



Variable Air Volume Control
VAV 3000 Grand-S

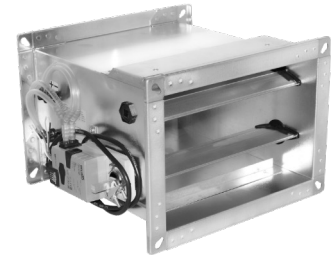
At Gerhman we are driven by a strong desire to continuously generate improvements. We do that by developing products and systems that are easy to use and energy efficient, together with industry-leading knowledge, support, logistics and efficient availability.



gerhman.com

Variable air volume control

VAV 3000 Grand-S

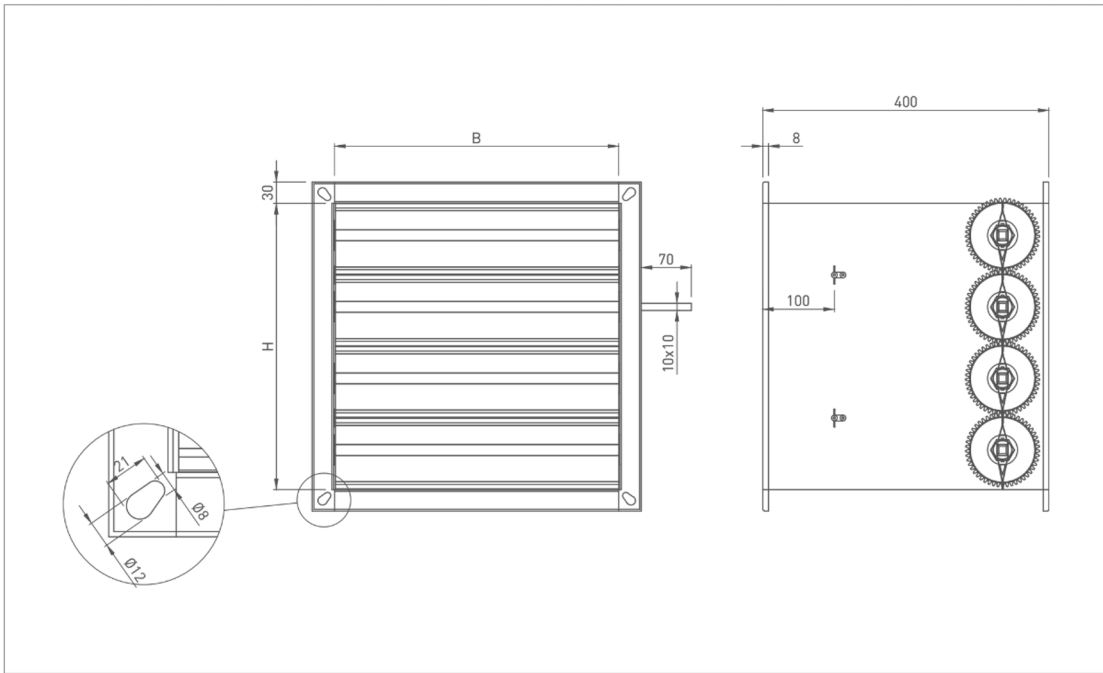


Rectangular VAV box (Variable Air Volume) in galvanised sheet steel, equipped with electronic Belimo or Siemens controller and a built-in aluminium pressure differential sensor.

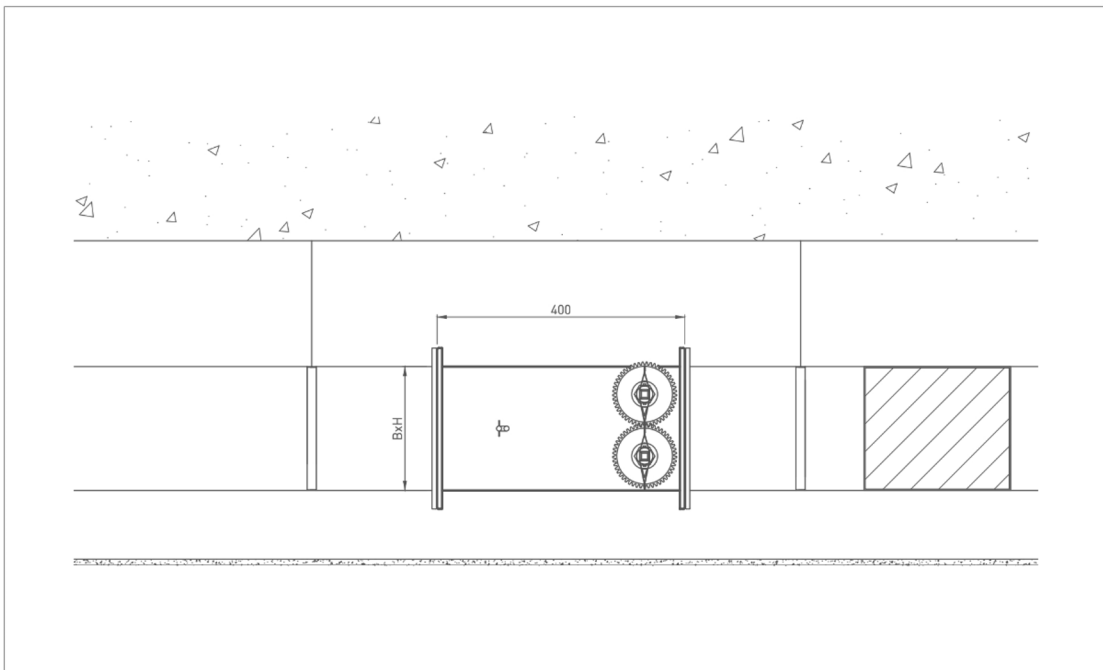
The aluminium damper has lubricant-free bearings.

