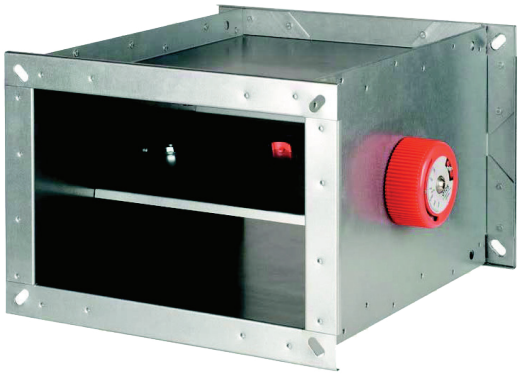
Comfort

RSVQ-K

Rectangular constant air volume dampers



SagiCofim

Ecoefficiency for Indoor Air Quality

RSVQ-K

The RSVQ-K series dampers are designed to facilitate balancing of ventilation systems.
Damper suitable for rectangular duct mounting.
Those dampers maintain the constant air volume at varying pressures, caused by connection and disconnection of system parts, clogging of filters and ducts, wind effects, window opening etc.
RSVQ-K is an automatic damper independent of external energy sources.
The damper is operated by an opposed opening force from a spring on the blade.

RSVQ-K / N1
Damper with manual device for setting of one flow (indicate required flow).

RSVQ-K / I1
Damper with thermal and acoustic insulation (indicate required flow).

Material

Damper constructed from galvanized steel.

Finishes

Galvanized steel.

Fixing systems

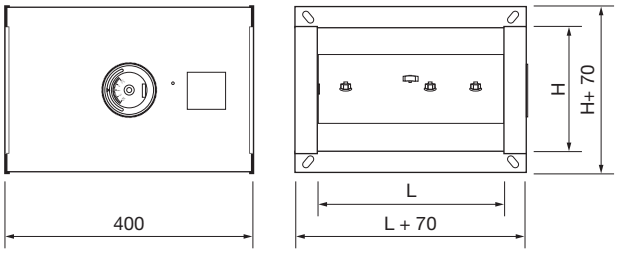
Connection into a rectangular duct.

Specification text

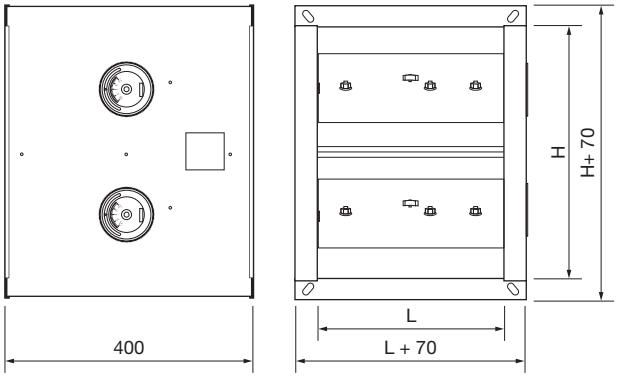
Supply and mounting of rectangular constant air volume damper to facilitate balancing of ventilation systems series RSVQ-K L x H mm.
Constructed from galvanized steel and tightness joint from rubber.

