1.1.4 VSR-QA.

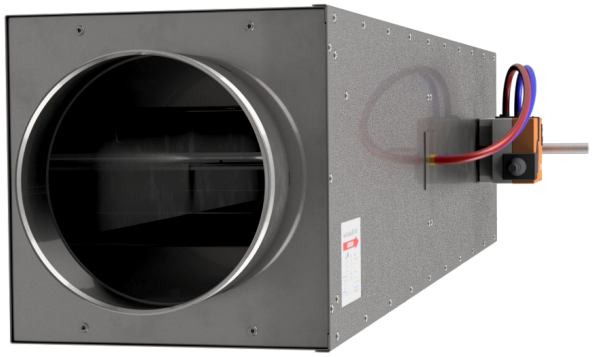
VAV terminal with integral sound attenuator

AirConcepts

AIRFLOW MEASUREMENT AND CONTROL

Application

Type VSR-QAx VAV terminals with integral sound attenuation are designed for projects/ applications with tight acoustical requirements such as educational buildings, apartments, hospitals etc. VAV terminals are commonly used to maintain a constant room temperature by varying the conditioned air volume to the space but can also be used to maintain a constant (positive or negative) room pressure and to control the carbon dioxide (CO2) level in the room.



Type VSR-QAR with integral sound attenuator

Design features

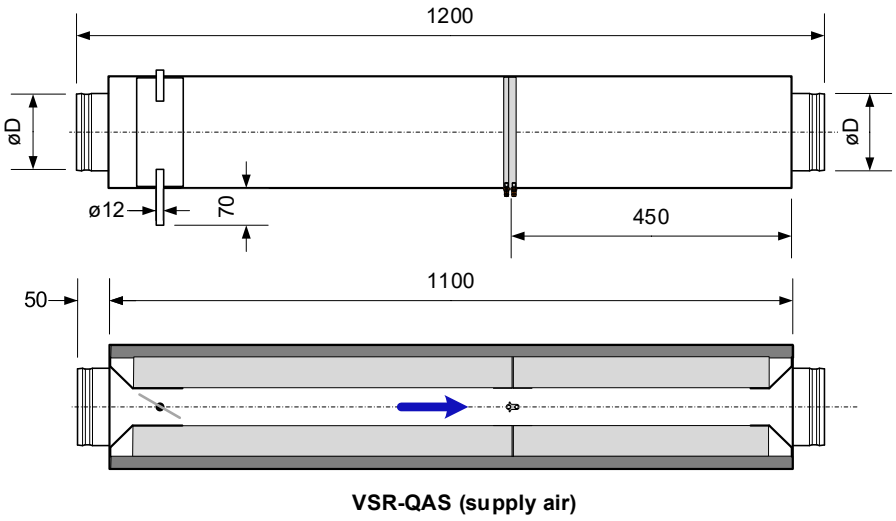
Casing

- Galvanised steel construction (275 g/m²), Air –tightness Class C (EN 1751).
- Spigots comply with DIN 24145 or DIN 24146.
- 1-piece construction, saves installation time on site.
- Damper blades: galvanised steel single blade damper for models 100...250. Aluminium opposed blade dampers for models 315...400.
- Dampers: Air-tight damper with seals. Leakage Class–2 (EN 1751).
- Damper shaft aluminium, ø12 mm or 10x10mm.
- Bearings Polyamide (PA6.6)
- Acoustical insulation: sandwich construction consisting of 40kg/m3 mineral wool with glued woven glass fibre top layer erosion proof up to 20 m/s and high density 160kg/m3 open cell rubber to absorb low frequency and reduce radiated noise. fire resistant Class A1 (EN 13501).
- Air flow sensor: Aluminium profile, multi point averaging type FloXact. Fitted inside the unit, thus insensitive to irregular duct approach in supply and return application.
- Stable measuring signal from 0,5 m/s inlet air velocity
- Operating temperature +5 to 50°C
- Storage temperature 0 to +70°C, max R.H. 95%
- Other construction available upon request.

