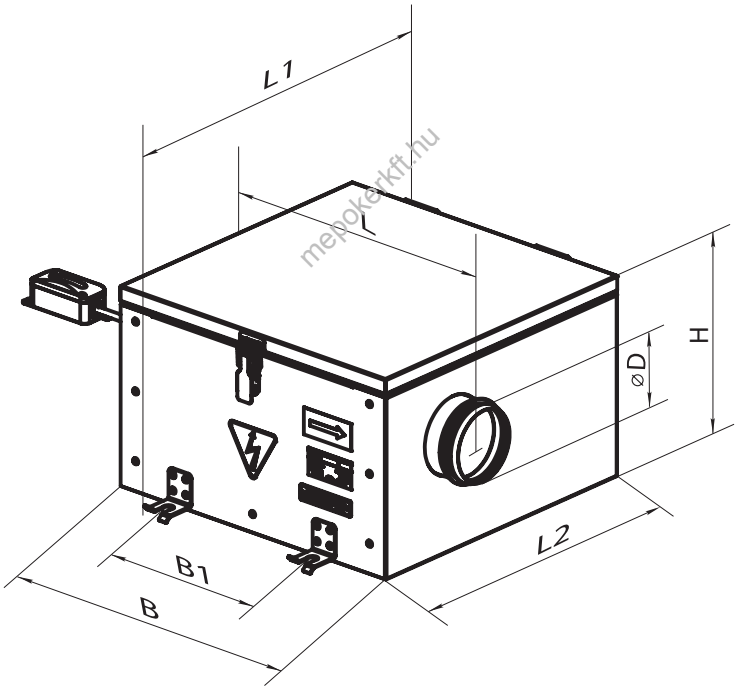
Designation key

Series	Spigot diameter	Modification	Motor	Options
VENTS KSB	100, 125, 150, 160, 200, 250, 315, 355, 400, 450, 500	**K2**: heat- and sound-insulated casing	**S**: high-powered motor **Q**: low noise modification	**R**: power cable with IEC C14 plug

Accessories

Overall dimensions

Model	Dimensions [mm]							Weight [kg]
	ØD	B	B1	H	L	L1	L2	
KSB 100 K2	99	420	228	258	517	507	414	13
KSB 125 K2	124	420	228	258	517	507	414	13
KSB 125 K2 S	124	533	333	280	630	617	525	19
KSB 150 K2	149	470	278	282	566	586	493	17
KSB 160 K2	159	470	278	282	566	586	493	17
KSB 200 K2	198	535	357,5	355	632	628	535	22.6
KSB 250 K2	248	677	537	429	774	759	666	33
KSB 315 K2 S	313	760	560	460	857	747	666	48
KSB 355 K2	354	830	641	500	927	885	804	58
KSB 400 K2	399	927	737	578	1024	957	876	78.5
KSB 450 K2	449	1049	858	607	1152	1049	968	84
KSB 500 K2	499	1203	993	724	1300	1263	1182	123



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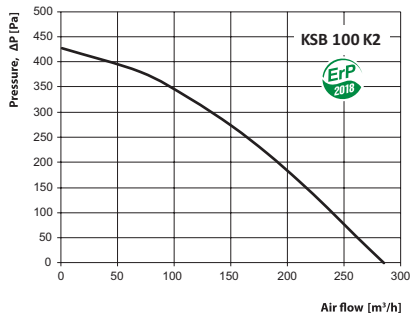
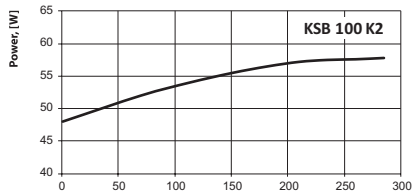
Technical data