APP LICATI ON	Product VAV 3000 Grand-S
CONSTRUCTION	Core, shape Rectangular
	Min. length 400 mm
	Max. length 400 mm
	Min. height 150 mm
	Max. height 1200 mm
	Min. width 200 mm
	Max. width 1200 mm
	Available steps in heigh 50 mm
MATERIAL	Standard material Galvanised steel (275 g/m ²)
	Add-on material Aluminium differential pressure sensor
	Steel plate damper
MOUNTING	Sealing strip - Yes
PERFORM ANCE	Min. air flow Defined @ 1,5 m/s - see selection table p.7
	Max. air flow Defined @ 10 m/s - see selection table p.7

DRAWING



FIXING METHOD



DIMENSIONS

B x H [mm]		B					
H	200	250	300	350	400	450	500
150	200 x 150	250 x 150	300 x 150	350 x 150	400 x 150	450 x 150	500 x 150
200	200 x 200	250 x 200	300 x 200	300 x 200	400 x 200	450 x 200	500 x 200
250	200 x 250	250 x 250	300 x 250	350 x 250	400 x 250	450 x 250	500 x 250
300	200 x 300	250 x 300	300 x 300	350 x 300	400 x 300	450 x 300	500 x 300
350	200 x 350	250 x 350	300 x 350	350 x 350	400 x 350	450 x 350	500 x 350
400	200 x 400	250 x 400	300 x 400	350 x 400	400 x 400	450 x 400	500 x 400
450	200 x 450	250 x 450	300 x 450	350 x 450	400 x 450	450 x 450	500 x 450
500	200 x 500	250 x 500	300 x 500	350 x 500	400 x 500	450 x 500	500 x 500
600	200 x 600	250 x 600	300 x 600	350 x 600	400 x 600	450 x 600	500 x 600
700	200 x 700	250 x 700	300 x 700	350 x 700	400 x 700	450 x 700	500 x 700
800	200 x 800	250 x 800	300 x 800	350 x 800	400 x 800	450 x 800	500 x 800
900	200 x 900	250 x 900	300 x 900	350 x 900	400 x 900	450 x 900	500 x 900
1000	200 x 1000	250 x 1000	300 x 1000	350 x 1000	400 x 1000	450 x 1000	500 x 1000
1100	200 x 1100	250 x 1100	300 x 1100	350 x 1100	400 x 1100	450 x 1100	500 x 1100
1200	200 x 1200	250 x 1200	300 x 1200	350 x 1200	400 x 1200	450 x 1200	500 x 1200

B x H [mm]		B					
H	600	700	800	900	1000	1100	1200
150	600 x 150	700 x 150	800 x 150	900 x 150	1000 x 150	1100 x 150	1200 x 150
200	600 x 200	700 x 200	800 x 200	900 x 200	1000 x 200	1100 x 200	1200 x 200
250	600 x 250	700 x 250	800 x 250	900 x 250	1000 x 250	1100 x 250	1200 x 250
300	600 x 300	700 x 300	800 x 300	900 x 300	1000 x 300	1100 x 300	1200 x 300
350	600 x 350	700 x 350	800 x 350	900 x 350	1000 x 350	1100 x 350	1200 x 350
400	600 x 400	700 x 400	800 x 400	900 x 400	1000 x 400	1100 x 400	1200 x 400
450	600 x 450	700 x 450	800 x 450	900 x 450	1000 x 450	1100 x 450	1200 x 450
500	600 x 500	700 x 500	800 x 500	900 x 500	1000 x 500	1100 x 500	1200 x 500
600	600 x 600	700 x 600	800 x 600	900 x 600	1000 x 600	1100 x 600	1200 x 600
700	600 x 700	700 x 700	800 x 700	900 x 700	1000 x 700	1100 x 700	1200 x 700
800	600 x 800	700 x 800	800 x 800	900 x 800	1000 x 800	1100 x 800	1200 x 800
900	600 x 900	700 x 900	800 x 900	900 x 900	1000 x 900	1100 x 900	1200 x 900
1000	600 x 1000	700 x 1000	800 x 1000	900 x 1000	1000 x 1000	1100 x 1000	1200 x 1000
1100	600 x 1100	700 x 1100	800 x 1100	900 x 1100	1000 x 1100	1100 x 1100	1200 x 1100
1200	600 x 1200	700 x 1200	800 x 1200	900 x 1200	1000 x 1200	1100 x 1200	1200 x 1200