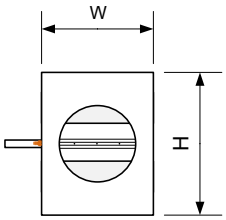
Typical application balanced supply and return air in apartment building

Kv Values FloXact® and air flow range

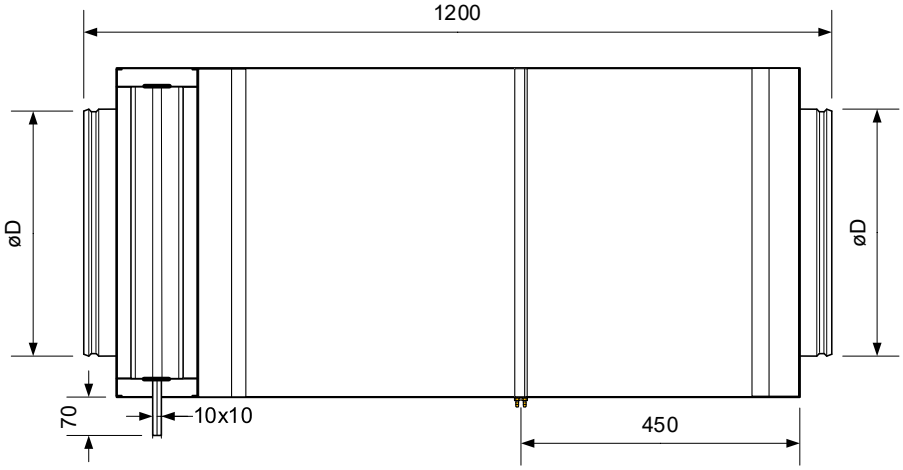
Model	100	125	160	200	250	315	400	500
Kv Value (l/s.Pa)	5,41	7,36	10,5	16,8	22,3	36.0	49.4	82.7
MIN air volume (l/s)	6	8	11	17	23	36	50	83
Min inlet velocity (m/s)	0,8	0,7	0,6	0,6	0,5	0,5	0,4	0.4
MAX air volume (l/s)	66	90	129	205	273	441	605	1013
MAX inlet velocity (m/s)	9.0	7,7	6,7	6.7	5.7	5.8	4.9	5,2



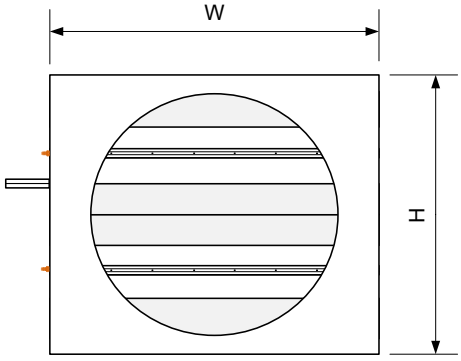
Model ø100 ... ø250



VSR-QAS (supply air)



Model ø315 ... ø500



VSR-QAR (return air)

