

KOOLAIR

series

RVV-Q/JVR

Variable flow rate
controllers



ISO 9001

BUREAU VERITAS
Certification

Sistema de Gestión



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Variable air volume Regulator, model RVV-Q

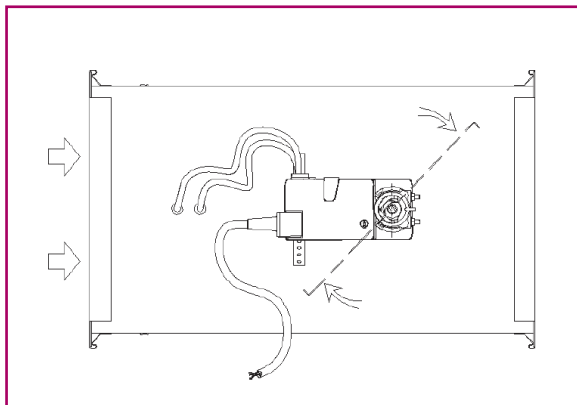


Description

Koolair regulators type RVV-Q, are rectangular regulators, and are to be used in variable air volume systems and single duct installations. The RVV-Q consists of a measuring frame with a cross sensor equipped with a differential pressure sensor made of galvanised steel sheet. The regulation damper is made of steel sheet and is provided with sealing lips and side seals to obtain a high level of air tightness. The minimum pressures for equipment setup depend on the actuator sensor accuracy.

Applications

Regulators type RVV-Q are used to supply variable air volume to room rooms that must be air-conditioned, according to the variations of the loads and the thermal demand of the rooms. RVV-Q regulators also can be used to control the return air of the room, relating to the supply air into the room, keeping a certain level of overpressure or under pressure in relation to the adjacent rooms.



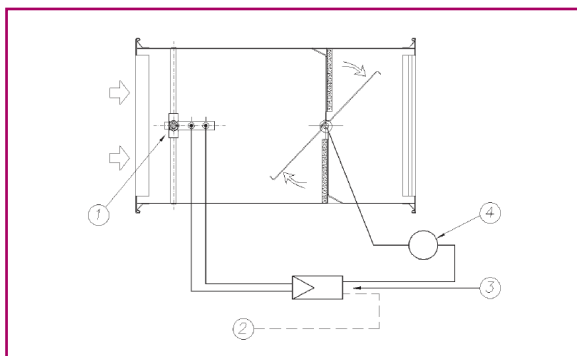
Control

The air volume regulation is carried out electronically. The assembly for the control of the regulating RVV-Q consists of:

- 1- Differential pressure sensor.
- 2- Temperature probe (added under customer request)
- 3- Controller which receives the signal via a differential pressure sensor and the temperature probe.
- 4- Servomotor which adjusts the multi-leaf damper 5 according to the signal received from the controller.

Usually, the controller and the servomotor are combined into a compact unit that includes both functions. Both, maximum and minimum air flows requested by customer need to be selected, both limits will be controlled by the servomotor according to the signal received from the differential pressure sensor, signal that the servomotor converts into air-flow.

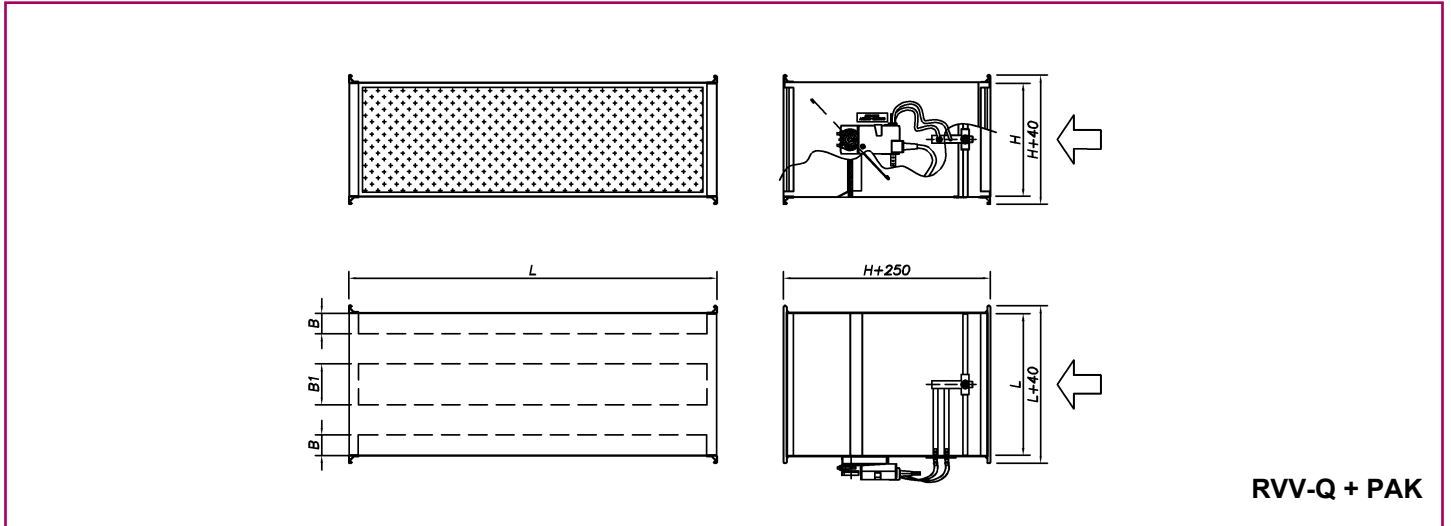
Setting and Calibration works are made in factory.



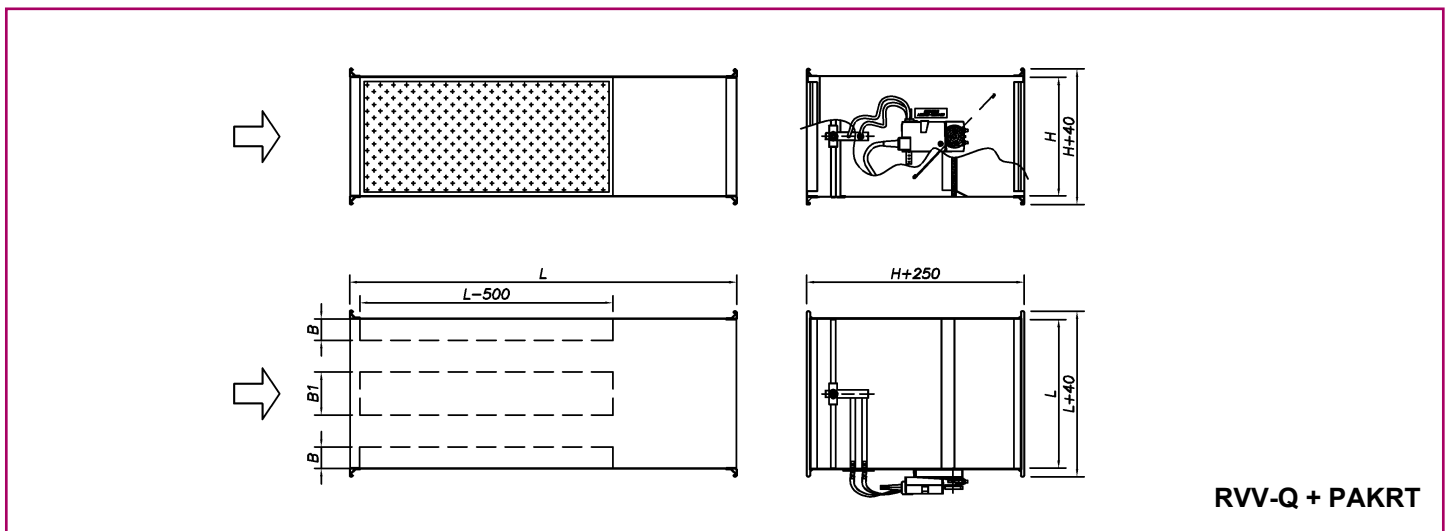
Normative

The variable flow rate controllers type RVV-Q, RVV-QD meet the specifications according to standard EN 1751 obtaining class "C and 3" in the air tightness test of the damper.

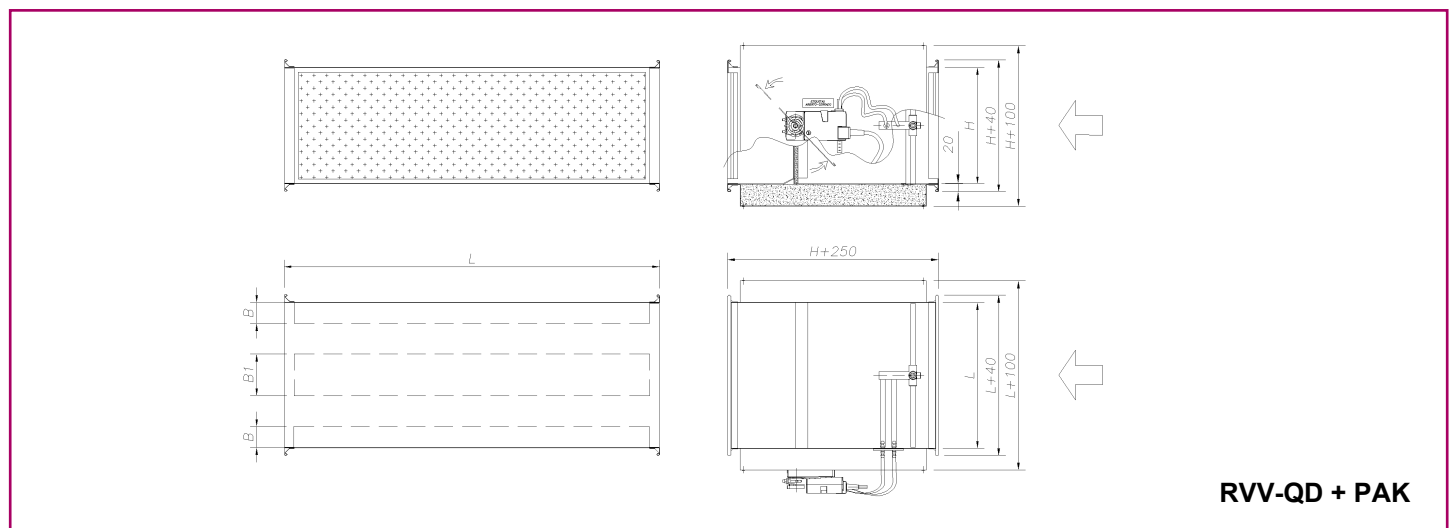
Models and dimensions



RVV-Q + PAK

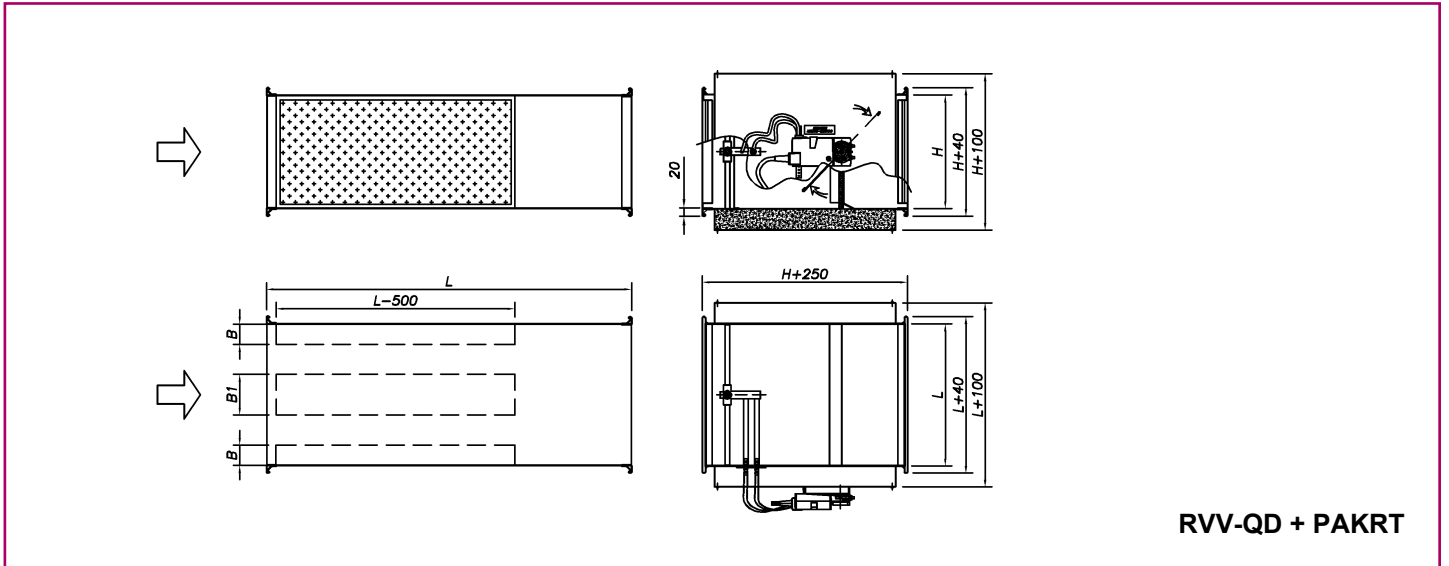


RVV-Q + PAKRT



RVV-QD + PAK

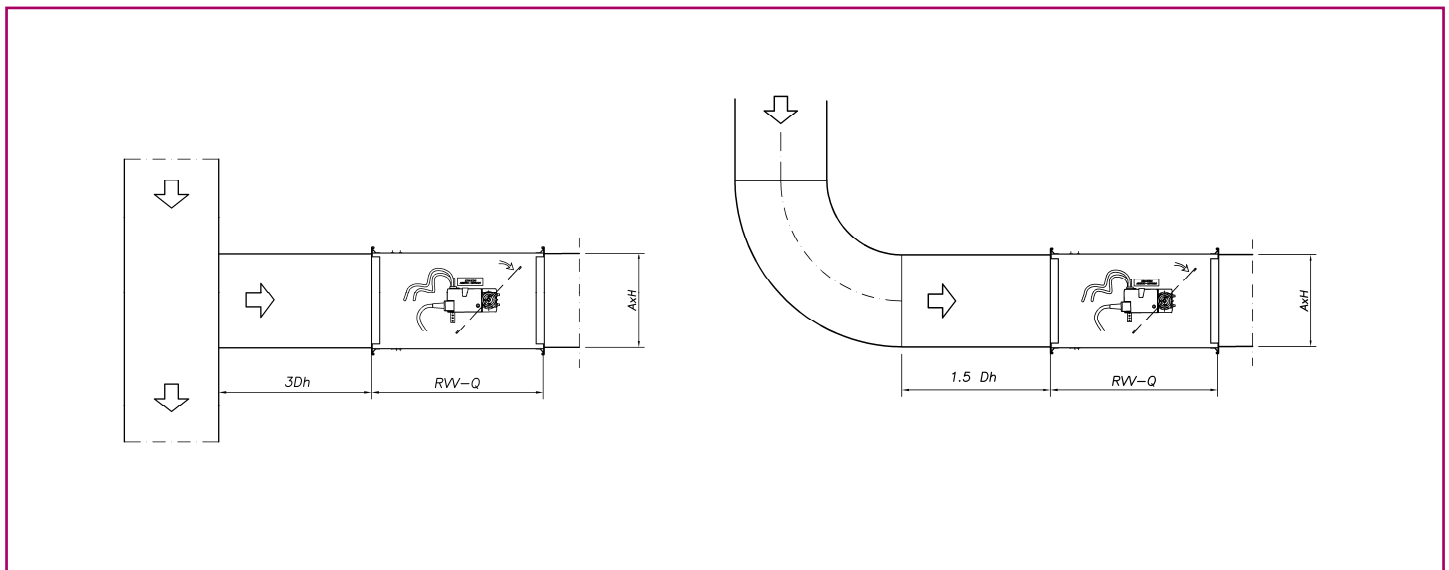
Models and dimensions



Installation requirements.

To ensure that the differential pressure sensor reading is correct and corresponds to the air flow measurement, the air distribution must achieve a minimum level of uniformity at the RVV-Q inlet. As such, it is recommended that for volume flow regulators situated close to both branches and 90° bends there be a minimum length of straight duct before the unit inlet: the recommended distances are shown in the diagrams below.

Dh, indicates the hydraulic diameter of the rectangular duct, calculated as follows: $Dh = 2 \cdot A \cdot H / (A + H)$.



Technical data. Selection tables

Table of technical data. Sound power level and pressure drop.

In the following table, it obtains the sound pressure level, considering a damping reflection and absorption 10 dB/oct.

