



SKC
Constant Air Volume Dampers



SKC SERIES

Constant Air Volume Dampers



Self adjusts itself to maintain pre-set air volume



Available for duct diameters ranging between 4" and 16"



Facilitates air balancing



Helps prevent pressure loss over time, i.e. caused by dirty filters or ducts



Compensates for sudden pressure changes caused by elevators, doors opening & more



Helps ensure optimal performance of the system over time and despite changing conditions



Good solution for high ceilings and areas which are harder to access for balancing



Performs in applications where pressures vary between 0.2 and 4.019 in.w.g. (50 and 1,000 Pa)



SKC-C
by **MADEL®**

SKC-C series constant air volume dampers for circular duct, by EffectiV HVAC™ and MADEL®, greatly facilitate the balancing of ventilation systems. Those dampers maintain constant air volume at varying pressures caused by connection and disconnection of system parts, clogging of filters and ducts, wind effects, window opening, etc.

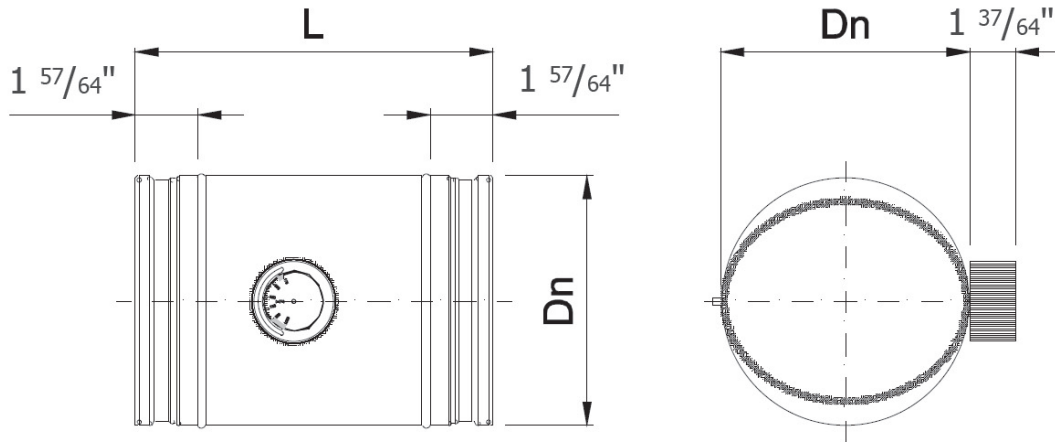
SKC-C is a self-adjustable damper, independent of external energy sources. It is preset by the installer to maintain a specific air volume in m³/h, easily convertible to cfm. The damper will then auto-adjust itself to maintain the desired volume of air while performing within a pressure range between 0.2 and 4.019 in.w.g. (between 50 and 1,000 Pa).

Adjustment is based on the balance between the force of air pressure on the blade and the reactive forces created by the spring and inflatable damper.

The adjustment knob has a graduated rate scale allowing for quick and easy adjustment of the desired air flow.

Model	Dn	L	Min cfm	Max cfm	Min Pressure Diff* (in.w.g.)	Max Pressure Diff (in.w.g.)
SKC-C 04	3 55/64"	8 55/64"	59	147	0.201 - 0.442	4.019
SKC-C 05	4 27/32"	10 5/8"	59	206	0.201 - 0.321	4.019
SKC-C 06	6 7/32"	11 39/64"	106	353	0.201 - 0.402	4.019
SKC-C 08	7 51/64"	11 39/64"	147	529	0.201 - 0.502	4.019
SKC-C 10	9 49/64"	13 3/16"	265	706	0.201 - 0.543	4.019
SKC-C 12	12 21/64"	13 25/64"	412	1235	0.201 - 0.884	4.019
SKC-C 14	13 57/64"	14 61/64"	529	1529	0.201 - 0.884	4.019
SKC-C 16	15 43/64"	16 17/32"	588	2000	0.201 - 0.884	4.019