Dimensions, weight and Kv values

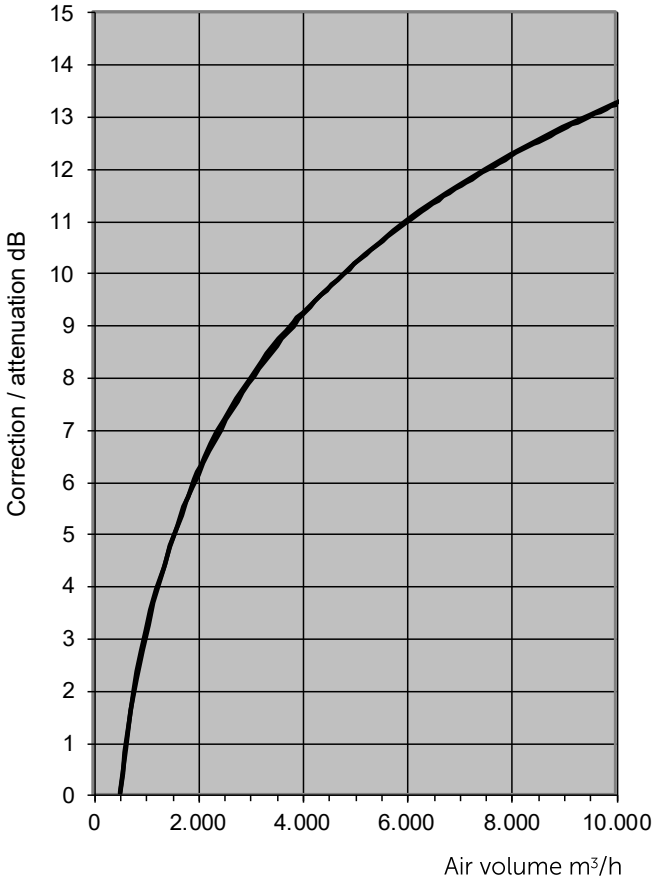
MODEL	100	125	160	200	250	315	400	500	mm
øD	98	123	158	198	248	313	398	498	mm
W	155	185	235	285	335	435	535	685	mm
H	175	200	225	250	300	345	450	550	mm
Weight	9,9	12,5	14,3	17,6	21,4	34,0	45,0	61,1	Kg
Kv value	19,5	26,5	37,9	60,4	71,4	129,5	177,9	297,6	l/s.Pa

Sound Power and Sound Pressure:

1. L_w in dB/Oct are sound power levels (re 10^{-12}W) per octave band in dB for discharge sound and radiated sound. Values less than 17 dB are indicated by ”-”.
2. The discharge sound pressure levels **Lp**, are determined with a room absorption of 7dB/oct and the following assumption for downstream ductwork, diffusers and end reflection:

125	250	500	1k	2k	4k	Hz
-3	-5	-10	-15	-15	-12	dB

3. The discharge sound pressure levels **Lp(A)** also include a correction for air volume :



4. The Radiated sound pressure levels **Lp** are determined with a room absorption of 7dB/oct and the following assumption ceiling attenuation:

125	250	500	1k	2k	4k	Hz
-1	-3	-5	-7	-7	-10	dB

5. **ΔPa.** Unit resistance with fully opened damper blade.
6. Sound data is measured in a reverberation room at an independent sound laboratory, according to ISO-3741 and ISO-5135 standards.