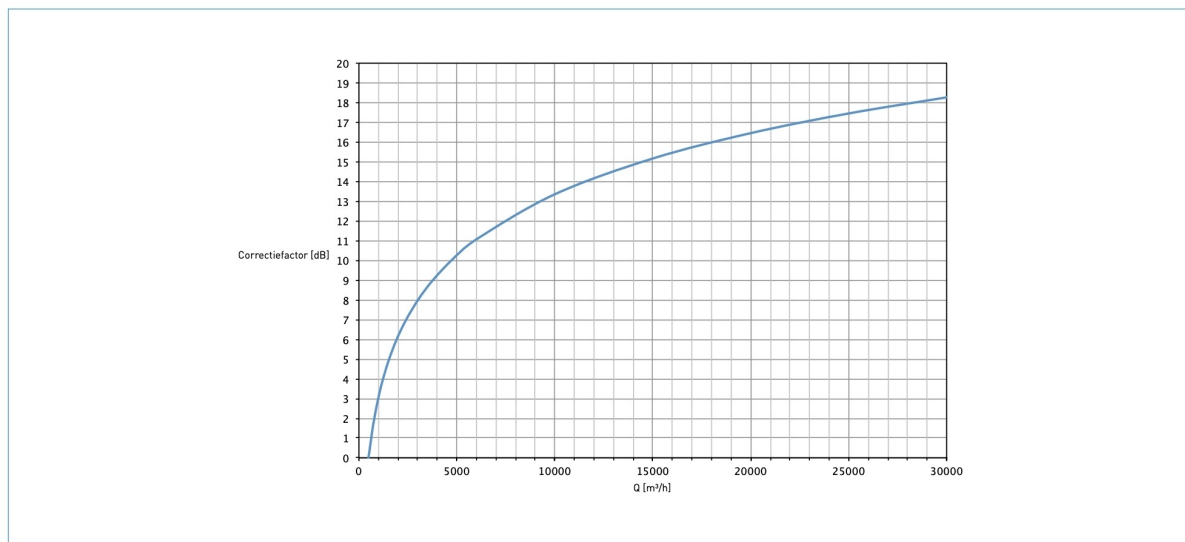
EXPLANATION FOR SOUND DATA [SEE NEXT PAGES]

Min. ΔPs [Pa]	Minimal pressure difference at fully opened valve and at air volume as indicated in the selection table.
QUICK SELECTION Lp [NR]	<p><u>Air sound:</u> A room attenuation of 7dB per octave band is taken into account. The used correction values for duct attenuation, end reflection and sound attenuation of the secondary duct system including grilles and ducts can be found under "correction factors".</p> <p>Sound values smaller than 20 NR are indicated as "-".</p> <p><u>Radiated noise:</u> A room attenuation of 7dB per octave band is taken into account. The used correction values for ceiling attenuation can be found under "correction factors".</p> <p>Sound values smaller than 20 NR are indicated as "-".</p>
AIR- AND RADIATED NOISE	
Lw [dB/oct] re 10 ⁻¹² W	The reference sound power level [Lw] of 0 dB corresponds with 10 ⁻¹² W. Values below 17 dB are indicated as "-".
Lw(A) [dB(A)]	The sound power Lw(A) [dB(A)] smaller than 20 dB(A) is indicated as "-".
Lw [NR]	The sound power Lw [NR] smaller than 20 NR is indicated as "-".

**CORRECTION FACTOR FOR THE QUICK SELECTION OF AIR NOISE (Lp)
DUCT ATTENUATION AND END REFLECTION:**

f [Hz]	125	250	500	1000	2000	4000
dB	-3	-5	-10	-15	-15	-12

ATTENUATION SECONDARY DUCT SYST:



**CORRECTION FACTOR FOR THE QUICK SELECTION OF RADIATED NOISE (Lp)
CEILING ATTENUATION:**

f [Hz]	125	250	500	1000	2000	4000
dB	-1	-3	-5	-7	-7	-10

SELECTION TABLE				PRESSURE LOSS OVER UNIT: 100 Pa																	
B x H [mm]	AIR VOLUME [m³/h]	AIR VELOCITY [m/s]	Min. ΔPs [Pa]	QUICK SELECTION Lp [NR]		AIR NOISE							RADIATED SOUND								
				AIR NOISE	RADIATED SOUND	Lw [dB/oct] re 10 ⁻¹² W					Lw(A) [dB(A)]	Lw [NR]	Lw [dB/oct] re 10 ⁻¹² W					Lw(A) [dB(A)]	Lw [NR]		
						125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz			4000 Hz	125 Hz	250 Hz	500 Hz	1000 Hz			2000 Hz	4000 Hz
300 x 300	474	1,5	1	-	-	41	41	35	18	22	-	36	31	27	25	18	-	-	-	20	-
	1296	4,0	5	33	23	56	59	55	44	43	36	55	52	42	43	38	30	27	28	39	34
	1944	6,0	12	31	22	56	59	53	44	44	37	54	50	42	43	36	30	28	29	39	35
	2592	8,0	21	29	21	55	58	52	43	44	37	53	49	41	42	35	29	28	29	38	34
	3350	10,3	35	28	22	60	58	52	44	48	41	55	51	46	42	35	30	32	33	40	39
400 x 300	632	1,5	1	19	-	42	42	36	19	23	-	37	33	28	26	19	-	-	-	21	-
	1728	4,0	5	33	24	57	60	56	45	44	37	56	53	43	44	39	31	28	29	41	35
	2592	6,0	12	31	23	57	60	55	45	45	39	56	51	43	44	38	31	29	31	40	36
	3456	8,0	21	29	23	56	59	53	44	45	38	55	50	42	43	36	30	29	30	39	36
	4467	10,3	35	28	23	61	60	53	45	50	43	56	52	47	44	36	31	34	35	42	40
400 x 400	804	1,4	1	18	-	43	43	37	19	23	-	37	33	29	27	20	-	-	-	21	-
	2304	4,0	5	33	25	59	61	58	46	46	38	58	54	45	45	41	32	30	30	42	37
	3456	6,0	12	31	25	58	61	56	46	46	40	57	53	44	45	39	32	30	32	41	37
	4608	8,0	21	29	24	57	60	54	46	46	40	56	52	43	44	37	32	30	32	41	37
	5685	9,9	32	29	24	61	61	54	46	50	43	57	53	47	45	37	32	34	35	42	40
500 x 400	1005	1,4	1	19	--	45	45	38	20	24	-	39	35	31	29	21	-	-	-	23	-
	2880	4,0	5	35	27	61	63	59	47	47	39	59	56	47	47	42	33	31	31	43	38
	4320	6,0	12	32	27	60	63	57	47	47	41	58	55	46	47	40	33	31	33	43	38
	5760	8,0	21	30	26	59	62	56	47	47	41	57	54	45	46	39	33	31	33	42	38
	7106	9,9	32	30	26	63	62	56	47	51	44	59	54	49	46	39	33	35	36	44	41
600 x 400	1206	1,4	1	20	-	46	46	39	21	25	-	41	37	32	30	22	-	-	-	25	20
	3456	4,0	5	35	29	62	65	60	48	47	40	61	57	48	49	43	34	31	32	45	40
	5184	6,0	12	33	29	62	65	59	48	48	42	60	56	48	49	42	34	32	34	44	39
	6912	8,0	21	31	28	61	64	57	47	48	41	59	56	47	48	40	33	32	33	43	39
	8528	9,9	32	31	28	65	64	57	48	52	45	60	56	51	48	40	34	36	37	45	42
800 x 400	1608	1,4	1	21	-	49	49	41	22	26	18	43	39	35	33	24	-	-	-	27	22
	4608	4,0	5	37	32	65	67	62	49	49	41	63	60	51	51	45	35	33	33	47	42
	6912	6,0	12	35	31	64	67	61	49	49	43	62	59	50	51	44	35	33	35	46	42
	9216	8,0	21	33	30	63	66	59	49	49	43	61	58	49	50	42	35	33	35	45	41
	11370	9,9	32	32	31	67	67	59	49	53	46	62	59	53	51	42	35	37	38	47	43
1000 x 400	2010	1,4	1	22	-	51	51	43	23	27	19	45	42	37	35	26	-	-	-	29	24
	5760	4,0	5	38	34	67	69	64	50	50	42	64	62	53	53	47	36	34	34	48	45
	8640	6,0	12	36	33	66	69	62	50	50	44	64	61	52	53	45	36	34	36	48	44
	11520	8,0	21	34	32	65	68	61	50	50	44	63	60	51	52	44	36	34	36	47	43
	14213	9,9	32	33	33	69	69	60	50	54	47	63	61	55	53	43	36	38	39	48	44
1000 x 500	2584	1,4	1	24	-	53	53	45	25	29	21	47	44	39	37	28	-	-	-	31	27
	7200	4,0	5	39	36	69	71	65	51	51	43	66	64	55	55	48	37	35	35	50	47
	10800	6,0	12	37	35	68	71	64	51	51	45	65	63	54	55	47	37	35	37	49	46
	14400	8,0	21	35	35	67	70	62	51	51	45	64	62	53	54	45	37	35	37	48	45
	18273	10,2	34	34	35	72	71	62	52	55	49	65	63	58	55	45	38	39	41	50	46