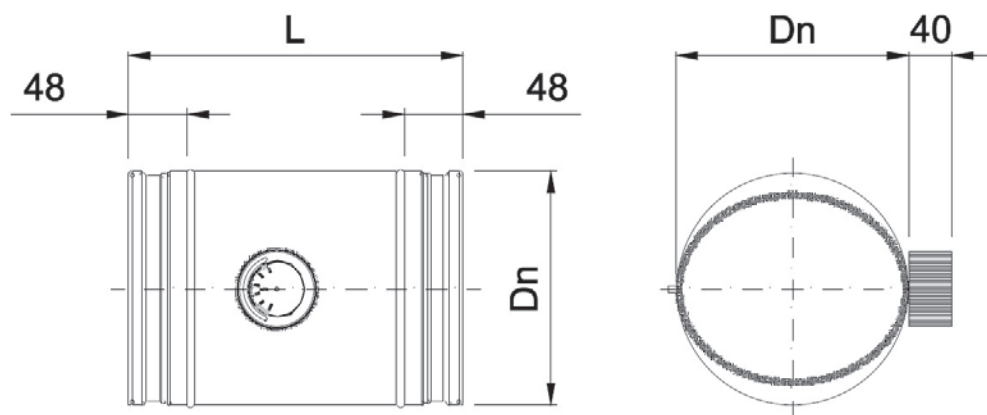
*Minimum pressure difference varies with air volume



Metric Dimensions

Model	Dn	L	Min m3/h	Max m3/h	Min Pressure Diff* (Pa)	Max Pressure Diff (Pa)
SKC-C 80	78 mm	225 mm	60	150	50 - 115	1000
SKC-C 100	98 mm	270 mm	100	250	50 - 110	1000
SKC-C 125	123 mm	270 mm	100	350	50 - 80	1000
SKC-C 160	158 mm	295 mm	180	600	50 - 100	1000
SKC-C 200	198 mm	295 mm	250	900	50 - 125	1000
SKC-C 250	248 mm	335 mm	450	1200	50 - 135	1000
SKC-C 315	313 mm	340 mm	700	2100	50 - 220	1000
SKC-C 355	353 mm	380 mm	900	2600	50 - 220	1000
SKC-C 400	398 mm	420 mm	1000	3400	50 - 220	1000

*Minimum pressure difference varies with air volume



SKC-C 80 Performance Data

cfm	m3/h	NC 100 Pa 0.4 in.w.g.	NC 250 Pa 1 in.w.g.	NC 500 Pa 2 in.w.g.	DPt (in.w.g.)
24	40	28	40	47	0.04
35	60	32	42	49	0.088
50	85	35	44	51	0.181
74	125	39	48	55	0.321

SKC-C 100 Performance Data

cfm	m3/h	NC 100 Pa 0.4 in.w.g.	NC 250 Pa 1 in.w.g.	NC 500 Pa 2 in.w.g.	DPt (in.w.g.)
41	70	33	40	45	0.06
65	110	36	44	50	0.12
100	170	39	48	54	0.321
124	210	41	50	55	0.442

SKC-C 125 Performance Data

cfm	m3/h	NC 100 Pa 0.4 in.w.g.	NC 250 Pa 1 in.w.g.	NC 500 Pa 2 in.w.g.	DPt (in.w.g.)
65	110	34	41	46	0.052
103	175	37	45	51	0.141
156	265	39	48	55	0.249
194	330	41	50	56	0.361

SKC-C 160 Performance Data

cfm	m3/h	NC 100 Pa 0.4 in.w.g.	NC 250 Pa 1 in.w.g.	NC 500 Pa 2 in.w.g.	DPt (in.w.g.)
106	180	35	44	50	0.064
171	290	38	47	53	0.141
256	435	39	48	55	0.301
318	540	41	49	56	0.402

SKC-C 200 Performance Data

cfm	m3/h	NC 100 Pa 0.4 in.w.g.	NC 250 Pa 1 in.w.g.	NC 500 Pa 2 in.w.g.	DPt (in.w.g.)
165	280	36	47	54	0.048
265	450	38	49	56	0.141
400	680	40	49	57	0.281
500	850	41	49	57	0.482

