

VCMR

Constant-volume units

Mechanical control

Single-walled and double-walled

LUKA C/ATC 3

Use

The mechanical constant-volume unit VCMR serves to keep a constant adjustable volume flow, independent of any inlet pressure and without an external energy supply. The unit has a scale in m³/h and can be set easily from the outside. The unit fully compensates a change to the inlet pressure with an accuracy of approximately 5 to 15 %. In smaller models and/or with lower air volumes, the inaccuracy may increase. The units are suitable for supply air and discharge air.

Characteristics

- Volume range up to 6480 m³/h
- Pressure range of 50-1000 Pa.
- Available in seventeen model sizes.
- Low internal resistance.
- Insensitive to dirt.
- Can be fitted in any position.
- Can be adjusted across the entire volume range.
- Airtightness class LUKA C/ ATC 3.

Finish

housing: sendzimir galvanised steel sheet
 blade spindle: stainless steel mounting in special
 no-maintenance bearings

Available types

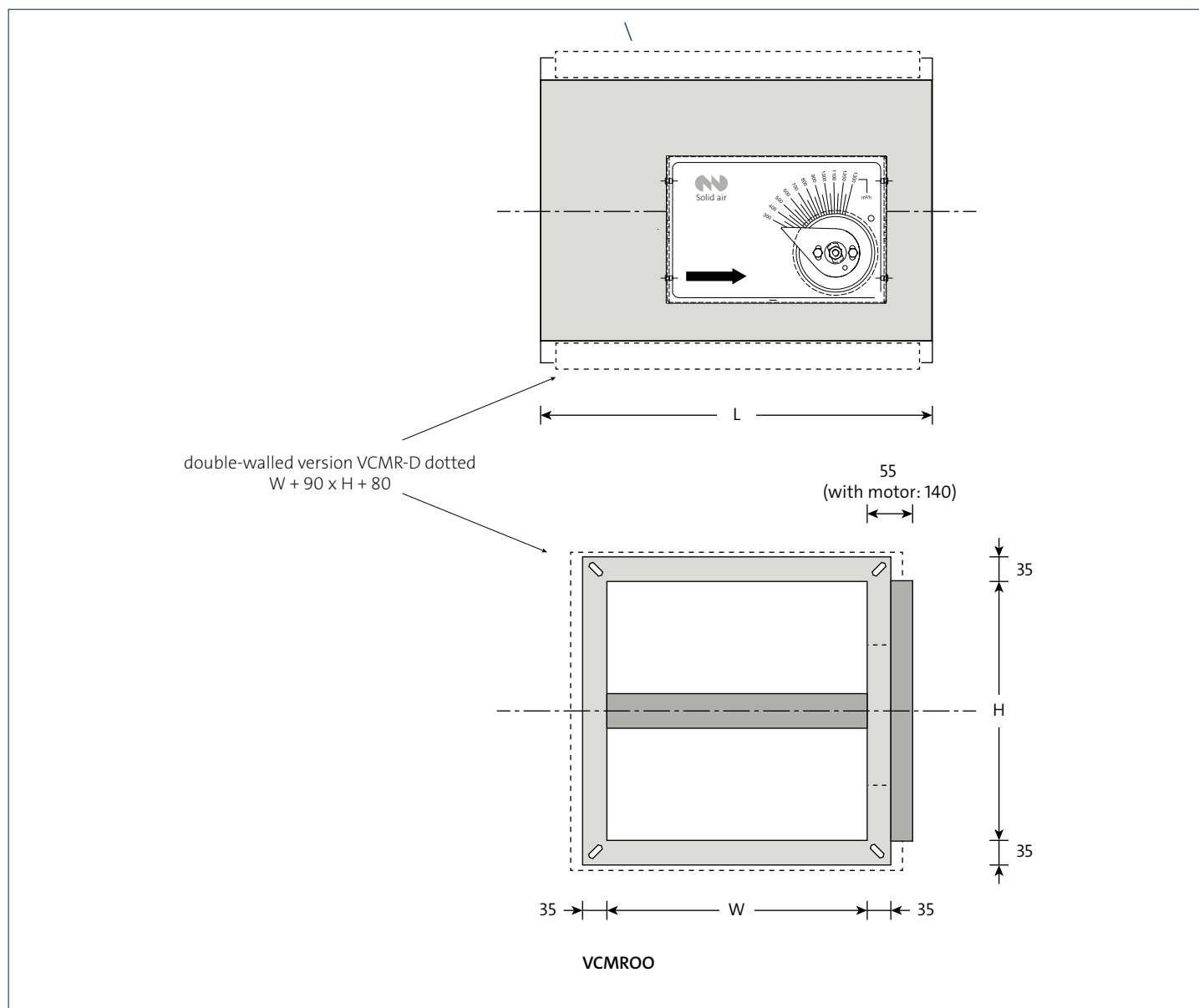
V C M R - -

- V** volume unit
- C** constant volume
- M** mechanical control
- R** rectangular version, adjustable

- **Adjustable**
 - O** manual
 - M** motor (see price list)

- **Version**
 - O** single-walled
 - D** double-walled

Dimensions



Length for available dimensions

H	W				
	200	300	400	500	600
100	300	300	-	-	-
150	325	325	-	-	-
200	425	350	375	375	350
250	-	450	450	400	500
300	-	500	500	500	500

Comment

- The listed dimensions are in mm.

Fitting

Variable-volume units type VCMR are insensitive to the fitting position. However, the disruption of the flow due to bends and branches must be taken into account. Four times the height before the unit in a straight flow is recommended and twice the height after the unit. The duct dimension corresponds to the connection size of the unit.

Authority

To guarantee the accuracy of the unit, the pressure drop over the damper blade should at least equal the pressure drop of the section with fittings behind it.

General

The VCMR cannot be put in a closed position.

