MULTI-STAGE, MULTI-FUNCTION AND MODULAR INTERMEDIATE VACUUM MODULES SERIES MI - GENERAL DESCRIPTION

Intermediate modules are non-independent multi-stage and multifunction vacuum generators to be assembled to the generators of the GVMM range.

Their thickness and weight are reduced to the maximum compared to their suction flow rate and they have been designed to be enclosed between the lid and the base of the GVMM vacuum generator and fixed with screws. The internal connections for the compressed air supply allow communication between them and the basic generator, with no need for external manifolds.

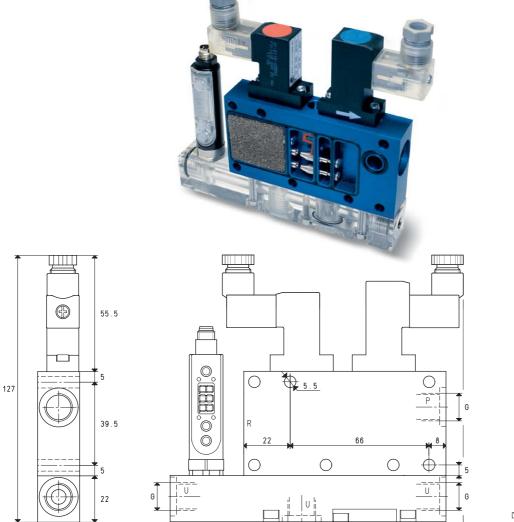
This way, each module becomes an independent vacuum unit that can control an entire vacuum system.

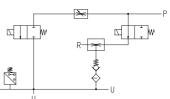
They can be ordered in the desired amount and flow rate, either already assembled onto the GVMM multi-function vacuum generator, or separately, to be assembled to the GVMM generator previously installed onto the machine. In this case, we suggest ordering a screw kit suitable for the number of modules to be assembled.

MI intermediate vacuum modules are made up of the same elements that compose GVMM generators, except for the lid. They operate and they are used as the GVMM multi-function vacuum generator onto which they are assembled.



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ltem			MI 3		MI 7				
Item			IVII 3						
Intake air flow rate	m³/h	2.6	2.8	3.0	5.5	6.0	6.4		
Maximum level of vacuum	-КРа	64	85	85	60	80	85		
Final pressure	mbar abs.	360	150	150	400	200	150		
Supply pressure	bar	3	4	5	3	4	5		
Optimal supply pressure	bar			5			5		
Air consumption	NI/s	0.6	0.7	0.8	0.9	1.1	1.3		
Max quantity of air blown at 5 bar	l/min			128			128		
Supply solenoid valve position	NO/NC			NO			NO		
Electrical absorption	W			2			2		
Ejection solenoid valve position	NC			NC			NC		
Electrical absorption	W			4			4		
Supply voltage	V			24DC			24DC		
Vacuum switch output				PNP			PNP		
Degree of protection	IP			65			65		
Temperature of use	°C			-10 / +60			-10 / +60		
Noise level at optimal supply pressure	dB(A)			66			70		
Weight	g			380			380		
G	Ø			G1/4"			G1/4"		

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Note: To order a generator without a digital vacuum switch, indicate code MI .. SV.

To order a generator with NC supply solenoid valve, indicate code MI .. NC.

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

Vacuum generator supply must be carried out with non-lubricated compressed air, 5 micron filtration, in accordance with standard ISO 8573-1 class 4.

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

Adapters for GAS - NPT threading available on page $1.130\,$

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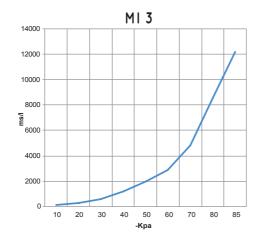
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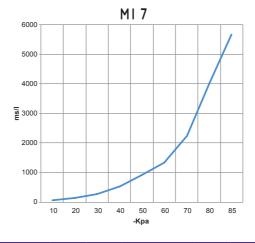
MI 3 MI 7 2 0,9 1.8 0.8 1,6 0,7 1,4 0,6 1,2 0,5 NI/S NI/s 1 0,4 0,8 0,3 0,6 0,2 0,4 0,1 0,2 0 0 0 10 20 30 40 50 60 70 80 0 10 20 30 40 50 60 70 80 -Kpa -Kpa

Air flow rate (NI/s) at different level of vacuum (-KPa) at optimal supply pressure

Generator	Supp. press.	Air consumption NI/s		Max vacuum								
item bar	Dai		0	10	20	30	40	50	60	70	80	-KPa
MI 3	5.0	0.8	0.83	0.66	0.38	0.20	0.16	0.11	0.09	0.06	0.02	85
MI 7	5.0	1.3	1.78	1.30	0.98	0.56	0.44	0.29	0.20	0.14	0.06	85

Evacuation rates (ms/l = s/m³) at different levels of vacuums (-KPa) at optimal supply pressure





Generator item	Supp. press.	Air consumption	Evacuation rates (ms/l= s/m³) at different levels of vacuums (-KPa) at optimal supply pressure									Max vacuum
nem Da	bar	NI/s	10	20	30	40	50	60	70	80	85	-KPa
MI 3	5.0	0.8	128	294	592	1167	1978	2889	4824	8588	12195	85
MI 7	5.0	1.3	59	137	275	543	921	1344	2245	3997	5676	85

ACCESSORIES AND SPARE PARTS UPON REQUEST

Item		MI 3	MI 7
Sealing kit and reed valves	item	00 KIT MI 3	00 KIT MI 7
Exhaust silencer	item	00 15 150	
Electrical connection cable with axial connector, for vacuum switch	item	00 12 20	
Electrical connection cable with radial connector, for vacuum switch	item	00 12 21	
Set of electrical connection cables, with built-in NO energy saving device and connectors	item	00 15 202	
Set of electrical connection cables, with built-in NC energy saving device and connectors	item	00 15 203	
Digital vacuum switch	item	12 10 10	
NO supply solenoid valve	item	00 15 176	
NC supply solenoid valve	item	00 15 175	