SKC-C 250 Performance Data

cfm	m3/h	NC 100 Pa 0.4 in.w.g.	NC 250 Pa 1 in.w.g.	NC 500 Pa 2 in.w.g.	DPt (in.w.g.)
265	450	37	37	55	0.06
412	700	39	49	56	0.104
623	1060	41	49	57	0.273
779	1325	42	51	57	0.522

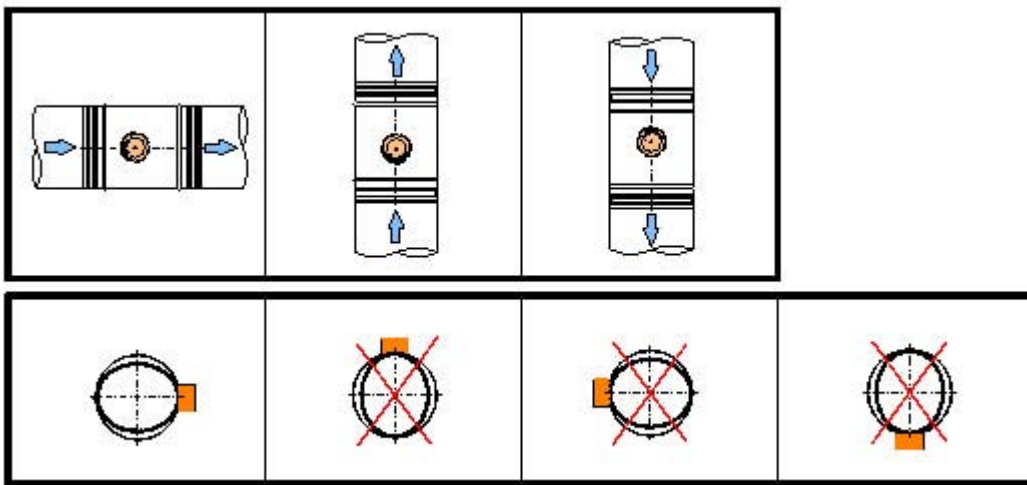
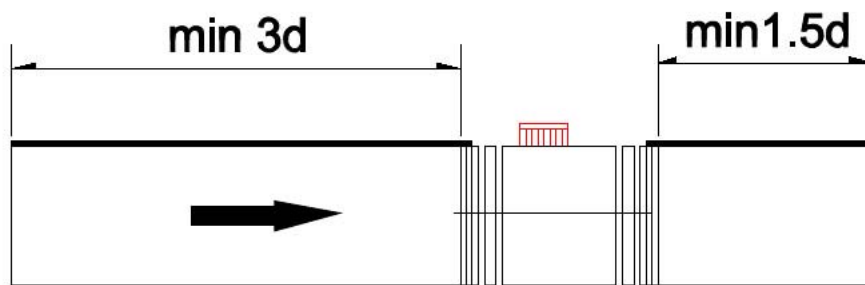
SKC-C 315 Performance Data

cfm	m3/h	NC 100 Pa 0.4 in.w.g.	NC 250 Pa 1 in.w.g.	NC 500 Pa 2 in.w.g.	DPt (in.w.g.)
412	700	38	50	56	0.08
659	1120	40	49	57	0.181
988	1680	44	50	57	0.341
1235	2100	47	52	58	0.554

SKC-C 400 Performance Data

cfm	m3/h	NC 100 Pa 0.4 in.w.g.	NC 250 Pa 1 in.w.g.	NC 500 Pa 2 in.w.g.	DPt (in.w.g.)
665	1130	40	52	58	0.096
1059	1800	41	51	56	0.217
1588	2700	51	53	58	0.502
2000	3400	55	56	61	0.743

SKC-C Installation



How to Specify SKC-C

Supply and mounting of SKC-C constant air volume damper for circular duct, self-adjustable to maintain pre-set air volume within pressures ranging between 50 Pa and 1,000 Pa. Constructed from galvanized steel. By EffectiV HVAC / MADEL.