	KSB 100 K2	KSB 125 K2	KSB 125 K2 C	KSB 150 K2
Unit voltage [V/50 Hz]	1~ 230	1~ 230	1~ 230	1~ 230
Power [W]	58	61	88	84
Current [A]	0.25	0.28	0.37	0.37
Maximum air flow [m³/h]	285	330	484	485
RPM [min⁻¹]	2530	2560	2670	2620
Sound pressure level at 3 m distance [dBA]	34	35	40	38
Transported air temperature [°C]	-25 up to +55	-25 up to +55	-25 up to +55	-25 up to +55
Ingress protection rating	IPX4	IPX4	IPX4	IPX4
SEC class	C	C	C	C

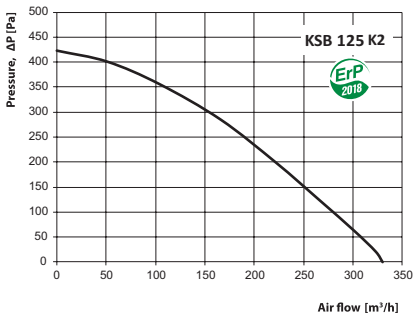
VENTS KSB K2

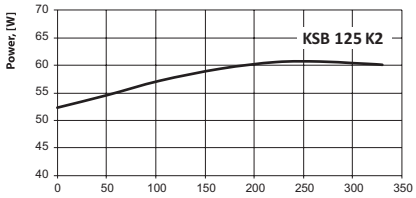




Sound power level	Hz	Gen.	Octave frequency band [Hz] 63	125	250	500	1000	2000	4000	8000	Sound power level [dBA], A-weighted	Sound pressure level at 3 m distance, A-weighted	Sound pressure level at 1 m distance, A-weighted
												LpA, 3 m [dBA]	LpA, 1 m [dBA]
L_{wA} to inlet	dBA	62	48	57	60	52	48	42	42	32		42	52
L_{wA} to outlet	dBA	79	65	74	76	72	58	51	53	44		59	69
L_{wA} to environment	dBA	54	40	44	50	50	42	41	39	39		34	44

VENTS KSB K2





Sound power level	Hz	Gen.	Octave frequency band [Hz] 63	125	250	500	1000	2000	4000	8000	Sound power level [dBA], A-weighted	Sound pressure level at 3 m distance, A-weighted	Sound pressure level at 1 m distance, A-weighted
												LpA, 3 m [dBA]	LpA, 1 m [dBA]
L_{wA} to inlet	dBA	63	49	57	61	52	48	42	42	33		43	53
L_{wA} to outlet	dBA	81	66	76	78	73	60	52	54	45		61	71
L_{wA} to environment	dBA	55	41	45	51	51	43	42	40	39		35	45

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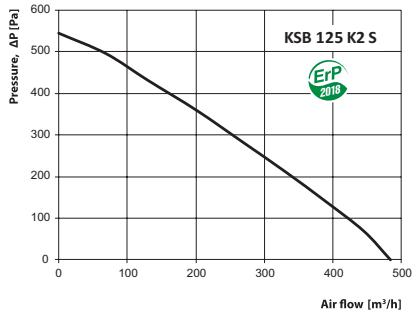
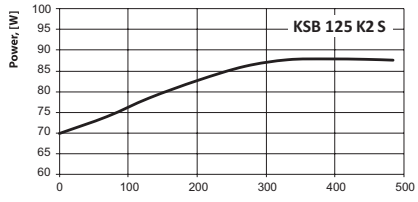
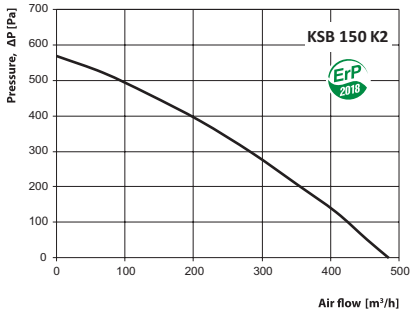
VENTS KSB K2