RVVQ		Regenerated		Lp - dB(A) a p [Pa] =												
LxH [mm]	Q [m³/h]	ΔP _{min} [Pa]	100	200	250	300	400	500	600	700	750	800	900	1000		
200	100	72	1	26	32	34	36	38	40	42	43	44	44	45	46	
		216	7	37	43	45	47	49	51	53	54	55	55	56	57	
		360	19	42	48	50	52	54	56	58	59	60	60	61	62	
		504	37	46	52	54	55	58	60	61	63	63	64	64	65	66
		720	75	49	55	57	59	61	63	65	66	67	67	68	68	69
200	150	108	1	29	35	37	38	41	43	44	45	46	47	48	48	
		324	5	39	45	47	49	51	53	55	56	56	57	58	59	
		540	14	44	50	52	53	56	58	59	61	61	62	63	64	
		756	28	47	53	55	57	59	61	63	64	64	65	66	67	
		1080	56	51	57	58	60	62	64	66	67	68	68	69	70	
200	200	144	1	30	36	38	40	42	44	45	47	47	48	49	50	
		432	4	40	46	48	50	52	54	56	57	57	58	59	60	
		720	11	45	51	53	54	57	59	60	62	62	63	64	65	
		1008	23	48	54	56	57	60	62	63	65	65	66	67	68	
		1440	46	51	57	59	61	63	65	67	68	68	69	70	71	
250	100	90	1	28	34	36	37	40	42	43	44	45	46	47	48	
		270	6	38	44	46	48	50	52	54	55	56	56	57	58	
		450	16	43	49	51	53	55	57	59	60	61	61	62	63	
		630	31	47	53	54	56	59	60	62	63	64	64	65	66	
		900	64	50	56	58	60	62	64	65	67	67	68	69	70	
250	150	135	1	30	36	38	39	42	44	45	47	47	48	49	50	
		405	4	40	46	48	49	52	54	55	57	57	58	59	60	
		675	12	45	51	53	54	57	58	60	61	62	62	63	64	
		945	24	48	54	56	57	60	62	63	64	65	66	67	67	
		1350	48	51	57	59	61	63	65	66	68	68	69	70	71	
250	200	180	1	31	37	39	41	43	45	46	48	48	49	50	51	
		540	4	41	47	49	50	53	55	56	57	58	59	60	60	
		900	10	46	52	53	55	57	59	61	62	63	63	64	65	
		1260	19	49	55	56	58	60	62	64	65	66	66	67	68	
		1800	39	52	58	60	61	63	65	67	68	69	69	70	71	
250	250	225	1	32	38	40	42	44	46	47	49	49	50	51	52	
		675	3	42	48	49	51	53	55	57	58	59	59	60	61	
		1125	8	46	52	54	55	58	60	61	62	63	64	64	65	
		1575	16	49	55	57	58	61	63	64	65	66	66	67	68	
		2250	34	52	58	60	61	64	66	67	68	69	69	70	71	
300	200	216	1	32	38	40	41	44	46	47	48	49	50	50	51	
		648	3	42	48	49	51	53	55	57	58	58	59	60	61	
		1080	9	46	52	54	55	58	60	61	62	63	63	64	65	
		1512	17	49	55	57	58	61	62	64	65	66	66	67	68	
		2160	35	52	58	60	61	64	66	67	68	69	69	70	71	
300	250	270	1	33	39	41	42	45	46	48	49	50	50	51	52	
		810	3	42	48	50	51	54	56	57	58	59	59	60	61	
		1350	7	47	52	54	56	58	60	61	63	63	64	65	66	
		1890	14	49	55	57	58	61	63	64	65	66	67	68	68	
		2700	30	52	58	60	61	64	66	67	68	69	70	71	71	

Technical data. Selection tables

RVVQ Regenerated			Lp - dB(A) a p [Pa] =												
LxH [mm]	Q [m³/h]	ΔP _{min} [Pa]	100	200	250	300	400	500	600	700	750	800	900	1000	
300	300	324	1	34	39	41	43	45	47	48	50	50	51	52	53
		972	2	43	48	50	52	54	56	57	59	59	60	61	62
		1620	7	47	53	54	56	58	60	62	63	63	64	65	66
		2268	13	50	55	57	59	61	63	64	66	66	67	68	68
		3240	26	53	58	60	62	64	66	67	68	69	70	71	71
400	200	288	1	33	39	41	42	45	47	48	49	50	50	51	52
		864	3	42	48	50	51	54	56	57	58	59	60	61	61
		1440	7	47	52	54	56	58	60	61	63	63	64	65	66
		2016	14	49	55	57	59	61	63	64	66	66	67	68	68
		2880	28	52	58	60	62	64	66	67	68	69	70	71	71
400	300	432	1	34	40	42	43	46	48	49	50	51	51	52	53
		1296	2	43	49	51	52	54	56	58	59	59	60	61	62
		2160	5	47	53	55	56	58	60	62	63	63	64	65	66
		3024	10	50	55	57	59	61	63	64	66	66	67	68	68
		4320	21	53	58	60	61	64	66	67	68	69	69	70	71
500	250	450	1	35	40	42	43	46	48	49	50	51	51	52	53
		1350	2	43	49	51	52	54	56	58	59	59	60	61	62
		2250	5	47	53	55	56	58	60	62	63	63	64	65	66
		3150	10	50	55	57	59	61	63	64	66	66	67	68	68
		4500	21	53	58	60	61	64	66	67	68	69	69	70	71
500	300	540	1	35	41	42	44	46	48	49	51	51	52	53	54
		1620	2	43	49	51	52	54	56	58	59	60	60	61	62
		2700	5	47	53	55	56	58	60	62	63	63	64	65	66
		3780	9	50	55	57	59	61	63	64	65	66	66	67	68
		5400	18	52	58	60	61	64	65	67	68	69	69	70	71
600	200	432	1	34	40	42	43	46	48	49	50	51	51	52	53
		1296	2	43	49	51	52	54	56	58	59	59	60	61	62
		2160	5	47	53	55	56	58	60	62	63	63	64	65	66
		3024	10	50	55	57	59	61	63	64	66	66	67	68	68
		4320	21	53	58	60	61	64	66	67	68	69	69	70	71
600	250	540	1	35	41	42	44	46	48	49	51	51	52	53	54
		1620	2	43	49	51	52	54	56	58	59	60	60	61	62
		2700	5	47	53	55	56	58	60	62	63	63	64	65	66
		3780	9	50	55	57	59	61	63	64	65	66	66	67	68
		5400	18	52	58	60	61	64	65	67	68	69	69	70	71
600	300	648	1	35	41	43	44	46	48	50	51	51	52	53	54
		1944	1	43	49	51	52	54	56	58	59	59	60	61	62
		3240	4	47	53	54	56	58	60	61	63	63	64	65	66
		4536	8	50	55	57	58	61	63	64	65	66	66	67	68
		6480	16	52	58	60	61	63	65	67	68	68	69	70	71

Technical data. Selection tables

RVVQ	Regenerated		$\Delta p = 100 \text{ Pa}$			$\Delta p = 250 \text{ Pa}$			$\Delta p = 500 \text{ Pa}$			$\Delta p = 750 \text{ Pa}$			$\Delta p = 1000 \text{ Pa}$		
	Q [l/s]	Q [m ³ /h]	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC
200x100	20	72	26	22	21	34	30	29	40	36	35	44	39	39	46	42	41
	60	216	37	33	32	43	41	40	51	47	46	55	50	49	57	53	52
	100	360	42	38	37	48	46	45	56	52	51	60	55	55	62	58	57
	140	504	46	41	41	52	49	48	60	55	54	63	59	58	66	61	60
	200	720	49	45	44	55	53	52	63	59	58	67	62	61	69	65	64
200x150	30	108	29	24	24	35	32	31	43	38	37	46	42	41	48	44	43
	90	324	39	35	34	45	43	42	53	49	48	56	52	51	59	54	54
	150	540	44	40	39	50	48	47	58	53	53	61	57	56	64	59	59
	210	756	47	43	42	53	51	50	61	57	56	64	60	59	67	62	62
	300	1080	51	46	45	57	54	53	64	60	59	68	63	63	70	66	65
200x200	40	144	30	26	25	36	34	33	44	40	39	47	43	42	50	45	45
	120	432	40	36	35	46	44	43	54	50	49	57	53	52	60	55	55
	200	720	45	41	40	51	48	48	59	54	53	62	58	57	65	60	59
	280	1008	48	44	43	54	51	51	62	57	57	65	61	60	68	63	62
	400	1440	51	47	46	57	55	54	65	61	60	68	64	63	71	66	66
250x100	25	90	28	23	23	34	31	30	42	37	36	45	41	40	48	43	42
	75	270	38	34	33	44	42	41	52	48	47	56	51	50	58	54	53
	125	450	43	39	38	49	47	46	57	53	52	61	56	55	63	59	58
	175	630	47	42	41	53	50	49	60	56	55	64	59	59	66	62	61
	250	900	50	46	45	56	54	53	64	59	59	67	63	62	70	65	65
250x150	38	135	30	26	25	36	33	33	44	39	38	47	43	42	50	45	44
	113	405	40	36	35	46	44	43	54	49	49	57	53	52	60	55	54
	188	675	45	41	40	51	48	47	58	54	53	62	58	57	64	60	59
	263	945	48	44	43	54	51	51	62	57	56	65	61	60	67	63	62
	375	1350	51	47	46	57	55	54	65	60	60	68	64	63	71	66	66
250x200	50	180	31	27	26	37	35	34	45	41	40	48	44	43	51	46	46
	150	540	41	37	36	47	44	44	55	50	49	58	54	53	60	56	55
	250	900	46	41	41	52	49	48	59	55	54	63	58	57	65	61	60
	350	1260	49	44	44	55	52	51	62	58	57	66	61	60	68	64	63
	500	1800	52	47	47	58	55	54	65	61	60	69	64	64	71	67	66
250x250	63	225	32	28	27	38	36	35	46	41	41	49	45	44	52	47	46
	188	675	42	37	37	48	45	44	55	51	50	59	54	53	61	57	56
	313	1125	46	42	41	52	49	49	60	55	54	63	59	58	65	61	60
	438	1575	49	45	44	55	52	52	63	58	57	66	61	61	68	64	63
	625	2250	52	48	47	58	55	55	66	61	60	69	65	64	71	67	66
300x200	60	216	32	28	27	38	35	35	46	41	40	49	45	44	51	47	46
	180	648	42	37	37	48	45	44	55	51	50	58	54	53	61	56	56
	300	1080	46	42	41	52	49	49	60	55	54	63	59	58	65	61	60
	420	1512	49	45	44	55	52	51	62	58	57	66	61	61	68	64	63
	600	2160	52	48	47	58	55	55	66	61	60	69	65	64	71	67	66
300x250	75	270	33	29	28	39	36	35	46	42	41	50	45	44	52	48	47
	225	810	42	38	37	48	45	45	56	51	50	59	55	54	61	57	56
	375	1350	47	42	41	52	50	49	60	55	55	63	59	58	66	61	60
	525	1890	49	45	44	55	53	52	63	58	57	66	62	61	68	64	63
	750	2700	52	48	47	58	56	55	66	61	60	69	65	64	71	67	66

L_p: Sound pressure level of the regenerated noise, in dB(A), considering a room attenuation of 10 dB/oct.

Technical data. Selection tables

RVVQ	Regenerated		$\Delta p = 100 \text{ Pa}$			$\Delta p = 250 \text{ Pa}$			$\Delta p = 500 \text{ Pa}$			$\Delta p = 750 \text{ Pa}$			$\Delta p = 1000 \text{ Pa}$		
	Size	Q [l/s]	Q [m ³ /h]	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR
300x300	90	324	34	29	28	39	37	36	47	42	42	50	46	45	53	48	47
	270	972	43	38	37	48	46	45	56	51	51	59	55	54	62	57	56
	450	1620	47	42	42	53	50	49	60	56	55	63	59	58	66	61	61
	630	2268	50	45	44	55	53	52	63	58	58	66	62	61	68	64	63
	900	3240	53	48	47	58	56	55	66	61	61	69	65	64	71	67	66
400x200	80	288	33	29	28	39	36	36	47	42	41	50	45	45	52	48	47
	240	864	42	38	37	48	46	45	56	51	50	59	55	54	61	57	56
	400	1440	47	42	41	52	50	49	60	56	55	63	59	58	66	61	60
	560	2016	49	45	44	55	53	52	63	58	58	66	62	61	68	64	63
	800	2880	52	48	47	58	56	55	66	61	61	69	65	64	71	67	66
400x300	120	432	34	30	29	40	37	37	48	43	42	51	46	46	53	49	48
	360	1296	43	39	38	49	46	45	56	52	51	59	55	54	62	57	57
	600	2160	47	43	42	53	50	49	60	56	55	63	59	58	66	61	61
	840	3024	50	45	45	55	53	52	63	58	58	66	62	61	68	64	63
	1200	4320	53	48	47	58	56	55	66	61	60	69	65	64	71	67	66
500x250	125	450	35	30	29	40	38	37	48	43	42	51	46	46	53	49	48
	375	1350	43	39	38	49	46	45	56	52	51	59	55	54	62	57	57
	625	2250	47	43	42	53	50	49	60	56	55	63	59	58	66	61	61
	875	3150	50	45	45	55	53	52	63	58	58	66	62	61	68	64	63
	1250	4500	53	48	47	58	56	55	66	61	60	69	64	64	71	67	66
500x300	150	540	35	31	30	41	38	37	48	44	43	51	47	46	54	49	48
	450	1620	43	39	38	49	46	45	56	52	51	60	55	54	62	57	57
	750	2700	47	43	42	53	50	49	60	56	55	63	59	58	66	61	61
	1050	3780	50	45	45	55	53	52	63	58	57	66	62	61	68	64	63
	1500	5400	52	48	47	58	55	55	65	61	60	69	64	63	71	67	66
600x200	120	432	34	30	29	40	37	37	48	43	42	51	46	46	53	49	48
	360	1296	43	39	38	49	46	45	56	52	51	59	55	54	62	57	57
	600	2160	47	43	42	53	50	49	60	56	55	63	59	58	66	61	61
	840	3024	50	45	45	55	53	52	63	58	58	66	62	61	68	64	63
	1200	4320	53	48	47	58	56	55	66	61	60	69	65	64	71	67	66
600x250	150	540	35	31	30	41	38	37	48	44	43	51	47	46	54	49	48
	450	1620	43	39	38	49	46	45	56	52	51	60	55	54	62	57	57
	750	2700	47	43	42	53	50	49	60	56	55	63	59	58	66	61	61
	1050	3780	50	45	45	55	53	52	63	58	57	66	62	61	68	64	63
	1500	5400	52	48	47	58	55	55	65	61	60	69	64	63	71	67	66
600x300	180	648	35	31	30	41	38	37	48	44	43	51	47	46	54	49	48
	540	1944	43	39	38	49	46	45	56	52	51	59	55	54	62	57	57
	900	3240	47	43	42	53	50	49	60	56	55	63	59	58	66	61	60
	1260	4536	50	45	44	55	53	52	63	58	57	66	61	61	68	64	63
	1800	6480	52	48	47	58	55	54	65	61	60	68	64	63	71	66	65

L_p: Sound pressure level of the regenerated noise, in dB(A), considering a room attenuation of 10 dB/oct.

Technical data. Selection tables

Sound spectrum by octave band.

Table with columns: RVVQ, REGENERATED, Q [l/s], Q [m³/h], and sound spectrum data for p = 600 Pa, p = 700 Pa, p = 800 Pa, p = 900 Pa, and p = 1000 Pa across various dimensions (LxH [mm]).

<: < 20 dB

Technical data. Selection tables

Technical data radiated noise.

In the following table, it obtains the sound pressure level, considering an absorption 10 dB/oct local and a 100% of opening of the damper (pressure drop in Pa).

RVVQ		Radiated		Lp - dB(A) a p [Pa] =											
LxH [mm]	Q [m³/h]	DP _{min} [Pa]	100	200	250	300	400	500	600	700	750	800	900	1000	
200 100	72	1	<	<	19	21	23	25	27	28	29	29	30	31	
	216	7	23	29	31	33	35	37	39	40	40	41	42	43	
	360	19	29	35	37	39	41	43	44	46	46	47	48	49	
	504	37	33	39	41	43	45	47	49	50	51	51	52	53	
	720	75	38	44	46	48	50	52	54	55	56	56	57	58	
200 150	108	1	<	20	22	24	26	28	30	31	32	32	33	34	
	324	5	26	32	34	35	38	40	41	43	43	44	45	46	
	540	14	32	38	40	42	44	46	48	49	49	50	51	52	
	756	28	37	43	45	46	49	51	52	54	54	55	56	57	
	1080	56	43	49	51	53	55	57	58	60	60	61	62	63	
200 200	144	1	<	22	24	26	28	30	32	33	33	34	35	36	
	432	4	28	34	36	37	40	42	43	45	45	46	47	48	
	720	11	35	41	43	44	47	48	50	51	52	52	53	54	
	1008	23	40	46	48	50	52	54	55	57	57	58	59	60	
	1440	46	48	54	55	57	59	61	63	64	65	65	66	67	
250 100	90	1	<	<	21	23	25	27	28	30	30	31	32	33	
	270	6	25	31	33	34	37	39	40	41	42	43	44	44	
	450	16	31	37	39	40	43	45	46	47	48	49	50	51	
	630	31	35	41	43	45	47	49	51	52	53	53	54	55	
	900	64	41	47	49	50	53	55	56	58	58	59	60	61	
250 150	135	1	<	22	24	25	28	30	31	32	33	34	35	36	
	405	4	28	34	35	37	39	41	43	44	45	45	46	47	
	675	12	34	40	42	44	46	48	49	51	51	52	53	54	
	945	24	40	45	47	49	51	53	55	56	57	57	58	59	
	1350	48	47	52	54	56	58	60	62	63	64	64	65	66	
250 200	180	1	<	24	26	27	30	31	33	34	35	35	36	37	
	540	4	30	36	38	39	42	43	45	46	47	47	48	49	
	900	10	37	43	45	46	49	51	52	53	54	55	56	56	
	1260	19	43	49	51	53	55	57	58	60	60	61	62	63	
	1800	39	52	58	60	62	64	66	67	69	69	70	71	72	
250 250	225	1	<	25	27	28	31	33	34	36	36	37	38	38	
	675	3	32	38	39	41	43	45	47	48	48	49	50	51	
	1125	8	40	46	48	49	51	53	55	56	57	57	58	59	
	1575	16	47	53	55	56	59	61	62	63	64	65	66	66	
	2250	34	57	63	65	67	69	71	72	74	74	75	76	77	
300 200	216	1	<	25	27	28	31	32	34	35	36	36	37	38	
	648	3	31	37	39	41	43	45	46	48	48	49	50	51	
	1080	9	39	45	47	48	51	53	54	56	56	57	58	59	
	1512	17	47	52	54	56	58	60	61	63	63	64	65	66	
	2160	35	57	63	65	67	69	71	72	74	74	75	76	77	
300 250	270	1	20	26	28	30	32	34	35	37	37	38	39	39	
	810	3	33	39	41	42	45	47	48	49	50	51	52	52	
	1350	7	43	48	50	52	54	56	57	59	59	60	61	62	
	1890	14	51	57	59	61	63	65	66	68	68	69	70	70	
	2700	30	54	60	62	64	66	68	69	71	71	72	73	73	