Selection details

W x H	air volume		Pmin		pressure drop over the damper blade																				
					50 Pa						100 Pa						250 Pa								
					L _w in dB/octave band					L _p	L _w in dB/octave band					L _p	L _w in dB/octave band				L _p				
m ³ /s	m ³ /h	m/s	63	125	250	500	1k	2k	dB(A)	63	125	250	500	1k	2k	dB(A)	63	125	250	500	1k	2k	dB(A)		
200 x 100	0.056	200	50	2.8	49	44	39	35	34	32	19	52	49	46	41	40	38	23	56	55	54	49	47	46	30
	0.080	288	50	4.0	58	51	44	38	37	36	26	60	56	51	45	43	42	30	62	62	59	53	51	50	35
	0.120	432	50	6.0	65	57	47	39	38	40	32	66	61	54	47	45	46	35	67	67	63	57	53	53	40
	0.160	576	75	8.0	-	-	-	-	-	-	-	71	65	57	48	46	48	39	71	71	66	59	55	55	44
	0.200	720	100	10.0	-	-	-	-	-	-	-	74	68	59	49	47	49	42	73	74	69	61	57	56	46
200 x 150 and 300 x 100	0.069	250	50	2.3	46	42	38	35	34	30	16	50	48	45	41	40	37	22	55	54	53	48	47	46	29
	0.120	432	50	4.0	58	51	44	38	37	36	26	60	56	51	45	43	43	30	63	62	59	54	51	50	36
	0.180	648	50	6.0	65	56	47	38	37	39	32	66	61	54	47	45	46	35	67	67	63	57	53	53	40
	0.240	864	75	8.0	-	-	-	-	-	-	-	71	65	57	48	46	48	39	71	71	66	59	55	55	44
	0.300	1080	100	10.0	-	-	-	-	-	-	-	74	68	59	49	47	49	42	73	74	69	61	57	56	46
200 x 200	0.097	350	50	2.4	47	43	39	36	34	31	17	52	49	46	42	41	39	23	57	56	55	50	49	48	30
	0.160	576	50	4.0	58	51	44	38	37	36	26	61	57	52	46	44	43	31	64	63	60	55	52	51	37
	0.240	864	50	6.0	65	56	47	38	37	39	32	67	62	55	47	45	46	36	68	68	64	58	54	54	41
	0.320	1152	75	8.0	-	-	-	-	-	-	-	71	66	57	49	47	48	40	72	72	67	60	56	56	45
	0.400	1440	100	10.0	-	-	-	-	-	-	-	74	68	59	49	47	49	42	74	74	69	62	57	57	47
300 x 150	0.097	350	50	2.2	45	42	38	35	34	30	16	50	48	45	42	41	38	22	56	55	54	50	49	48	30
	0.180	648	50	4.0	58	51	44	38	37	36	26	61	57	52	46	44	43	31	64	64	61	55	53	52	37
	0.270	972	50	6.0	65	56	47	38	37	39	32	67	62	55	47	45	46	36	69	69	65	58	55	54	42
	0.360	1296	75	8.0	-	-	-	-	-	-	-	71	66	57	49	47	48	40	72	72	68	61	57	56	45
	0.450	1620	100	10.0	-	-	-	-	-	-	-	74	68	59	49	47	49	42	74	75	70	62	58	57	47
300 x 200	0.139	500	50	2.3	47	43	39	36	35	31	18	52	49	47	43	42	39	24	58	57	56	51	50	49	31
	0.240	864	50	4.0	59	52	45	38	37	37	26	61	57	52	46	44	44	31	65	64	61	56	53	52	38
	0.360	1296	50	6.0	65	57	47	39	38	40	32	67	62	55	48	46	47	36	69	69	65	59	55	55	42
	0.480	1728	75	8.0	-	-	-	-	-	-	-	71	66	57	49	47	48	40	72	72	68	61	57	56	45
	0.600	2160	100	10.0	-	-	-	-	-	-	-	74	68	59	49	47	49	42	74	75	70	62	58	57	47
300 x 250	0.167	600	50	2.2	47	43	40	37	36	32	18	52	49	47	43	42	39	24	58	57	56	52	51	50	32