SELECTION TABLE				PRESSURE LOSS OVER UNIT: 200 Pa																			
B x H [mm]	AIR VOLUME [m³/h]	AIR VELOCITY [m/s]	Min. ΔPs [Pa]	QUICK SELECTION		AIR NOISE							RADIATED SOUND										
				Lp [NR]	RADIATED SOUND	Lw [dB/oct] re 10 ⁻¹² W						Lw(A) [dB(A)]	Lw [NR]	Lw [dB/oct] re 10 ⁻¹² W						Lw(A) [dB(A)]	Lw [NR]		
						AIR NOISE	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz			4000 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz			4000 Hz	
300 x 300	474	1,5	1	-	-	40	39	32	-	19	-	33	29	26	23	-	-	-	-	-	-	-	-
	1296	4,0	5	35	25	58	61	58	47	45	38	57	54	44	45	41	33	29	30	42	37	42	37
	1944	6,0	12	43	34	65	69	67	59	55	48	67	64	51	53	50	45	39	40	51	47	51	47
	2592	8,0	21	40	32	64	68	65	57	54	48	65	61	50	52	48	43	38	40	50	45	50	45
	3350	10,3	35	38	31	63	67	62	56	54	48	64	59	49	51	45	42	38	40	49	45	49	45
400 x 300	632	1,5	1	-	-	40	40	33	-	20	-	34	30	26	24	-	-	-	-	-	-	-	-
	1728	4,0	5	35	26	59	62	59	48	47	39	59	55	45	46	42	34	31	31	43	38	43	38
	2592	6,0	12	43	35	66	71	68	60	57	49	68	65	52	55	51	46	41	41	53	48	53	48
	3456	8,0	21	40	33	65	69	66	59	56	49	66	63	51	53	49	45	40	41	51	46	51	46
	4467	10,3	35	38	32	64	68	64	57	55	49	65	60	50	52	47	43	39	41	50	46	50	46
400 x 400	804	1,4	1	38	27	59	62	60	45	43	34	59	57	45	46	43	31	27	26	43	40	43	40
	2304	4,0	5	36	27	60	63	60	49	48	40	60	57	46	47	43	35	32	32	44	39	44	39
	3456	6,0	12	43	37	68	72	70	61	58	51	70	67	54	56	53	47	42	43	54	49	54	49
	4608	8,0	21	40	35	66	70	67	60	57	50	68	64	52	54	50	46	41	42	52	47	52	47
	5685	9,9	32	38	34	65	69	65	59	57	50	66	62	51	53	48	45	41	42	51	47	51	47
500 x 400	1005	1,4	1	39	29	61	63	62	46	44	35	61	59	47	47	45	32	28	27	44	41	44	41
	2880	4,0	5	37	29	62	65	62	50	49	41	62	58	48	49	45	36	33	33	46	41	46	41
	4320	6,0	12	44	38	70	74	71	62	59	52	71	68	56	58	54	48	43	44	55	51	55	51
	5760	8,0	21	41	37	68	72	69	61	58	51	69	65	54	56	52	47	42	43	54	48	54	48
	7106	9,9	32	39	36	67	71	67	60	57	51	68	64	53	55	50	46	41	43	53	48	53	48
600 x 400	1206	1,4	1	40	30	63	65	63	47	45	36	62	60	49	49	46	33	29	28	46	43	46	43
	3456	4,0	5	38	31	64	67	63	51	50	42	63	60	50	51	46	37	34	34	47	42	47	42
	5184	6,0	12	45	40	71	75	72	63	60	52	72	69	57	59	55	49	44	44	56	52	56	52
	6912	8,0	21	42	39	70	74	70	62	59	52	70	67	56	58	53	48	43	44	55	49	55	49
	8528	9,9	32	40	38	69	73	68	61	58	52	69	66	55	57	51	47	42	44	54	49	54	49
800 x 400	1608	1,4	1	42	32	65	68	65	48	46	37	64	62	51	52	48	34	30	29	48	45	48	45
	4608	4,0	5	39	34	66	69	65	52	51	43	65	62	52	53	48	38	35	35	49	45	49	45
	6912	6,0	12	46	43	74	78	74	64	61	54	74	71	60	62	57	50	45	46	58	54	58	54
	9216	8,0	21	43	41	72	76	72	63	60	53	72	69	58	60	55	49	44	45	57	52	57	52
	11370	9,9	32	41	40	71	75	70	62	60	53	71	68	57	59	53	48	44	45	56	51	56	51
1000 x 400	2010	1,4	1	43	34	67	69	67	49	47	38	66	64	53	53	50	35	31	30	49	46	49	46
	5760	4,0	5	40	36	68	71	66	53	52	44	67	64	54	55	49	39	36	36	51	47	51	47
	8640	6,0	12	47	45	76	80	76	65	62	55	76	73	62	64	59	51	46	47	60	56	60	56
	11520	8,0	21	45	43	74	78	73	64	61	54	74	71	60	62	56	50	45	46	58	54	58	54
	14213	9,9	32	43	42	73	77	72	63	60	54	73	70	59	61	55	49	44	46	57	53	57	53
1000 x 500	2584	1,4	1	45	37	70	72	69	51	49	40	68	66	56	56	52	37	33	32	52	49	52	49
	7200	4,0	5	41	38	70	73	68	54	53	45	68	66	56	57	51	40	37	37	52	49	52	49
	10800	6,0	12	48	47	78	82	78	66	63	56	77	75	64	66	61	52	47	48	62	58	62	58
	14400	8,0	21	46	45	76	80	75	65	62	55	76	73	62	64	58	51	46	47	60	56	60	56
	18273	10,2	34	43	44	75	79	73	64	61	55	74	72	61	63	56	50	45	47	59	55	59	55

