

MULTI-STAGE VACUUM GENERATORS SERIES M

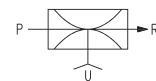
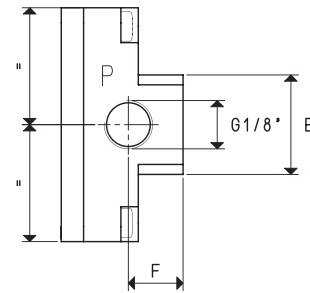
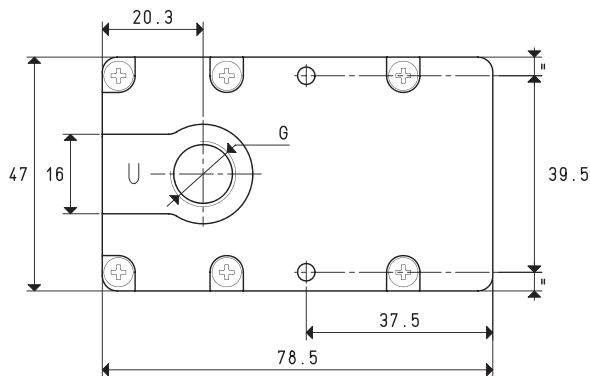
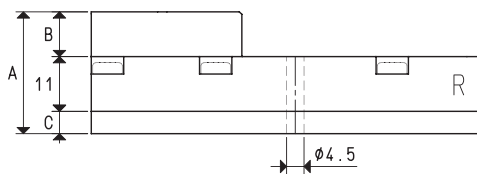


These vacuum generators feature multiple state of the art ejectors assembled onto small modules. One of their distinctive features is their great suction capacity compared to their reduced size.

With a compressed air supply of 4 ÷ 5 bar (g), they can produce a maximum vacuum equal to 85% and a suction capacity of 3.6 ÷ 18 cum/h, according to the number of modules.

The silencer is built-in.

They are fully made with slightly anodised alloys and can be installed in any position. The multi-stage vacuum generators in this range are suited for interconnecting vacuum cup gripping systems and, in particular, in the industrial robotics sector, which requires equipment with excellent working performance, but with weight and size reduced to the minimum.



		P=COMPRESSED AIR CONNECTION	R=EXHAUST	U=VACUUM CONNECTION				
Art.		M 3						M 7
Quantity of sucked air	cum/h		3	3.4	3.6	5.4	5.8	6.2
Max. vacuum level	-kPa		62	82	85	62	82	85
Final pressure	mbar abs.		380	180	150	380	180	150
Supply pressure	bar (g)		3	4	5	3	4	5
Air consumption	NI/s		0.5	0.7	0.8	0.8	1.2	1.4
Working temperature	°C				-10 / +80			-10 / +80
Noise level	dB(A)				64			70
Weight	g				109			111
A					24.5			25.5
B					9			10
C					4.5			4.5
E	∅				20			24
F					11			12
G	∅				G1/4"			G3/8"
Spare parts								
Sealing kit and reed valve	art.				00 KIT M 3			00 KIT M 7

Note: All the vacuum data indicated in the table are valid at the normal atmospheric pressure of 1013 mbar and are obtained with a constant supply pressure.

Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6}$ = $\frac{Kg}{0.4536}$

GAS-NPT thread adapters available at page 1.117

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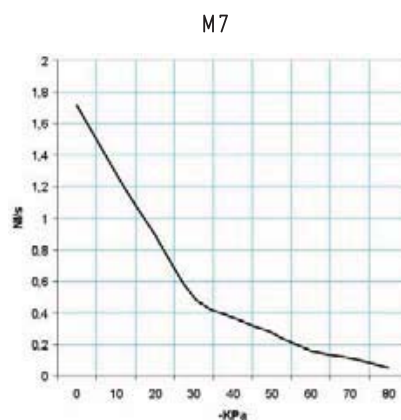
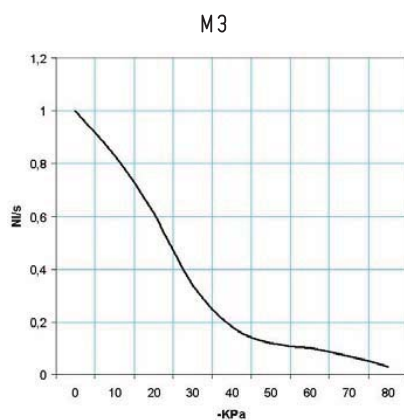
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3D drawings available at www.vuototecnica.net

