

Please see the pump selection reference chart on p. 1 for your specific needs.

- Aqueous Vacuum Filtration
- Air / Gas Sampling
- Vacuum Chambers
- Backing Pumps for Various Turbo Molecular Pumps
- Analytical Technology
- Mass Spectrometer
- Vacuum Chucking
- Parts Handling, Pick and Place Conveyor Lines



## Specifications

Ilmvac Model	MP 060 E	MP 055 Z	MP 105 E	MP 101 Z	MP 101 V	MP 201 T
Number of heads / stages	2 / 1	2 / 2	2 / 1	2 / 2	4 / 4	4 / 3
Free Air Displacement						
m <sup>3</sup> /h(L/min)@50Hz	0.6(10)	0.5(8)	0.9(15)	1.0(16.7)	1.0(16.7)	2.0(33)
cfm(L/min)@60Hz	0.4(10)	0.3(9.1)	0.6(16.6)	0.7(18)	0.7(18)	1.3(36)
Ultimate pressure, mbar(torr)	60(45)	5(3.8)	60(45)	8(6)	1(0.75)	2(1.5)
Maximum Vacuum, in. Hg	28.2	29.8	28.2	29.7	29.9	29.9
Max. overpressure, bar	----	----	----	----	----	----
IN / EX hose connector	DN 6/8 / silencer	DN 8	DN 8	DN 8	DN 8	DN 8
Tubing Needed, I.D. mm(in.)	6(0.24) / 8(0.32)	8(0.32)	8(0.32)	8(0.32)	8(0.32)	8(0.32)
Intake(EXhaust) Thread NPT	- (-)	- (1/8)	1/8(1/8)	1/4(1/4)	1/4(1/4)	1/4(1/4)
Sound level, dB(A)	42	44	44	45	45	45
Motor Power, watts(HP)	20(0.03)	68(0.09)	68(0.09)	60(0.08)	90(0.12)	90(0.12)
Type of motor protection, IP	20	42	42	54	54	54
Weight, kg(lbs.)	2.3(5.1)	6.25(13.8)	6.25(13.8)	6.5(14.3)	10.3(22.7)	10.3(22.7)
Overall Dimensions						
L cm(in.)	11.5(4.5)	23.5(9.3)	23.5(9.3)	19.5(7.7)	20(7.9)	20(7.9)
W cm(in.)	16.5(6.5)	14(5.5)	14(5.5)	23.5(9.3)	26(10.2)	26(10.2)
H cm(in.)	14.5(5.7)	27.7(10.9)	27.7(10.9)	14.5(5.7)	15(5.9)	15(5.9)
Ship Weight, kg(lbs.)	3(6.6)	8(17.6)	8(17.6)	9(19.8)	13(28.7)	13(28.7)
Shipping Carton Dimensions						
LxWxH cm(in.)	40x30x17 (15.7x11.8x6.7)	30x30x40 (11.8x11.8x15.7)	30x30x40 (11.8x11.8x15.7)	41x26x25 (16.1x10.2x9.8)	41x26x25 (16.1x10.2x9.8)	41x26x25 (16.1x10.2x9.8)

## Ordering Information

230V, 50/60Hz, 1 Ph <sup>1</sup>	----	----	----	411522	411544	411543
115V, 50/60Hz, 1 Ph <sup>2</sup>	----	----	----	411522-01	411544-01	411543-01
115/230V, 50/60Hz, 1 Ph <sup>3</sup>	----	411422	411421	----	----	----
90-260V, 50/60Hz <sup>4</sup>	411121	----	----	----	----	----
100V, 50/60Hz, 1 Ph <sup>5</sup>	----	o.r. <sup>8</sup>	o.r. <sup>8</sup>	o.r. <sup>8</sup>	o.r. <sup>8</sup>	o.r. <sup>8</sup>
230/400V, 50/60Hz, 3 Ph <sup>6</sup>	----	----	----	----	----	----

Note:  
Every pump is supplied with ON/OFF switch and internal protective thermal switch for the motor, carry handle and vibration isolating feet and EXhaust silencer. Comes pre-assembled.