Technical data. Selection tables

RVVQ		Radiated		Lp - dB(A) a p [Pa] =											
LxH [mm]		Q [m³/h]	DP _{min} [Pa]	100	200	250	300	400	500	600	700	750	800	900	1000
300	300	324	1	22	27	29	31	33	35	36	38	38	39	40	40
		972	2	35	41	43	44	47	49	50	51	52	52	53	54
		1620	7	46	52	53	55	57	59	61	62	62	63	64	65
		2268	13	55	61	63	64	67	68	70	71	72	72	73	74
		3240	26	58	64	66	67	69	71	73	74	75	75	76	77
400	200	288	1	21	27	28	30	32	34	36	37	37	38	39	40
		864	3	34	40	42	43	45	47	49	50	51	51	52	53
		1440	7	44	49	51	53	55	57	58	60	60	61	62	63
		2016	14	53	59	61	62	65	66	68	69	70	70	71	72
		2880	28	56	62	63	65	67	69	71	72	73	73	74	75
400	300	432	1	23	29	31	32	35	36	38	39	40	40	41	42
		1296	2	39	45	46	48	50	52	54	55	55	56	57	58
		2160	5	53	59	60	62	64	66	68	69	69	70	71	72
		3024	10	56	61	63	65	67	69	70	72	72	73	74	74
		4320	21	58	64	66	67	70	72	73	74	75	75	76	77
500	250	450	1	24	29	31	32	35	37	38	39	40	40	41	42
		1350	2	40	45	47	49	51	53	54	55	56	57	57	58
		2250	5	54	60	62	63	66	67	69	70	71	71	72	73
		3150	10	57	63	64	66	68	70	71	73	73	74	75	76
		4500	21	60	65	67	69	71	73	74	76	76	77	78	78
500	300	540	1	25	30	32	34	36	38	39	40	41	42	42	43
		1620	2	43	48	50	52	54	56	57	59	59	60	61	61
		2700	5	53	59	61	62	64	66	68	69	70	70	71	72
		3780	9	56	61	63	65	67	69	70	72	72	73	74	74
		5400	18	59	64	66	67	70	72	73	74	75	75	76	77
600	200	432	1	23	29	31	32	35	36	38	39	40	40	41	42
		1296	2	39	45	46	48	50	52	54	55	55	56	57	58
		2160	5	53	59	60	62	64	66	68	69	69	70	71	72
		3024	10	56	61	63	65	67	69	70	71	72	73	73	74
		4320	21	58	64	66	67	70	71	73	74	75	75	76	77
600	250	540	1	25	30	32	34	36	38	39	40	41	42	42	43
		1620	2	43	48	50	52	54	56	57	59	59	60	61	61
		2700	5	53	59	61	62	64	66	68	69	70	70	71	72
		3780	9	56	61	63	65	67	69	70	72	72	73	74	74
		5400	18	59	64	66	67	70	72	73	74	75	75	76	77
600	300	648	1	26	32	33	35	37	39	40	42	42	43	44	44
		1944	1	47	52	54	56	58	60	61	63	63	64	65	65
		3240	4	50	56	58	59	62	63	65	66	67	67	68	69
		4536	8	56	61	63	65	67	69	70	71	72	73	74	74
		6480	16	59	64	66	67	70	71	73	74	75	75	76	77

Technical data. Selection tables

RVVQ		Radiated		Dp = 100 Pa			Dp = 250 Pa			Dp = 500 Pa			Dp = 750 Pa			Dp = 1000 Pa		
Size	Q [l/s]	Q [m³/h]	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	
200x100	20	72	<	<	<	<	<	<	25	21	20	29	24	24	31	27	26	
	60	216	23	<	<	29	27	26	37	33	32	40	36	35	43	39	38	
	100	360	29	25	24	35	33	32	43	39	38	46	42	41	49	44	44	
	140	504	33	29	28	39	37	36	47	43	42	51	46	45	53	49	48	
	200	720	38	34	33	44	42	41	52	48	47	56	51	51	58	54	53	
200x150	30	108	<	<	<	20	<	<	28	24	23	32	27	26	34	30	29	
	90	324	26	22	21	32	29	29	40	35	35	43	39	38	46	41	40	
	150	540	32	28	27	38	36	35	46	42	41	49	45	44	52	48	47	
	210	756	37	33	32	43	40	40	51	46	46	54	50	49	57	52	51	
	300	1080	43	39	38	49	47	46	57	52	52	60	56	55	63	58	58	
200x200	40	144	<	<	<	22	20	<	30	26	25	33	29	28	36	31	31	
	120	432	28	24	23	34	32	31	42	37	37	45	41	40	48	43	42	
	200	720	35	31	30	41	38	37	48	44	43	52	47	47	54	50	49	
	280	1008	40	36	35	46	44	43	54	49	49	57	53	52	60	55	55	
	400	1440	48	43	43	54	51	50	61	57	56	65	60	60	67	63	62	
250x100	25	90	<	<	<	<	<	<	27	23	22	30	26	25	33	28	28	
	75	270	25	20	20	31	28	27	39	34	33	42	38	37	44	40	39	
	125	450	31	26	26	37	34	33	45	40	39	48	44	43	51	46	45	
	175	630	35	31	30	41	39	38	49	45	44	53	48	47	55	51	50	
	250	900	41	36	36	47	44	44	55	50	49	58	54	53	61	56	55	
250x150	38	135	<	<	<	22	<	<	30	25	24	33	29	28	36	31	30	
	113	405	28	23	23	34	31	30	41	37	36	45	40	40	47	43	42	
	188	675	34	30	29	40	38	37	48	43	43	51	47	46	54	49	49	
	263	945	40	35	34	45	43	42	53	49	48	57	52	51	59	55	54	
	375	1350	47	42	41	52	50	49	60	56	55	64	59	58	66	62	61	
250x200	50	180	<	<	<	24	21	20	31	27	26	35	30	30	37	33	32	
	150	540	30	26	25	36	33	32	43	39	38	47	42	42	49	45	44	
	250	900	37	33	32	43	40	40	51	46	45	54	50	49	56	52	51	
	350	1260	43	39	38	49	47	46	57	52	52	60	56	55	63	58	57	
	500	1800	52	48	47	58	56	55	66	61	61	69	65	64	72	67	66	
250x250	63	225	<	<	<	25	23	22	33	28	28	36	32	31	38	34	33	
	188	675	32	27	27	38	35	34	45	41	40	48	44	43	51	46	46	
	313	1125	40	35	35	46	43	42	53	49	48	57	52	51	59	55	54	
	438	1575	47	43	42	53	51	50	61	56	56	64	60	59	66	62	61	
	625	2250	57	53	52	63	61	60	71	66	66	74	70	69	77	72	71	
300x200	60	216	<	<	<	25	22	22	32	28	27	36	31	31	38	34	33	
	180	648	31	27	26	37	35	34	45	40	40	48	44	43	51	46	45	
	300	1080	39	35	34	45	43	42	53	48	48	56	52	51	59	54	53	
	420	1512	47	42	41	52	50	49	60	56	55	63	59	58	66	61	60	
	600	2160	57	53	52	63	61	60	71	66	66	74	70	69	77	72	71	
300x250	75	270	20	<	<	26	24	23	34	29	29	37	33	32	39	35	34	
	225	810	33	29	28	39	37	36	47	42	42	50	46	45	52	48	47	
	375	1350	43	38	37	48	46	45	56	51	51	59	55	54	62	57	56	
	525	1890	51	47	46	57	55	54	65	60	60	68	64	63	70	66	65	
	750	2700	54	50	49	60	58	57	68	63	63	71	67	66	73	69	68	

L_p: Sound pressure level of the regenerated noise, in dB(A), considering a room attenuation of 10 dB/oct.

Technical data. Selection tables

RVVQ	Radiated		Dp = 100 Pa			Dp = 250 Pa			Dp = 500 Pa			Dp = 750 Pa			Dp = 1000 Pa		
	Q [l/s]	Q [m³/h]	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC
300x300	90	324	22	<	<	27	25	24	35	30	30	38	34	33	40	36	35
	270	972	35	31	30	41	38	38	49	44	43	52	47	47	54	50	49
	450	1620	46	41	41	52	49	48	59	55	54	62	58	57	65	60	60
	630	2268	55	51	50	61	58	58	68	64	63	72	67	67	74	70	69
	900	3240	58	54	53	64	61	60	71	67	66	75	70	69	77	73	72
400x200	80	288	21	<	<	27	24	23	34	30	29	37	33	32	40	35	35
	240	864	34	30	29	40	37	36	47	43	42	51	46	45	53	49	48
	400	1440	44	39	38	49	47	46	57	53	52	60	56	55	63	58	57
	560	2016	53	49	48	59	56	56	66	62	61	70	65	65	72	68	67
	800	2880	56	52	51	62	59	58	69	65	64	73	68	67	75	71	70
400x300	120	432	23	<	<	29	26	26	36	32	31	40	35	35	42	38	37
	360	1296	39	35	34	45	42	41	52	48	47	55	51	50	58	53	53
	600	2160	53	49	48	59	56	55	66	62	61	69	65	64	72	67	67
	840	3024	56	51	50	61	59	58	69	64	64	72	68	67	74	70	69
	1200	4320	58	54	53	64	62	61	72	67	66	75	70	70	77	73	72
500x250	125	450	24	<	<	29	27	26	37	32	31	40	36	35	42	38	37
	375	1350	40	35	34	45	43	42	53	48	47	56	52	51	58	54	53
	625	2250	54	50	49	60	57	57	67	63	62	71	66	65	73	69	68
	875	3150	57	53	52	63	60	59	70	66	65	73	69	68	76	71	70
	1250	4500	60	55	55	65	63	62	73	68	68	76	72	71	78	74	73
500x300	150	540	25	20	20	30	28	27	38	33	33	41	37	36	43	39	38
	450	1620	43	38	38	48	46	45	56	51	51	59	55	54	61	57	56
	750	2700	53	49	48	59	56	55	66	62	61	70	65	64	72	67	67
	1050	3780	56	51	51	61	59	58	69	64	64	72	68	67	74	70	69
	1500	5400	59	54	53	64	62	61	72	67	66	75	70	70	77	73	72
600x200	120	432	23	<	<	29	26	26	36	32	31	40	35	35	42	38	37
	360	1296	39	35	34	45	42	41	52	48	47	55	51	50	58	53	53
	600	2160	53	49	48	59	56	55	66	62	61	69	65	64	72	67	67
	840	3024	56	51	50	61	59	58	69	64	63	72	68	67	74	70	69
	1200	4320	58	54	53	64	61	61	71	67	66	75	70	70	77	73	72
600x250	150	540	25	20	20	30	28	27	38	33	33	41	37	36	43	39	38
	450	1620	43	38	38	48	46	45	56	51	51	59	55	54	61	57	56
	750	2700	53	49	48	59	56	55	66	62	61	70	65	64	72	67	67
	1050	3780	56	51	51	61	59	58	69	64	64	72	68	67	74	70	69
	1500	5400	59	54	53	64	62	61	72	67	66	75	70	70	77	73	72
600x300	180	648	26	22	21	32	29	28	39	35	34	42	38	37	44	40	39
	540	1944	47	43	42	52	50	49	60	55	55	63	59	58	65	61	60
	900	3240	50	46	45	56	53	53	63	59	58	67	62	61	69	64	64
	1260	4536	56	51	51	61	59	58	69	64	64	72	68	67	74	70	69
	1800	6480	59	54	53	64	61	61	71	67	66	75	70	69	77	73	72

Lp: Sound pressure level of the regenerated noise, in dB(A), considering a room attenuation of 10 dB/oct.

Technical data. Selection tables

Sound spectrum by octave band.

RVVQ	RADIATED		p = 100 Pa								p = 200 Pa								p = 300 Pa								p = 400 Pa								p = 500 Pa									
	LxH [mm]	Q [l/s]	Q [m³/h]	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	
200x100	20	72	< < < < < < < <	< 22	23	24	23	21	< <	< 26	27	27	26	24	< <	< 28	29	29	29	27	21	<	< 30	31	31	31	29	23	<	< 30	31	31	31	29	23	<	< 30	31	31	31	29	23	<	
	60	216	< 28	29	29	29	27	21	<	21	34	35	35	35	33	27	22	25	37	38	39	38	36	30	26	27	40	41	41	41	39	33	28	29	42	43	43	42	40	35	30			
	100	360	21	34	35	35	35	33	27	22	27	40	41	41	40	39	33	28	31	43	44	45	44	42	36	31	33	46	47	47	46	44	39	34	35	48	49	49	48	46	40	36		
	140	504	26	38	39	39	39	37	31	26	32	44	45	45	45	43	37	32	35	48	48	49	48	46	40	36	37	50	51	51	51	49	43	38	39	52	53	53	53	51	45	40		
	200	720	31	43	44	45	44	42	36	31	37	49	50	50	50	48	42	37	40	53	54	54	53	51	45	41	43	55	56	56	56	54	48	43	44	57	58	58	58	56	50	45		
200x150	30	108	< < 20	21	20	< < <	< 25	26	27	26	24	< <	< 29	30	30	29	27	21	<	< 31	32	32	32	30	24	<	20	33	34	34	34	32	26	21	20	33	34	34	34	32	26	21		
	90	324	< 31	32	32	32	30	24	<	24	37	38	38	37	36	30	25	28	40	41	42	41	39	33	28	30	43	44	44	43	41	35	31	32	45	46	46	45	43	37	33			
	150	540	25	37	38	38	38	36	30	25	30	43	44	44	44	42	36	31	34	46	47	48	47	45	39	35	36	49	50	50	50	48	42	37	38	51	52	52	51	50	44	39		
	210	756	29	42	43	43	43	41	35	30	35	48	49	49	48	46	41	36	39	51	52	53	52	50	44	39	41	54	55	55	54	52	46	42	43	56	57	57	56	54	48	44		
	300	1080	35	48	49	49	49	47	41	36	41	54	55	55	55	53	47	42	45	57	58	59	58	56	50	45	47	60	61	61	60	58	53	48	49	62	63	63	62	60	54	50		
200x200	40	144	< 21	22	23	22	20	< <	< 27	28	28	28	26	20	<	< 30	31	32	31	29	23	<	20	33	34	34	34	32	26	21	22	35	36	36	36	34	28	23						
	120	432	20	33	34	34	34	32	26	21	26	39	40	40	40	38	32	27	30	42	43	44	43	41	35	30	32	45	46	46	45	43	37	33	34	47	48	48	47	45	39	35		
	200	720	27	40	41	41	40	38	32	28	33	45	46	47	46	44	38	34	36	49	50	50	50	48	42	37	39	51	52	53	52	50	44	40	41	53	54	55	54	52	46	41		
	280	1008	33	45	46	46	46	44	38	33	38	51	52	52	52	50	44	39	42	54	55	56	55	53	47	43	44	57	58	58	57	56	50	45	46	59	60	60	59	57	51	47		
	400	1440	40	52	53	54	53	51	45	41	46	58	59	60	59	57	51	47	49	62	63	63	62	60	55	50	52	64	65	66	65	63	57	52	54	66	67	67	67	65	59	54		
250x100	25	90	< < < < < < < <	< 24	25	25	25	23	< <	< 27	28	29	28	26	20	<	< 30	31	31	30	29	23	<	< 32	33	33	32	30	25	20	< 32	33	33	32	30	25	20	< 32	33	33	32	30	25	20
	75	270	< 30	30	31	30	28	22	18	23	35	36	37	36	34	28	24	26	39	40	40	40	38	32	27	29	41	42	43	42	40	34	30	31	43	44	45	44	42	36	31			
	125	450	23	36	36	37	36	34	28	24	29	41	42	43	42	40	34	30	32	45	46	46	46	44	38	33	35	47	48	49	48	46	40	36	37	49	50	51	50	48	42	38		
	167	600	27	39	40	41	40	38	32	28	33	45	46	47	46	44	38	34	36	49	50	50	50	48	42	37	39	51	52	53	52	50	44	39	41	53	54	55	54	52	46	41		
	250	900	33	46	47	47	46	44	38	34	39	52	52	53	52	50	44	40	42	55	56	56	56	54	48	43	45	57	58	59	58	56	50	46	47	59	60	61	60	58	52	48		
250x150	38	135	< 21	22	22	22	20	< <	< 27	28	28	27	25	20	<	< 30	31	31	31	29	23	<	20	32	33	34	33	31	25	21	22	34	35	36	35	33	27	23						
	113	405	20	32	33	34	33	31	25	21	26	38	39	40	39	37	31	27	29	42	43	43	42	41	35	30	32	44	45	46	45	43	37	32	34	46	47	47	47	45	39	34		
	188	675	27	39	40	40	40	38	32	27	32	45	46	46	46	44	38	33	36	48	49	50	49	47	41	37	38	51	52	52	51	50	44	39	40	53	54	54	53	51	45	41		
	263	945	32	44	45	46	45	43	37	32	38	50	51	52	51	49	43	38	41	54	55	55	54	52	46	42	43	56	57	57	57	55	49	44	45	58	59	59	59	57	51	46		
	375	1350	39	51	52	53	52	50	44	40	45	57	58	59	58	56	50	45	48	61	62	62	61	59	53	49	51	63	64	64	64	62	56	51	52	65	66	66	66	64	58	53		
250x200	50	180	< 23	24	24	23	21	< <	< 28	29	30	29	27	21	<	< 32	33	33	33	31	25	20	22	34	35	36	35	33	27	23	24	36	37	38	37	35	29	24						
	150	540	22	35	36	36	35	33	28	23	28	40	41	42	41	39	33	29	31	44	45	45	45	43	37	32	34	46	47	48	47	45	39	34	36	48	49	49	49	47	41	36		
	250	900	29	42	43	43	43	41	35	30	35	48	49	49	48	46	41	36	39	51	52	52	52	50	44	39	41	54	55	55	54	52	46	42	43	56	57	57	56	54	48	44		
	350	1260	36	48	49	50	49	47	41	36	41	54	55	55	55	53	47	42	45	57	58	59	58	56	50	46	47	60	61	61	60	59	53	48	49	62	63	63	62	60	54	50		
	500	1800	45	57	58	59	58	56	50	45	50	63	64	64	64	62	56	51	54	66	67	68	67	65	59	55	56	69	70	70	70	68	62	57	58	71	72	72	71	69	63	59		
250x250	63	225	< < 25	25	25	23	< <	< 30	31	31	31	29	23	<	21	33	34	35	34	32	26	21	23	36	37	37	36	34	28	24	25	37	38	39	38	36	30	26						
	188	675	24	36	37	38	37	35	29	25	30	42	43	44	43	41	35	30	33	46	47	47	46	44	38	34	35	48	49	49	49	47	41	36	37	50	51	51	51	49	43	38		
	313	1125	32	45	46	46	45	43	37	33	38	50	51	52	51	49	43	39	41	54	55	55	54	53	47	42	44	56	57	58	57	55	49	44	45	58	59	59	59	57	51	46		
	438	1575	40	52	53	53	53	51	45	40	45	58	59	59	59	57	51	46	49	61	62	63	62	60	54	49	51	64	65	65	64	62	56	52	53	65	66	67	66	64	58	54		
	625	2250	50	62	63	64	63	61	55	50	55	68	69	69	69	67	61	56	59	71	72	73	72	70	64	60	61	74	75	75	74	72	67	62	63	76	76	77	76	74	68	64		
300x200	60	216	< 24	25	25	25	23	< <	< 30	31	31	30	28	22	<	20	33	34	34	32	26	21	23	35	36	37	36	34	28	24	25	37	38	39	38	36	30	25						
	180	648	24	36	37	38	37	35	29	24	29	42	43	43	43	41	35	30	33	45	46	47	46	44	38	34	35	48	49	49	48	46	41	36	37	50	50	51	50	48	42	38		
	300	1080	32																																									

Technical data. Selection tables

Sound spectrum by octave band.

