

KS100

- > Rectangular VAV
- > Multi-blade
- > Single Wall

DESCRIPTION

Our rectangular VAV units contain multiple air tight damper blades and airflow averaging grid within a robust galvanised casing.

Our multi-blade rectangular VAV units are available in many sizes 100 mm blade increments. The units can also provide Constant Air Volume.

STANDARDS

- Casing exceeds leakage EN 1751, 1998 Class B
- Damper blade rubber seal leakage exceeds EN 1751 Class 2

CONSTRUCTION

Single wall 1.25 mm thick galvanised steel casing.

Options:

- ASK/ASL Attenuator
- Polyester Powder Coating

MODELS

VAV-KS1:

Rectangular single wall

VAV-KD1:

Rectangular double wall

VAV-KS 100:

Single blade rectangular single wall

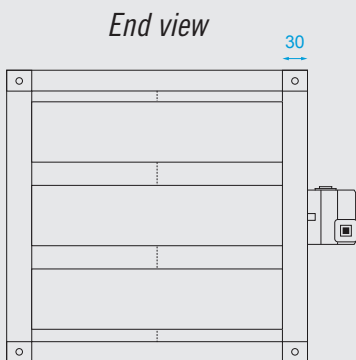
VAV-KD 100:

Multi blade rectangular double wall

NOTES

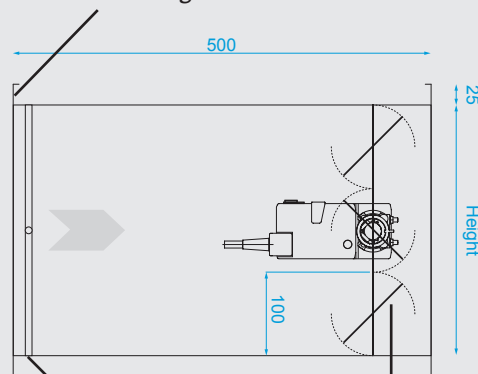
Minimum velocity 1.5 m/s. Controller actuator included. All dimensions are given in mm. Requires 3x diameter straight approach for effective operation.

VAV-KS100



M8 Corner holes

30 mm Duct flange



Diff-cross™

100 mm Damper

DIMENSIONAL DATA (mm)

Width	Height
Min 200	Min 110
100 mm increments	
Max 1000	Max 1010

RADIATED SOUND

Radiated sound allowance according to VDI2081 is 5dB/oct for room attenuation and 4dB/oct for ceiling attenuation total 9dB/oct. Double wall radiated figures are based on duct work being acoustically lagged 3 m either side of the unit.

DISCHARGE SOUND ALLOWANCE

Calculated according to VDI 2081

Hz	125	250	500	1K	2K	4K
dB	10	8	7	8	8	8

DISCHARGE SOUND ALLOWANCE

Calculated according to VDI 2081

l/s	139	278	417	556	695	834	1111	1389	1667	10000
dB/oct	0	3	6	10	13	14	16	17	18	19

KS100 - SELECTION DATA

SUPPLY SELECTION DATA												
900 x 210	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
	2	378	2 (+10)	43	49	56	30	34	40	34	39	46
4	756	6 (+39)	43	49	55	38	40	44	38	43	49	
6	1,134	13	44	50	56	X	X	X	41	46	51	
8	1,512	23	44	50	56	X	X	X	45	49	54	

SUPPLY SELECTION DATA												
600 x 310	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
	2	372	3 (+7)	43	49	56	30	35	41	33	39	46
4	744	7 (+28)	43	49	55	38	41	44	38	43	49	
6	1,116	14	43	50	56	X	X	X	41	46	51	
8	1,488	25	44	50	56	X	X	X	45	49	54	

900 x 310	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
	2	558	2 (+7)	42	48	56	30	34	40	35	40	47
4	1,116	6 (+28)	43	49	55	38	40	44	40	45	51	
6	1,674	13	43	49	56	X	X	X	43	48	54	
8	2,232	23	44	50	55	X	X	X	47	52	58	

1200 x 310	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
	2	744	2 (+7)	42	48	55	30	35	40	36	41	48
4	1,488	6 (+28)	43	49	55	38	41	44	41	46	52	
6	2,232	12	43	49	55	X	X	X	44	49	54	
8	2,976	22	44	50	55	X	X	X	48	53	57	

600 x 410	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
	2	492	3 (+7)	43	49	56	31	36	44	34	40	47
4	984	7 (+28)	43	49	55	38	41	46	39	44	50	
6	1,476	14	43	49	56	X	X	X	42	47	53	
8	1,968	25	43	49	55	X	X	X	46	50	56	