	0.300	1080	50	4.0	59	52	45	38	37	37	26	61	57	52	46	44	44	31	65	65	62	56	54	53	38
	0.450	1620	50	6.0	65	57	47	39	38	40	32	67	62	55	48	46	47	36	70	70	66	59	56	55	43
	0.600	2160	75	8.0	-	-	-	-	-	-	-	71	66	57	49	47	48	40	73	73	68	61	57	57	46
	0.750	2700	100	10.0	-	-	-	-	-	-	-	73	67	57	48	45	48	40	73	74	69	61	57	56	46
400 x 200	0.194	700	50	2.4	49	45	41	37	36	33	19	54	51	48	44	43	40	25	60	59	57	53	52	50	33
	0.320	1152	50	4.0	59	52	45	39	38	37	27	62	58	53	47	45	44	32	66	65	62	57	54	53	39
	0.480	1728	50	6.0	66	57	48	39	38	40	33	68	63	56	48	46	47	37	70	70	66	60	56	56	43
	0.640	2304	75	8.0	-	-	-	-	-	-	-	72	66	58	49	47	49	40	73	73	69	62	58	57	46
	0.800	2880	100	10.0	-	-	-	-	-	-	-	73	67	58	48	46	48	41	74	74	69	62	57	57	47
300 x 300	0.208	750	50	2.3	48	44	40	37	36	32	19	53	50	48	44	43	40	25	59	58	57	53	51	50	33
	0.360	1296	50	4.0	59	52	45	39	38	37	27	62	58	53	47	45	44	32	66	65	62	57	54	53	39
	0.540	1944	50	6.0	66	57	48	39	38	40	33	68	63	56	48	46	47	37	70	70	66	60	56	56	43
	0.720	2592	75	8.0	-	-	-	-	-	-	-	72	66	58	49	47	49	40	73	73	69	62	58	57	46
	0.900	3240	100	10.0	-	-	-	-	-	-	-	75	69	59	50	47	50	42	75	76	71	63	59	58	48
400 x 250	0.222	800	50	2.2	48	44	41	38	37	33	19	53	50	48	44	43	40	25	60	59	58	53	52	51	33
	0.400	1440	50	4.0	60	53	46	39	38	38	27	62	58	53	47	45	45	32	67	66	63	58	55	54	40
	0.600	2160	50	6.0	66	57	48	39	38	40	33	68	63	56	48	46	47	37	71	71	67	60	57	56	44
	0.800	2880	75	8.0	-	-	-	-	-	-	-	72	66	58	49	47	49	40	74	74	69	62	58	58	47
	1.000	3600	100	10.0	-	-	-	-	-	-	-	75	69	59	50	47	50	42	76	76	71	64	59	59	49
500 x 200	0.243	875	50	2.4	50	45	41	38	37	33	20	54	51	48	45	43	41	26	61	60	58	54	53	51	34
	0.400	1440	50	4.0	60	53	46	39	38	38	27	62	58	53	47	45	45	32	67	66	63	58	55	54	40
	0.600	2160	50	6.0	66	57	48	39	38	40	33	68	63	56	48	46	47	37	71	71	67	60	57	56	44
	0.800	2880	75	8.0	-	-	-	-	-	-	-	72	66	58	49	47	49	40	74	74	69	62	58	58	47
	1.000	3600	100	10.0	-	-	-	-	-	-	-	75	69	59	50	47	50	42	76	76	71	64	59	59	49
400 x 300	0.278	1000	50	2.3	48	44	40	37	36	32	18	53	50	48	44	43	40	25	60	59	58	53	52	51	33
	0.480	1728	50	4.0	60	53	46	39	38	38	27	63	59	54	48	46	45	33	67	67	64	58	56	55	40
	0.720	2592	50	6.0	65	57	47	39	38	40	32	68	63	56	48	46	47	37	71	71	67	60	57	56	44
	0.960	3456	75	8.0	-	-	-	-	-	-	-	72	66	58	49	47	49	40	74	74	69	62	58	58	47
	1.200	4320	100	10.0	-	-	-	-	-	-	-	75	69	59	50	47	50	42	76	76	71	64	59	59	49
600 x 200	0.313	1125	50	2.6	50	46	41	37	36	33	20	55	52	49	45	43	41	26	61	60	59	54	53	52	3