Dimensional

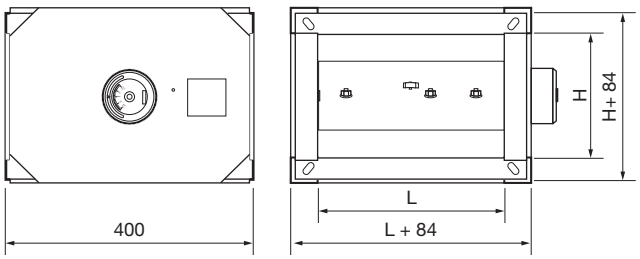
RSVQ-K-N1 H ≤ 300



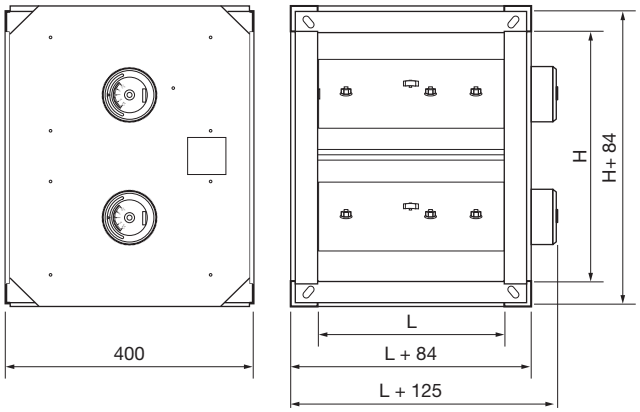
RSVQ-K-N1 H > 400



RSVQ-K-I1 H ≤ 300



RSVQ-K-I1 H > 400

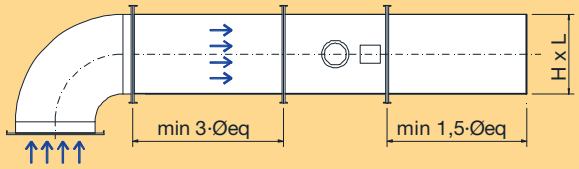


RSVQ-K

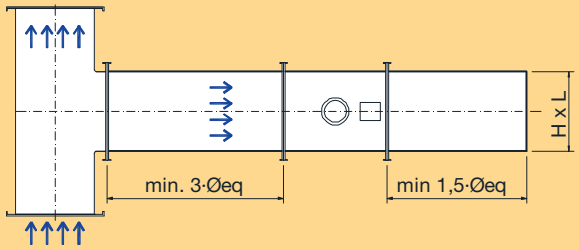
For good operation of RSVQ-K constant flow dampers, the installation must be carried out taking into account the minimum distances between the elements of the installation and the damper itself; failure to take these distances into account may lead to defective operation of the damper.

$$Ø_{eq} = \frac{2 \bullet H \bullet L}{H + L}$$

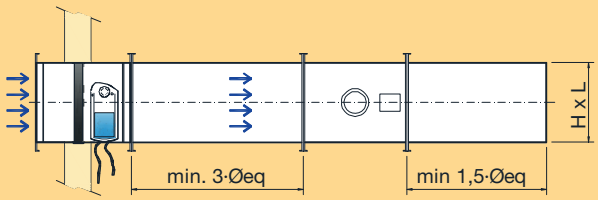
Distance to an elbow joint



Distance to a branch, reducer joint or junction

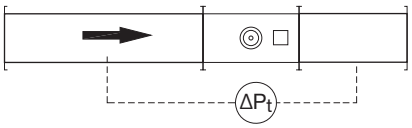


Distance to a fire damper



RSVQ-K			
Dimensions [mm]	L [mm]	H [mm]	Ø eq [mm]
200 x 100	200	100	133
300 x 100	300	100	150
200 x 150	200	150	172
300 x 150	300	150	200
200 x 200	200	200	200
300 x 200	300	200	240
500 x 200	500	200	286
400 x 250	400	250	308
500 x 250	500	250	333
600 x 250	600	250	353
500 x 300	500	300	375
600 x 300	600	300	400
400 x 400	400	400	400
500 x 400	500	400	444
600 x 400	600	400	480
500 x 500	500	500	500
600 x 500	600	500	546
600 x 600	600	600	600
On request other sizes available			