RVVQ	RADIATED		p = 600 Pa								p = 700 Pa								p = 800 Pa								p = 900 Pa								p = 1000 Pa							
	LxH [mm]	Q [l/s]	Q [m³/h]	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000
200x100	20	72	19	32	33	33	32	30	24	20	20	33	34	34	34	32	26	21	22	34	35	35	33	27	22	23	35	36	36	36	34	28	23	24	36	37	37	37	35	29	24	
	60	216	31	43	44	45	44	42	36	32	32	45	46	46	45	43	37	33	33	46	47	47	47	45	39	34	34	47	48	48	48	46	40	35	35	48	49	49	48	46	41	36
	100	360	37	49	50	51	50	48	42	37	38	51	51	52	51	49	43	39	39	52	53	53	52	50	45	40	40	53	54	54	53	51	46	41	41	54	55	55	54	52	46	42
	140	504	41	53	54	55	54	52	46	42	42	55	56	56	56	54	48	43	43	56	57	57	57	55	49	44	44	57	58	58	58	56	50	45	45	58	59	59	59	57	51	46
	200	720	46	59	60	60	59	57	51	47	47	60	61	61	61	59	53	48	49	61	62	62	62	60	54	49	50	62	63	63	63	61	55	50	50	63	64	64	64	62	56	51
200x150	30	108	22	34	35	36	35	33	27	23	23	36	37	37	37	35	29	24	24	37	38	38	38	36	30	25	25	38	39	39	39	37	31	26	26	39	40	40	40	38	32	27
	90	324	34	46	47	47	47	45	39	34	35	47	48	49	48	46	40	36	36	49	49	50	49	47	41	37	37	50	50	51	50	48	42	38	38	50	51	52	51	49	43	39
	150	540	40	52	53	54	53	51	45	41	41	54	55	55	54	52	46	42	42	55	56	56	55	54	48	43	43	56	57	57	56	55	49	44	44	57	58	58	57	55	49	45
	210	756	45	57	58	58	58	56	50	45	46	58	59	60	59	57	51	47	47	60	60	61	60	58	52	48	48	61	61	62	61	59	53	49	49	61	62	63	62	60	54	50
	300	1080	51	63	64	65	64	62	56	51	52	64	65	66	65	63	57	53	53	66	67	67	66	64	58	54	54	67	68	68	67	65	59	55	55	67	68	69	68	66	60	56
200x200	40	144	24	36	37	38	37	35	29	25	25	38	39	39	38	36	30	26	26	39	40	40	39	38	32	27	27	40	41	41	40	39	33	28	28	41	42	42	41	39	33	29
	120	432	36	48	49	49	49	47	41	36	37	49	50	51	50	48	42	38	38	50	51	52	51	49	43	39	39	51	52	53	52	50	44	40	40	52	53	54	53	51	45	41
	200	720	42	55	56	56	55	54	48	43	44	56	57	57	57	55	49	44	45	57	58	59	58	56	50	45	46	58	59	60	59	57	51	46	47	59	60	60	60	58	52	47
	280	1008	48	60	61	62	61	59	53	48	49	61	62	63	62	60	54	50	50	63	64	64	63	61	55	51	51	64	65	65	64	62	56	52	52	64	65	66	65	63	57	53
	400	1440	55	68	69	69	68	66	60	56	56	69	70	70	70	68	62	57	57	70	71	71	71	69	63	58	58	71	72	72	72	70	64	59	59	72	73	73	73	71	65	60
250x100	25	90	21	33	34	35	34	32	26	21	22	35	35	36	35	33	27	23	23	36	37	37	36	34	29	24	24	37	38	38	37	35	30	25	25	38	39	39	38	36	30	26
	75	270	32	45	46	46	46	44	38	33	34	46	47	48	47	45	39	34	35	47	48	49	48	46	40	36	36	48	49	50	49	47	41	37	37	49	50	51	50	48	42	37
	125	450	38	51	52	52	52	50	44	39	40	52	53	54	53	51	45	40	41	53	54	55	54	52	46	42	42	54	55	56	55	53	47	43	43	55	56	57	56	54	48	43
	167	600	42	55	56	56	55	53	48	43	44	56	57	57	57	55	49	44	45	57	58	59	58	56	50	45	46	58	59	60	59	57	51	46	47	59	60	60	60	58	52	47
	250	900	48	61	62	62	62	60	54	49	50	62	63	64	63	61	55	50	51	63	64	65	64	62	56	52	52	64	65	66	65	63	57	53	53	65	66	67	66	64	58	54
250x150	38	135	23	36	37	37	37	35	29	24	25	37	38	39	38	36	30	25	26	38	39	40	39	37	31	27	27	39	40	41	40	38	32	28	28	40	41	42	41	39	33	28
	113	405	35	48	49	49	48	46	40	36	36	49	50	50	50	48	42	37	38	50	51	51	51	49	43	38	39	51	52	52	52	50	44	39	39	52	53	53	53	51	45	40
	188	675	42	54	55	56	55	53	47	42	43	55	56	57	56	54	48	44	44	57	58	58	57	55	49	45	45	58	59	59	58	56	50	46	46	58	59	60	59	57	51	47
	263	945	47	59	60	61	60	58	52	48	48	61	62	62	61	59	54	49	49	62	63	63	63	61	55	50	50	63	64	64	64	62	56	51	51	64	65	65	64	62	57	52
	375	1350	54	66	67	68	67	65	59	55	55	68	69	69	68	67	61	56	56	69	70	70	70	68	62	57	57	70	71	71	71	69	63	58	58	71	72	72	72	70	64	59
250x200	50	180	25	38	39	39	38	36	31	26	26	39	40	40	40	38	32	27	28	40	41	41	41	39	33	28	29	41	42	42	42	40	34	29	29	42	43	43	43	41	35	30
	150	540	37	50	51	51	50	48	42	38	38	51	52	52	52	50	44	39	40	52	53	53	53	51	45	40	41	53	54	54	54	52	46	41	41	54	55	55	55	53	47	42
	250	900	44	57	58	58	58	56	50	45	46	58	59	60	59	57	51	46	47	59	60	61	60	58	52	48	48	60	61	62	61	59	53	49	49	61	62	63	62	60	54	49
	350	1260	51	63	64	65	64	62	56	51	52	64	65	66	65	63	57	53	53	66	67	67	66	64	58	54	54	67	68	68	67	65	59	55	55	67	68	69	68	66	60	56
	500	1800	60	72	73	74	73	71	65	60	61	73	74	75	74	72	66	62	62	75	76	76	75	73	67	63	63	76	77	77	76	74	68	64	64	76	77	78	77	75	69	65
250x250	63	225	26	39	40	40	40	38	32	27	28	40	41	42	41	39	33	28	29	41	42	43	42	40	34	30	30	42	43	44	43	41	35	31	31	43	44	45	44	42	36	31
	188	675	39	51	52	53	52	50	44	40	40	53	54	54	53	51	46	41	41	54	55	55	55	53	47	42	42	55	56	56	55	54	48	43	43	56	57	57	56	54	48	44
	313	1125	47	59	60	61	60	58	52	48	48	61	62	62	62	60	54	49	49	62	63	63	63	61	55	50	50	63	64	64	64	62	56	51	51	64	65	65	64	63	57	52
	438	1575	54	67	68	68	68	66	60	55	56	68	69	70	69	67	61	56	57	69	70	71	70	68	62	58	58	70	71	72	71	69	63	59	59	71	72	73	72	70	64	59
	625	2250	65	77	78	78	78	76	70	65	66	78	79	80	79	77	71	67	67	79	80	81	80	78	72	68	68	80	81	82	81	79	73	69	69	81	82	83	82	80	74	70
300x200	60	216	26	39	40	40	39	38	32	27	28	40	41	41	41	39	33	28	29	41	42	43	42	40	34	29	30	42	43	43	43	41	35	30	30	43	44	44	44	42	36	31
	180	648	39	51	52	52	52	50	44	39	40	52	53	54	53	51	45	41	41	53	54	55	54	52	46	42	42	54	55	56	55	53	47	43	43	55	56	57	56	54	48	44
	300	1080	46	59	60	60																																				

Technical data. Selection tables

Sound spectrum by octave band.

RVVQ	RADIATED		p = 100 Pa							p = 200 Pa							p = 300 Pa							p = 400 Pa							p = 500 Pa											
	LxH [mm]	Q [l/s]	Q [m³/h]	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000
300x300	90	324	<	26	27	28	27	25	<	<	<	32	33	33	33	31	25	20	23	35	36	37	36	34	28	24	25	38	39	39	38	36	31	26	27	40	40	41	40	38	32	28
	270	972	28	40	41	41	41	39	33	28	33	46	47	47	46	44	39	34	37	49	50	50	50	48	42	37	39	51	52	53	52	50	44	40	41	53	54	55	54	52	46	41
	450	1620	38	51	52	52	51	49	43	39	44	56	57	58	57	55	49	45	47	60	61	61	60	58	52	48	49	62	63	63	63	61	55	50	51	64	65	65	65	63	57	52
	630	2268	47	60	61	61	61	59	53	48	53	66	67	67	66	64	58	54	56	69	70	70	70	68	62	57	59	71	72	73	72	70	64	60	61	73	74	75	74	72	66	61
	900	3240	50	63	64	64	64	62	56	51	56	69	69	70	69	67	61	57	59	72	73	73	73	71	65	60	62	74	75	76	75	73	67	62	64	76	77	77	77	75	69	64
400x200	80	288	<	26	27	27	26	24	<	<	<	31	32	33	32	30	24	20	22	35	36	36	35	33	28	23	25	37	38	38	38	36	30	25	26	39	40	40	40	38	32	27
	240	864	26	39	40	40	40	38	32	27	32	44	45	46	45	43	37	33	35	48	49	49	49	47	41	36	38	50	51	52	51	49	43	38	40	52	53	53	53	51	45	40
	400	1440	36	48	49	50	49	47	41	37	42	54	55	55	55	53	47	42	45	57	58	59	58	56	50	46	47	60	61	61	61	59	53	48	49	62	63	63	62	60	55	50
	560	2016	45	58	59	59	59	57	51	46	51	64	65	65	64	62	56	52	54	67	68	68	68	66	60	55	57	69	70	71	70	68	62	58	59	71	72	73	72	70	64	59
	800	2880	48	61	62	62	61	59	54	49	54	66	67	68	67	65	59	55	57	70	71	71	70	68	63	58	60	72	73	73	73	71	65	60	61	74	75	75	75	73	67	62
400x300	120	432	<	28	29	29	29	27	21	<	21	34	35	35	34	32	27	22	24	37	38	38	38	36	30	25	27	39	40	41	40	38	32	28	29	41	42	43	42	40	34	29
	360	1296	31	44	45	45	44	43	37	32	37	49	50	51	50	48	42	38	40	53	54	54	53	51	46	41	43	55	56	56	56	54	48	43	44	57	58	58	58	56	50	45
	600	2160	45	58	59	59	59	57	51	46	51	63	64	65	64	62	56	52	54	67	68	68	67	65	60	55	57	69	70	70	70	68	62	57	58	71	72	72	72	70	64	59
	840	3024	48	60	61	62	61	59	53	49	54	66	67	67	67	65	59	54	57	69	70	71	70	68	62	58	59	72	73	73	72	70	65	60	61	74	74	75	74	72	66	62
	1200	4320	51	63	64	65	64	62	56	51	56	69	70	70	70	68	62	57	60	72	73	74	73	71	65	60	62	74	75	76	75	73	67	63	64	76	77	78	77	75	69	65
500x250	125	450	<	28	29	30	29	27	21	<	21	34	35	35	35	33	27	22	25	37	38	39	38	36	30	25	27	40	41	41	40	38	32	28	29	41	42	43	42	40	34	30
	375	1350	32	44	45	46	45	43	37	33	37	50	51	51	51	49	43	38	41	53	54	55	54	52	46	42	43	56	57	57	56	54	48	44	45	57	58	59	58	56	50	46
	625	2250	47	59	60	60	60	58	52	47	52	65	66	66	65	63	58	53	55	68	69	69	69	67	61	56	58	70	71	72	71	69	63	59	60	72	73	74	73	71	65	60
	875	3150	49	62	63	63	62	60	55	50	55	67	68	69	68	66	60	56	58	71	72	72	71	69	63	59	60	73	74	74	74	72	66	61	62	75	76	76	75	74	68	63
	1250	4500	52	64	65	66	65	63	57	53	58	70	71	71	71	69	63	58	61	73	74	75	74	72	66	62	63	76	77	77	76	75	69	64	65	78	78	79	78	76	70	66
500x300	150	540	<	29	30	31	30	28	22	<	23	35	36	36	36	34	28	23	26	38	39	40	39	37	31	27	28	41	42	42	41	39	34	29	30	42	43	44	43	41	35	31
	450	1620	35	48	49	49	48	46	40	36	41	53	54	55	54	52	46	41	44	56	57	58	57	55	49	45	46	59	60	60	59	58	52	47	48	61	61	62	61	59	53	49
	750	2700	45	58	59	59	59	57	51	46	51	64	65	65	64	62	56	52	54	67	68	68	68	66	60	55	57	69	70	71	70	68	62	57	58	71	72	72	72	70	64	59
	1050	3780	48	61	61	62	61	59	53	49	54	66	67	68	67	65	59	54	57	69	70	71	70	68	62	58	59	72	73	73	72	71	65	60	61	74	74	75	74	72	66	62
	1500	5400	51	63	64	65	64	62	56	51	56	69	70	70	70	68	62	57	60	72	73	73	73	71	65	60	62	74	75	76	75	73	67	63	64	76	77	78	77	75	69	64
600x200	120	432	<	28	29	29	29	27	21	<	21	34	35	35	34	32	27	22	24	37	38	38	38	36	30	25	27	39	40	41	40	38	32	28	29	41	42	43	42	40	34	29
	360	1296	31	44	45	45	44	43	37	32	37	49	50	51	50	48	42	38	40	53	54	54	53	51	46	41	43	55	56	56	56	54	48	43	44	57	58	58	58	56	50	45
	600	2160	45	58	59	59	59	57	51	46	51	63	64	65	64	62	56	52	54	67	68	68	67	65	60	55	57	69	70	70	70	68	62	57	58	71	72	72	72	70	64	59
	840	3024	48	60	61	62	61	59	53	49	53	66	67	67	67	65	59	54	57	69	70	71	70	68	62	58	59	72	73	73	72	70	64	60	61	73	74	75	74	72	66	62
	1200	4320	51	63	64	65	64	62	56	51	56	69	70	70	70	68	62	57	60	72	73	73	73	71	65	60	62	74	75	76	75	73	67	63	64	76	77	78	77	75	69	64
600x250	150	540	<	29	30	31	30	28	22	<	23	35	36	36	36	34	28	23	26	38	39	40	39	37	31	27	28	41	42	42	41	39	34	29	30	42	43	44	43	41	35	31
	450	1620	35	48	49	49	48	46	40	36	41	53	54	55	54	52	46	41	44	56	57	58	57	55	49	45	46	59	60	60	59	58	52	47	48	61	61	62	61	59	53	49
	750	2700	45	58	59	59	59	57	51	46	51	64	65	65	64	62	56	52	54	67	68	68	68	66	60	55	57	69	70	71	70	68	62	57	58	71	72	72	72	70	64	59
	1050	3780	48	61	61	62	61	59	53	49	54	66	67	68	67	65	59	54	57	69	70	71	70	68	62	58	59	72	73	73	72	71	65	60	61	74	74	75	74	72	66	62
	1500	5400	51	63	64	65	64	62	56	51	56	69	70	70	70	68	62	57	60	72	73	73	73	71	65	60	62	74	75	76	75	73	67	63	64	76	77	78	77	75	69	64
600x300	180	648	<	31	32	32	31	29	24	<	24	36	37	38	37	35	29	25	27	40	40	41	40	38	32	28	29	42	43	43	43	41	35	30	31	44	45	45	44	42	36	32
	540	1944	39	52	53	53	52	50	45	40	45	57	58	59	58	56	50	45	48	60	61	62	61	59	53	49	50	63	64	64	64	62	56	51	52	65	65	66	65	63	57	53
	900	3240	43																																							

Technical data. Selection tables

Sound spectrum by octave band.