Air noise VCMR

W x H	air volume		Pmin		pressure drop over the damper blade																							
					50 Pa								100 Pa								250 Pa							
					L _w in dB/octave band						L _p	L _w in dB/octave band						L _p	L _w in dB/octave band						L _p			
m ³ /s	m ³ /h	63	125	250	500	1k	2k	dB(A)	63	125	250	500	1k	2k	dB(A)	63	125	250	500	1k	2k	dB(A)						
500 x 250	0.278	1000	50	2.2	48	44	41	38	37	33	19	54	51	48	45	44	41	25	60	59	58	54	53	52	34			
	0.500	1800	50	4.0	60	53	46	39	38	38	27	63	59	54	48	46	45	33	67	67	64	58	56	55	40			
	0.750	2700	50	6.0	66	57	48	39	38	40	33	68	63	56	49	47	48	37	71	71	67	61	57	57	44			
	1.000	3600	75	8.0	-	-	-	-	-	-	-	72	67	58	50	48	49	41	74	74	70	63	59	58	47			
	1.250	4500	100	10.0	-	-	-	-	-	-	-	75	69	59	50	47	50	42	76	76	71	64	59	59	49			
500 x 300	0.333	1200	50	2.2	48	44	41	38	37	33	19	54	51	49	45	44	41	26	61	60	59	54	53	52	34			
	0.600	2160	50	4.0	60	53	46	39	38	38	27	63	59	54	48	46	46	33	68	67	64	59	56	55	41			
	0.900	3240	50	6.0	66	57	48	39	38	40	33	69	64	57	49	47	48	38	72	72	68	61	58	57	45			
	1.200	4320	75	8.0	-	-	-	-	-	-	-	72	67	58	50	48	49	41	74	74	70	63	59	58	47			
	1.500	5400	100	10.0	-	-	-	-	-	-	-	75	69	60	50	48	50	43	76	77	72	64	60	59	49			
600 x 250	0.389	1400	50	2.6	51	46	42	38	37	34	20	56	53	50	46	45	42	27	62	61	60	55	54	53	36			
	0.600	2160	50	4.0	60	53	46	39	38	38	27	63	59	54	48	46	46	33	68	67	64	59	56	55	41			
	0.900	3240	50	6.0	66	57	48	39	38	40	33	69	64	57	49	47	48	38	72	72	68	61	58	57	45			
	1.200	4320	75	8.0	-	-	-	-	-	-	-	72	67	58	50	48	49	41	74	74	70	63	59	58	47			
	1.500	5400	100	10.0	-	-	-	-	-	-	-	75	69	60	50	48	50	43	76	77	72	64	60	59	49			
600 x 300	0.444	1600	50	2.5	51	46	42	39	38	34	21	56	53	50	47	45	43	28	63	62	61	56	55	54	37			
	0.720	2592	50	4.0	60	53	46	40	39	38	28	64	60	55	49	47	46	34	69	68	65	60	57	56	42			
	1.080	3888	50	6.0	66	57	48	39	38	40	33	69	64	57	49	47	48	38	72	72	68	62	58	58	45			
	1.440	5184	75	8.0	-	-	-	-	-	-	-	73	67	59	50	48	50	41	75	75	71	64	60	59	48			
	1.800	6480	100	10.0	-	-	-	-	-	-	-	75	69	60	50	48	50	43	77	77	72	65	60	60	50			