Pressure drop over unit : 100 Pa

Model	Air volume	Inlet air velocity	Press. drop fully open	Discharge sound (Air borne sound)								Radiated sound (Break out sound)							
				Lw (dB/oct) re 10^{-12}W						L_w	L_p	Lw (dB/oct) re 10^{-12}W						L_w	L_p
mm	l/s	m/s	Pa	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	dB	NR	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	dB	NR
100	6	0,8	0	36	31	-	-	-	-	**37**	--	22	21	-	-	-	-	**25**	--
	12	1,6	1	36	22	-	-	-	-	**36**	--	22	-	-	-	-	-	**22**	--
	24	3,2	6	38	28	-	-	-	-	**38**	--	24	18	-	-	-	-	**25**	--
	36	4,9	13	41	30	21	18	-	-	**42**	--	27	19	-	-	-	-	**28**	--
	48	6,5	23	41	31	29	26	23	18	**42**	--	26	-	-	-	-	-	**27**	--
	60	8,1	36	42	36	35	32	29	24	**44**	--	26	-	-	-	-	-	**27**	--
125	9	0,8	0	36	32	-	-	-	-	**38**	--	22	23	-	-	-	-	**26**	--
	18	1,5	2	36	23	-	-	-	-	**36**	--	22	-	-	-	-	-	**23**	--
	36	3,1	7	41	29	-	-	-	-	**41**	--	27	20	-	-	-	-	**28**	--
	54	4,6	16	43	30	24	21	19	-	**43**	--	29	19	-	-	-	-	**29**	--
	72	6,2	28	42	34	32	29	26	21	**43**	--	27	-	-	-	-	-	**28**	--
	90	7,7	44	45	39	38	35	32	27	**47**	--	30	-	-	-	-	-	**30**	--
160	12	0,6	0	35	32	-	-	-	-	**37**	--	22	24	-	-	-	-	**27**	--
	24	1,2	2	35	23	-	-	-	-	**35**	--	22	-	-	-	-	-	**23**	--
	48	2,5	6	41	29	-	-	-	-	**41**	--	28	21	-	-	-	-	**29**	--
	72	3,7	15	43	30	24	21	18	-	**43**	--	30	20	-	-	-	-	**30**	--
	96	5,0	26	42	33	31	28	26	20	**43**	--	29	-	-	-	-	-	**29**	--
	120	6,2	40	45	39	37	34	32	26	**47**	--	31	-	-	-	-	-	**31**	--
200	20	0,7	0	39	36	18	-	-	-	**41**	--	24	26	19	-	-	-	**29**	--
	40	1,3	2	37	27	-	-	-	-	**37**	--	22	-	-	-	-	-	**23**	--
	80	2,6	7	46	33	-	-	-	-	**46**	--	31	23	-	-	-	-	**32**	--
	120	3,9	16	47	32	25	22	20	-	**47**	--	32	21	-	-	-	-	**32**	--
	160	5,2	28	46	35	33	30	27	22	**47**	--	31	17	-	-	-	-	**31**	--
	200	6,6	43	49	41	39	36	33	28	**50**	--	34	-	-	-	-	-	**34**	--
250	30	0,6	1	36	19	-	-	-	-	**36**	--	22	-	-	-	-	-	**22**	--
	60	1,3	2	37	27	-	-	-	-	**38**	--	23	18	-	-	-	-	**24**	--
	120	2,5	9	49	35	19	-	-	-	**49**	--	35	26	-	-	-	-	**35**	--
	180	3,8	20	47	33	29	26	23	18	**47**	--	32	20	-	-	-	-	**33**	--
	240	5,0	35	48	38	37	34	31	26	**49**	--	33	17	-	-	-	-	**33**	--
	300	6,3	55	52	44	43	40	37	32	**53**	**20**	37	-	-	-	-	-	**37**	--
315	50	0,7	0	42	40	24	-	-	-	**44**	--	27	29	22	-	-	-	**32**	--
	100	1,3	2	39	31	-	-	-	-	**40**	--	24	20	-	-	-	-	**25**	--
	200	2,6	6	50	37	-	-	-	-	**50**	--	35	26	-	-	-	-	**35**	--
	300	3,9	14	51	36	25	22	19	-	**51**	--	36	24	-	-	-	-	**36**	--
	400	5,2	24	50	36	33	30	27	22	**50**	--	35	21	-	-	-	-	**35**	--
	500	6,5	38	53	40	39	36	33	28	**53**	--	37	19	-	-	-	-	**38**	--
400	80	0,6	0	43	41	25	-	-	-	**45**	--	28	30	23	-	-	-	**33**	--
	160	1,3	1	40	32	-	-	-	-	**41**	--	25	21	-	-	-	-	**27**	--
	320	2,6	5	51	38	-	-	-	-	**51**	--	36	27	-	-	-	-	**36**	--
	480	3,9	11	54	38	23	20	17	17	**54**	--	39	27	-	-	-	-	**39**	--
	640	5,2	20	53	37	31	28	25	21	**53**	--	38	24	-	-	-	-	**38**	--
	800	6,5	32	54	39	37	34	31	26	**54**	--	39	22	-	-	-	-	**39**	--
500	120	0,6	0	47	43	24	-	-	-	**48**	**20**	32	33	25	-	-	-	**36**	--
	240	1,2	2	43	33	-	-	-	-	**43**	--	28	23	-	-	-	-	**29**	--
	480	2,5	6	54	40	17	-	-	-	**54**	**20**	39	30	-	-	-	-	**39**	--
	720	3,7	14	55	37	26	23	20	17	**55**	--	40	27	-	-	-	-	**40**	--
	960	4,9	25	54	37	34	31	28	23	**54**	--	39	24	-	-	-	-	**39**	--
	1200	6,2	38	57	41	40	37	34	29	**57**	--	42	22	-	-	-	-	**42**	--