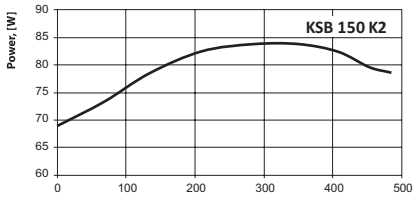




Sound power level	Hz	Gen.	Octave frequency band [Hz] 63	125	250	500	1000	2000	4000	8000	Sound power level [dBA], A-weighted	Sound pressure level at 3 m distance, A-weighted	Sound pressure level at 1 m distance, A-weighted
												LpA, 3 m [dBA]	LpA, 1 m [dBA]
L_{wA} to inlet	dBA	71	56	65	70	60	55	48	48	37		51	61
L_{wA} to outlet	dBA	88	72	83	85	80	65	57	59	50		68	78
L_{wA} to environment	dBA	60	43	52	58	53	44	42	40	40		40	50

VENTS KSB K2



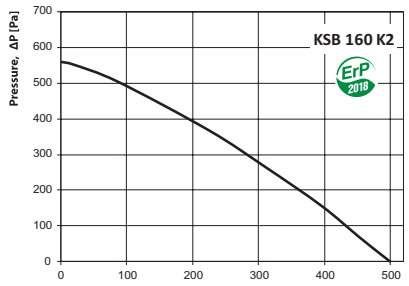


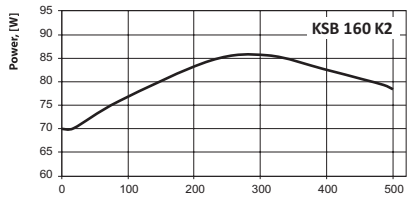
Sound power level	Hz	Gen.	Octave frequency band [Hz] 63	125	250	500	1000	2000	4000	8000	Sound power level [dBA], A-weighted	Sound pressure level at 3 m distance, A-weighted	Sound pressure level at 1 m distance, A-weighted
												LpA, 3 m [dBA]	LpA, 1 m [dBA]
L_{wA} to inlet	dBA	70	55	64	68	59	54	47	47	37		50	60
L_{wA} to outlet	dBA	86	71	81	83	78	64	55	58	49		66	76
L_{wA} to environment	dBA	59	42	50	57	52	43	41	39	39		38	48

Technical data

	KSB 160 K2	KSB 200 K2	KSB 250 K2	KSB 315 K2 S
Unit voltage [V/50 Hz]	1~ 230	1~ 230	1~ 230	3 ~ 380
Power [W]	86	164	320	654
Current [A]	0.38	0.71	1.40	1.10
Maximum air flow [m³/h]	500	770	1515	2700
RPM [min⁻¹]	2670	2580	2615	2600
Sound pressure level at 3 m distance [dBA]	38	42	45	48
Transported air temperature [°C]	-25 up to +55	-25 up to +55	-25 up to +55	-25 up to +55
Ingress protection rating	IPX4	IPX4	IPX4	IPX4
SEC class	C	C	-	-

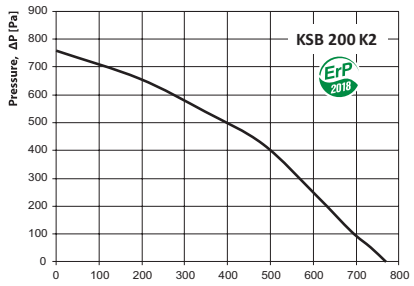
VENTS KSB K2

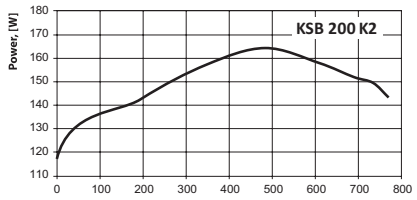




Sound power level			Sound power level [dBA], A-weighted									Sound pressure level at 3 m distance, A-weighted	Sound pressure level at 1 m distance, A-weighted
			Octave frequency band [Hz]										
	Hz	Gen.	63	125	250	500	1000	2000	4000	8000		LpA, 3 m [dBA]	LpA, 1 m [dBA]
L_{WA} to inlet	dBA	70	55	64	68	59	54	47	47	37		50	60
L_{WA} to outlet	dBA	87	72	83	84	79	65	56	59	49		67	77
L_{WA} to environment	dBA	58	42	50	57	52	43	42	39	39		38	48