Radiation noise VCMR

W x H	air volume		Pmin		pressure drop over the damper blade																							
					50 Pa								100 Pa								250 Pa							
					L _w in dB/octave band						L _p	L _w in dB/octave band						L _p	L _w in dB/octave band						L _p			
m ³ /s	m ³ /h	63	125	250	500	1k	2k	dB(A)	63	125	250	500	1k	2k	dB(A)	63	125	250	500	1k	2k	dB(A)						
200 x 100	0.056	200	50	2.8	41	40	32	29	24	23	16	45	44	37	34	29	29	21	50	49	43	39	35	36	26			
	0.080	288	50	4.0	46	44	35	32	29	27	20	49	49	41	37	33	32	25	54	54	48	43	39	39	30			
	0.120	432	50	6.0	50	48	38	35	32	31	24	53	53	44	40	37	36	29	57	59	52	46	42	41	35			
	0.160	576	75	8.0	-	-	-	-	-	-	-	56	56	47	42	39	38	31	60	62	55	49	45	43	38			
	0.200	720	100	10.0	-	-	-	-	-	-	-	58	59	49	44	41	39	34	62	65	57	50	46	44	40			
200 x 150 and 300 x 100	0.069	250	50	2.3	39	38	31	28	23	21	14	43	43	36	33	28	28	19	49	48	43	39	35	36	25			
	0.120	432	50	4.0	46	44	35	32	29	27	20	50	49	42	38	34	33	25	55	56	49	44	40	40	32			
	0.180	648	50	6.0	50	48	38	35	32	31	24	54	54	45	41	37	36	29	59	60	53	48	44	43	36			
	0.240	864	75	8.0	-	-	-	-	-	-	-	57	57	47	43	40	38	32	61	64	56	50	46	44	39			
	0.300	1080	100	10.0	-	-	-	-	-	-	-	59	59	49	45	42	40	34	63	66	58	52	48	46	41			
200 x 200	0.097	350	50	2.4	39	38	31	28	23	22	15	44	43	37	33	28	28	20	50	49	43	39	35	36	26			
	0.160	576	50	4.0	46	44	35	32	29	27	20	50	49	42	38	34	33	25	55	56	49	44	40	40	32			
	0.240	864	50	6.0	50	49	39	36	33	31	24	54	54	45	41	38	37	30	59	61	54	48	44	43	37			
	0.320	1152	75	8.0	-	-	-	-	-	-	-	57	57	48	43	40	39	32	62	64	57	51	47	45	40			
	0.400	1440	100	10.0	-	-	-	-	-	-	-	59	60	50	45	42	40	35	64	67	59	52	48	46	42			
300 x 150	0.097	350	50	2.2	38	37	30	27	22	21	14	43	42	36	32	28	27	19	49	48	43	39	35	36	25			
	0.180	648	50	4.0	46	44	35	32	29	27	20	50	49	42	38	34	33	25	56	56	50	45	41	41	32			
	0.270	972	50	6.0	50	49	39	36	33	31	24	54	54	45	41	38	37	30	60	61	54	49	45	44	37			
	0.360	1296	75	8.0	-	-	-	-	-	-	-	57	57	48	43	40	39	32	62	65	57	51	47	45	40			
	0.450	1620	100	10.0	-	-	-	-	-	-	-	59	60	50	45	42	40	35	64	67	59	53	49	47	42			
300 x 200	0.139	500	50	2.3	40	39	32	29	24	22	15	44	44	37	34	29	29	20	51	50	44	41	36	37	27			
	0.240	864	50	4.0	47	45	36	33	30	28	21	51	50	43	39	35	34	26	57	57	51	46	42	42	33			
	0.360	1296	50	6.0	51	50	40	37	34	32	25	55	55	46	42	39	38	31	61	62	55	50	46	45	38			
	0.480	1728	75	8.0	-	-	-	-	-	-	-	58	58	49	44	41	40	33	63	66	58	52	48	46	41			
	0.600	2160	100	10.0	-	-	-	-	-	-	-	60	61	51	46	43	41	36	65	68	60	54	50	48	43			
300 x 250	0.167	600	50	2.2	39	38	31	28	23	22	15	44	43	37	34	29	29	20	50	50	44	40	36	37	27			
	0.300	1080	50	4.0	47	45	36	33	30	28	21	51	51	43	39	35	34	27	57	58	51	46	42	42	34			
	0.450	1620	50	6.0	51	50	40	37	34	32	25	56	56	47	43	39	38	31	61	63	56	50	46	45	39			
	0.600	2160	75	8.0	-	-	-	-	-	-	-	59	59	49	45	42	40	34	64	66	59	53	49	47	42			
	0.750	2700	100	10.0	-	-	-	-	-	-	-	61	61	51	47	44	42	36	66	69	61	54	50	48	44			