Pressure drop over unit : 200 Pa

Model	Air volume	Inlet air velocity	Press. drop fully open	Discharge sound (Air borne sound)								Radiated sound (Break out sound)							
				Lw (dB/oct) re 10^{-12}W						L_w	L_p	Lw (dB/oct) re 10^{-12}W						L_w	L_p
mm	l/s	m/s	Pa	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	dB	NR	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	dB	NR
100	6	0,8	0	40	42	26	-	-	-	**44**	**20**	26	32	28	-	-	-	**34**	**--**
	12	1,6	1	36	23	-	-	-	-	**36**	**--**	22	-	-	-	-	-	**23**	**--**
	24	3,2	6	40	30	-	-	-	-	**40**	**--**	26	20	-	-	-	-	**27**	**--**
	36	4,9	13	46	35	21	18	-	-	**47**	**--**	32	24	-	-	-	-	**33**	**--**
	48	6,5	23	49	36	29	26	23	18	**49**	**--**	35	25	-	-	-	-	**35**	**--**
	60	8,1	36	49	38	35	32	29	24	**50**	**20**	35	23	-	-	-	-	**35**	**--**
125	9	0,8	0	39	39	22	-	-	-	**42**	**--**	25	30	24	-	-	-	**32**	**--**
	18	1,5	2	36	26	-	-	-	-	**36**	**--**	22	-	-	-	-	-	**23**	**--**
	36	3,1	7	43	31	-	-	-	-	**43**	**--**	29	22	-	-	-	-	**30**	**--**
	54	4,6	16	50	36	25	21	19	-	**50**	**20**	36	27	-	-	-	-	**36**	**--**
	72	6,2	28	51	37	32	29	26	22	**51**	**21**	36	25	-	-	-	-	**37**	**--**
	90	7,7	44	50	40	38	35	32	27	**51**	**21**	36	22	-	-	-	-	**36**	**--**
160	12	0,6	0	40	40	23	-	-	-	**43**	**--**	27	32	26	-	-	-	**34**	**--**
	24	1,2	2	35	25	-	-	-	-	**35**	**--**	22	17	-	-	-	-	**23**	**--**
	48	2,5	6	43	31	-	-	-	-	**43**	**--**	30	23	-	-	-	-	**31**	**--**
	72	3,7	15	50	36	24	21	18	-	**50**	**20**	37	28	-	-	-	-	**37**	**--**
	96	5,0	26	51	37	31	28	26	21	**51**	**22**	38	27	-	-	-	-	**38**	**--**
	120	6,2	40	50	40	37	34	32	26	**51**	**21**	37	24	-	-	-	-	**37**	**--**
200	20	0,7	0	44	42	25	-	-	-	**46**	**20**	29	32	26	-	-	-	**34**	**--**
	40	1,3	2	38	30	-	-	-	-	**38**	**--**	23	20	-	-	-	-	**25**	**--**
	80	2,6	7	48	35	-	-	-	-	**48**	**--**	33	25	-	-	-	-	**33**	**--**
	120	3,9	16	55	40	26	22	20	18	**55**	**26**	40	30	-	-	-	-	**40**	**--**
	160	5,2	28	55	39	33	30	27	23	**55**	**26**	40	28	-	-	-	-	**40**	**--**
	200	6,6	43	54	41	39	36	33	28	**55**	**24**	39	25	-	-	-	-	**39**	**--**
250	30	0,6	1	43	40	21	-	-	-	**45**	**--**	29	31	24	-	-	-	**34**	**--**
	60	1,3	2	40	31	-	-	-	-	**41**	**--**	26	22	-	-	-	-	**28**	**--**
	120	2,5	9	50	37	19	-	-	-	**50**	**21**	36	28	-	-	-	-	**37**	**--**
	180	3,8	20	55	39	29	26	23	20	**55**	**25**	41	29	-	-	-	-	**41**	**--**
	240	5,0	35	55	40	37	34	31	26	**55**	**23**	40	27	-	-	-	18	**41**	**--**
	300	6,3	55	54	44	43	40	37	32	**55**	**22**	40	24	-	-	-	18	**40**	**--**
315	50	0,7	0	48	47	32	-	-	-	**50**	**24**	33	36	30	-	-	-	**38**	**--**
	100	1,3	2	42	34	-	-	-	-	**42**	**--**	27	23	-	-	-	-	**28**	**--**
	200	2,6	6	51	39	18	-	-	-	**52**	**21**	36	28	-	-	-	-	**37**	**--**
	300	3,9	14	58	44	26	22	19	22	**59**	**27**	43	33	18	-	-	19	**44**	**--**
	400	5,2	24	59	43	33	30	27	26	**59**	**26**	44	31	-	-	-	21	**44**	**--**
	500	6,5	38	58	43	39	36	33	29	**58**	**24**	43	28	-	-	-	21	**43**	**--**
400	80	0,6	0	51	50	36	-	-	-	**53**	**28**	36	39	34	-	-	-	**41**	**--**
	160	1,3	1	42	34	-	-	-	-	**43**	**--**	27	23	-	-	-	-	**29**	**--**
	320	2,6	5	53	41	19	-	-	-	**53**	**20**	38	30	-	-	-	-	**38**	**--**
	480	3,9	11	59	45	25	20	18	23	**60**	**26**	44	34	19	-	-	19	**45**	**--**
	640	5,2	20	61	45	31	28	25	27	**61**	**27**	46	34	17	-	18	23	**47**	**--**
	800	6,5	32	61	44	37	34	31	29	**61**	**25**	46	31	-	-	17	23	**46**	**--**
500	120	0,6	0	51	48	31	-	-	-	**53**	**26**	36	38	32	-	-	-	**41**	**--**
	240	1,2	2	46	36	-	-	-	-	**46**	**--**	31	26	-	-	-	-	**32**	**--**
	480	2,5	6	56	42	19	-	-	-	**56**	**22**	41	32	17	-	-	-	**41**	**--**
	720	3,7	14	63	46	27	23	20	24	**63**	**28**	48	36	21	-	20	23	**48**	**20**
	960	4,9	25	63	44	34	31	28	27	**63**	**27**	48	34	-	-	19	24	**48**	**20**
	1200	6,2	38	62	44	40	37	34	30	**62**	**25**	47	31	-	-	18	25	**47**	**--**

