

Diaphragm Vacuum Pumps | MP Standard Duty



Model
MP 060 E



Model
MP 055 Z / MP 105 E



Model
MP 101 Z



Specifications

Ilmvac Model	MP 060 E	MP 055 Z	MP 105 E	MP 101 Z
Number of heads / stages	2 / 1	2 / 2	2 / 1	2 / 2
Free Air Displacement				
m ³ /h(L/min)@50Hz	0.7(11.7)	0.5(8)	0.9(15)	1.0(16.7)
cfm(L/min)@60Hz	0.5(14)	0.3(9.1)	0.6(16.6)	0.7(18)
Ultimate pressure, mbar(torr)	100(75)	5(3.8)	60(45)	8(6)
Maximum Vacuum, in. Hg	27	29.8	28.2	29.7
Max. overpressure, bar	----	----	----	----
IN / EX hose connector	DN 6 silencer	DN 8	DN 8	DN 8
Tubing Needed, I.D. mm(in.)	6(0.24)	8(0.32)	8(0.32)	8(0.32)
Intake(EXhaust) Thread NPT	- (-)	- (1/8)	1/8(1/8)	1/4(1/4)
Sound level, dB(A)	42	44	44	45
Motor Power, watts(HP)	20(0.03)	68(0.09)	68(0.09)	60(0.08)
Type of motor protection, IP	20	42	42	54
Weight, kg(lbs.)	2.3(5.1)	6.25(13.8)	6.25(13.8)	6.5(14.3)
Overall Dimensions				
L x W xH in.(cm)	5.7x5x5.4 (14.4x12.7x13.6)	9x6x11 (23.5x14x27.7)	9x6x11 (23.5x14x27.7)	8x9x6 (20x24x15)
Ship Weight, lbs.(kg)	11(5)	8(17.6)	8(17.6)	9(19.8)
Shipping Carton Dimensions				
LxWxH cm(in.)	16x12x7 (40x30x17)	12x12x16 (30x30x40)	12x12x16 (30x30x40)	16x10x10 (41x26x25)

Ordering Information

230V, 50/60Hz, 1 Ph ¹	----	---	----	411522
115V, 50/60Hz, 1 Ph ²	----	----	----	411522-01
115/230V, 50/60Hz, 1 Ph ³	----	411422	411421	----
90-260V, 50/60Hz ⁴	411011	----	----	----
230/400V, 50/60Hz, 3 Ph ⁶	----	----	----	----

Applications

	page
1. Vacuum Filtration	18 - 19
2. Desiccator	20 - 21

MP Diaphragm Vacuum Pumps

- Standard Duty
- Oil Free

MP models use aluminium pump heads suitable for pumping non-reactive gases/vapors such as air, noble gases and water vapor. PTFE diaphragms are used because they offer longer lifetime than conventional elastomer diaphragms. The diaphragms consist of a PTFE membrane sandwiched to a strong non-wetted backing.

PEEK valves are used due to their excellent resistance to chemical attack and are extremely hard wearing when compared to elastomer valves. Connectors are made from PA with PTFE tubing.

Exhaust silencers are included with MP pumps.

Exhaust Silencer



Diaphragm Vacuum Pumps | MP Standard Duty



Model
MP 101 V / MP 201 T



Model
MP 301 E



Model
MP 301 Z / MP 601 E



Model
MP 301 V

MP 101 V	MP 201 T	MP 301 E	MP 301 Z	MP 301 V	MP 601 E
4 / 4	4 / 3	1 / 1	2 / 2	4 / 4	2 / 1
1.0(16.7)	2.0(33)	2.3(38)	2.3(38)	2.3(38)	3.8(63)
0.7(18)	1.3(36)	1.5(41)	1.5(41)	1.5(41)	2.5(70)
1(0.75)	2(1.5)	75(56.3)	8(6)	1(0.75)	75(56.3)
29.9	29.9	27.7	29.7	29.9	27.7
----	----	----	----	----	----
DN 8	DN 8	DN 8	DN 8	DN 16 KF / DN 8	DN 8
8(0.32)	8(0.32)	8(0.32)	8(0.32)	hose connector available	8(0.32)
1/4(1/4)	1/4(1/4)	- (-)	- (-)	- (-)	- (1/4)
45	45	45	45	45	45
90(0.12)	90(0.12)	180(0.25)	180(0.25)	370(0.5)	180(0.25)
54	54	54	54	54	54
10.3(22.7)	10.3(22.7)	8.9(19.6)	11.2(24.7)	18.3(40.3)	11.2(24.7)
8x10x6 (20x26x15)	8x10x6 (20x26x15)	10x6x10 (26x16x25)	9x10x7 (23x27x17)	9x15x7 (23x38x17)	9x10x7 (23x27x17)
13(28.7)	13(28.7)	12(26.5)	14(30.9)	22(48.5)	14(30.9)
16x10x10 (41x26x25)	16x10x10 (41x26x25)	14x10x12 (35x25x30)	19x13x12 (48x32x30)	19x13x12 (48x32x30)	19x13x12 (48x32x30)
411544	411543	411711	411722	411744	411721
411544-01	411543-01	411711-01	411722-01	411744-01	411721-01
----	----	----	----	----	----
----	----	----	----	----	----
----	----	o.r. 8	411722-02	411744-02	411721-02

For a Complete System

1. With Schuko and UK plug leads
2. With US plug lead
3. With Schuko, UK and US plug leads
4. With AC/DC adapter, Schuko, UK and US plug leads
5. With JP plug lead
6. Requires hard wiring to switched supply
7. With 3 phase 16A CEE plug lead
8. These pumps can be delivered on request

Note: Pumps can be adapted for OEM equipment integration or for all-in-one packages.

Hose Connectors

Type	CAT. No.
DN 8 male 1/8 inch	710953
DN 10 male 1/4 inch	710955
Y - piece	829923

See page 68.

KF Connectors

Connectors for vacuum hose & DN KF.

Type	CAT. No.
DN 16 KF - 1/4 AL	710108
DN 25 KF - 1/4 AL	710700



Component	page
• Traps	69
• CAPTURE Recovery System	71
• Inlet / Exhaust Accessories	69, 71
• Hose	67
• Gauges	76
• Vacuum Controller	75 - 76
• Service Kits	82