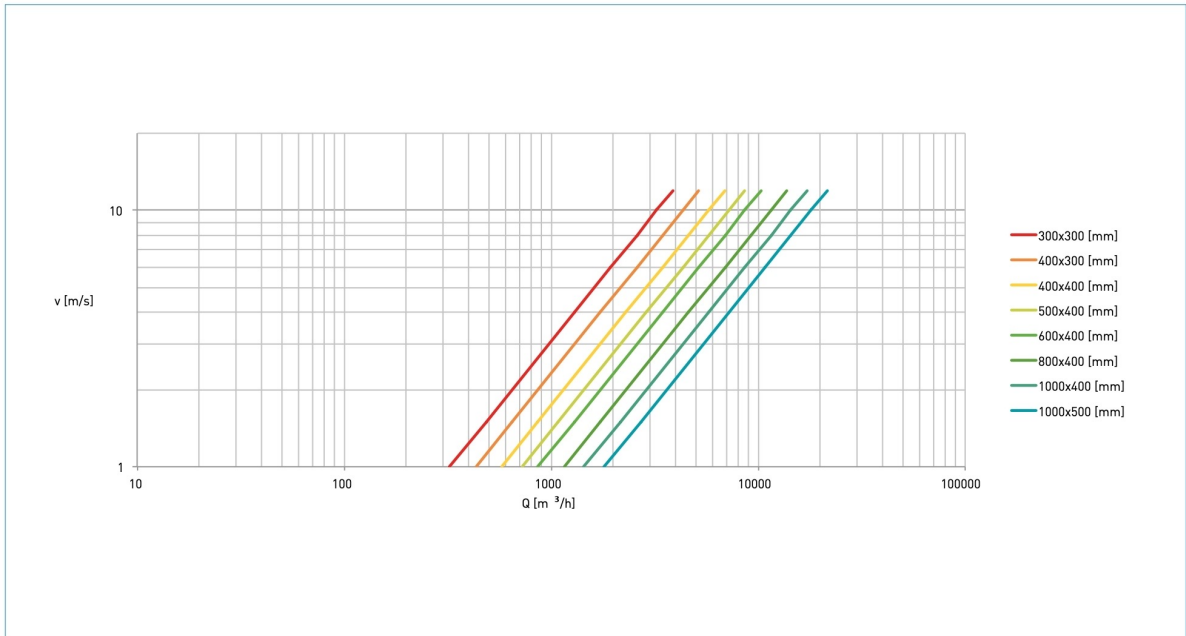
SELECTION TABLE				PRESSURE LOSS OVER UNIT: 400 Pa																	
B x H [mm]	AIR VOLUME [m³/h]	AIR VELOCITY [m/s]	Min. ΔPs [Pa]	QUICK SELECTION Lp [NR]		AIR NOISE							RADIATED SOUND								
				AIR NOISE	RADIATED SOUND	Lw [dB/oct] re 10 ⁻¹² W					Lw(A) [dB(A)]	Lw [NR]	Lw [dB/oct] re 10 ⁻¹² W					Lw(A) [dB(A)]	Lw [NR]		
						125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz			4000 Hz	125 Hz	250 Hz	500 Hz	1000 Hz			2000 Hz	4000 Hz
300 x 300	474	1,5	1	42	42	60	63	63	48	45	36	61	60	46	47	46	34	29	28	45	42
	1296	4,0	5	39	41	61	64	61	51	49	41	61	58	47	48	44	37	33	33	45	41
	1944	6,0	12	45	49	67	71	69	61	57	50	69	66	53	55	52	47	41	42	53	49
	2592	8,0	21	50	56	72	77	76	70	64	57	76	73	58	61	59	56	48	49	61	56
	3350	10,3	35	49	57	72	77	76	71	65	58	76	73	58	61	59	57	49	50	61	57
400 x 300	632	1,5	1	42	44	61	64	64	50	46	37	63	61	47	48	47	36	30	29	46	44
	1728	4,0	5	39	42	62	65	63	52	50	42	62	59	48	49	46	38	34	34	46	42
	2592	6,0	12	45	50	68	72	71	63	58	51	70	68	54	56	54	49	42	43	55	50
	3456	8,0	21	50	57	73	78	77	71	66	58	77	75	59	62	60	57	50	50	62	57
	4467	10,3	35	49	58	73	78	77	72	66	60	77	74	59	62	60	58	50	52	62	58
400 x 400	804	1,4	1	43	45	63	66	66	51	48	38	64	63	49	50	49	37	32	30	48	45
	2304	4,0	5	39	43	63	67	64	54	51	44	64	61	49	51	47	40	35	36	48	43
	3456	6,0	12	45	51	69	74	72	64	60	52	72	69	55	58	55	50	44	44	56	51
	4608	8,0	21	50	59	74	80	79	73	67	60	79	76	60	64	62	59	51	52	63	59
	5685	9,9	32	49	59	74	80	78	73	67	61	79	75	60	64	61	59	51	53	63	59
500 x 400	1005	1,4	1	44	47	65	68	67	52	49	39	66	64	51	52	50	38	33	31	49	47
	2880	4,0	5	40	45	65	68	66	55	52	44	65	62	51	52	49	41	36	36	49	45
	4320	6,0	12	46	53	71	75	73	65	61	53	73	70	57	59	56	51	45	45	57	53
	5760	8,0	21	51	60	76	81	80	74	68	61	80	77	62	65	63	60	52	53	65	60
	7106	9,9	32	50	60	76	82	80	74	68	62	80	77	62	66	63	60	52	54	65	60
600 x 400	1206	1,4	1	45	48	66	69	69	53	49	40	67	66	52	53	52	39	33	32	51	48
	3456	4,0	5	41	46	67	70	67	55	53	45	66	64	53	54	50	41	37	37	50	46
	5184	6,0	12	47	54	73	77	75	66	61	54	74	72	59	61	58	52	45	46	59	54
	6912	8,0	21	52	61	78	83	81	74	69	61	81	79	64	67	64	60	53	53	66	61
	8528	9,9	32	51	61	78	83	81	75	69	62	81	78	64	67	64	61	53	54	66	61
800 x 400	1608	1,4	1	46	50	69	72	71	54	51	41	69	68	55	56	54	40	35	33	53	50
	4608	4,0	5	42	48	69	73	69	57	54	47	69	66	55	57	52	43	38	39	53	48
	6912	6,0	12	48	56	75	80	77	67	63	55	76	74	61	64	60	53	47	47	60	56
	9216	8,0	21	53	63	80	86	83	76	70	63	83	81	66	70	66	62	54	55	67	63
	11370	9,9	32	53	63	80	86	83	76	71	64	83	80	66	70	66	62	55	56	68	63
1000 x 400	2010	1,4	1	47	52	71	74	72	55	52	42	71	69	57	58	55	41	36	34	54	52
	5760	4,0	5	43	50	71	74	70	58	55	48	70	67	57	58	53	44	39	40	54	50
	8640	6,0	12	49	58	77	81	78	68	64	56	78	75	63	65	61	54	48	48	62	58
	11520	8,0	21	54	65	82	87	85	77	71	64	85	82	68	71	68	63	55	56	69	65
	14213	9,9	32	54	65	82	88	85	77	71	65	85	82	68	72	68	63	55	57	69	65
1000 x 500	2584	1,4	1	48	53	72	75	73	56	53	43	72	70	58	59	56	42	37	35	56	53
	7200	4,0	5	45	52	73	76	72	59	56	48	72	69	59	60	55	45	40	40	56	52
	10800	6,0	12	50	60	79	83	80	69	65	57	80	77	65	67	63	55	49	49	64	60
	14400	8,0	21	55	66	84	89	87	78	72	64	86	84	70	73	70	64	56	56	70	66
	18273	10,2	34	55	66	84	90	86	78	73	66	86	84	70	74	69	64	57	58	71	66