VENTS KSB K2





Sound power level			Sound power level [dBA], A-weighted									Sound pressure level at 3 m distance, A-weighted	Sound pressure level at 1 m distance, A-weighted
			Octave frequency band [Hz]										
	Hz	Gen.	63	125	250	500	1000	2000	4000	8000		LpA, 3 m [dBA]	LpA, 1 m [dBA]
L_{WA} to inlet	dBA	73	57	67	71	61	57	49	49	38		53	63
L_{WA} to outlet	dBA	81	67	77	78	74	60	52	54	46		61	71
L_{WA} to environment	dBA	62	39	46	62	51	45	45	35	34		42	52

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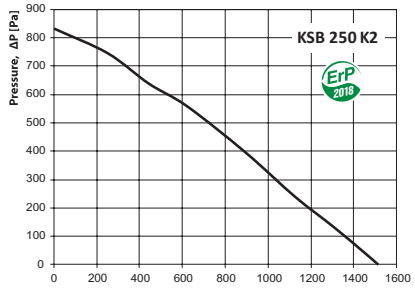
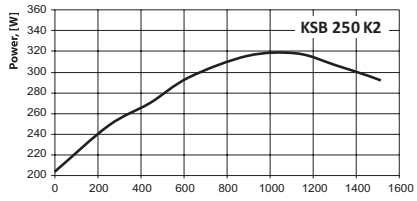
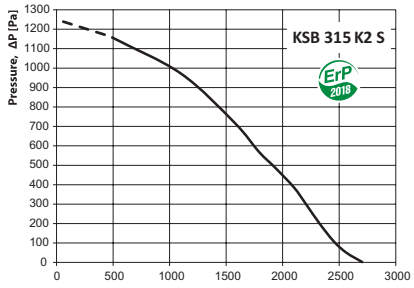
VENTS KSB K2

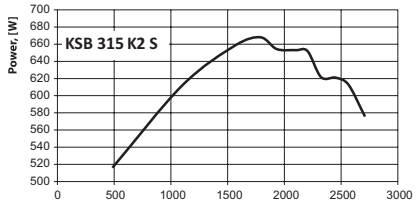




Sound power level			Sound power level [dBA], A-weighted									Sound pressure level at 3 m distance, A-weighted	Sound pressure level at 1 m distance, A-weighted
			Octave frequency band [Hz]										
	Hz	Gen.	63	125	250	500	1000	2000	4000	8000		LpA, 3 m [dBA]	LpA, 1 m [dBA]
L_{WA} to inlet	dBA	77	60	70	75	64	59	52	52	40		56	66
L_{WA} to outlet	dBA	81	67	77	79	74	60	52	55	46		61	71
L_{WA} to environment	dBA	65	46	60	63	55	48	33	33	34		45	55

VENTS KSB K2



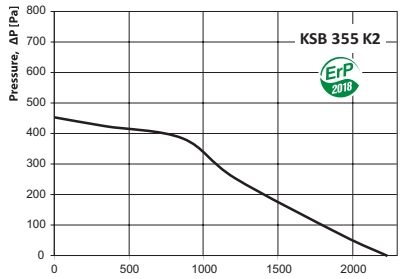


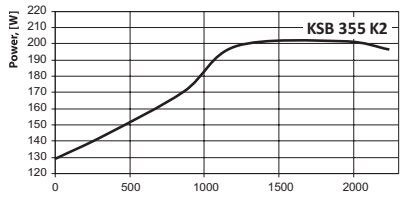
Sound power level			Sound power level [dBA], A-weighted									Sound pressure level at 3 m distance, A-weighted	Sound pressure level at 1 m distance, A-weighted
			Octave frequency band [Hz]										
	Hz	Gen.	63	125	250	500	1000	2000	4000	8000		LpA, 3 m [dBA]	LpA, 1 m [dBA]
L_{WA} to inlet	dBA	87	80	83	81	77	70	66	64	62		66	76
L_{WA} to outlet	dBA	90	80	80	79	83	81	83	80	76		69	79
L_{WA} to environment	dBA	68	55	56	67	58	50	53	52	53		48	58

