

Air Knives

SILVENT 310 Z+



• Modular air knife system (ZYTEL)

SILVENT 310 Z+ is a modular, energy-efficient air knife that generates an extremely strong and effective blowing force with an exceptionally low sound level. Compressed air is optimally used in this air knife. Its unique design introduced a completely new blowing technology feature. The aerodynamic nozzle design achieves the effect by maximizing entrainment of air. Each orifice is also uniquely designed to optimize the entrainment area. SILVENT 310 Z+ modules can easily be combined to achieve the desired length of the air knife (see SILVENT A 12 in accessories).

TECHNICAL DATA

	304 Z+	310 Z+
Blowing force (N)	12.0	30.0
Air consumption (Nm³/h)	60	152
Sound level (dB(A))	83	90
Nozzle technology	Laval	Laval
Material (nozzle)	ZYTEL	ZYTEL
Connection	G 1/2"	G 1/2"
Weight (g)	230	250
Max temp (°C)	180	180
Max op. pressure (MPa)	1.0	1.0

Noise reduction

26 dB(A)

Energy savings

114 Nm³/h

Feed pressure = 500 (kPa)

Material specification: EN 1.0718, CW614N, Zytel HTN FG52G35 HSL BK011, ZYTEL HTN54G35HSLR BK031, Desmopan 487, EN1.4310

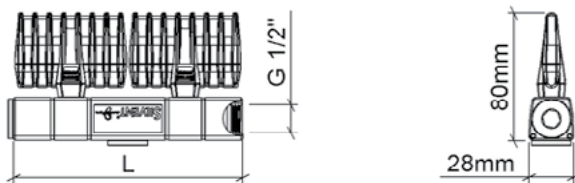
Blowing properties at different pressures (kPa)

304 Z+	200	400	600	800	1000
Blowing force (N)	5.0	9.8	14.2	18.6	23.0
Air consumption (Nm³/h)	32.0	50.0	68.0	86.0	104.0
Sound level (dB(A))	74.3	81.0	85.0	88.0	90.2

310 Z+	200	400	600	800	1000
Blowing force (N)	13.4	24.8	36.2	47.6	59.0
Air consumption (Nm³/h)	80.0	128.0	176.0	224.0	272.0
Sound level (dB(A))	82.0	88.5	92.1	94.3	95.7

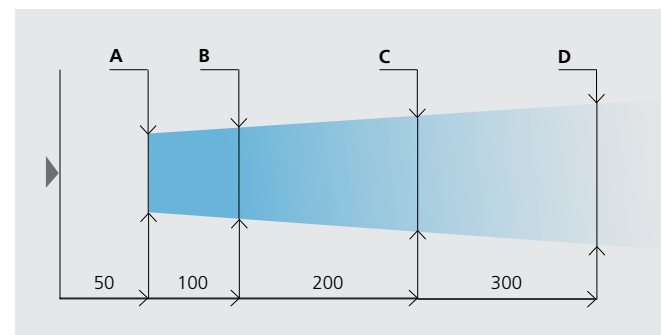
*For further information, see page 166 or visit silvent.com.

Dimensions



304 Z+: L=144 mm; **310 Z+:** L=144 mm

Blowing coverage (mm)



	A	B	C	D
304 Z+	152	172	212	252
310 Z+	172	192	232	272

ACCESSORIES



Adapter

A12 Connection nipple used to assemble Silvent 300 Z + air knives, e.g. 310 Z + and 304 Z +.
For more information see page 161.



Mounting Brackets

3902. For use with Silvent's air knives and air curtains.
For more information see page 161.



Modular air knife system

SILVENT 310 Z+ and SILVENT 304 Z+ can easily be assembled together. All that is needed is the accessory SILVENT A 12. It has never been easier to make an air knife that fits your specific application.

310 Z+

310 Z+	Blowing force		Noise level	Connections	Blowing coverage					
	Number	N (lbs)			Number	100 (4")	200 (8")	300 (12")		
	1	30.0 (6.6)	90	1	192	(7.56")	232	(9.13")	272	(10.71")
	2	60.0 (13.2)	93	2	336	(13.23")	376	(14.80")	416	(16.38")
	3	90.0 (19.9)	95	3	480	(18.90")	520	(20.47")	560	(22.05")
	4	120.0 (26.5)	96	3	624	(24.57")	664	(26.14")	704	(27.72")
	5	150.0 (33.1)	97	4	768	(30.24")	808	(31.81")	848	(33.39")
	6	180.0 (39.7)	98	5	912	(35.91")	952	(37.48")	992	(39.06")
	7	210.0 (46.3)	98	6	1056	(41.57")	1096	(43.15")	1136	(44.72")

304 Z+

304 Z+	Blowing force		Noise level	Connections	Blowing coverage					
	Number	N (lbs)			Number	100 (4")	200 (8")	300 (12")		
	1	12.0 (2.6)	83	1	172	(6.77")	212	(8.35")	252	(9.92")
	2	24.0 (5.3)	86	1	316	(12.44")	356	(14.02")	396	(15.59")
	3	36.0 (7.9)	88	1	460	(18.11")	500	(19.69")	540	(21.26")
	4	48.0 (10.6)	89	2	604	(23.78")	644	(25.35")	684	(26.93")
	5	60.0 (13.2)	90	2	748	(29.45")	788	(31.02")	828	(32.60")
	6	72.0 (15.9)	91	2	892	(35.12")	932	(36.69")	972	(38.27")
	7	84.0 (18.5)	91	2	1036	(40.79")	1076	(42.36")	1116	(43.94")