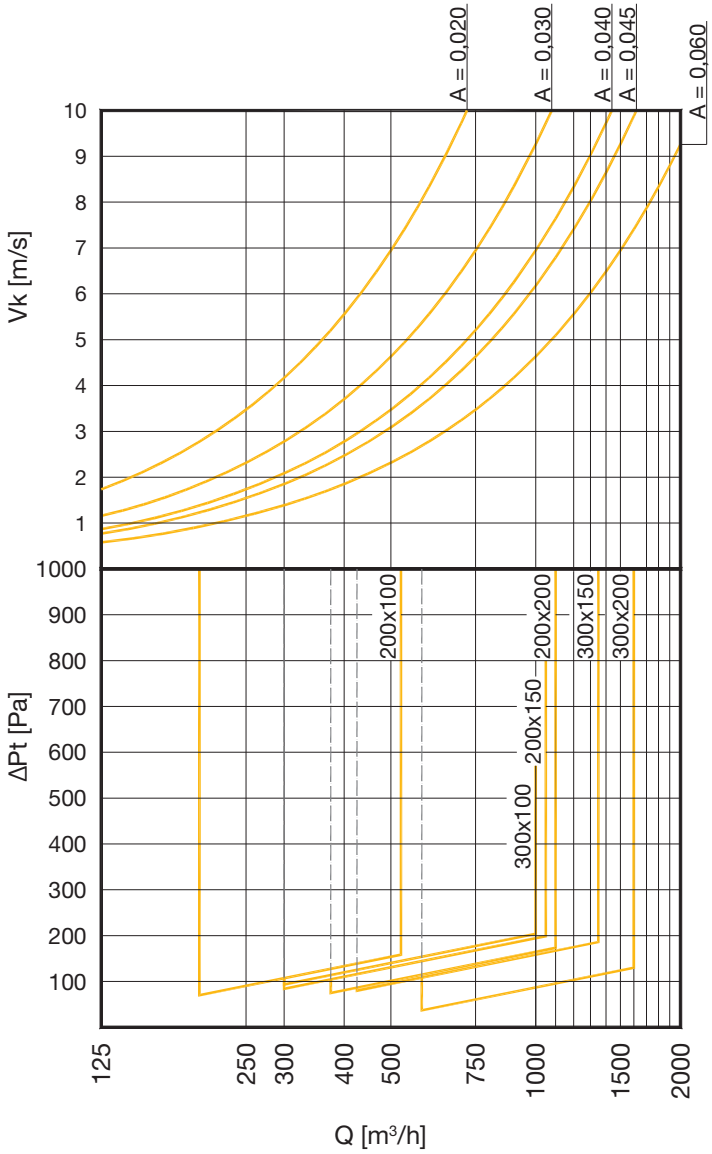
RSVQ-K



Raccommended airflow

RSVQ-K	Velocity Q [m³/h]	Δp min [Pa]	A
200 x 100	Q min. 200	70 < P < 1000	0,020
	Q max. 525	158 < P < 1000	
300 x 100	Q min. 300	90 < P < 1000	0,030
	Q max. 1000	200 < P < 1000	
200 x 150	Q min. 300	84 < P < 1000	0,030
	Q max. 1050	199 < P < 1000	
300 x 150	Q min. 425	80 < P < 1000	0,045
	Q max. 1350	186 < P < 1000	
200 x 200	Q min. 375	75 < P < 1000	0,040
	Q max. 1100	175 < P < 1000	
300 x 200	Q min. 580	37 < P < 1000	0,060
	Q max. 1600	130 < P < 1000	

Free velocity - Pressure drop

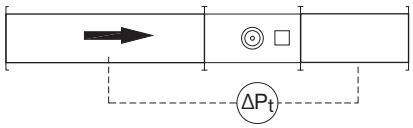


RSVQ-K

Sound power level

RSVQ-K	Q [m³/h]	L_{wa} 1 150 Pa	300 Pa	450 Pa	600 Pa
200 x 100	225	50,2	57,4	61,3	64,2
	310	51,9	58,8	62,7	65,4
	390	53,6	60,2	64,0	66,6
	460	55,0	61,4	65,1	67,7
300 x 100	280	49,4	56,7	60,7	63,6
	470	52,0	58,9	62,7	65,5
	660	54,6	61,1	64,8	67,4
	820	56,8	62,9	66,5	68,9
200 x 150	300	49,7	56,9	60,9	63,8
	525	52,7	59,5	63,3	66,0
	725	55,5	61,8	65,4	68,0
	900	57,9	63,8	67,3	69,7
300 x 150	500	50,1	57,3	61,3	64,1
	700	51,9	58,9	62,7	65,5
	975	54,5	61	64,6	67,3
	1180	56,3	62,5	66,1	68,6
200 x 200	360	49,3	57,4	61,1	64,3
	600	51,7	58,7	62,5	65,3
	775	53,5	60,2	63,9	66,6
	950	55,3	61,7	65,3	67,9
300 x 200	580	50,5	56,8	60,8	63,7
	925	51,9	58,8	62,6	65,4
	1110	53,2	59,9	63,6	66,3
	1325	54,6	61,1	64,8	67,4