900 x 410	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
	2	738	2 (+7)	42	48	56	31	36	43	36	41	48
4	1,476	6 (+28)	43	49	55	38	41	45	41	46	52	
6	2,214	13	43	49	56	X	X	X	44	49	55	
8	2,952	23	44	50	56	X	X	X	48	53	59	

1200 x 410	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
	2	984	2 (+7)	42	48	55	31	36	43	37	42	49
4	1,968	6 (+28)	43	48	55	38	42	45	42	47	53	
6	2,952	12	43	49	55	X	X	X	45	50	56	
8	3,936	22	44	50	55	X	X	X	49	54	60	

600 x 510	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
	2	612	3 (+7)	42	48	56	32	39	47	35	41	47
4	1,224	7 (+27)	43	49	55	38	42	48	40	45	51	
6	1,836	14	43	49	56	X	X	X	43	48	54	
8	2,448	25	44	50	56	X	X	X	47	52	58	

900 x 510	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
	2	918	2 (+7)	42	48	55	32	38	46	37	42	49
4	1,836	6 (+27)	43	48	55	37	42	47	42	47	53	
6	2,754	13	43	49	56	X	X	X	45	50	57	
8	3,672	23	44	50	56	X	X	X	49	54	61	

KEY INFORMATION

100 Pa 200 Pa 400 Pa System Static Pressure.
Discharge and Radiated Sound (LpA)

VEL = Velocity in (m/s)

VOL = Volume in (l/s)

KS100 - SELECTION DATA

SUPPLY SELECTION DATA												
1200 x 510	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
2	1,224	2 (+7)	42	48	55	32	38	46	38	43	50	
4	2,448	6 (+27)	42	48	55	38	42	47	43	48	54	
6	3,672	12	44	49	56	X	X	X	46	51	58	
8	4,896	22	45	50	57	X	X	X	50	55	62	

SUPPLY SELECTION DATA												
600 x 610	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
2	732	3 (+7)	42	48	55	26	31	36	36	41	48	
4	1,464	7 (+28)	43	49	55	32	36	41	41	46	52	
6	2,196	14	43	49	55	X	X	X	44	49	55	
8	2,928	25	44	50	55	X	X	X	48	53	59	

900 x 610	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
2	1,098	2 (+6)	44	50	57	26	31	36	38	43	50	
4	2,196	6 (+23)	44	50	56	33	36	42	43	48	54	
6	3,294	13	45	51	58	X	X	X	46	50	58	
8	4,392	23	46	52	58	X	X	X	50	54	62	

1200 x 610	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
2	1,464	2 (+7)	42	48	55	27	31	37	38	44	51	
4	2,928	6 (+28)	43	49	55	34	38	43	44	49	55	
6	4,392	12	44	50	56	X	X	X	47	52	59	
8	5,856	22	45	51	56	X	X	X	51	56	63	

600 x 710	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
2	852	3 (+7)	42	48	55	26	31	36	37	42	49	
4	1,704	7 (+28)	43	49	54	32	36	41	42	47	53	
6	2,556	14	44	50	56	X	X	X	45	50	56	
8	3,408	25	45	51	56	X	X	X	49	54	60	

900 x 710	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
2	1,278	2 (+6)	43	49	56	26	31	36	38	44	51	
4	2,556	6 (+23)	43	49	55	33	37	43	43	49	55	
6	3,834	13	45	50	57	X	X	X	46	51	58	
8	5,112	23	46	51	57	X	X	X	50	55	62	

1200 x 710	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
2	1,704	2 (+7)	42	48	54	26	31	37	39	45	51	
4	3,408	6 (+28)	43	49	55	34	38	43	44	50	56	
6	5,112	12	44	50	56	X	X	X	47	53	59	
8	6,816	22	45	51	57	X	X	X	51	57	63	

900 x 810	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
2	1,458	2 (+6)	42	48	55	27	32	38	39	44	51	
4	2,916	6 (+23)	43	49	56	33	37	43	44	49	56	
6	4,374	13	44	50	57	X	X	X	47	52	60	
8	5,832	23	45	51	58	X	X	X	51	56	64	

1200 x 810	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
2	1,944	2 (+7)	42	48	55	27	32	38	40	45	52	
4	3,888	6 (+28)	43	49	56	34	38	44	45	50	57	
6	5,832	12	43	49	56	X	X	X	48	53	61	
8	7,776	22	44	50	56	X	X	X	52	57	65	