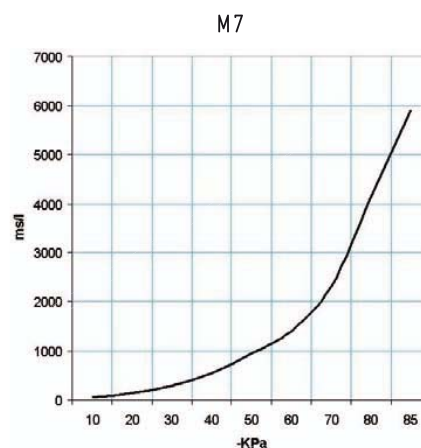
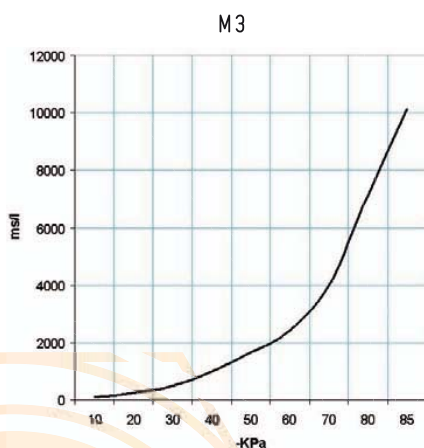
MULTI-STAGE VACUUM GENERATORS M 3 and M 7

Air capacity (NI/s) at different vacuum levels (-KPa)



Generator art.	Supply press. bar (g)	Air consumption NI/s	Air capacity (NI/s) at different vacuum levels (-KPa)										Max. vacuum level -KPa
			0	10	20	30	40	50	60	70	80		
M 3	5.0	0.8	1.00	0.83	0.61	0.34	0.18	0.12	0.10	0.07	0.03	85	
M 7	5.0	1.4	1.72	1.28	0.89	0.50	0.37	0.27	0.16	0.11	0.05	85	

Evacuation time (ms/l=s/m³) at different vacuum levels (-KPa)

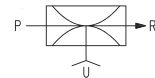
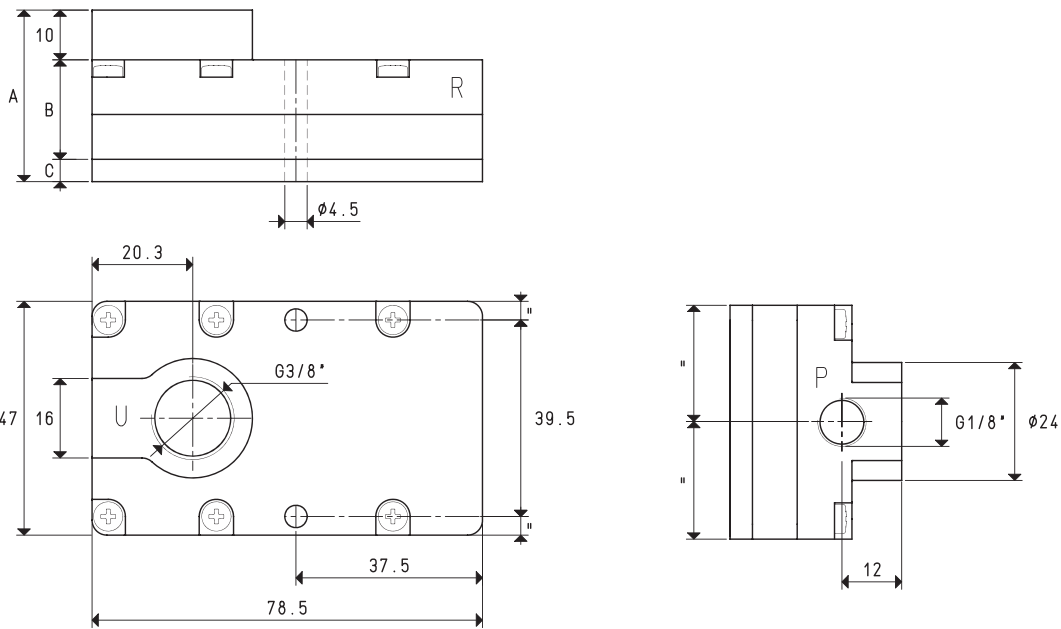