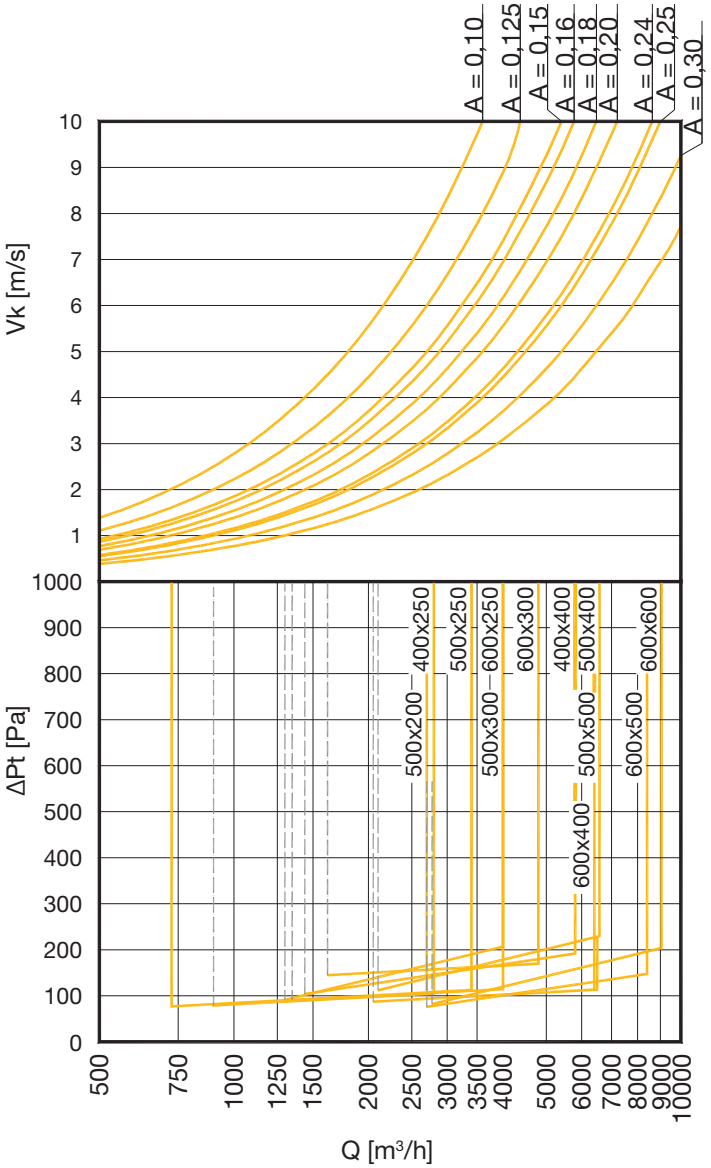
RSVQ-K



Raccommended airflow

RSVQ-K	Velocity Q [m³/h]	Δp min [Pa]	A
500 x 200	Q min. 900	79 < P < 1000	0,10
	Q max. 2700	158 < P < 1000	
400 x 250	Q min. 900	86 < P < 1000	0,10
	Q max. 2800	200 < P < 1000	
500 x 250	Q min. 725	77 < P < 1000	0,125
	Q max. 3400	199 < P < 1000	
600 x 250	Q min. 1300	91 < P < 1000	0,15
	Q max. 4000	186 < P < 1000	
500 x 300	Q min. 1350	91 < P < 1000	0,15
	Q max. 4000	175 < P < 1000	
600 x 300	Q min. 1620	145 < P < 1000	0,18
	Q max. 4800	130 < P < 1000	
400 x 400	Q min. 1440	104 < P < 1000	0,16
	Q max. 5800	130 < P < 1000	
500 x 400	Q min. 2100	112 < P < 1000	0,20
	Q max. 6575	130 < P < 1000	
600 x 400	Q min. 2100	85 < P < 1000	0,24
	Q max. 6400	130 < P < 1000	
500 x 500	Q min. 2050	87 < P < 1000	0,25
	Q max. 6500	130 < P < 1000	
600 x 500	Q min. 2700	76 < P < 1000	0,30
	Q max. 8400	130 < P < 1000	
600 x 600	Q min. 2775	82 < P < 1000	0,36
	Q max. 9050	130 < P < 1000	

Free velocity - Pressure drop



RSVQ-K

Sound power level

RSVQ-K	Q [m³/h]	L_{wa} 1 150 Pa	300 Pa	450 Pa	600 Pa
500 x 200	1100	51,9	59,1	63	65,9
	1500	53,5	60,5	64,3	67,1
	1800	54,8	61,5	65,3	68
	2050	55,8	62,4	66,1	68,7
400 x 250	1080	51,8	59,0	63,0	65,8
	1560	53,8	60,7	64,5	67,3
	1980	55,5	62,1	65,8	68,5
	2420	57,3	63,6	67,3	69,8
500 x 250	1475	53,1	60,3	64,2	67,0
	1975	54,7	61,6	65,5	68,2