RVVQ	RADIATED		p = 600 Pa								p = 700 Pa								p = 800 Pa								p = 900 Pa								p = 1000 Pa							
	LxH [mm]	Q [l/s]	Q [m³/h]	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000
300x300	90	324	29	41	42	42	42	40	34	29	30	42	43	44	43	41	35	31	31	43	44	45	44	42	36	32	32	44	45	46	45	43	37	33	33	45	46	47	46	44	38	33
	270	972	42	55	56	56	55	54	48	43	44	56	57	57	57	55	49	44	45	57	58	58	58	56	50	45	46	58	59	59	59	57	51	46	46	59	60	60	60	58	52	47
	450	1620	53	65	66	67	66	64	58	54	54	67	68	68	67	65	59	55	55	68	69	69	68	66	61	56	56	69	70	70	69	67	62	57	57	70	70	71	70	68	62	58
	630	2268	62	75	76	76	75	73	67	63	63	76	77	77	77	75	69	64	64	77	78	78	78	76	70	65	65	78	79	79	79	77	71	66	66	79	80	80	80	78	72	67
	900	3240	65	78	78	79	78	76	70	66	66	79	80	80	80	78	72	67	67	80	81	81	81	79	73	68	68	81	82	82	82	80	74	69	69	82	83	83	82	81	75	70
400x200	80	288	28	40	41	42	41	39	33	29	29	42	43	43	42	40	34	30	30	43	44	44	43	42	36	31	31	44	45	45	44	42	37	32	32	45	46	46	45	43	37	33
	240	864	41	54	54	55	54	52	46	42	42	55	56	56	56	54	48	43	43	56	57	57	57	55	49	44	44	57	58	58	58	56	50	45	45	58	59	59	59	57	51	46
	400	1440	51	63	64	65	64	62	56	51	52	64	65	66	65	63	57	53	53	66	67	67	66	64	58	54	54	67	68	68	67	65	59	55	55	68	69	69	68	66	60	56
	560	2016	60	73	74	74	73	71	66	61	61	74	75	75	75	73	67	62	63	75	76	76	76	74	68	63	63	76	77	77	77	75	69	64	64	77	78	78	78	76	70	65
	800	2880	63	75	76	77	76	74	68	64	64	77	78	78	77	75	70	65	65	78	79	79	79	77	71	66	66	79	80	80	80	78	72	67	67	80	81	81	80	78	72	68
400x300	120	432	30	43	44	44	43	41	35	31	31	44	45	45	45	43	37	32	32	45	46	46	46	44	38	33	33	46	47	47	47	45	39	34	34	47	48	48	48	46	40	35
	360	1296	46	58	59	60	59	57	51	47	47	60	60	61	60	58	52	48	48	61	62	62	61	59	53	49	49	62	63	63	62	60	54	50	50	62	63	64	63	61	55	51
	600	2160	60	72	73	74	73	71	65	61	61	74	75	75	74	72	66	62	62	75	76	76	75	73	68	63	63	76	77	77	76	74	68	64	64	76	77	78	77	75	69	65
	840	3024	62	75	76	76	76	74	68	63	64	76	77	78	77	75	69	64	65	77	78	79	78	76	70	66	66	78	79	80	79	77	71	67	67	79	80	81	80	78	72	67
	1200	4320	65	78	79	79	79	77	71	66	67	79	80	80	80	78	72	67	68	80	81	82	81	79	73	68	69	81	82	82	82	80	74	69	69	82	83	83	83	81	75	70
500x250	125	450	30	43	44	44	44	42	36	31	32	44	45	45	45	43	37	32	33	45	46	47	46	44	38	33	34	46	47	48	47	45	39	34	34	47	48	48	48	46	40	35
	375	1350	46	59	60	60	60	58	52	47	48	60	61	62	61	59	53	48	49	61	62	63	62	60	54	49	50	62	63	64	63	61	55	50	51	63	64	64	64	62	56	51
	625	2250	61	74	75	75	74	72	66	62	62	75	76	76	76	74	68	63	63	76	77	77	77	75	69	64	64	77	78	78	78	76	70	65	65	78	79	79	78	77	71	66
	875	3150	64	76	77	78	77	75	69	64	65	77	78	79	78	76	70	66	66	79	80	80	79	77	71	67	67	80	81	81	80	78	72	68	68	81	82	81	80	79	73	69
	1250	4500	67	79	80	80	80	78	72	67	68	80	81	82	81	79	73	68	69	81	82	83	82	80	74	70	70	82	83	84	83	81	75	71	71	83	84	85	84	82	76	71
500x300	150	540	31	44	45	45	45	43	37	32	33	45	46	47	46	44	38	33	34	46	47	48	47	45	39	34	35	47	48	49	48	46	40	35	36	48	49	49	49	47	41	36
	450	1620	50	62	63	63	63	61	55	50	51	63	64	65	64	62	56	51	52	64	65	66	65	63	57	53	53	65	66	67	66	64	58	54	54	66	67	68	67	65	59	54
	750	2700	60	72	73	74	73	71	65	61	61	74	75	75	74	72	67	62	62	75	76	76	76	74	68	63	63	76	77	77	76	74	69	64	64	77	78	78	77	75	69	65
	1050	3780	62	75	76	76	76	74	68	63	64	76	77	78	77	75	69	64	65	77	78	79	78	76	70	66	66	78	79	80	79	77	71	66	67	79	80	81	80	78	72	67
	1500	5400	65	78	79	79	78	76	71	66	66	79	80	80	80	78	72	67	68	80	81	81	81	79	73	68	68	81	82	82	82	80	74	69	69	82	83	83	83	81	75	70
600x200	120	432	30	43	44	44	43	41	35	31	31	44	45	45	45	43	37	32	32	45	46	46	46	44	38	33	33	46	47	47	47	45	39	34	34	47	48	48	48	46	40	35
	360	1296	46	58	59	60	59	57	51	47	47	60	60	61	60	58	52	48	48	61	62	62	61	59	53	49	49	62	63	63	62	60	54	50	50	62	63	64	63	61	55	51
	600	2160	60	72	73	74	73	71	65	61	61	74	75	75	74	72	66	62	62	75	76	76	75	73	68	63	63	76	77	77	76	74	68	64	64	76	77	78	77	75	69	65
	840	3024	62	75	76	76	76	74	68	63	64	76	77	78	77	75	69	64	65	77	78	79	78	76	70	65	66	78	79	80	79	77	71	66	67	79	80	80	80	78	72	67
	1200	4320	65	78	79	79	78	76	71	66	66	79	80	80	80	78	72	67	68	80	81	81	81	79	73	68	69	81	82	82	82	80	74	69	69	82	83	83	83	81	75	70
600x250	150	540	31	44	45	45	45	43	37	32	33	45	46	47	46	44	38	33	34	46	47	48	47	45	39	34	35	47	48	49	48	46	40	35	36	48	49	49	49	47	41	36
	450	1620	50	62	63	63	63	61	55	50	51	63	64	65	64	62	56	51	52	64	65	66	65	63	57	53	53	65	66	67	66	64	58	54	54	66	67	68	67	65	59	54
	750	2700	60	72	73	74	73	71	65	61	61	74	75	75	74	72	67	62	62	75	76	76	76	74	68	63	63	76	77	77	76	74	69	64	64	77	78	78	77	75	69	65
	1050	3780	62	75	76	76	76	74	68	63	64	76	77	78	77	75	69	64	65	77	78	79	78	76	70	66	66	78	79	80	79	77	71	66	67	79	80	81	80	78	72	67
	1500	5400	65	78	79	79	78	76	71	66	66	79	80	80	80	78	72	67	68	80	81	81	81	79	73	68	68	81	82	82	82	80	74	69	69	82	83	83	83	81	75	70
600x300	180	648	33	45	46	46	46	44	38	33	34	46	47	48	47	45	39	35	35	47	48	49	48	46	40	36	36	48	49	50	49	47	41	37	37	49	50	51	50	48	42	37
	540	1944	54	66	67	67	67	65	59	54	55	67	68	69	68	66	60	55	56	68	69	70	69	67	61	57	57	69	70	71	70	68	62	57	58	70	71	71	71	69	63	58
	900</																																									

VAV regulator, JVR model



Description

The KOOLAIR JVR variable air volume regulators are rectangular control units for use in variable air volume flow systems and single-duct installations. The regulators consist of an air inlet connection manufactured of galvanised sheet and fitted with a cross-shaped sensor that has differential pressure inlets. The control damper has opposed, aerodynamic blades and is manufactured of aluminium. The damper body includes internal airtight seals around its entire perimeter to ensure excellent air tightness. The blades are operated by a gear mechanism to achieve proper friction. The VAV regulator can be fitted with fibreglass thermal-acoustic insulation internally (JVR-DS regulator) upon request. The minimum pressures for equipment setup depend on the actuator sensor accuracy. There is the possibility, on request, variable volume flow controller, model JVR-C3, JVR-C3-D achieving class “C” and “3” air leakage through the controller housing and the opening/closing blades.



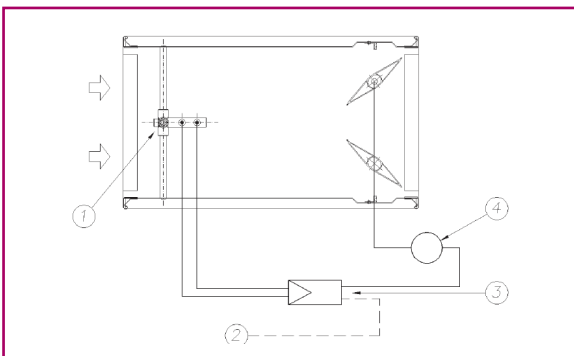
Applications

The JVR regulator is installed to supply variable air volume flow to the room, based on variations in the thermal loads or demands of the room. The unit can also be installed for the purpose of controlling the return of air from a room as a function of the incoming air volume, such that the volume maintains a certain level of over pressure or under pressure with respect to the adjacent rooms.

Control

The air flow regulation is electronic. The control assembly for JVR VAV regulators is composed of the following:

- 1- Differential pressure sensor.
- 2- Temperature sensor (not included in the regulator).
- 3- Controller that receives signals from the temperature and differential pressure sensors.
- 4- Actuator to modulate the volume control damper, based on the signal received by the regulator 5.



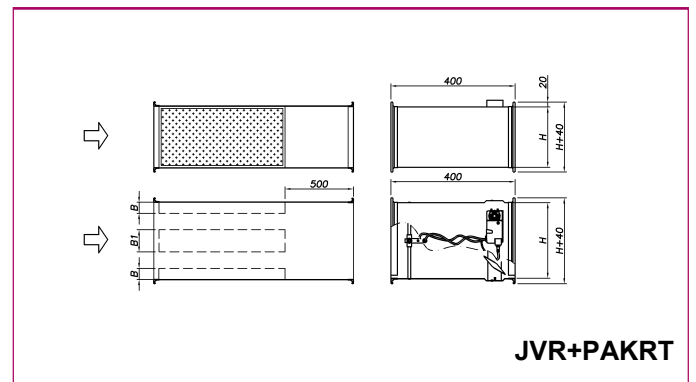
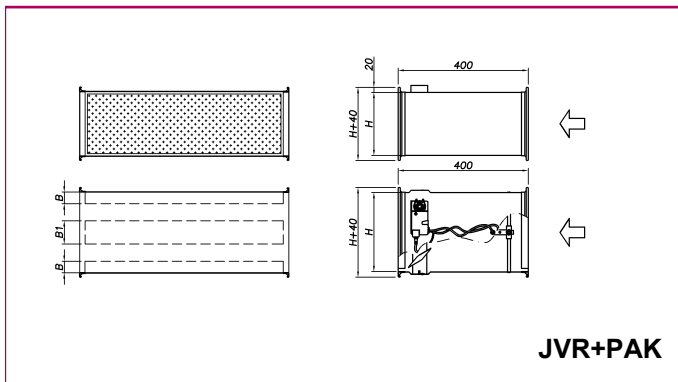
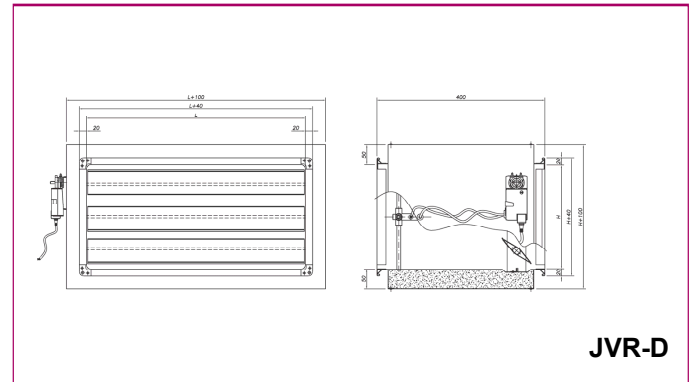
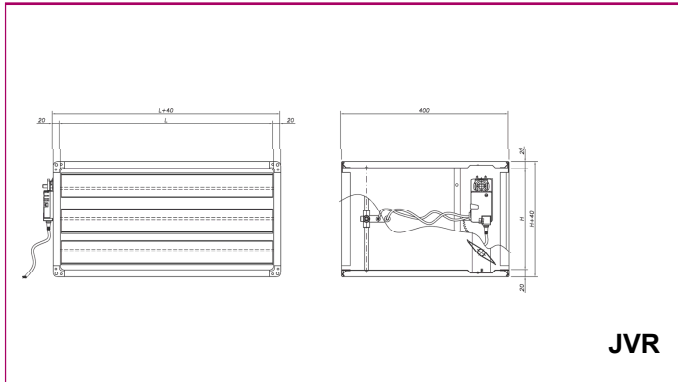
The VAV regulator and the actuator are combined in a compact part that includes both functions. The desired maximum and minimum flow rates are set in the VAV regulator and controlled by the actuator according to the signal from the differential pressure sensor; this signal is then converted by the regulator into a flow set point. The VAV regulator varies the air volume within these limits, based on the signal received from the temperature sensor. Flow adjustments and operating tests of all units are performed at Koolair.

Normative

The variable volume flow controller, model JVR-C3, JVR-C3-D, meets the specifications set out in EN 1751, achieving class “C” and “3” air leakage through the controller housing and the opening/closing blades.

Models and dimensions

The dimensions indicated below are standard sizes for the JVR, JVR-D, JVR+PAK and JVR+PAKRT (internally insulated) VAV regulators.

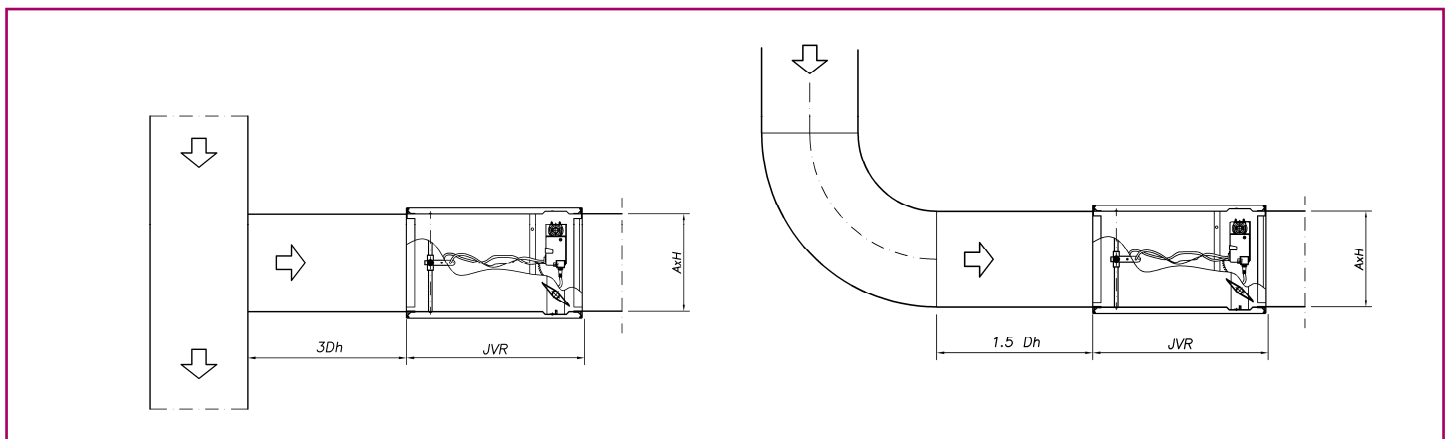


The standard dimensions of JVR are manufactured in widths of 200 to 1200 mm, in 50-mm increments (dimension L). The dimensions range from 100 to 1050 mm, in 50-mm increments (dimension H).

Installation requirements.

To ensure that the differential pressure sensor reading is correct and corresponds to the air flow measurement, the air distribution must achieve a minimum level of uniformity at the JVR inlet. As such, it is recommended that for volume flow regulators situated close to both branches and 90° bends there be a minimum length of straight duct before the unit inlet: the recommended distances are shown in the diagrams below.

Dh, indicates the hydraulic diameter of the rectangular duct, calculated as follows: $Dh = 2 \cdot A \cdot H / (A + H)$.



Technical data. Selection tables

Table of technical data. Sound power level and pressure drop.

In the following table, it obtains the sound pressure level, considering a damping reflection and absorption 10 dB/oct local.

JVR		Regenerated		Lp - dB(A) a p [Pa] =											
LxH [mm]		Q [m³/h]	DP _{min} [Pa]	100	200	250	300	400	500	600	700	750	800	900	1000
400	400	576	1	37	42	44	46	48	50	51	53	53	54	55	55
		1728	2	45	51	53	54	56	58	60	61	61	62	63	64
		2880	4	49	55	56	58	60	62	63	65	65	66	67	68
		4032	9	52	57	59	60	63	64	66	67	68	68	69	70
		5760	17	54	60	62	63	65	67	69	70	70	71	72	73
500	400	720	1	37	43	44	46	48	50	51	53	53	54	55	55
		2160	1	45	50	52	54	56	58	59	61	61	62	63	63
		3600	4	49	54	56	57	60	62	63	64	65	65	66	67
		5040	7	51	57	58	60	62	64	65	67	67	68	69	70
		7200	15	54	59	61	62	65	67	68	69	70	70	71	72
500	500	900	1	37	42	44	46	48	50	51	52	53	53	54	55
		2700	1	45	50	52	53	56	57	59	60	61	61	62	63
		4500	3	48	54	56	57	59	61	62	64	64	65	66	66
		6300	6	51	56	58	59	62	63	65	66	67	67	68	69
		9000	13	53	59	60	62	64	66	67	69	69	70	71	71
600	400	864	1	37	42	44	46	48	50	51	52	53	53	54	55
		2592	1	45	50	52	53	56	58	59	60	61	61	62	63
		4320	3	48	54	56	57	59	61	63	64	64	65	66	67
		6048	6	51	56	58	59	62	63	65	66	67	67	68	69
		8640	13	53	59	60	62	64	66	67	69	69	70	71	71
600	450	972	1	37	42	44	46	48	50	51	52	53	53	54	55
		2916	1	45	50	52	53	55	57	59	60	60	61	62	63
		4860	3	48	54	55	57	59	61	62	63	64	65	65	66
		6804	6	50	56	58	59	61	63	65	66	66	67	68	69
		9720	12	53	58	60	62	64	66	67	68	69	69	70	71
600	500	1080	1	37	42	44	46	48	50	51	52	53	53	54	55
		3240	1	44	50	52	53	55	57	58	60	60	61	62	62
		5400	3	48	53	55	56	59	60	62	63	64	64	65	66
		7560	5	50	56	57	59	61	63	64	65	66	66	67	68
		10800	11	53	58	60	61	63	65	67	68	68	69	70	71
600	550	1188	1	37	42	44	45	48	49	51	52	53	53	54	55
		3564	1	44	50	51	53	55	57	58	59	60	60	61	62
		5940	3	48	53	55	56	58	60	62	63	63	64	65	66
		8316	5	50	55	57	58	61	62	64	65	66	66	67	68
		11880	10	52	58	59	61	63	65	66	67	68	69	69	70
600	600	1296	1	37	42	44	45	48	49	51	52	52	53	54	55
		3888	1	44	49	51	53	55	57	58	59	60	60	61	62
		6480	2	47	53	54	56	58	60	61	63	63	64	64	65
		9072	5	50	55	57	58	60	62	64	65	65	66	67	68
		12960	10	52	57	59	60	63	64	66	67	68	68	69	70
700	400	1008	1	37	42	44	46	48	50	51	52	53	53	54	55
		3024	1	44	50	52	53	55	57	59	60	60	61	62	63
		5040	3	48	53	55	57	59	61	62	63	64	64	65	66
		7056	6	50	56	58	59	61	63	64	66	66	67	68	68
		10080	12	53	58	60	61	64	65	67	68	69	69	70	71

