

Diaphragm Pumps, ILMVAC®

For dry, oil-free applications in the rough and medium-high vacuum range ILMVAC diaphragm pumps are used world-wide in production, research and science as well as in industry, laboratory and education. As an economically and ecologically superior alternative to water operated vacuum pumps the ILMVAC diaphragm pump range always offers a versatile, practical solution for many diverse applications.

- Vacuum distillation and filtration
- Vacuum concentration
- Vacuum drying
- Manipulating and handing systems
- Gel drying etc.

ILMVAC diaphragm pumps offer

- different material for chemical (MPC) or physical (MP) processes
- different flow rates from 300 l/h to 16 m³/h
- final pressures from 75 to < 1 mbar
- pressure control using VCB521

ILMVAC diaphragm pumps are available in complete pump systems - LVS laboratory vacuum systems - with components and materials selected for optimal practical employment in laboratory and industry.

Also used as regeneration pumps in combination pumping systems (Chemvac), they fulfill their tasks due to outstanding chemical resistance and stable vacuum parameters.

All ILMVAC diaphragm pumps are compactly and functionally designed. Maintenance and service work is fast and easy. ILMVAC diaphragm pumps guarantee outstanding operation and possess a long life span. They are extremely quiet in operation and work without oil.

Diaphragm pumps with ATEX approval are available on request.

Single-stage diaphragm pumps, final vacuum < 75 mbar

Type	Suction rate m³/h	W × D × H mm	Weight kg	Order No.
MP 060 E	0.6	115×165×145	2.3	10 92 41112
MP 105 E	0.9	235×140×277	6.25	10 92 41142
MP 301 E	2.3	260×162×252	8.9	10 92 41171
MP 601 E	3.8	230×265×169	11.2	56 92 40292
MP 1201 E	8.3	230×380×169	18.3	56 92 40392
MP 2401 E	15.5	540×300×240	32.8	56 92 41532
MPC 060 E	0.6	115×165×145	2.3	10 92 41212
MPC 105 E	0.9	235×140×277	6.3	10 92 41242
MPC 301 E	2.3	260×162×252	8.9	10 92 41271
① MPC 601 E	3.8	230×265×169	11.2	56 92 40492
MPC 1201 E	8.3	230×380×169	18.3	56 92 40532
MPC 2401 E	15.5	540×300×240	32.8	56 92 41792

Two-stage diaphragm pumps, final vacuum < 8 mbar

Type	Suction rate m³/h	W × D × H mm	Weight kg	Order No.
MP 055 Z	0.5	235×140×277	6.25	10 92 41143
MP 101 Z	1.0	195×235×145	6.5	56 92 40170
MP 301 Z	2.3	230×265×169	11.2	56 92 40282
MP 901 Z	6.8	230×380×169	18.3	56 92 40322
MP 1801 Z	12.0	540×300×240	32.8	56 92 41542
MPC 055 Z	0.5	235×140×277	6.25	10 92 41243
② MPC 101 Z	1.0	195×235×145	6.5	56 92 40171
MPC 301 Z	2.3	230×265×169	11.2	56 92 40482
MPC 901 Z	6.8	230×380×169	18.3	56 92 40522
MPC 1801 Z	12.0	540×300×240	32.8	56 92 41552

Three-stage diaphragm pumps, final vacuum < 2 mbar

Type	Suction rate m³/h	W × D × H mm	Weight kg	Order No.
MP 201 T	2.0	200×260×150	10.3	56 92 40176
MP 601 T	4.5	230×380×169	18.3	56 92 40312
MP 1201 T	8.3	540×300×240	32.8	56 92 41522
MPC 105 T	1.2	235×140×327	7.5	10 92 41244
MPC 201 T	2.0	200×260×150	10.3	56 92 40177
③ MPC 601 T	4.5	230×380×169	18.3	56 92 40512
MPC 1201 T	8.3	540×300×240	32.8	56 92 41782

Four-stage diaphragm pumps, final vacuum < 1 mbar

Type	Suction rate m³/h	W × D × H mm	Weight kg	Order No.
MP 101 V	1.0	200×260×150	10.3	56 92 40180
MP 301 V	2.3	230×380×169	18.3	56 92 40722



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Diaphragm pumps ecoflex

The new generation of intelligent vacuum engineering. Ecoflex diaphragm pumps are equipped with the vacuum Controllers VCB and are able to automatically adjust their rotational speed. Thus regulation of flow rate to match demand is achieved and the accuracy of the vacuum level is improves. The vacuum processes run more effectively and reproducibly. A reduction in operating cost of up to 80% is possible.

- low noise level
- smaller wear, longer maintenance level, longer life span
- simple, menu-led programming of the Controllers VCB, directly or over PC
- storage of all program and measuring data

Scope of delivery:

Diaphragm pump with special motor and frequency converter; Lead 1.5 m; Power supply plug and switch; hose nozzles for 8 mm hose inside diameters (with MPC 1201 T ecoflex with anges DN 16 KF) and controllers VCB.

For technical data of controller VCB 521 see page 531

Type	Suction rate m³/h	Ultimate vac. mbar	W x D x H mm	Wght kg	Order No.
MPC 301 Z ef	2.6	8	260x310x190	15.5	56 92 42112
MPC 601 T ef	4.9	2	260x420x190	22.6	56 92 42132
④ MPC 1201 T ef	8.3	2	540x300x240	34	56 92 42152

MPC: chemical-resistant applications