Technical data

	KSB 355 K2	KSB 400 K2	KSB 450 K2 Q
Unit voltage [V/50 Hz]	1~ 230	1~ 230	1~ 230
Power [W]	202	349	473
Current [A]	0.89	2.00	2.35
Maximum air flow [m³/h]	2235	2860	2760
RPM [min⁻¹]	1330	1380	1350
Sound pressure level at 3 m distance [dBA]	48	48	48
Transported air temperature [°C]	-25 up to +55	-25 up to +55	-25 up to +55
Ingress protection rating	IPX4	IPX4	IPX4
SEC class	-	-	-

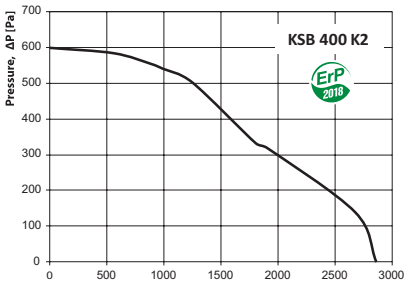
VENTS KSB K2

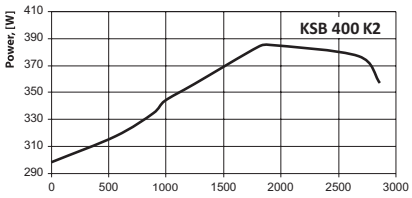




Sound power level		Gen.	Octave frequency band [Hz]								Sound pressure level at 3 m distance, A-weighted	Sound pressure level at 1 m distance, A-weighted
Sound power level [dBA], A-weighted												
	Hz		63	125	250	500	1000	2000	4000	8000	LpA, 3 m [dBA]	LpA, 1 m [dBA]
L_{WA} to inlet	dBA	78	61	72	77	66	61	53	53	41	58	68
L_{WA} to outlet	dBA	83	68	78	80	76	61	53	56	47	63	73
L_{WA} to environment	dBA	68	52	66	64	47	41	32	33	33	48	58

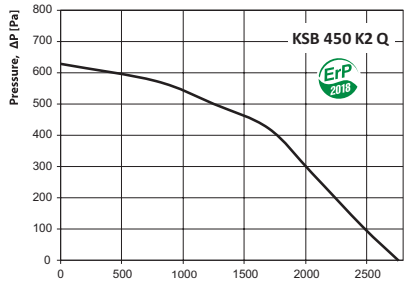
VENTS KSB K2

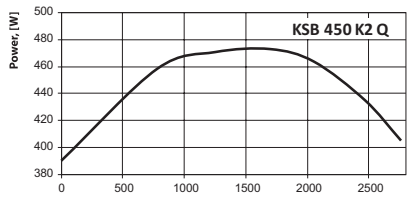




Sound power level		Gen.	Octave frequency band [Hz]								Sound pressure level at 3 m distance, A-weighted	Sound pressure level at 1 m distance, A-weighted
Sound power level [dBA], A-weighted												
	Hz		63	125	250	500	1000	2000	4000	8000	LpA, 3 m [dBA]	LpA, 1 m [dBA]
L_{WA} to inlet	dBA	84	66	78	83	71	66	57	57	44	64	74
L_{WA} to outlet	dBA	90	74	85	87	82	66	58	60	51	69	79
L_{WA} to environment	dBA	69	63	65	64	54	46	34	35	35	48	58