Technical data. Selection tables

JVR		Regenerated		Lp - dB(A) a p [Pa] =											
LxH [mm]		Q [m³/h]	DP _{min} [Pa]	100	200	250	300	400	500	600	700	750	800	900	1000
700	500	1260	1	37	42	44	45	48	49	51	52	53	53	54	55
		3780	1	44	49	51	53	55	57	58	59	60	60	61	62
		6300	3	47	53	55	56	58	60	61	63	63	64	65	65
		8820	5	50	55	57	58	60	62	64	65	65	66	67	68
		12600	10	52	57	59	61	63	65	66	67	68	68	69	70
700	600	1512	1	36	42	44	45	47	49	50	52	52	53	54	54
		4536	1	44	49	51	52	54	56	57	59	59	60	61	61
		7560	2	47	52	54	55	58	59	61	62	62	63	64	65
		10584	4	49	54	56	58	60	61	63	64	65	65	66	67
		15120	9	51	57	58	60	62	64	65	66	67	67	68	69
700	700	1764	1	36	42	43	45	47	49	50	51	52	52	53	54
		5292	1	43	48	50	52	54	56	57	58	59	59	60	61
		8820	2	46	52	53	55	57	59	60	61	62	62	63	64
		12348	4	48	54	55	57	59	61	62	63	64	64	65	66
		17640	8	51	56	58	59	61	63	64	66	66	67	68	68
800	500	1440	1	37	42	44	45	47	49	51	52	52	53	54	55
		4320	1	44	49	51	52	54	56	58	59	59	60	61	62
		7200	2	47	52	54	56	58	60	61	62	63	63	64	65
		10080	4	49	55	56	58	60	62	63	64	65	65	66	67
		14400	9	51	57	59	60	62	64	65	67	67	68	69	69
800	600	1728	1	36	42	43	45	47	49	50	51	52	52	53	54
		5184	1	43	49	50	52	54	56	57	58	59	59	60	61
		8640	2	46	52	53	55	57	59	60	61	62	62	63	64
		12096	4	48	54	56	57	59	61	62	64	64	65	65	66
		17280	8	51	56	58	59	61	63	65	66	66	67	68	69
800	800	2304	1	36	41	43	44	46	48	49	51	51	52	53	53
		6912	1	42	47	49	51	53	54	56	57	58	58	59	60
		11520	2	45	50	52	54	56	58	59	60	61	61	62	63
		16128	3	47	52	54	56	58	60	61	62	63	63	64	65
		23040	7	49	55	56	58	60	62	63	64	65	65	66	67
1000	600	2160	1	36	41	43	44	46	48	50	51	51	52	53	54
		6480	1	42	48	49	51	53	55	56	57	58	58	59	60
		10800	2	45	51	52	54	56	58	59	60	61	61	62	63
		15120	3	47	53	55	56	58	60	61	62	63	63	64	65
		21600	7	50	55	57	58	60	62	63	65	65	66	66	67
1000	1000	3600	1	34	40	41	43	45	46	48	49	50	50	51	52
		10800	1	40	45	47	49	51	52	54	55	55	56	57	58
		18000	1	43	48	50	51	53	55	57	58	58	59	60	60
		25200	2	45	50	52	53	55	57	58	59	60	61	61	62
		36000	5	47	52	54	55	57	59	60	61	62	62	63	64

Technical data. Selection tables

JVR	Regenerated		Dp = 100 Pa			Dp = 250 Pa			Dp = 500 Pa			Dp = 750 Pa			Dp = 1000 Pa		
	Q [l/s]	Q [m³/h]	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC
400x400	160	576	37	32	32	44	40	39	50	45	45	53	49	48	55	51	50
	480	1728	45	41	40	51	48	47	58	54	53	61	57	56	64	59	58
	800	2880	49	45	44	55	52	51	62	58	57	65	61	60	68	63	62
	1120	4032	52	47	46	57	54	54	64	60	59	68	63	63	70	66	65
	1600	5760	54	50	49	60	57	56	67	63	62	70	66	65	73	68	68
500x400	200	720	37	33	32	43	40	39	50	45	45	53	49	48	55	51	50
	600	2160	45	41	40	50	48	47	58	53	53	61	57	56	63	59	58
	1000	3600	49	44	43	54	52	51	62	57	56	65	60	60	67	63	62
	1400	5040	51	47	46	57	54	53	64	60	59	67	63	62	70	65	64
	2000	7200	54	49	49	59	57	56	67	62	61	70	65	65	72	68	67
500x500	250	900	37	33	32	42	40	39	50	45	45	53	49	48	55	51	50
	750	2700	45	40	39	50	48	47	57	53	52	61	56	55	63	59	58
	1250	4500	48	44	43	54	51	50	61	57	56	64	60	59	66	62	61
	1750	6300	51	46	45	56	53	53	63	59	58	67	62	61	69	64	64
	2500	9000	53	49	48	59	56	55	66	61	61	69	65	64	71	67	66
600x400	240	864	37	33	32	42	40	39	50	45	45	53	49	48	55	51	50
	720	2592	45	40	40	50	48	47	58	53	52	61	56	56	63	59	58
	1200	4320	48	44	43	54	51	50	61	57	56	64	60	59	67	62	61
	1680	6048	51	46	45	56	54	53	63	59	58	67	62	61	69	65	64
	2400	8640	53	49	48	59	56	55	66	62	61	69	65	64	71	67	66
600x450	270	972	37	33	32	42	40	39	50	45	44	53	48	48	55	51	50
	810	2916	45	40	39	50	47	47	57	53	52	60	56	55	63	58	58
	1350	4860	48	44	43	54	51	50	61	56	56	64	60	59	66	62	61
	1890	6804	50	46	45	56	53	52	63	59	58	66	62	61	69	64	63
	2700	9720	53	48	48	58	56	55	66	61	60	69	64	64	71	67	66
600x500	300	1080	37	32	32	42	40	39	50	45	44	53	48	48	55	51	50
	900	3240	44	40	39	50	47	46	57	53	52	60	56	55	62	58	57
	1500	5400	48	43	43	53	51	50	60	56	55	64	59	58	66	62	61
	2100	7560	50	46	45	56	53	52	63	58	58	66	62	61	68	64	63
	3000	10800	53	48	47	58	55	55	65	61	60	68	64	63	71	66	65
600x550	330	1188	37	32	32	42	40	39	49	45	44	53	48	47	55	50	50
	990	3564	44	40	39	50	47	46	57	52	52	60	56	55	62	58	57
	1650	5940	48	43	42	53	50	50	60	56	55	63	59	58	66	61	60
	2310	8316	50	45	45	55	53	52	62	58	57	66	61	60	68	63	63
	3300	11880	52	48	47	58	55	54	65	60	60	68	64	63	70	66	65
600x600	360	1296	37	32	32	42	39	39	49	45	44	52	48	47	55	50	50
	1080	3888	44	40	39	49	47	46	57	52	51	60	55	55	62	58	57
	1800	6480	47	43	42	53	50	49	60	55	55	63	59	58	65	61	60
	2520	9072	50	45	44	55	52	51	62	58	57	65	61	60	68	63	62
	3600	12960	52	47	47	57	55	54	64	60	59	68	63	62	70	65	65
700x400	280	1008	37	33	32	42	40	39	50	45	44	53	48	48	55	51	50
	840	3024	44	40	39	50	47	47	57	53	52	60	56	55	63	58	57
	1400	5040	48	44	43	53	51	50	61	56	55	64	59	59	66	62	61
	1960	7056	50	46	45	56	53	52	63	59	58	66	62	61	68	64	63
	2800	10080	53	48	48	58	56	55	65	61	60	69	64	63	71	67	66

Lp: Sound pressure level of the regenerated noise, in dB(A), considering a room attenuation of 10 dB/oct.

Technical data. Selection tables

JVR	Regenerated		Dp = 100 Pa			Dp = 250 Pa			Dp = 500 Pa			Dp = 750 Pa			Dp = 1000 Pa		
	Q [l/s]	Q [m³/h]	Lp in dB(A)	Lp in NR	Lp in NC	Lp in dB(A)	Lp in NR	Lp in NC	Lp in dB(A)	Lp in NR	Lp in NC	Lp in dB(A)	Lp in NR	Lp in NC	Lp in dB(A)	Lp in NR	Lp in NC
700x500	350	1260	37	32	32	42	40	39	49	45	44	53	48	47	55	50	50
	1050	3780	44	40	39	49	47	46	57	52	51	60	55	55	62	58	57
	1750	6300	47	43	42	53	50	49	60	56	55	63	59	58	65	61	60
	2450	8820	50	45	44	55	52	52	62	58	57	65	61	60	68	63	62
	3500	12600	52	48	47	57	55	54	65	60	59	68	63	63	70	66	65
700x600	420	1512	36	32	31	42	39	38	49	45	44	52	48	47	54	50	49
	1260	4536	44	39	38	49	46	45	56	52	51	59	55	54	61	57	56
	2100	7560	47	42	42	52	50	49	59	55	54	62	58	57	65	60	60
	2940	10584	49	45	44	54	52	51	61	57	56	65	60	59	67	62	62
	4200	15120	51	47	46	57	54	53	64	59	59	67	63	62	69	65	64
700x700	490	1764	36	32	31	42	39	38	49	44	44	52	47	47	54	50	49
	1470	5292	43	39	38	48	46	45	56	51	50	59	54	53	61	57	56
	2450	8820	46	42	41	52	49	48	59	54	54	62	57	57	64	60	59
	3430	12348	48	44	43	54	51	50	61	56	56	64	60	59	66	62	61
	4900	17640	51	46	45	56	53	52	63	59	58	66	62	61	68	64	63
800x500	400	1440	37	32	31	42	39	39	49	45	44	52	48	47	55	50	49
	1200	4320	44	39	38	49	46	46	56	52	51	59	55	54	62	57	56
	2000	7200	47	43	42	52	50	49	60	55	54	63	58	57	65	61	60
	2800	10080	49	45	44	55	52	51	62	57	56	65	60	60	67	63	62
	4000	14400	51	47	46	57	54	53	64	60	59	67	63	62	69	65	64
800x600	480	1728	36	32	31	42	39	38	49	44	44	52	47	47	54	50	49
	1440	5184	43	39	38	49	46	45	56	51	50	59	54	54	61	57	56
	2400	8640	46	42	41	52	49	48	59	54	54	62	58	57	64	60	59
	3360	12096	48	44	43	54	51	50	61	57	56	64	60	59	66	62	61
	4800	17280	51	46	45	56	53	53	63	59	58	66	62	61	69	64	63
800x800	640	2304	36	31	30	41	38	37	48	44	43	51	47	46	53	49	48
	1920	6912	42	38	37	47	45	44	54	50	49	58	53	52	60	55	55
	3200	11520	45	41	40	50	48	47	58	53	52	61	56	55	63	58	58
	4480	16128	47	43	42	52	50	49	60	55	54	63	58	57	65	60	60
	6400	23040	49	45	44	55	52	51	62	57	56	65	60	60	67	63	62
1000x600	600	2160	36	31	31	41	38	38	48	44	43	51	47	46	54	49	48
	1800	6480	42	38	37	48	45	44	55	50	50	58	53	53	60	56	55
	3000	10800	45	41	40	51	48	47	58	53	53	61	57	56	63	59	58
	4200	15120	47	43	42	53	50	49	60	55	55	63	59	58	65	61	60
	6000	21600	50	45	44	55	52	51	62	58	57	65	61	60	67	63	62
1000x1000	1000	3600	34	30	29	40	37	36	46	42	41	50	45	44	52	47	47
	3000	10800	40	36	35	45	43	42	52	48	47	55	51	50	58	53	52
	5000	18000	43	39	38	48	46	45	55	51	50	58	54	53	60	56	55
	7000	25200	45	40	40	50	47	47	57	53	52	60	56	55	62	58	57
	10000	36000	47	42	42	52	49	48	59	54	54	62	58	57	64	60	59

Lp: Sound pressure level of the regenerated noise, in dB(A), considering a room attenuation of 10 dB/oct.

Technical data. Selection tables

Sound spectrum by octave band.

JVR	Regenerated		p = 600 Pa							p = 700 Pa							p = 800 Pa							p = 900 Pa							p = 1000 Pa											
LxH [mm]	Q [l/s]	Q [m³/h]	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000
400x400	160	576	52	58	58	59	56	54	49	45	53	59	60	60	57	55	51	46	54	60	61	61	58	56	52	47	55	61	62	62	59	57	53	48	56	62	62	63	60	58	53	49
	480	1728	60	66	67	67	64	62	58	53	61	68	68	68	66	64	59	54	62	69	69	69	67	65	60	55	63	70	70	70	68	66	61	56	64	70	71	71	69	66	62	57
	800	2880	64	70	70	71	68	66	61	57	65	71	72	72	69	67	63	58	66	73	73	73	71	68	64	59	67	73	74	74	71	69	65	60	68	74	75	75	72	70	66	61
	1120	4032	66	73	73	73	71	69	64	59	68	74	74	74	72	70	65	60	69	75	75	76	73	71	66	62	70	76	76	76	74	72	67	63	70	77	77	77	75	73	68	63
	1600	5760	69	75	76	76	73	71	67	62	70	77	77	77	75	73	68	63	71	78	78	78	76	74	69	64	72	79	79	79	77	75	70	65	73	80	80	80	78	75	71	66

Technical data. Selection tables

Technical data radiated noise.

In the following table, it obtains the sound pressure level, considering an absorption 10 dB/oct local and a 100% of opening of the damper (pressure drop in Pa).

JVR Radiated			Lp - dB(A) a p [Pa] =												
LxH [mm]	Q [m³/h]	DP _{min} [Pa]	100	200	250	300	400	500	600	700	750	800	900	1000	
400	400	576	1	27	33	34	36	38	40	41	43	43	44	45	46
		1728	2	46	52	53	55	57	59	60	62	62	63	64	65
		2880	4	50	55	57	59	61	63	64	66	66	67	68	68
		4032	9	52	58	60	61	64	65	67	68	69	69	70	71
		5760	17	55	61	62	64	66	68	69	71	71	72	73	74
500	400	720	1	28	34	36	37	39	41	43	44	44	45	46	47
		2160	1	51	57	59	60	63	64	66	67	68	68	69	70
		3600	4	55	61	62	64	66	68	69	71	71	72	73	74
		5040	7	58	63	65	66	69	70	72	73	74	74	75	76
		7200	15	60	66	67	69	71	73	74	76	76	77	78	79
500	500	900	1	30	36	37	39	41	43	44	45	46	47	47	48
		2700	1	49	55	57	58	60	62	63	65	65	66	67	68
		4500	3	53	58	60	62	64	66	67	68	69	69	70	71
		6300	6	55	61	62	64	66	68	69	71	71	72	73	73
		9000	13	58	63	65	66	69	70	72	73	74	74	75	76
600	400	864	1	30	35	37	38	41	42	44	45	46	46	47	48
		2592	1	48	54	56	57	59	61	63	64	64	65	66	67
		4320	3	52	57	59	61	63	65	66	67	68	68	69	70
		6048	6	54	60	62	63	65	67	69	70	70	71	72	73
		8640	13	57	62	64	66	68	70	71	72	73	73	74	75
600	450	972	1	31	36	38	39	42	43	45	46	47	47	48	49
		2916	1	48	54	55	57	59	61	62	64	64	65	66	66
		4860	3	53	58	60	61	64	65	67	68	69	69	70	71
		6804	6	55	61	62	64	66	68	69	70	71	72	72	73
		9720	12	58	63	65	66	69	70	72	73	73	74	75	76
600	500	1080	1	32	37	39	40	43	44	46	47	48	48	49	50
		3240	1	46	52	53	55	57	59	60	61	62	63	63	64
		5400	3	52	57	59	60	63	64	66	67	67	68	69	70
		7560	5	54	59	61	63	65	67	68	69	70	70	71	72
		10800	11	56	62	64	65	67	69	70	72	72	73	74	74
600	550	1188	1	33	38	40	41	44	45	47	48	49	49	50	51
		3564	1	43	48	50	52	54	56	57	58	59	59	60	61
		5940	3	48	54	56	57	59	61	63	64	64	65	66	67
		8316	5	51	56	58	59	62	63	65	66	67	67	68	69
		11880	10	56	62	63	65	67	69	70	71	72	72	73	74
600	600	1296	1	34	39	41	42	45	46	48	49	50	50	51	52
		3888	1	48	53	55	57	59	61	62	63	64	64	65	66
		6480	2	51	57	58	60	62	64	65	67	67	68	68	69
		9072	5	53	59	61	62	64	66	68	69	69	70	71	72
		12960	10	56	61	63	64	67	68	70	71	72	72	73	74
700	400	1008	1	31	36	38	40	42	44	45	46	47	47	48	49
		3024	1	47	53	54	56	58	60	61	63	63	64	65	65
		5040	3	52	57	59	60	63	64	66	67	68	68	69	70
		7056	6	54	59	61	63	65	67	68	69	70	70	71	72
		10080	12	56	62	64	65	67	69	71	72	72	73	74	75