Generator art.	Supply press. bar (g)	Air consumption NI/s	Evacuation time (ms/l = s/m ³) at different vacuum levels (-KPa)										Max. vacuum level -KPa
			10	20	30	40	50	60	70	80	85		
M 3	5.0	0.8	106	244	491	969	1642	2398	4004	7128	10122	85	
M 7	5.0	1.4	61	142	285	563	954	1394	2328	4144	5885	85	

3D drawings available at www.vuototecnica.net



MULTI-STAGE VACUUM GENERATORS M 10, M 14 and M 18



Art.	P=COMPRESSED AIR CONNECTION	R=EXHAUST		U=VACUUM CONNECTION						
		M 10	M 14	M 10	M 14	M 18	M 10	M 14	M 18	
Quantity of sucked air	cum/h	7.7	8.5	9.4	10.2	11.6	12.6	14.8	16.5	18.0
Max. vacuum level	-KPa	62	82	85	62	82	85	62	82	85
Final pressure	mbar abs.	380	180	150	380	180	150	380	180	150
Supply pressure	bar (g)	3	4	5	3	4	5	3	4	5
Air consumption	Nl/s	1.2	1.6	1.9	1.7	2.1	2.5	2.3	2.9	3.6
Working temperature	°C			-10 / +80			-10 / +80			-10 / +80
Noise level	dB(A)			72			72			76
Weight	g			144			145			150
A				34.5			34.5			44.5
B				20			20			30
C				4.5			4.5			4.5
Spare parts										
Sealing kit and reed valve	art.			00 KIT M 10			00 KIT M 14			00 KIT M 18

Note: All the vacuum data indicated in the table are valid at the normal atmospheric pressure of 1013 mbar and are obtained with a constant supply pressure.

Conversion ratio: inch = $\frac{\text{mm}}{25.4}$; pounds = $\frac{\text{g}}{453.6}$ = $\frac{\text{Kg}}{0.4536}$