For more information about materials of construction, Advanced Diaphragm Technology, the Ecoflex concept and ATEX, please see p. 9.

If there is a need for service information and service kits please see p. 31.

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 (other country specific plug leads available upon request, please see p. 32)



MP 301 E



MP 301 Z  
MP 601 E



MP 301 V

MP 301 E      MP 301 Z      MP 301 V      MP 601 E

1 / 1      2 / 2      4 / 4      2 / 1

2.3(38)      2.3(38)      2.3(38)      3.8(63)

1.5(41)      1.5(41)      1.5(41)      2.5(70)

75(56.3)      8(6)      1(0.75)      75(56.3)

27.7      29.7      29.9      27.7

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DN 8      DN 8      DN 16 KF / DN 8      DN 8

8(0.32)      8(0.32)      hose connector available      8(0.32)

- (-)      - (-)      - (-)      - (1/4)

45      45      45      45

180(0.25)      180(0.25)      370(0.5)      180(0.25)

54      54      54      54

8.9(19.6)      11.2(24.7)      18.3(40.3)      11.2(24.7)

26(10.2)      23(9.1)      23(9.1)      23(9.1)

16.2(6.4)      26.5(10.4)      38(15)      26.5(10.4)

25.2(9.9)      16.9(6.7)      16.9(6.7)      16.9(6.7)

12(26.5)      14(30.9)      22(48.5)      14(30.9)

35x25x30 (13.8x9.8x11.8)      48x32x30 (18.9x12.6x11.8)      48x32x30 (18.9x12.6x11.8)      48x32x30 (18.9x12.6x11.8)

411711      411722      411744      411721

411711-01      411722-01      411744-01      411721-01

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o.r.<sup>8</sup>      o.r.<sup>8</sup>      o.r.<sup>8</sup>      o.r.<sup>8</sup>

o.r.<sup>8</sup>      411722-02      411744-02      411721-02

### OEM Modification/Customization

Welch-Ilmvac vacuum pumps can adapt for OEM equipment integration or for all-in-one packages.

- Color, motor voltage, Intake and Exhaust connector
- Package solution with integrated components

Please see our OEM catalog or contact your local Welch-Ilmvac representative for further details and a customized offer.

### Vacuum Hose

Vacuum hose connection certain for common laboratory application. Please indicate the length in meter.

Material	O.D. mm	I.D. mm	Wall Thickness	CAT. No.
Rubber red	18	8	5	828310-4
Rubber red	20	10	5	828310-3
Silicone	12	6	3	828374



### Particulate, In-line filter

The filter is an economical solution to protect the vacuum pump from fine particulates and aerosols to 0.2 microns .

Type	CAT. No.
DN 8	112555-04



### EXhaust Silencer

Exhaust silencers are installed in the exhaust port of the vacuum pump to reduce pump noise.

Type	CAT. No.
MP 060 E, MP 055 Z, MP 105 E	400942
MP 101 Z, MP 101 V, MP 201 T	829901
MP 301 E	400941
MP 301 Z, MP 301 V	400956
MP 601 E	829901
MP 601 T, MP 901 Z, MP 1201 E	



### Hose Connectors

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



### KF Connectors

Connectors for vacuum hose and DN KF.

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



### Metal Vacuum Hose

Stainless Steel metal vacuum hose in various sizes and length for DN KF IN and EX connectors.

Type	Length mm	CAT. No.
DN 16 KF	500	710761
DN 16 KF	1000	710764
DN 25 KF	500	710762
DN 25 KF	1000	710765



### Accessories for KF Connectors

Centering ring made of aluminum with Viton O-Ring.

Type	CAT. No.
DN 16 KF	701091
DN 25 KF	701093



Hinge clamp ring for DN KF flange. Made of aluminium. Closure by wing and nut bolt.

Type	CAT. No.
DN 16 KF	701011
DN 25 KF	701013

