



SKC-R rectangular constant air volume dampers



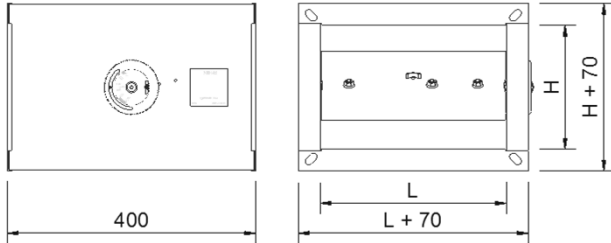
MADEL®

The **SKC-R** 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.

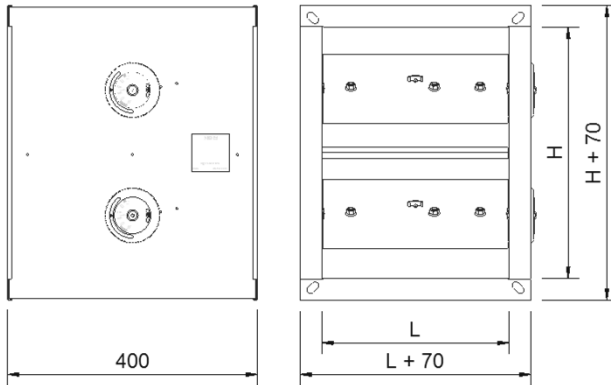
SKC-R is an automatic damper independent of external energy sources. The damper is operated by an opposed opening force from a spring on the blade.

SKC-R/ MA

H ≤ 300



H > 400



CLASSIFICATION

SKC-R/ MA Damper with manual device for setting of one flow (indicate required flow).

.../AIS/ SC-R/MA damper with thermal and acoustic insulation (indicate required flow).

MATERIAL

Damper constructed from galvanized steel.

FIXING SYSTEMS

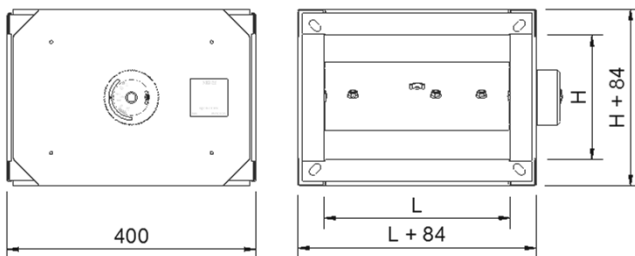
Connection into a rectangular duct.

FINISHES

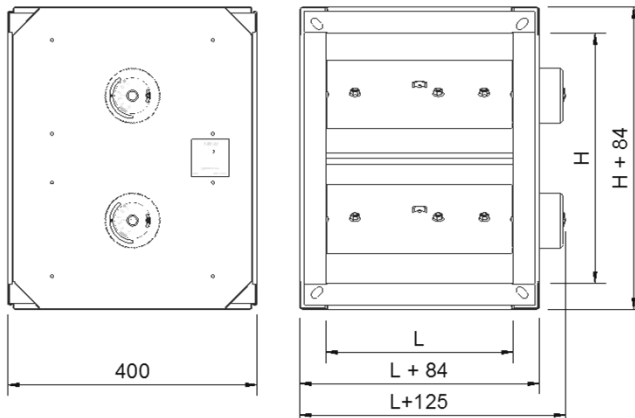
Galvanized steel.

SKC-R/AIS/MA

H ≤ 300



H > 400



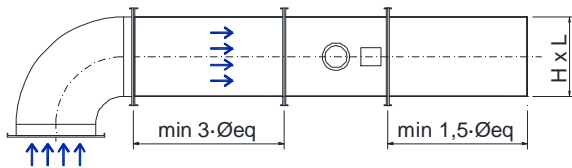
SPECIFICATION TEXT

Supply and mounting of rectangular constant air volume damper to facilitate balancing of ventilation systems series **SKC-R/MA LxH mm**. Constructed from galvanized steel and tightness joint from rubber. Manufacturer **MADEL**.

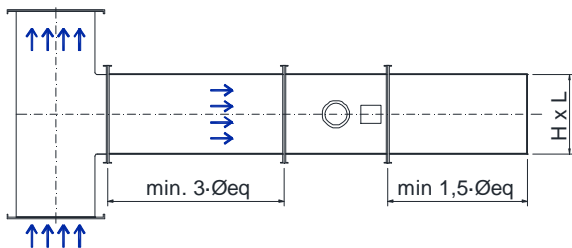
SKC-R/ MA

INSTALLATION

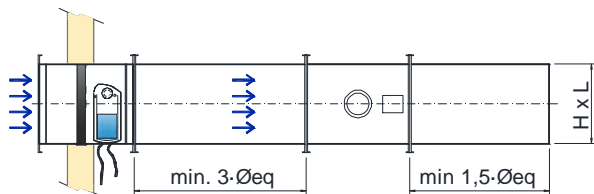
Distance to an elbow joint



Distance to a branch, reducer joint or junction



Distance to a fire damper

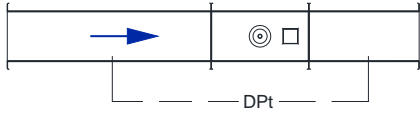


For good operation of SKC_R constant flow dampers, the installation must be carried out taking into account the minimum distances between the elements of the installation and the damper itself; failure to take these distances into account may lead to defective operation of the damper.