Radiation noise VCMR

W x H	air volume				pressure drop over the damper blade																				
					50 Pa						100 Pa						250 Pa								
					L _w in dB/octave band					L _p	L _w in dB/octave band					L _p	L _w in dB/octave band					L _p			
m ³ /s	m ³ /h	Pmin	m/s	63	125	250	500	1k	2k	dB(A)	63	125	250	500	1k	2k	dB(A)	63	125	250	500	1k	2k	dB(A)	
400 x 200	0.194	700	50	2.4	40	39	32	29	24	23	16	45	44	38	34	29	29	21	52	51	45	41	37	38	28
	0.320	1152	50	4.0	47	45	36	33	30	28	21	51	50	43	39	35	34	26	57	58	51	46	42	42	34
	0.480	1728	50	6.0	51	50	40	37	34	32	25	55	55	46	42	39	38	31	61	63	56	50	46	45	39
	0.640	2304	75	8.0	-	-	-	-	-	-	-	59	59	49	45	42	40	34	64	67	59	53	49	47	42
	0.800	2880	100	10.0	-	-	-	-	-	-	-	61	61	51	47	44	42	36	66	69	61	55	51	49	44
300 x 300	0.208	750	50	2.3	39	39	31	28	23	22	15	44	44	37	34	29	29	20	51	50	45	41	37	38	27
	0.360	1296	50	4.0	46	45	36	33	29	28	20	51	50	43	39	35	34	26	57	58	51	46	42	42	34
	0.540	1944	50	6.0	51	49	39	36	33	32	25	55	55	46	42	39	38	31	61	63	56	50	46	45	39
	0.720	2592	75	8.0	-	-	-	-	-	-	-	59	59	49	45	42	40	34	64	67	59	53	49	47	42
	0.900	3240	100	10.0	-	-	-	-	-	-	-	61	62	52	47	44	42	37	67	70	62	55	51	49	45
400 x 250	0.222	800	50	2.2	39	38	31	28	23	22	15	44	43	37	34	29	29	20	51	50	45	41	37	38	27
	0.400	1440	50	4.0	47	45	36	33	30	28	21	51	51	43	39	35	34	27	58	58	52	47	43	43	34
	0.600	2160	50	6.0	51	50	40	37	34	32	25	56	56	47	43	39	38	31	62	63	56	51	47	46	39
	0.800	2880	75	8.0	-	-	-	-	-	-	-	59	59	50	45	42	41	34	65	67	60	54	50	48	43
	1.000	3600	100	10.0	-	-	-	-	-	-	-	61	62	52	47	44	42	37	67	70	62	55	51	49	45
500 x 200	0.243	875	50	2.4	40	39	32	29	24	22	15	45	44	38	34	30	29	21	52	51	45	41	37	38	28
	0.400	1440	50	4.0	47	45	36	33	30	28	21	51	51	43	39	35	34	27	58	58	52	47	43	43	34
	0.600	2160	50	6.0	51	50	40	37	34	32	25	56	56	47	43	39	38	31	62	63	56	51	47	46	39
	0.800	2880	75	8.0	-	-	-	-	-	-	-	59	59	50	45	42	41	34	65	67	60	54	50	48	43
	1.000	3600	100	10.0	-	-	-	-	-	-	-	61	62	52	47	44	42	37	67	70	62	55	51	49	45
400 x 300	0.278	1000	50	2.3	40	39	32	29	24	22	15	45	44	38	34	30	29	21	52	51	45	42	37	38	28
	0.480	1728	50	4.0	47	46	37	34	30	29	21	52	51	44	40	36	35	27	58	59	52	47	43	43	35
	0.720	2592	50	6.0	52	50	40	37	34	33	26	56	56	47	43	40	39	32	62	64	57	51	47	46	40