GAS-NPT thread adapters available at page 1.117

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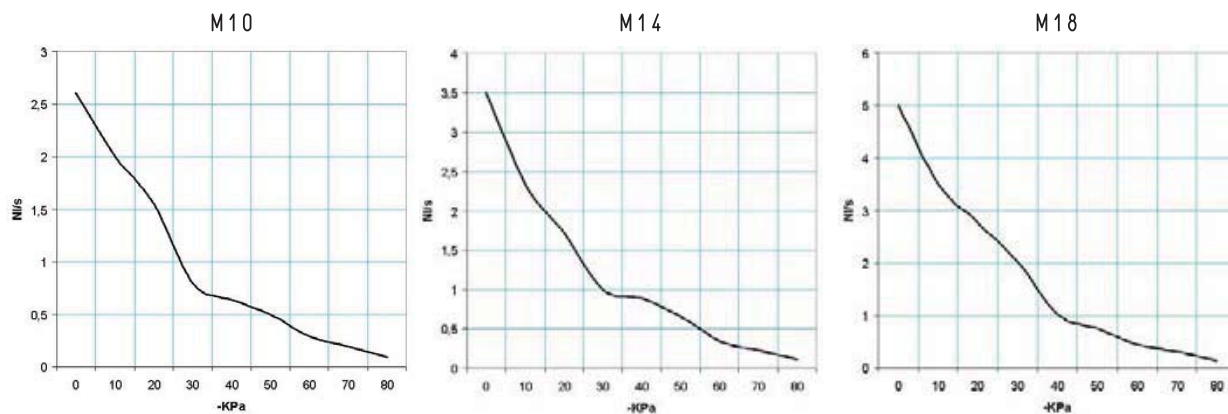
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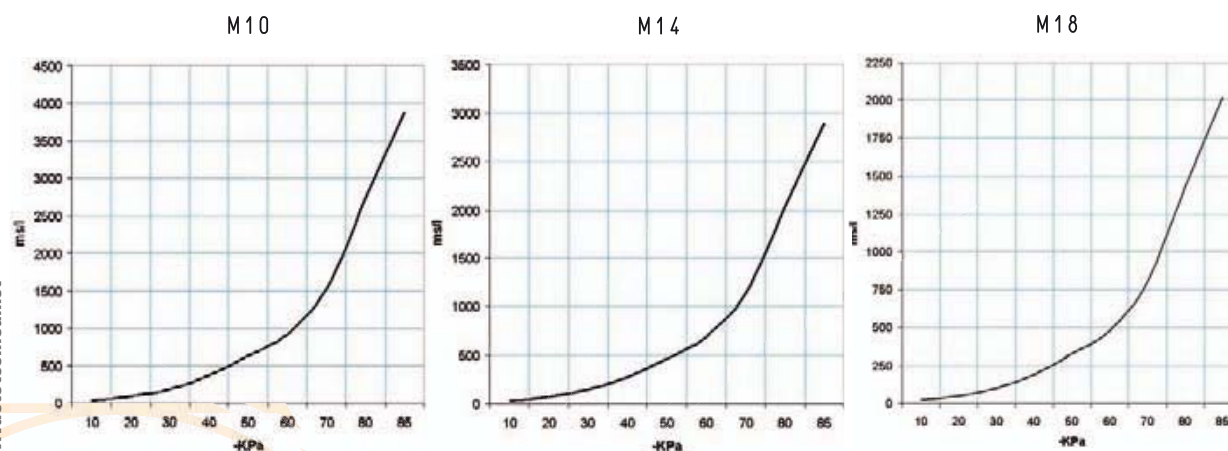
MULTI-STAGE VACUUM GENERATORS M 10, M 14 and M 18

Air capacity (NI/s) at different vacuum levels (-Kpa)



Generator art.	Supply press. bar (g)	Air consumption NI/s	Air capacity (NI/s) at different vacuum levels (-KPa)										Max. vacuum level -KPa
			0	10	20	30	40	50	60	70	80		
M 10	5.0	1.9	2.61	2.00	1.55	0.80	0.64	0.50	0.29	0.19	0.09	85	
M 14	5.0	2.5	3.50	2.33	1.72	1.00	0.89	0.67	0.35	0.24	0.11	85	
M 18	5.0	3.6	5.00	3.50	2.78	2.02	1.02	0.75	0.44	0.30	0.14	85	

Evacuation time (ms/l= s/m^3) at different vacuum levels (-Kpa)



Generator art.	Supply press. bar (g)	Air consumption NI/s	Evacuation time (ms/l = s/m^3) at different vacuum levels (-KPa)										Max. vacuum level -KPa
			10	20	30	40	50	60	70	80	85		
M 10	5.0	1.9	40	93	188	371	629	918	1534	2731	3878	85	
M 14	5.0	2.5	30	69	140	276	469	685	1144	2036	2892	85	
M 18	5.0	3.6	21	48	98	193	327	478	799	1423	2020	85	