VENTS KSB K2





Sound power level		Gen.	Octave frequency band [Hz]								Sound pressure level at 3 m distance, A-weighted	Sound pressure level at 1 m distance, A-weighted
Sound power level [dBA], A-weighted												
	Hz		63	125	250	500	1000	2000	4000	8000	LpA, 3 m [dBA]	LpA, 1 m [dBA]
L_{WA} to inlet	dBA	80	63	74	79	68	63	54	55	42	60	70
L_{WA} to outlet	dBA	87	72	83	84	79	65	56	59	49	67	77
L_{WA} to environment	dBA	69	56	65	66	53	51	42	40	35	48	58

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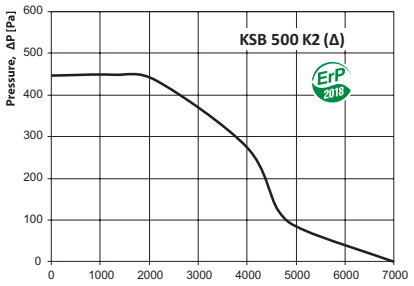
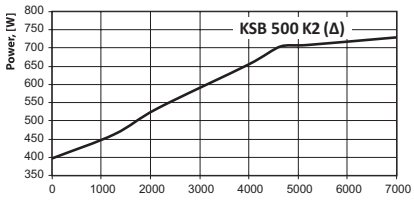
Technical data

	KSB 500 K2 (Δ)	KSB 500 K2 (Y)
Unit voltage [V/50 Hz]	1~ 230	3 ~ 380
Power [W]	730	780
Current [A]	2.82	1.60
Maximum air flow [m³/h]	7000	6720
RPM [min⁻¹]	980	948
Sound pressure level at 3 m distance [dBA]	56	54
Transported air temperature [°C]	-25 up to +55	-25 up to +55
Ingress protection rating	IPX4	IPX4
SEC class	-	-

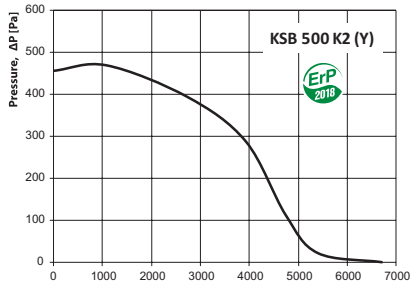
VENTS KSB K2

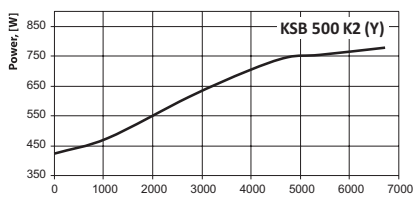




Sound power level		Gen.	Sound power level [dBA], A-weighted: Octave frequency band [Hz]								Sound pressure level at 3 m distance, A-weighted	Sound pressure level at 1 m distance, A-weighted
	Hz		63	125	250	500	1000	2000	4000	8000	LpA, 3 m [dBA]	LpA, 1 m [dBA]
L_{WA} to inlet	dBA	87	69	80	86	74	68	59	59	46	67	77
L_{WA} to outlet	dBA	92	76	88	90	84	69	60	62	52	72	82
L_{WA} to environment	dBA	76	68	75	67	52	50	48	46	40	56	66

VENTS KSB K2





Sound power level		Gen.	Sound power level [dBA], A-weighted: Octave frequency band [Hz]								Sound pressure level at 3 m distance, A-weighted	Sound pressure level at 1 m distance, A-weighted
	Hz		63	125	250	500	1000	2000	4000	8000	LpA, 3 m [dBA]	LpA, 1 m [dBA]
L_{WA} to inlet	dBA	85	66	78	83	71	66	57	57	44	64	74
L_{WA} to outlet	dBA	90	75	86	88	83	67	58	61	51	70	80
L_{WA} to environment	dBA	74	66	73	65	51	49	47	45	39	54	64

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