	0.960	3456	75	8.0	-	-	-	-	-	-	-	60	60	50	46	43	41	35	65	68	60	54	50	48	43
	1.200	4320	100	10.0	-	-	-	-	-	-	-	62	62	52	48	45	43	37	67	70	62	56	52	50	45
600 x 200	0.313	1125	50	2.6	41	40	33	30	25	24	16	46	46	39	35	31	30	22	53	52	47	43	38	39	29
	0.480	1728	50	4.0	47	46	37	34	30	29	21	52	51	44	40	36	35	27	58	59	52	47	43	43	35
	0.720	2592	50	6.0	52	50	40	37	34	33	26	56	56	47	43	40	39	32	62	64	57	51	47	46	40
	0.960	3456	75	8.0	-	-	-	-	-	-	-	60	60	50	46	43	41	35	65	68	60	54	50	48	43
	1.200	4320	100	10.0	-	-	-	-	-	-	-	62	62	52	48	45	43	37	67	70	62	56	52	50	45
500 x 250	0.278	1000	50	2.2	40	39	32	29	23	22	15	45	44	37	34	29	29	20	51	51	45	41	37	38	28
	0.500	1800	50	4.0	47	46	37	34	30	29	21	52	51	44	40	36	35	27	58	59	52	47	43	43	35
	0.750	2700	50	6.0	52	50	40	37	34	33	26	56	56	47	43	40	39	32	62	64	57	51	47	46	40
	1.000	3600	75	8.0	-	-	-	-	-	-	-	60	60	50	46	43	41	35	65	68	60	54	50	48	43
	1.250	4500	100	10.0	-	-	-	-	-	-	-	62	62	52	48	45	43	37	67	70	62	56	52	50	45
600 x 250	0.333	1200	50	2.2	40	39	32	29	23	22	15	45	44	38	35	30	30	21	52	51	46	42	38	39	28
	0.600	2160	50	4.0	47	46	37	34	30	29	21	52	52	44	40	36	35	28	59	59	53	48	44	44	35
	0.900	3240	50	6.0	52	50	40	37	34	33	26	57	57	48	44	40	39	32	63	64	57	52	48	47	40
	1.200	4320	75	8.0	-	-	-	-	-	-	-	60	60	51	46	43	42	35	66	68	61	55	51	49	44
	1.500	5400	100	10.0	-	-	-	-	-	-	-	62	63	53	48	45	43	38	68	71	63	56	52	50	46
500 x 300	0.389	1400	50	2.6	41	40	33	30	25	23	16	47	46	39	36	31	31	22	53	53	47	43	39	40	30
	0.600	2160	50	4.0	47	46	37	34	30	29	21	52	52	44	40	36	35	28	59	59	53	48	44	44	35
	0.900	3240	50	6.0	52	50	40	37	34	33	26	57	57	48	44	40	39	32	63	64	57	52	48	47	40
	1.200	4320	75	8.0	-	-	-	-	-	-	-	60	60	51	46	43	42	35	66	68	61	55	51	49	44
	1.500	5400	100	10.0	-	-	-	-	-	-	-	62	63	53	48	45	43	38	68	71	63	56	52	50	46
600 x 300	0.444	1600	50	2.5	41	40	33	30	25	23	16	47	46	39	36	31	31	22	54	53	47	44	39	40	30
	0.720	2592	50	4.0	47	46	37	34	30	29	21	52	52	44	40	36	35	28	59	60	53	48	44	44	36
	1.080	3888	50	6.0	52	50	40	37	34	33	26	57	57	48	44	40	39	32	63	65	58	52	48	47	41
	1.440	5184	75	8.0	-	-	-	-	-	-	-	60	60	51	46	43	42	35	66	69	61	55	51	49	44
	1.800	6480	100	10.0	-	-	-	-	-	-	-	63	63	53	49	46	44	38	69	72	64	57	53	51	47