Technical data. Selection tables

JVR		Radiated		Lp - dB(A) a p [Pa] =											
LxH [mm]		Q [m³/h]	DP _{min} [Pa]	100	200	250	300	400	500	600	700	750	800	900	1000
700	500	1260	1	33	39	41	42	44	46	47	49	49	50	51	51
		3780	1	43	48	50	52	54	56	57	58	59	59	60	61
		6300	3	49	55	57	58	60	62	63	65	65	66	67	67
		8820	5	52	57	59	60	62	64	66	67	67	68	69	70
		12600	10	54	59	61	63	65	67	68	69	70	70	71	72
700	600	1512	1	36	41	43	44	47	48	50	51	52	52	53	54
		4536	1	45	50	52	53	55	57	59	60	60	61	62	63
		7560	2	51	56	58	59	62	63	65	66	67	67	68	69
		10584	4	53	58	60	62	64	66	67	68	69	69	70	71
		15120	9	55	61	63	64	66	68	69	71	71	72	72	73
700	700	1764	1	32	37	39	40	42	44	45	47	47	48	49	49
		5292	1	46	52	53	55	57	59	60	61	62	62	63	64
		8820	2	51	56	58	59	61	63	64	66	66	67	68	68
		12348	4	53	58	60	61	63	65	67	68	68	69	70	70
		17640	8	55	60	62	63	66	67	69	70	70	71	72	73
800	500	1440	1	35	41	42	44	46	48	49	50	51	51	52	53
		4320	1	47	52	54	55	58	59	61	62	62	63	64	65
		7200	2	51	56	58	60	62	64	65	66	67	67	68	69
		10080	4	53	59	60	62	64	66	67	68	69	69	70	71
		14400	9	56	61	63	64	66	68	69	71	71	72	73	73
800	600	1728	1	38	44	45	47	49	51	52	53	54	54	55	56
		5184	1	45	51	53	54	56	58	59	60	61	62	62	63
		8640	2	51	56	58	59	61	63	64	66	66	67	68	68
		12096	4	53	58	60	61	63	65	67	68	68	69	70	71
		17280	8	56	61	63	64	67	68	70	71	72	72	73	74
800	800	2304	1	45	51	52	54	56	58	59	60	61	61	62	63
		6912	1	43	48	50	51	53	55	56	58	58	59	60	60
		11520	2	49	54	56	57	59	61	62	64	64	65	66	66
		16128	3	51	56	58	59	61	63	64	66	66	67	68	68
		23040	7	54	59	61	62	64	66	68	69	69	70	71	71
1000	600	2160	1	32	38	39	41	43	45	46	47	48	48	49	50
		6480	1	44	49	51	52	55	56	58	59	59	60	61	62
		10800	2	48	53	55	56	59	60	62	63	63	64	65	66
		15120	3	51	56	58	59	62	63	65	66	66	67	68	69
		21600	7	54	59	61	63	65	66	68	69	70	70	71	72
1000	1000	3600	1	31	37	38	40	42	43	45	46	47	47	48	49
		10800	1	40	45	47	49	51	52	54	55	55	56	57	58
		18000	1	48	53	55	56	58	60	62	63	63	64	65	65
		25200	2	50	55	57	58	60	62	63	64	65	66	66	67
		36000	5	52	57	59	60	62	64	65	66	67	67	68	69

Technical data. Selection tables

JVR	Radiated		Dp = 100 Pa			Dp = 250 Pa			Dp = 500 Pa			Dp = 750 Pa			Dp = 1000 Pa		
	Q [l/s]	Q [m³/h]	Lp in dB(A)	Lp in NR	Lp in NC	Lp in dB(A)	Lp in NR	Lp in NC	Lp in dB(A)	Lp in NR	Lp in NC	Lp in dB(A)	Lp in NR	Lp in NC	Lp in dB(A)	Lp in NR	Lp in NC
400x400	160	576	27	23	22	34	30	29	40	36	35	43	39	38	46	41	40
	480	1728	46	42	41	52	49	48	59	55	54	62	58	57	65	60	59
	800	2880	50	45	45	55	53	52	63	58	58	66	62	61	68	64	63
	1120	4032	52	48	47	58	55	55	65	61	60	69	64	63	71	67	66
	1600	5760	55	51	50	61	58	57	68	64	63	71	67	66	74	69	68
500x400	200	720	28	24	23	34	31	31	41	37	36	44	40	39	47	42	42
	600	2160	51	47	46	57	54	54	64	60	59	68	63	62	70	65	65
	1000	3600	55	51	50	61	58	57	68	64	63	71	67	66	74	69	68
	1400	5040	58	53	52	63	61	60	70	66	65	74	69	68	76	72	71
	2000	7200	60	56	55	66	63	62	73	69	68	76	72	71	79	74	73
500x500	250	900	30	26	25	36	33	32	43	38	38	46	42	41	48	44	43
	750	2700	49	45	44	55	52	51	62	58	57	65	61	60	68	63	62
	1250	4500	53	48	48	58	56	55	66	61	60	69	64	64	71	67	66
	1750	6300	55	51	50	61	58	57	68	64	63	71	67	66	73	69	68
	2500	9000	58	53	53	63	61	60	70	66	65	74	69	68	76	72	71
600x400	240	864	30	25	24	35	33	32	42	38	37	46	41	41	48	44	43
	720	2592	48	44	43	54	51	50	61	57	56	64	60	59	67	62	61
	1200	4320	52	47	47	57	55	54	65	60	59	68	63	63	70	66	65
	1680	6048	54	50	49	60	57	56	67	63	62	70	66	65	73	68	67
	2400	8640	57	52	52	62	60	59	70	65	64	73	68	68	75	71	70
600x450	270	972	31	26	25	36	34	33	43	39	38	47	42	41	49	44	44
	810	2916	48	44	43	54	51	50	61	57	56	64	60	59	66	62	61
	1350	4860	53	48	48	58	56	55	65	61	60	69	64	63	71	67	66
	1890	6804	55	51	50	61	58	57	68	63	63	71	67	66	73	69	68
	2700	9720	58	53	52	63	60	60	70	66	65	73	69	68	76	71	71
600x500	300	1080	32	27	26	37	34	34	44	40	39	48	43	42	50	45	45
	900	3240	46	42	41	52	49	48	59	54	54	62	58	57	64	60	59
	1500	5400	52	47	46	57	54	54	64	60	59	67	63	62	70	65	65
	2100	7560	54	49	49	59	57	56	67	62	61	70	65	65	72	68	67
	3000	10800	56	52	51	62	59	58	69	65	64	72	68	67	74	70	69
600x550	330	1188	33	28	27	38	35	35	45	41	40	49	44	43	51	46	46
	990	3564	43	39	38	48	46	45	56	51	50	59	54	54	61	57	56
	1650	5940	48	44	43	54	51	50	61	57	56	64	60	59	67	62	61
	2310	8316	51	46	45	56	53	53	63	59	58	67	62	61	69	64	64
	3300	11880	56	52	51	62	59	58	69	64	64	72	67	67	74	70	69
600x600	360	1296	34	29	29	39	37	36	46	42	41	50	45	44	52	47	47
	1080	3888	48	44	43	53	51	50	61	56	55	64	59	58	66	62	61
	1800	6480	51	47	46	57	54	53	64	59	59	67	63	62	69	65	64
	2520	9072	53	49	48	59	56	55	66	62	61	69	65	64	72	67	66
	3600	12960	56	51	51	61	59	58	68	64	63	72	67	66	74	69	69
700x400	280	1008	31	27	26	36	34	33	44	39	39	47	43	42	49	45	44
	840	3024	47	43	42	53	50	49	60	56	55	63	59	58	65	61	60
	1400	5040	52	47	47	57	55	54	64	60	59	68	63	62	70	65	65
	1960	7056	54	50	49	59	57	56	67	62	62	70	66	65	72	68	67
	2800	10080	56	52	51	62	59	59	69	65	64	72	68	67	75	70	69

Lp: Sound pressure level of the regenerated noise, in dB(A), considering a room attenuation of 10 dB/oct.

Technical data. Selection tables

JVR	Radiated		p = 100 Pa			p = 250 Pa			p = 500 Pa			p = 750 Pa			p = 1000 Pa		
	Q [l/s]	Q [m³/h]	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC	L _p in dB(A)	L _p in NR	L _p in NC
400x400	160	576	27	23	22	34	30	29	40	36	35	43	39	38	46	41	40
	480	1728	46	42	41	52	49	48	59	55	54	62	58	57	65	60	59
	800	2880	50	45	45	55	53	52	63	58	58	66	62	61	68	64	63
	1120	4032	52	48	47	58	55	55	65	61	60	69	64	63	71	67	66
	1600	5760	55	51	50	61	58	57	68	64	63	71	67	66	74	69	68
500x400	200	720	28	24	23	34	31	31	41	37	36	44	40	39	47	42	42
	600	2160	51	47	46	57	54	54	64	60	59	68	63	62	70	65	65
	1000	3600	55	51	50	61	58	57	68	64	63	71	67	66	74	69	68
	1400	5040	58	53	52	63	61	60	70	66	65	74	69	68	76	72	71
	2000	7200	60	56	55	66	63	62	73	69	68	76	72	71	79	74	73
500x500	250	900	30	26	25	36	33	32	43	38	38	46	42	41	48	44	43
	750	2700	49	45	44	55	52	51	62	58	57	65	61	60	68	63	62
	1250	4500	53	48	48	58	56	55	66	61	60	69	64	64	71	67	66
	1750	6300	55	51	50	61	58	57	68	64	63	71	67	66	73	69	68
	2500	9000	58	53	53	63	61	60	70	66	65	74	69	68	76	72	71
600x400	240	864	30	25	24	35	33	32	42	38	37	46	41	41	48	44	43
	720	2592	48	44	43	54	51	50	61	57	56	64	60	59	67	62	61
	1200	4320	52	47	47	57	55	54	65	60	59	68	63	63	70	66	65
	1680	6048	54	50	49	60	57	56	67	63	62	70	66	65	73	68	67
	2400	8640	57	52	52	62	60	59	70	65	64	73	68	68	75	71	70
600x450	270	972	31	26	25	36	34	33	43	39	38	47	42	41	49	44	44
	810	2916	48	44	43	54	51	50	61	57	56	64	60	59	66	62	61
	1350	4860	53	48	48	58	56	55	65	61	60	69	64	63	71	67	66
	1890	6804	55	51	50	61	58	57	68	63	63	71	67	66	73	69	68
	2700	9720	58	53	52	63	60	60	70	66	65	73	69	68	76	71	71
600x500	300	1080	32	27	26	37	34	34	44	40	39	48	43	42	50	45	45
	900	3240	46	42	41	52	49	48	59	54	54	62	58	57	64	60	59
	1500	5400	52	47	46	57	54	54	64	60	59	67	63	62	70	65	65
	2100	7560	54	49	49	59	57	56	67	62	61	70	65	65	72	68	67
	3000	10800	56	52	51	62	59	58	69	65	64	72	68	67	74	70	69
600x550	330	1188	33	28	27	38	35	35	45	41	40	49	44	43	51	46	46
	990	3564	43	39	38	48	46	45	56	51	50	59	54	54	61	57	56
	1650	5940	48	44	43	54	51	50	61	57	56	64	60	59	67	62	61
	2310	8316	51	46	45	56	53	53	63	59	58	67	62	61	69	64	64
	3300	11880	56	52	51	62	59	58	69	64	64	72	67	67	74	70	69
600x600	360	1296	34	29	29	39	37	36	46	42	41	50	45	44	52	47	47
	1080	3888	48	44	43	53	51	50	61	56	55	64	59	58	66	62	61
	1800	6480	51	47	46	57	54	53	64	59	59	67	63	62	69	65	64
	2520	9072	53	49	48	59	56	55	66	62	61	69	65	64	72	67	66
	3600	12960	56	51	51	61	59	58	68	64	63	72	67	66	74	69	69
700x400	280	1008	31	27	26	36	34	33	44	39	39	47	43	42	49	45	44
	840	3024	47	43	42	53	50	49	60	56	55	63	59	58	65	61	60
	1400	5040	52	47	47	57	55	54	64	60	59	68	63	62	70	65	65
	1960	7056	54	50	49	59	57	56	67	62	62	70	66	65	72	68	67
	2800	10080	56	52	51	62	59	59	69	65	64	72	68	67	75	70	69

L_p: Sound pressure level of the regenerated noise, in dB(A), considering a room attenuation of 10 dB/oct.

Technical data. Selection tables

Sound spectrum by octave band.

JVR	Radiated		p = 100 Pa								p = 200 Pa								p = 300 Pa								p = 400 Pa								p = 500 Pa							
	LxH [mm]	Q [l/s]	Q [m³/h]	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000
400x400	160	576	<	32	33	33	32	31	25	20	25	37	38	39	38	36	30	26	28	41	42	42	41	39	33	29	30	43	44	44	44	42	36	31	32	45	46	46	45	43	38	33
	480	1728	38	51	52	52	51	49	44	39	44	56	57	58	57	55	49	45	47	60	61	61	60	58	52	48	49	62	63	63	63	61	55	50	51	64	65	65	64	62	57	52
	800	2880	42	55	56	56	55	53	47	43	48	60	61	62	61	59	53	48	51	63	64	65	64	62	56	52	53	66	67	67	66	65	59	54	55	68	68	69	68	66	60	56
	1120	4032	45	57	58	58	58	56	50	45	50	63	64	64	63	61	56	51	53	66	67	67	67	65	59	54	56	68	69	70	69	67	61	56	58	70	71	71	71	69	63	58
	1600	5760	47	60	61	61	61	59	53	48	53	65	66	67	66	64	58	54	56	69	70	70	69	67	61	57	58	71	72	72	72	70	64	59	60	73	74	74	73	72	66	61
500x400	200	720	21	33	34	34	34	32	26	21	26	39	40	40	39	37	32	27	29	42	43	43	43	41	35	30	32	44	45	46	45	43	37	32	33	46	47	47	47	45	39	34
	600	2160	44	56	57	58	57	55	49	44	49	62	63	63	62	60	55	50	52	65	66	66	66	64	58	53	55	67	68	69	68	66	60	55	57	69	70	70	70	68	62	57
	1000	3600	47	60	61	61	61	59	53	48	53	65	66	67	66	64	58	54	56	69	70	70	69	67	62	57	58	71	72	72	72	70	64	59	60	73	74	74	73	72	66	61
	1400	5040	50	62	63	64	63	61	55	51	55	68	69	69	69	67	61	56	59	71	72	72	72	70	64	59	61	73	74	75	74	72	66	62	63	75	76	77	76	74	68	63
	2000	7200	52	65	66	66	66	64	58	53	58	70	71	72	71	69	63	59	61	74	75	75	74	72	67	62	63	76	77	77	77	75	69	64	65	78	79	79	79	77	71	66
500x500	250	900	22	35	36	36	36	34	28	23	28	40	41	42	41	39	33	28	31	43	44	45	44	42	36	32	33	46	47	47	47	45	39	34	35	48	48	49	48	46	40	36
	750	2700	42	54	55	55	55	53	47	42	47	59	60	61	60	58	52	48	50	63	64	64	63	61	56	51	52	65	66	66	66	64	58	53	54	67	68	68	68	66	60	55
	1250	4500	45	58	59	59	58	56	50	46	51	63	64	64	64	62	56	51	54	66	67	68	67	65	59	55	56	69	70	70	69	67	61	57	58	70	71	72	71	69	63	59
	1750	6300	47	60	61	61	61	59	53	48	53	65	66	67	66	64	58	54	56	69	70	70	69	67	62	57	58	71	72	72	72	70	64	59	60	73	74	74	73	71	66	61
	2500	9000	50	62	63	64	63	61	55	51	55	68	69	69	69	67	61	56	59	71	72	73	72	70	64	59	61	73	74	75	74	72	66	62	63	75	76	77	76	74	68	63
600x400	240	864	22	34	35	36	35	33	27	23	27	40	41	41	41	39	33	28	31	43	44	45	44	42	36	31	33	45	46	47	46	44	38	34	35	47	48	49	48	46	40	35
	720	2592	41	53	54	54	54	52	46	41	46	59	59	60	59	57	51	47	49	62	63	63	63	61	55	50	52	64	65	65	65	63	57	52	53	66	67	67	67	65	59	54
	1200	4320	44	57	58	58	57	55	49	45	50	62	63	64	63	61	55	50	53	65	66	67	66	64	58	54	55	68	69	69	68	66	60	56	57	69	70	71	70	68	62	58
	1680	6048	46	59	60	60	59	57	51	47	53	65	66	67	66	64	58	53	55	67	68	69	68	66	60	56	57	70	71	71	70	68	62	58	59	71	72	73	72	70	64	60
	2400	8640	49	62	62	63	62	60	54	50	55	67	68	68	68	66	60	55	58	70	71	72	71	69	63	58	60	73	73	74	73	71	65	61	62	74	75	76	75	73	67	63
600x450	270	972	23	35	36	37	36	34	28	24	28	41	42	42	42	40	34	29	32	44	45	45	45	43	37	32	34	46	47	48	47	45	39	35	36	48	49	50	49	47	41	36
	810	2916	40	53	54	54	54	52	46	41	46	58	59	60	59	57	51	47	49	62	63	63	62	60	54	50	51	64	65	65	65	63	57	52	53	66	67	67	66	64	59	54
	1350	4860	45	57	58	59	58	56	50	46	50	63	64	64	64	62	56	51	54	66	67	68	67	65	59	54	56	68	69	70	69	67	61	57	58	70	71	72	71	69	63	58
	1890	6804	47	60	61	61	61	59	53	48	53	65	66	67	66	64	58	54	56	68	69	70	69	67	61	57	58	71	72	72	72	70	64	59	60	73	73	74	73	71	65	61
	2700	9720	50	62	63	64	63	61	55	51	55	68	69	69	69	67	61	56	58	71	72	72	72	70	64	59	61	73	74	75	74	72	66	61	63	75	76	76	76	74	68	63
600x500	300	1080	24	36	37	38	37	35	29	25	29	42	43	43	43	41	35	30	33	45	46	46	46	44	38	33	35	47	48	49	48	46	40	36	37	49	50	50	50	48	42	37
	900	3240	38	51	52	52	52	50	44	39	44	56	57	58	57	55	49	45	47	60	60	61	60	58	52	48	49	62	63	63	63	61	55	50	51	64	64	65	64	62	56	52
	1500	5400	44	56	57	58	57	55	49	45	49	62	63	63	63	61	55	50	52	65	66	66	66	64	58	53	55	67	68	69	68	66	60	55	57	69	70	70	70	68	62	57
	2100	7560	46	59	60	60	59	57	51	47	52	64	65	65	65	63	57	52	55	67	68	69	68	66	60	56	57	70	70	71	70	68	62	58	59	71	72	73	72	70	64	60
	3000	10800	49	61	62	62	62	60	54	49	54	66	67	68	67	65	59	55	57	70	71	71	70	68	63	58	59	72	73	73	73	71	65	60	61	74	75	75	74	72	67	62
600x550	330	1188	25	37	38	39	38	36	30	26	30	43	44	44	44	42	36	31	34	46	47	47	47	45	39	34	36	48	49	50	49	47	41	37	38	50	51	51	51	49	43	38
	990	3564	35	48	49	49	49	47	41	36	41	53	54	55	54	52	46	41	44	56	57	58	57	55	49	45	46	59	60	60	59	57	51	47	48	60	61	62	61	59	53	49
	1650	5940	41	53	54	55	54	52	46	41	46	59	60	60	59	57	51	47	49	62	63	63	63	61	55	50	52	64	65	65	65	63	57	52	53	66	67	67	67	65	59	54
	2310	8316	43	55	56	57	56	54	48	44	48	61	62	62	62	60	54	49	52	64	65	65	65	63	57	52	54	66	67	68	67	65	59	55	56	68	69	69	69	67	61	56
	3300	11880	48	61	62	62	62	60	54	49	54	66	67	68	67	65	59	54	57	69	70	71	70	68	62	58	59	72	73	73	72	70	65	60	61	73	74	75	74	72	66	62
600x600	360	1296	26	38	39	40	39	37	31	27	31	44	45	45	45	43	37	32	35	47	48	48	48	46	40	35	37	49	50	51	50	48	42	38	39	51	52	52	52	50	44	39
	1080	3888	40	53	54	54	53	51	45	41	46	58	59	59	59	57	51	46	49	61	62	63	62	60	54	49	51	63	64	65	64	62	56	52	53	65	66	67	66	64	58	53
	1800	6480	43	56	57	57	57	55	49	44	49	61	62	63	62	60	54	50	52	65	66	66	65	63	57	53	54	67	68													

Technical data. Selection tables

Sound spectrum by octave band.