KEY INFORMATION

100 Pa 200 Pa 400 Pa System Static Pressure.
Discharge and Radiated Sound (LpA)

VEL = Velocity in (m/s)

VOL = Volume in (l/s)

KS100 - SELECTION DATA

SUPPLY SELECTION DATA												
900 x 910	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
	2	1,638	2 (+6)	42	49	56	26	32	38	39	45	52
4	3,276	6 (+23)	42	49	56	33	38	44	44	50	57	
6	4,914	13	43	50	57	X	X	X	47	53	61	
8	6,552	23	44	51	57	X	X	X	51	57	65	

SUPPLY SELECTION DATA												
1200 x 910	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
	2	2,184	2 (+7)	42	49	55	27	33	39	40	46	53
4	4,368	6 (28)	43	50	57	35	40	45	45	51	58	
6	6,552	12	43	50	57	X	X	X	48	55	62	
8	8,736	22	43	50	57	X	X	X	52	59	66	

900 x 1010	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
	2	1,818	2 (+6)	42	48	55	27	32	38	40	45	52
4	3,636	6 (+23)	43	49	56	34	38	45	45	50	58	
6	5,454	13	43	49	56	X	X	X	48	53	61	
8	7,272	23	44	50	56	X	X	X	52	57	66	

1200 x 1010	Size			Discharge Sound			Attenuated Sound			Radiated Single Wall		
	VEL m/s	VOL l/s	Min Δ Ps Pa (+ASK)	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa	100 Pa	200 Pa	400 Pa
	2	2,424	2 (+7)	42	48	55	27	33	38	41	46	53
4	4,848	6 (+28)	43	49	56	35	39	45	46	51	59	
6	7,272	12	43	49	56	X	X	X	49	55	62	
8	9,696	22	44	50	56	X	X	X	53	59	67	

KEY INFORMATION

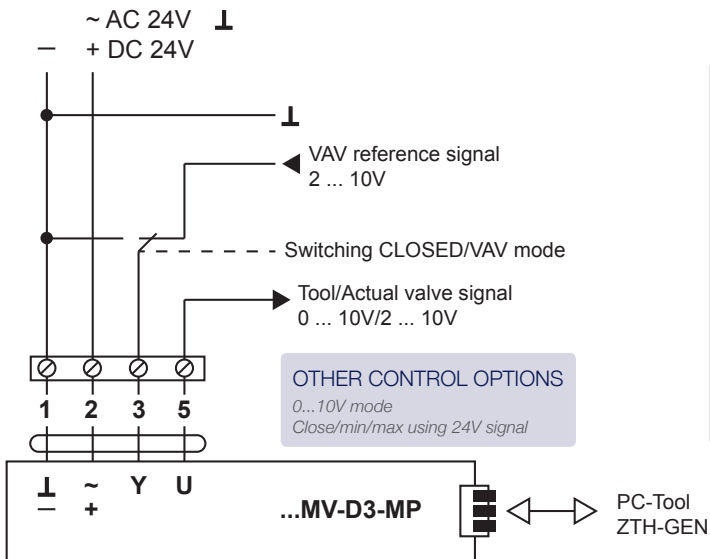
100 Pa 200 Pa 400 Pa System Static Pressure.
Discharge and Radiated Sound (LpA)

VEL = Velocity in (m/s)

VOL = Volume in (l/s)

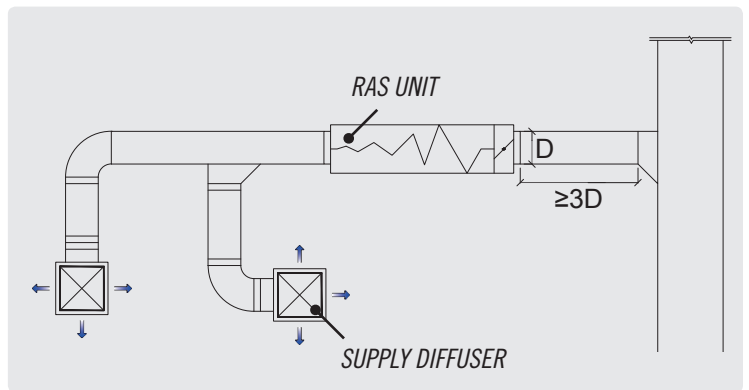
CONTROL MODES

VAV with shut-off (CLOSE, 2 ... 10V mode)



DUCT STRAIGHT APPROACH

3x Diameter (or equivalent diameter) approach required for effective operation. Due to the unique design VSV/VDV units do not require any straight approach.



Please contact a Price 9b[]bYYfYX'Gc i h;cbg engineer for further information.