Pressure drop over unit : 300 Pa

Model	Air volume	Inlet air velocity	Press. drop fully open	Discharge sound (Air borne sound)								Radiated sound (Break out sound)							
				Lw (dB/oct) re 10^{-12}W						L_w	L_p	Lw (dB/oct) re 10^{-12}W						L_w	L_p
mm	l/s	m/s	Pa	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	dB	NR	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	dB	NR
100	6	0,8	0	43	46	30	-	-	-	**48**	**23**	29	36	32	-	-	-	**38**	**--**
	12	1,6	1	45	42	23	-	-	-	**47**	**--**	31	32	25	-	-	-	**35**	**--**
	24	3,2	6	42	32	-	-	-	-	**42**	**--**	28	22	-	-	-	-	**29**	**--**
	36	4,9	13	47	36	21	18	-	-	**48**	**--**	33	26	-	-	-	-	**34**	**--**
	48	6,5	23	52	40	29	26	23	19	**53**	**23**	38	29	-	-	-	-	**39**	**--**
	60	8,1	36	54	40	35	32	29	25	**54**	**25**	40	28	-	-	-	17	**40**	**--**
125	9	0,8	0	47	48	33	-	-	-	**50**	**25**	33	39	35	-	-	-	**41**	**--**
	18	1,5	2	36	23	-	-	-	-	**36**	**--**	22	-	-	-	-	-	**23**	**--**
	36	3,1	7	44	33	-	-	-	-	**45**	**--**	30	24	-	-	-	-	**31**	**--**
	54	4,6	16	51	37	25	21	19	-	**51**	**21**	37	28	-	-	-	-	**37**	**--**
	72	6,2	28	56	41	32	29	26	23	**56**	**27**	42	32	-	-	-	19	**42**	**--**
	90	7,7	44	55	42	38	35	32	28	**55**	**27**	41	29	-	-	-	19	**41**	**--**
160	12	0,6	0	47	47	33	-	-	-	**50**	**25**	34	39	36	-	-	-	**42**	**20**
	24	1,2	2	35	22	-	-	-	-	**35**	**--**	22	-	-	-	-	-	**23**	**--**
	48	2,5	6	44	33	-	-	-	-	**45**	**--**	31	25	-	-	-	-	**32**	**--**
	72	3,7	15	51	37	24	21	18	-	**51**	**21**	38	29	-	-	-	-	**38**	**--**
	96	5,0	26	56	41	31	28	26	22	**56**	**27**	43	32	17	-	-	20	**43**	**--**
	120	6,2	40	55	41	37	34	32	27	**56**	**27**	42	30	-	-	-	21	**43**	**--**
200	20	0,7	0	52	52	38	-	-	-	**55**	**30**	37	42	39	-	-	-	**44**	**22**
	40	1,3	2	37	28	-	-	-	-	**38**	**--**	22	18	-	-	-	-	**24**	**--**
	80	2,6	7	49	37	-	-	-	-	**50**	**20**	34	27	-	-	-	-	**35**	**--**
	120	3,9	16	56	41	26	22	20	18	**56**	**27**	41	31	-	-	-	-	**41**	**--**