NOMINAL AIR FLOW (Vnom)

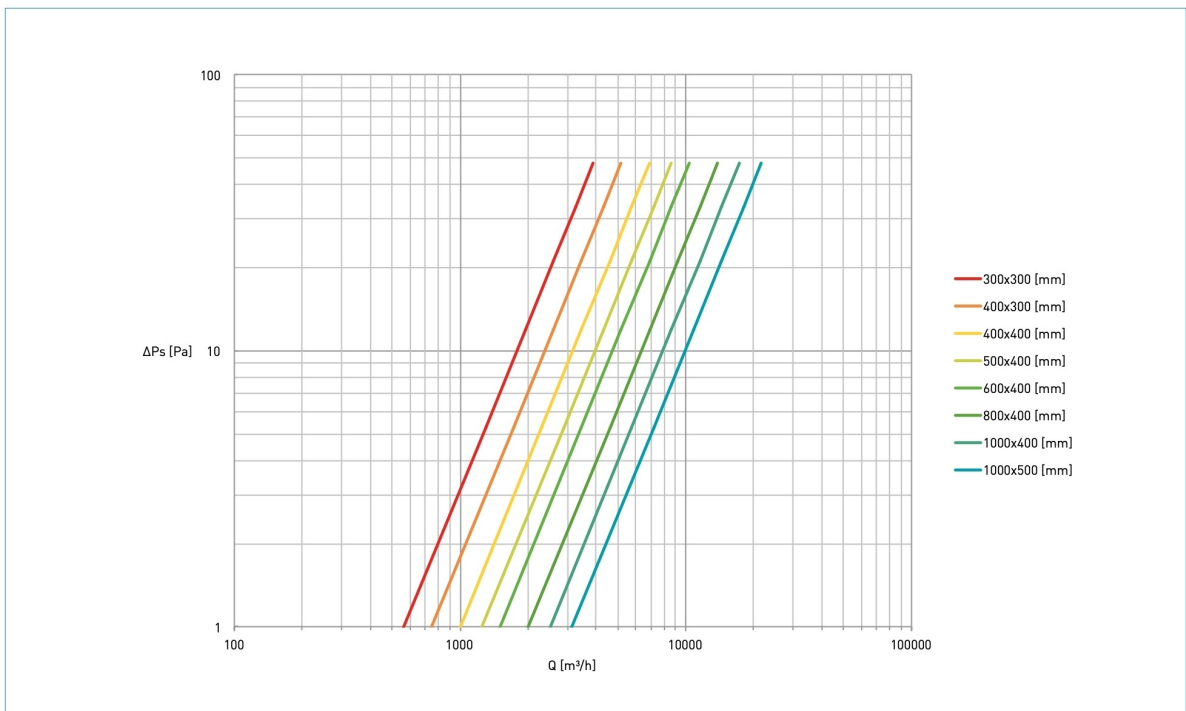
B X H [MM]	300 X 300	400 X 300	400 X 400	500 X 400	600 X 400	800 X 400	1000 X 400	1000 X 500
Vnom [m³/h]	3350	4467	5685	7106	8528	11370	14213	18273