$$\varnothing_{eq} = \frac{2 \cdot H \cdot L}{H + L}$$

SKC-R	L	H	Ø _{eq}
200x100	200	100	133
300x100	300	100	150
200x150	200	150	172
300x150	300	150	200
200x200	200	200	200
300x200	300	200	240
500x200	500	200	286
400x250	400	250	308
500x250	500	250	333
600x250	600	250	353
500x300	500	300	375
600x300	600	300	400
400x400	400	400	400
500x400	500	400	444
600x400	600	400	480
500x500	500	500	500
600x500	600	500	546
600x600	600	600	600

SKC SERIES



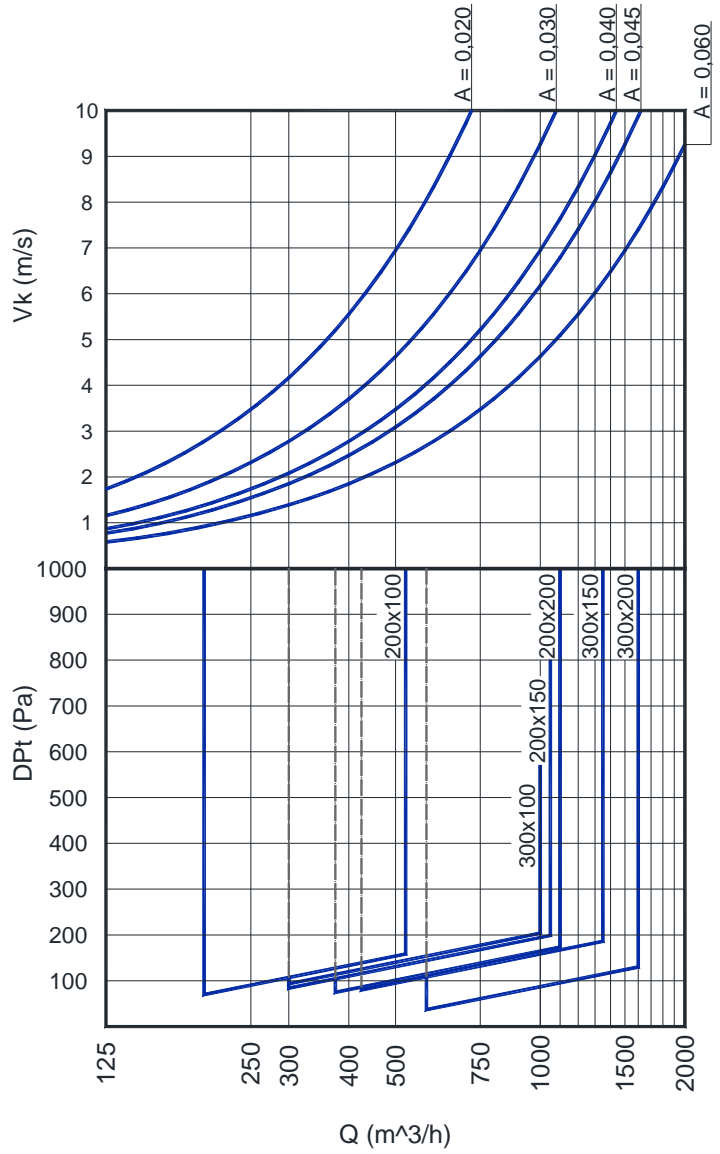
RECOMMENDED AIRFLOW

SKC-R	Q (m ³ /h)	dPmin (Pa)	A
200x100	Qmin 200	70 < P < 1000	0,020
	Qmax 525	158 < P < 1000	
300x100	Qmin 300	90 < P < 1000	0,030
	Qmax 1000	200 < P < 1000	
200x150	Qmin 300	84 < P < 1000	0,030
	Qmax 1050	199 < P < 1000	
300x150	Qmin 425	80 < P < 1000	0,045
	Qmax 1350	186 < P < 1000	
200x200	Qmin 375	75 < P < 1000	0,040
	Qmax 1100	175 < P < 1000	
300x200	Qmin 580	37 < P < 1000	0,060
	Qmax 1600	130 < P < 1000	

RECOMMENDED AIRFLOW

SKC-R	Q (m ³ /h)	L wa1			
		150 Pa	300 Pa	450 Pa	600 Pa
200x100	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
300x100	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
200x150	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
300x150	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
200x200	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
300x200	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