	160	5,2	28	61	45	33	30	27	26	**61**	**33**	46	35	20	-	19	24	**46**	**--**
	200	6,6	43	59	44	39	36	33	29	**59**	**30**	44	31	-	-	-	23	**44**	**--**
250	30	0,6	1	49	47	29	-	-	-	**51**	**24**	35	38	32	-	-	-	**40**	**--**
	60	1,3	2	41	32	-	-	-	-	**42**	**--**	27	23	-	-	-	-	**29**	**--**
	120	2,5	9	51	38	19	-	-	-	**52**	**22**	37	29	-	-	-	-	**38**	**--**
	180	3,8	20	58	43	29	26	23	21	**58**	**29**	44	34	19	-	17	21	**45**	**--**
	240	5,0	35	60	43	37	34	31	27	**60**	**29**	46	33	-	-	18	24	**46**	**--**
	300	6,3	55	59	45	43	40	37	32	**59**	**28**	45	30	-	-	17	24	**45**	**--**
315	50	0,7	0	56	56	44	-	-	-	**59**	**34**	41	45	42	17	-	-	**48**	**25**
	100	1,3	2	40	32	-	-	-	-	**40**	**--**	25	21	-	-	-	-	**26**	**--**
	200	2,6	6	53	41	20	-	-	-	**53**	**23**	38	30	-	-	-	-	**39**	**--**
	300	3,9	14	59	45	27	22	19	23	**60**	**28**	44	34	19	-	-	20	**45**	**--**
	400	5,2	24	65	49	33	30	27	31	**65**	**33**	50	38	23	20	23	27	**50**	**23**
	500	6,5	38	63	47	39	36	33	32	**64**	**30**	48	34	18	-	21	27	**49**	**21**
400	80	0,6	0	56	56	44	-	-	-	**60**	**35**	41	45	42	18	-	-	**48**	**26**
	160	1,3	1	58	53	37	-	-	-	**60**	**30**	43	42	35	-	-	-	**46**	**22**
	320	2,6	5	55	43	21	-	-	-	**55**	**22**	40	32	18	-	-	-	**40**	**--**
	480	3,9	11	60	46	26	20	18	24	**61**	**27**	45	35	21	-	18	20	**46**	**--**
	640	5,2	20	66	50	32	28	25	31	**66**	**32**	51	39	24	21	24	28	**51**	**24**
	800	6,5	32	66	48	37	34	31	33	**66**	**31**	51	37	21	20	24	29	**51**	**24**
500	120	0,6	0	59	57	42	-	-	-	**61**	**36**	44	47	43	20	18	-	**50**	**27**
	240	1,2	2	45	35	-	-	-	-	**45**	**--**	30	25	-	-	-	-	**31**	**--**
	480	2,5	6	57	43	20	-	-	-	**57**	**23**	42	33	20	-	-	-	**43**	**--**
	720	3,7	14	64	47	27	23	20	25	**64**	**29**	49	37	23	18	21	24	**49**	**21**
	960	4,9	25	69	51	34	31	28	32	**69**	**34**	54	41	26	24	27	32	**54**	**28**
	1200	6,2	38	67	48	40	37	34	33	**67**	**31**	52	37	20	20	25	31	**52**	**25**