	2450	56,3	63,0	66,7	69,4
	2875	57,7	64,1	67,8	70,4
600 x 250	1725	53,9	61,1	65,0	67,9
	2250	55,3	62,3	66,1	68,9
	2775	56,8	63,5	67,2	69,9
	3235	58,0	64,5	68,2	70,8
500 x 300	1650	53,7	60,9	64,8	67,7
	2200	55,2	62,2	66,0	68,8
	2725	56,6	63,4	67,1	69,8
	3250	58,1	64,6	68,2	70,9
600 x 300	2100	55,1	62,2	66,1	69,0
	2800	56,6	63,6	67,4	70,2
	3350	57,9	64,6	68,4	71,1
	3800	58,9	65,5	69,2	71,8

Sound power level

RSVQ-K	Q [m³/h]	L_{wa} 1 150 Pa	300 Pa	450 Pa	600 Pa
400 x 400	1700	53,9	61,2	65,1	68,0
	2900	57,0	63,7	67,5	70,2
	3925	59,6	65,9	69,6	72,1
	4800	61,9	67,8	71,3	73,7
500 x 400	2100	55,3	62,5	66,5	69,4
	3350	57,8	64,7	68,5	71,2
	4400	60,0	66,5	70,2	72,8
	5475	62,2	68,3	71,9	74,4
600 x 400	3225	58,0	65,0	68,9	71,7
	3875	59,1	66,0	69,8	72,5
	4500	60,2	66,9	70,6	73,3
	5075	61,1	67,7	71,4	74,0
500 x 500	3025	57,5	64,7	68,6	71,4
	3900	59,0	65,9	69,7	72,5
	4625	60,1	66,8	70,5	73,2
	5350	61,3	67,9	71,6	74,2
600 x 500	3500	59,4	66,5	70,4	73,3
	4850	61,2	68,1	71,9	74,6
	6125	62,9	69,5	73,2	75,9
	7250	64,5	70,8	74,4	77,0
600 x 600	4350	60	67,2	71,1	73,9
	5550	61,4	68,3	72,1	74,9
	6650	62,6	69,4	73,1	75,8
	7875	64,0	70,5	74,2	76,8

SagiCofim spa
Comfort Filtration Engineering

via Firenze 1
20063 Cernusco sul Naviglio
Milano Italy
tel +39 02 929021
fax +39 02 92902300
info@sagicofim.com
www.sagicofim.com

SE.2017.07_RSVQ_T