Correction table

Air noise 4k and 8k compared to 2k

m/s	50 Pa		100 Pa		250 Pa	
	4k	8k	4k	8k	4k	8k
2	-10	-17	-7	-14	-3	-8
4	-8	-17	-6	-14	-3	-9
6	-6	-17	-5	-14	-3	-10
8	-	-	-4	-14	-3	-10
10	-	-	-4	-14	-3	-10

Radiation noise 4k and 8k compared to 2k

m/s	50 Pa		100 Pa		250 Pa	
	4k	8k	4k	8k	4k	8k
2	-13	-20	-10	-16	-6	-11
4	-9	-19	-8	-16	-5	-11
6	-7	-18	-6	-15	-5	-11
8	-	-	-5	-15	-4	-11
10	-	-	-4	-14	-4	-12

Noise data

- Minimum static pressure loss over the unit P_{\min} in Pa. The sound-power capacity L_w is given in dB with a reference value of 10^{-12} watt.
- The sound-pressure values L_p are given in dB(A). The values are given for air noise with an attenuator and a ceiling diffuser with a plenum box. The radiation noise has been calculated with attenuation of the ceiling plenum and an insulation value of a suspended ceiling. See the correction table for the relevant calculation values.
- The assumed space attenuation is 10 dB. If the actual value is lower, the dB(A) values have to be corrected.
- The radiation noise of the double-walled version is approximately 5 dB lower than the above table values.
- **NB:** the L_w values are measured with a duct ending in the clearance (including end reflection).
- For high noise requirements (< 25 dB(A)), hard rooms, light walls, please consult an acoustic adviser.
- It is permitted to interpolate the interim values.
- **NB:** the available pressure drop over the unit should be at least 50 Pa.

Correction table ceiling attenuation

octave bands	63	125	250	500	1k	2k	4k	8k
air noise	0	5	10	20	30	30	25	20
radiation noise	0	2	5	10	15	15	15	15