VSR - QAS - 250 - BEM
Type | Construction | Model | Controls

Type:
- VSR - VAV terminal round in– and outlet

Construction:
- QAS - Integral sound attenuator, square double wall construction, supply air.
- QAR - Integral sound attenuator, square double wall construction, return air.

Model:
- Dia - 100, 125, 160, 200, 250, 315, 400 or 500

Controls:
- BEX - Belimo LMV-D3-FL, 5Nm without NFC
- BE1 - Belimo LMV-D3-MP, 5Nm with NFC
- BE2 - Belimo LMV-D3-MP, 10Nm with NFC
- BEM- Belimo LMV-D3-MOD, 5Nm MODbus/BACnet

Delivery / Controls

- All controls, supplied and fitted by Air-Concepts, are pressure independent and factory calibrated.
- The unit can be supplied with analogue, DDC or pneumatic controls
- When units are ordered with controls '"free-issued" by 3rd party, wiring diagrams, calibration instructions, calibration tools and mounting instructions must be provided free of charge.
- All controls will be mounted, as standard, on the right hand side of the unit when looking in the direction of airflow, unless otherwise requested.

Specify as:

Example:
Supply and install, VAV terminal, from Magnelis™ sheet steel, double wall construction with integral sound attenuator (1-piece construction). Inlet and outlet with round male duct sleeve connections minimum 50mm long.
Casing leakage rate to Class-C (EN-1751).
Damper leakage Class-2 (EN-1751).
Acoustical insulation must be combination of high density open cell rubber and mineral wool with woven glass fibre glued top layer, erosion proof up to 20 m/s. Fire rated Class-1
Averaging airflow sensor type FloXact™ fitted inside the unit and insensitive to irregular duct approach.
For:

Air volume	.... l/s
Application	Supply air
Unit size	.... mm
Max. pressure loss	.... Pa
Max. discharge Lp	.... NR
Max. radiated Lp	.... NR
Controller	Belimo type LMV-D3-MP factory fitted and calibrated with MP bus and NFC chip for easy on site commissioning.
Manufacturer	Air-Concepts BV
Type	VSR-QAS-BE1

Air-Concepts locations

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De Compagnie 22E
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