FREE VELOCITY, PRESSURE LOSS



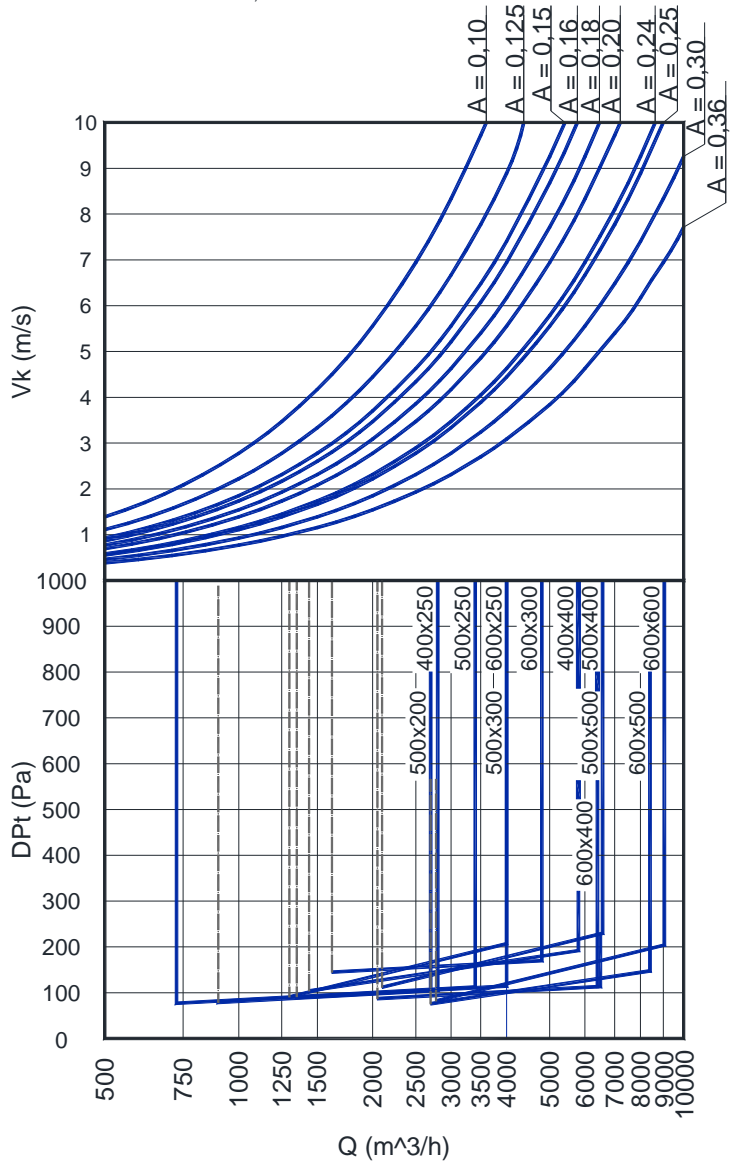
SKC SERIES

FREE VELOCITY, PRESSURE LOSS



RECOMMENDED AIRFLOW

SKC-R	Q (m ³ /h)	dPmin (Pa)	A
500x200	Qmin 900	79 < P < 1000	0,10
	Qmax 2700	158 < P < 1000	
400x250	Qmin 900	86 < P < 1000	0,10
	Qmax 2800	200 < P < 1000	
500x250	Qmin 725	77 < P < 1000	0,125
	Qmax 3400	199 < P < 1000	
600x250	Qmin 1300	91 < P < 1000	0,15
	Qmax 4000	186 < P < 1000	
500x300	Qmin 1350	91 < P < 1000	0,15
	Qmax 4000	175 < P < 1000	
600x300	Qmin 1620	145 < P < 1000	0,18
	Qmax 4800	130 < P < 1000	
400x400	Qmin 1440	104 < P < 1000	0,16
	Qmax 5800	130 < P < 1000	
500x400	Qmin 2100	112 < P < 1000	0,20
	Qmax 6575	130 < P < 1000	
600x400	Qmin 2100	85 < P < 1000	0,24
	Qmax 6400	130 < P < 1000	
500x500	Qmin 2050	87 < P < 1000	0,25
	Qmax 6500	130 < P < 1000	
600x500	Qmin 2700	76 < P < 1000	0,30
	Qmax 8400	130 < P < 1000	
600x600	Qmin 2775	82 < P < 1000	0,36
	Qmax 9050	130 < P < 1000	



RECOMMENDED AIRFLOW

SKC-R	Q (m ³ /h)	L wa1			
		150 Pa	300 Pa	450 Pa	600 Pa
500x200	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
400x250	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
500x250	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
600x250	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
500x300	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
600x300	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
400x400	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

SKC-R	Q (m ³ /h)	L wa1			
		150 Pa	300 Pa	450 Pa	600 Pa
500x400	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
600x400	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
500x500	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
600x500	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
600x600	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