Vnom: The controller is adjusted to a nominal air flow in the factory

SELECTION DIAGRAM



MINIMUM PRESSURE LOSS AT FULLY OPENED VALVE



WORKING PRINCIPLE

A) VOLUME REGULATION : VAV 3000 Grand-S

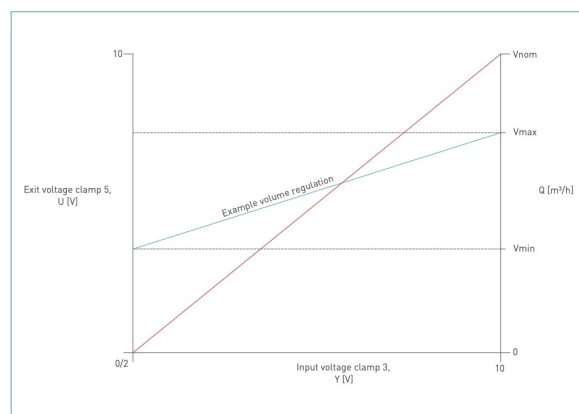
A VAV-box or air volume controller is mainly used to keep the desired room temperature constant and this by regulating the air volume. The temperature of the supply air is kept with this constantly.

A VAV-control consists of a motorised valve and measuring instrument which is placed in the air duct in front of the grille. This control valve is actuated by a thermostat and controls the air quantity. From the moment the room temperature deviates from the desired room temperature more or less air goes to the grille. The variable air quantity is limited between a minimal and maximal value.

By means of control, the control valve of the VAV can also be adjusted to a closed position. The volume control is independent of the pressure because the control valve which works modulating, works in connection with the air speed sensor (measuring cross) and the motor with integrated controller. The measuring cross provides an averaging of speeds over the diameter of the duct. Because of this the VAV can be build in with a minimal length of straight air flow. When selecting the unit it is suitable to respect always a minimal speed of 1m/s.

A1. EXPLANATION TO THE GRAPHICAL REPRESENTATION OF THE OPERATION OF THE VOLUME REGULATION

The exit signal of the thermostat (0/2-10V) is used as input voltage Y on clamp 3 of the Motor . (see wiring diagram). Depending from this signal the air quantity will vary between the set minimal air volume (Vmin) and the maximal volume (Vmax). (blue line) . The exit voltage signal U on clamp 5 of the motor corresponds depending of the factory setting with the actual valve position or the real volume of the VAV. For the standard setting this is the representation of the real volume, whereby an exit voltage of 10V corresponds with the nominal volume (Vnom). (Red line in graph)



Silencer

For reduction of internal flow noise. Sound attenuator length 500-750-1000-1500 mm.
For performance details check model K100 silencer catalogue.

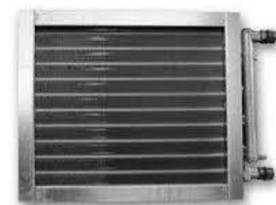


K100

Quick Selection		Model:		K100			
Maximum possible reduction of flow noise in [dB]							
width [mm]		200	300	400	500	600	
No. Of splitters		1	1	2	2	3	
height [mm]	100	-	-	-	-	-	
	150	-16	-10				
	200	-16	-10	-16	-12	-15	
	250		-10	-16	-12	-16	
	300		-10	-16	-12	-15	
Total Length L: 1000 mm							

Reheat Coil

- Separately deliverable for reheat of air volume
- Casing made of galvanised sheet steel
- Flanged on both ends
- Copper tubes and aluminium fins
- Generally two rows
- Maximum operating pressure 16 bar
- For warm water up to 100 °C
- Water connections horizontal, air venting by customer





Variable Air Volume Control

VAV 3000 Grand-S



• +90 0850 303 4766



• info@gerhman.com



• gerhman.com