JVR	Radiated		p = 100 Pa								p = 200 Pa								p = 300 Pa								p = 400 Pa								p = 500 Pa							
	LxH [mm]	Q [l/s]	Q [m³/h]	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000
700x500	350	1260	26	38	39	39	39	37	31	26	31	44	44	45	44	42	36	32	34	47	48	48	47	45	40	35	36	49	50	50	50	48	42	37	38	51	52	52	51	49	44	39
	1050	3780	35	48	49	49	48	46	41	36	41	53	54	54	54	52	46	41	44	56	57	58	57	55	49	45	46	59	59	60	59	57	51	47	48	60	61	62	61	59	53	49
	1750	6300	42	54	55	55	55	53	47	42	47	59	60	61	60	58	52	48	50	63	64	64	63	61	56	51	52	65	66	66	66	64	58	53	54	67	68	68	67	65	60	55
	2450	8820	44	56	57	58	57	55	49	45	49	62	63	63	62	60	55	50	52	65	66	66	66	64	58	53	55	67	68	69	68	66	60	55	56	69	70	70	70	68	62	57
	3500	12600	46	59	60	60	59	57	51	47	52	64	65	65	65	63	57	52	55	67	68	69	68	66	60	55	57	70	71	71	70	68	62	58	59	71	72	73	72	70	64	59
700x600	420	1512	28	41	42	42	41	39	33	29	34	46	47	47	47	45	39	34	37	49	50	51	50	48	42	37	39	51	52	53	52	50	44	40	41	53	54	55	54	52	46	41
	1260	4536	37	49	50	51	50	48	42	38	42	55	56	56	56	54	48	43	45	58	59	59	59	57	51	46	48	60	61	62	61	59	53	48	49	62	63	63	63	61	55	50
	2100	7560	43	56	57	57	56	54	49	44	49	61	62	62	62	60	54	49	52	64	65	66	65	63	57	52	54	66	67	68	67	65	59	55	56	68	69	70	69	67	61	56
	2940	10584	45	58	59	59	59	57	51	46	51	63	64	65	64	62	56	51	54	66	67	68	67	65	59	55	56	69	70	70	69	67	61	57	58	70	71	72	71	69	63	59
	4200	15120	48	60	61	61	61	59	53	48	53	65	66	67	66	64	58	54	56	69	70	70	69	67	62	57	58	71	72	72	72	70	64	59	60	73	74	74	73	71	65	61
700x700	490	1764	24	36	37	38	37	35	29	24	29	42	43	43	42	40	34	30	32	45	46	46	46	44	38	33	34	47	48	48	48	46	40	35	36	49	50	50	49	47	42	37
	1470	5292	39	51	52	52	52	50	44	39	44	56	57	58	57	55	49	45	47	60	61	61	60	58	52	48	49	62	63	63	63	61	55	50	51	64	65	65	64	62	56	52
	2450	8820	43	55	56	57	56	54	48	43	48	61	62	62	61	59	53	49	51	64	65	65	65	63	57	52	54	66	67	67	67	65	59	54	55	68	69	69	68	67	61	56
	3430	12348	45	57	58	59	58	56	50	46	50	63	64	64	63	62	56	51	53	66	67	67	67	65	59	54	56	68	69	69	69	67	61	56	57	70	71	71	71	69	63	58
	4900	17640	47	60	61	61	60	58	52	48	52	65	66	66	66	64	58	53	56	68	69	69	69	67	61	56	58	70	71	72	71	69	63	59	60	72	73	73	73	71	65	60
800x500	400	1440	27	40	41	41	41	39	33	28	33	45	46	47	46	44	38	34	36	48	49	50	49	47	41	37	38	51	52	52	51	49	44	39	40	52	53	54	53	51	45	41
	1200	4320	39	51	52	53	52	50	44	40	44	57	58	58	58	56	50	45	48	60	61	61	61	59	53	48	50	62	63	64	63	61	55	51	52	64	65	65	65	63	57	52
	2000	7200	43	56	57	57	57	55	49	44	49	61	62	63	62	60	54	49	52	64	65	66	65	63	57	53	54	67	68	68	67	65	59	55	56	68	69	70	69	67	61	57
	2800	10080	45	58	59	59	59	57	51	46	51	63	64	65	64	62	56	52	54	67	67	68	67	65	59	55	56	69	70	70	70	68	62	57	58	70	71	72	71	69	63	59
	4000	14400	48	60	61	62	61	59	53	48	53	66	67	67	66	64	59	54	56	69	70	70	70	68	62	57	59	71	72	72	72	70	64	59	60	73	74	74	74	72	66	61
800x600	480	1728	30	43	44	44	44	42	36	31	36	48	49	50	49	47	41	37	39	51	52	53	52	50	44	40	41	54	55	55	54	52	47	42	43	55	56	57	56	54	48	44
	1440	5184	38	50	51	52	51	49	43	38	43	55	56	57	56	54	48	44	46	59	60	60	59	57	52	47	48	61	62	62	62	60	54	49	50	63	64	64	63	61	55	51
	2400	8640	43	55	56	57	56	54	48	44	48	61	62	62	61	59	54	49	51	64	65	65	65	63	57	52	54	66	67	67	67	65	59	54	55	68	69	69	69	67	61	56
	3360	12096	45	57	58	59	58	56	50	46	50	63	64	64	64	62	56	51	53	66	67	67	67	65	59	54	56	68	69	70	69	67	61	56	57	70	71	71	71	69	63	58
	4800	17280	48	61	62	62	61	59	54	49	54	66	67	67	67	65	59	54	57	69	70	71	70	68	62	57	59	71	72	73	72	70	64	60	61	73	74	75	74	72	66	61
800x800	640	2304	37	50	51	51	51	49	43	38	43	55	56	57	56	54	48	44	46	58	59	60	59	57	51	47	48	61	62	62	61	59	53	49	50	62	63	64	63	61	55	51
	1920	6912	35	47	48	49	48	46	40	36	40	53	54	54	53	52	46	41	43	56	57	57	57	55	49	44	46	58	59	59	59	57	51	46	47	60	61	61	61	59	53	48
	3200	11520	41	53	54	55	54	52	46	42	46	59	60	60	60	58	52	47	49	62	63	63	63	61	55	50	52	64	65	65	65	63	57	52	53	66	67	67	67	65	59	54
	4480	16128	43	55	56	57	56	54	48	44	48	61	62	62	62	60	54	49	51	64	65	65	65	63	57	52	54	66	67	67	67	65	59	54	55	68	69	69	69	67	61	56
	6400	23040	46	59	59	60	59	57	51	47	51	64	65	65	65	63	57	52	54	67	68	68	68	66	60	55	57	69	70	71	70	68	62	57	58	71	72	72	72	70	64	59
1000x600	600	2160	25	37	38	38	38	36	30	25	30	42	43	44	43	41	35	31	33	45	46	47	46	44	38	34	35	48	49	49	48	46	41	36	37	49	50	51	50	48	42	38
	1800	6480	36	49	50	50	49	47	41	37	41	54	55	55	55	53	47	42	45	57	58	58	58	56	50	45	47	59	60	61	60	58	52	47	48	61	62	62	62	60	54	49
	3000	10800	40	53	54	54	53	51	46	41	45	58	59	59	59	57	51	46	49	61	62	62	62	60	54	49	51	63	64	65	64	62	56	52	53	65	66	66	66	64	58	53
	4200	15120	43	56	57	57	56	54	49	44	49	61	62	62	62	60	54	49	52	64	65	66	65	63	57	52	54	66	67	68	67	65	59	55	56	68	69	69	69	67	61	56
	6000	21600	46	59	60	60	60	58	52	47	52	64	65	66	65	63	57	52	55	67	68	69	68	66	60	55	57	69	70	71	70	68	62	58	59	71	72	73	72	70	64	59
1000x1000	1000	3600	24	36	37	37	37	35	29	24	29	41	42	43	42	40	34	30	32	44	45	46	45	43	37	33	34	47	47	48	47	45	39	35	36	48	49	50	49	47	41	36
	3000	10800	32	45	46	46	46	44	38	33	38	50	51	52	51	49	43	38	41	53	54	55	54	52	46	41	43	55	56	57	56	54	48	44	45	57	58	59	58	56	50	45
	5000	18000	40	53	54	54	53	51	46	41	45	58	59	59	59	57	51	46	49	61	62	62	62	60																		

Technical data. Selection tables

Sound spectrum by octave band.

JVR	Radiated		p = 600 Pa								p = 700 Pa								p = 800 Pa								p = 900 Pa								p = 1000 Pa								
	LxH [mm]	Q [l/s]	Q [m³/h]	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000
700x500	350	1260		40	52	53	54	53	51	45	40	41	53	54	55	54	52	46	42	42	54	55	56	55	53	47	43	43	55	56	57	56	54	48	44	44	56	57	58	57	55	49	44
	1050	3780		49	62	63	63	62	60	55	50	50	63	64	64	64	62	56	51	51	64	65	65	65	63	57	52	52	65	66	66	66	64	58	53	53	66	67	67	66	65	59	54
	1750	6300		56	68	69	69	69	67	61	56	57	69	70	71	70	68	62	58	58	70	71	72	71	69	63	59	59	71	72	73	72	70	64	60	60	72	73	73	73	71	65	60
	2450	8820		58	70	71	72	71	69	63	59	59	72	72	73	72	70	64	60	60	73	74	74	73	71	65	61	61	74	74	75	74	72	66	62	62	74	75	76	75	73	67	63
	3500	12600		60	73	74	74	73	71	66	61	61	74	75	75	75	73	67	62	62	75	76	76	76	74	68	63	63	76	77	77	77	75	69	64	64	77	78	78	77	75	70	65
700x600	420	1512		42	55	56	56	55	53	47	43	43	56	57	57	55	49	44	44	57	58	58	58	56	50	45	45	58	59	59	58	57	51	46	46	59	60	60	59	57	51	47	
	1260	4536		51	63	64	65	64	62	56	52	52	65	66	66	65	63	57	53	53	66	67	67	66	64	58	54	54	67	68	67	65	59	55	55	67	68	69	68	66	60	56	
	2100	7560		57	70	71	71	70	68	62	58	58	71	72	72	72	70	64	59	59	72	73	73	73	71	65	60	60	73	74	74	74	72	66	61	61	74	75	75	74	72	66	62
	2940	10584		59	72	73	73	73	71	65	60	60	73	74	74	74	72	66	61	62	74	75	75	75	73	67	62	62	75	76	76	76	74	68	63	63	76	77	77	76	75	69	64
	4200	15120		62	74	75	75	75	73	67	62	63	75	76	77	76	74	68	63	64	76	77	78	77	75	69	65	65	77	78	79	78	76	70	65	66	78	79	79	79	77	71	66
700x700	490	1764		38	50	51	52	51	49	43	38	39	51	52	53	52	50	44	40	40	52	53	54	53	51	45	41	41	53	54	55	54	52	46	42	42	54	55	55	55	53	47	42
	1470	5292		52	65	66	66	66	64	58	53	54	66	67	68	67	65	59	54	55	67	68	69	68	66	60	55	56	68	69	69	69	67	61	56	56	69	70	70	70	68	62	57
	2450	8820		57	69	70	71	70	68	62	57	58	70	71	72	71	69	63	59	59	71	72	73	72	70	64	60	60	72	73	74	73	71	65	61	61	73	74	74	74	72	66	61
	3430	12348		59	71	72	73	72	70	64	59	60	72	73	74	73	71	65	61	61	73	74	75	74	72	66	62	62	74	75	76	75	73	67	63	63	75	76	77	76	74	68	63
	4900	17640		61	73	74	75	74	72	66	62	62	75	76	76	75	73	68	63	63	76	77	77	76	74	69	64	64	77	78	78	77	75	69	65	65	77	78	79	78	76	70	66
800x500	400	1440		41	54	55	55	55	53	47	42	43	55	56	56	56	54	48	43	44	56	57	57	57	55	49	44	45	57	58	58	58	56	50	45	45	58	59	59	59	57	51	46
	1200	4320		53	65	66	67	66	64	58	54	54	67	68	68	67	65	60	55	55	68	69	69	68	66	61	56	56	69	70	70	69	67	61	57	57	69	70	71	70	68	62	58
	2000	7200		57	70	71	71	71	69	63	58	58	71	72	72	72	70	64	59	59	72	73	73	73	71	65	60	60	73	74	74	74	72	66	61	61	74	75	75	74	73	67	62
	2800	10080		59	72	73	73	73	71	65	60	61	73	74	75	74	72	66	61	62	74	75	76	75	73	67	62	63	75	76	76	76	74	68	63	63	76	77	77	77	75	69	64
	4000	14400		62	74	75	76	75	73	67	62	63	75	76	77	76	74	68	64	64	76	77	78	77	75	69	65	65	77	78	79	78	76	70	66	66	78	79	80	79	77	71	66
800x600	480	1728		44	57	58	58	58	56	50	45	46	58	59	59	59	57	51	46	47	59	60	60	60	58	52	47	47	60	61	61	61	59	53	48	48	61	62	62	62	60	54	49
	1440	5184		52	64	65	65	65	63	57	52	53	65	66	67	66	64	58	53	54	66	67	68	67	65	59	54	55	67	68	69	68	66	60	55	55	68	69	69	69	67	61	56
	2400	8640		57	69	70	71	70	68	62	57	58	70	71	72	71	69	63	59	59	71	72	73	72	70	64	60	60	72	73	74	73	71	65	61	61	73	74	75	74	72	66	61
	3360	12096		59	71	72	73	72	70	64	60	60	73	73	74	73	71	65	61	61	74	74	75	74	72	66	62	62	74	75	76	75	73	67	63	63	75	76	77	76	74	68	64
	4800	17280		62	75	76	76	75	73	67	63	63	76	77	77	76	75	69	64	64	77	78	78	78	76	70	65	65	78	79	79	78	76	71	66	66	78	79	80	79	77	71	67
800x800	640	2304		51	64	65	65	64	63	57	52	52	65	66	66	66	64	58	53	53	66	67	67	67	65	59	54	54	67	68	68	68	66	60	55	55	68	69	69	68	66	61	56
	1920	6912		49	61	62	63	62	60	54	49	50	62	63	64	63	61	55	51	51	63	64	65	64	62	56	52	52	64	65	66	65	63	57	53	53	65	66	66	66	64	58	53
	3200	11520		55	67	68	69	68	66	60	55	56	68	69	70	69	67	61	57	57	69	70	71	70	68	62	58	58	70	71	72	71	69	63	59	59	71	72	73	72	70	64	59
	4480	16128		57	69	70	71	70	68	62	57	58	70	71	72	71	69	63	59	59	71	72	73	72	70	64	60	60	72	73	74	73	71	65	61	61	73	74	74	74	72	66	61
	6400	23040		60	72	73	74	73	71	65	61	61	73	74	75	74	72	66	62	62	75	76	76	75	73	67	63	63	75	76	77	76	74	68	64	64	76	77	78	77	75	69	64
1000x600	600	2160		38	51	52	52	52	50	44	39	39	52	53	53	53	51	45	40	41	53	54	54	54	52	46	41	41	54	55	55	55	53	47	42	42	55	56	56	55	54	48	43
	1800	6480		50	62	63	64	63	61	55	51	51	64	65	65	64	62	56	52	52	65	66	66	65	63	57	53	53	66	66	67	66	64	58	54	54	66	67	68	67	65	59	55
	3000	10800		54	66	67	68	67	65	59	55	55	68	69	69	68	66	60	56	56	69	70	70	69	67	62	57	57	70	71	71	70	68	62	58	58	70	71	72	71	69	63	59
	4200	15120		57	69	70	71	70	68	62	58	58	71	72	72	71	69	64	59	59	72	73	73	72	70	65	60	60	73	74	74	73	71	65	61	61	73	74	75	74	72	66	62
	6000	21600		60	73	74	74	73	71	65	61	61	74	75	75	75	73	67	62	62	75	76	76	76	74	68	63	63	76	77	77	76	74	69	64	64	77	77	78	77	75	69	65
1000x1000	1000	3600		37	50	51	51	50	48	42	38	38	51	52	52	51	50	44	39	39	52	53	53	52	51	45	40	40	53	54	54	53	51	45	41	41	53	54	55	54	52	46	42
	3000	10800		46	58	59	60	59	57	51	47	47	60	61	61	60	58	53	48	48	61	62	62	61	59	54	49	49	62	63	63	62	60	54	50	50	62	63	64	63	61	55	51
	5000	18000		54	66	67</																																					

Product code RVV-Q

The regulator identification will be coded according to the nomenclature indicated in the table.

RVV-Q	Variable air volume regulator
RVV-QD	Insulated variable air volume regulator
L x H	Dimensions in mm

Example: RVV-Q 500x200

Product code JVR

The regulator identification will be coded according to the nomenclature indicated in the table.

JVR	Variable air volume regulator
JVR-D	Insulated variable air volume regulator
JVR-C3	Variable air volume regulator with class “C” and “3” air leakage set out in EN 1751
JVR-C3-D	Insulated variable air volume regulator with class “C” and “3” air leakage set out in EN 1751
L x H	Dimensions in mm

Example: JVR-D 500x300



Koolair factory setting

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