

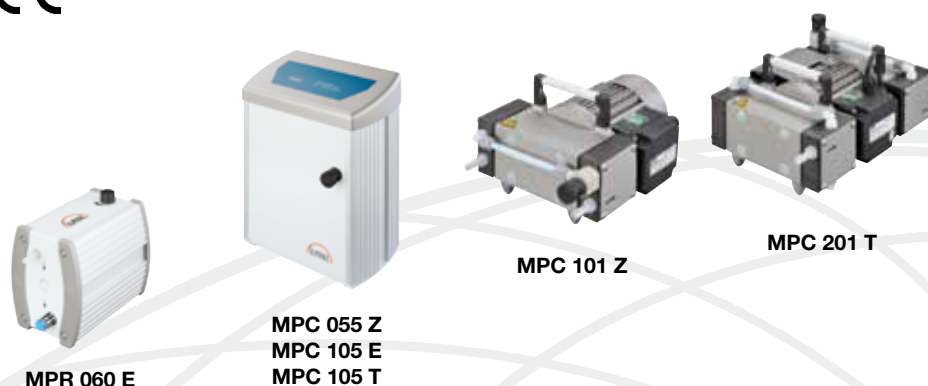
Applications

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

- Rotary Evaporator
- Vacuum Oven
- Vacuum Filtration
- General Vacuum Work
- Gel Dryer
- Vacuum Concentrator
- Distillation / Evaporation
- Desiccation / Degassing
- Solid Phase Extraction
- Replace Water Jet Pumps



Dry Vacuum Pumps



Specifications

Imvac Model

	MPR 060 E	MPC 055 Z	MPC 105 E	MPC 101 Z	MPC 105 T	MPC 201 T
adjustable vacuum						
Number of heads / stages	2 / 1	2 / 2	2 / 1	2 / 2	4 / 3	4 / 3
Free Air Displacement						
m ³ /h(L/min)@50Hz	0.6(10)	0.5(8)	0.9(15)	1.0(16.7)	1.2(20)	2.0(33)
cfm(L/min)@60Hz	0.4(10)	0.3(9.1)	0.6(16.6)	0.6(18)	0.7(20)	1.3(36)
Ultimate pressure, mbar(torr)	60(45)	5(3.8)	60(45)	8(6)	2(1.5)	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)
Sound level, dB(A)	42	44	44	45	44	45
Motor Power, watts(HP)	20(0.03)	68(0.09)	68(0.09)	60(0.08)	68(0.09)	90(0.12)
Type of motor protection, IP	20	42	42	54	42	54
Weight, kg(lbs.)	2.3(5.1)	6.3(13.8)	6.3(13.8)	6.5(14.3)	7.5(16.5)	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)	23.5(9.3)	20(7.9)
W cm(in.)	16.5(6.5)	14(5.5)	14(5.5)	23.5(9.3)	14(5.5)	26(10.2)
H cm(in.)	14.5(5.7)	27.7(10.9)	27.7(10.9)	14.5(5.7)	32.7(12.9)	15(5.9)
Ship Weight, kg(lbs.)	3(6.6)	8(17.6)	8(17.6)	9(19.8)	10(22.1)	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)	30x30x40 (11.8x11.8x15.7)	41x26x25 (16.1x10.2x9.8)

Ordering Information

230V, 50/60Hz, 1 Ph ¹	----	----	----	412522	----	412543
115V, 50/60Hz, 1 Ph ²	----	----	----	412522-01	----	412543-01
115/230V, 50/60Hz, 1 Ph ³	----	412422	412421	----	----	----
90-260V, 50/60Hz ⁴	412121	o.r. ⁸	o.r. ⁸	----	412443-02	----
100V, 50/60Hz, 1 Ph ⁵	----	412422-01	412421-01	412522-04	----	412543-04
230/400V, 50/60Hz, 3 Ph ⁶	----	----	----	----	----	----

Note:

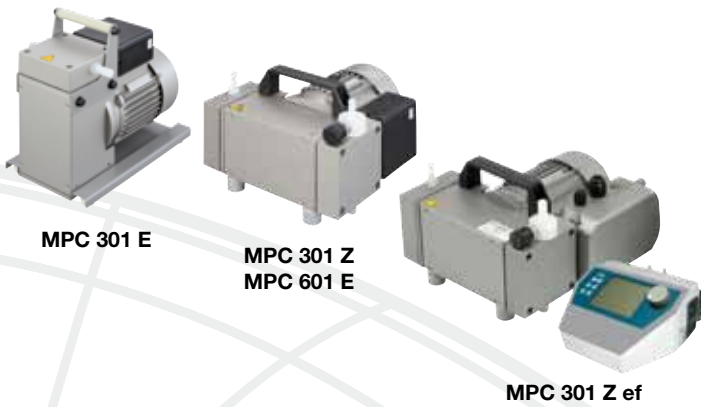
Every pump is supplied with ON/OFF switch and internal protective thermal switch for the motor, carry handle and vibration isolating feet. Comes pre-assembled.

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)

Chemical Duty Diaphragm Pumps



MPC 301 E

MPC 301 Z
MPC 601 E

MPC 301 Z ef

MPC 301 E MPC 301 Z MPC 301 Z ef MPC 601 E

MPC 301 E	MPC 301 Z	MPC 301 Z ef	MPC 601 E
		Ecoflex	
1 / 1	2 / 2	2 / 2	2 / 1
2.3(38)	2.3(38)	2.6(43)	3.8(63)
1.5(41)	1.5(41)	1.6(43)	2.5(70)
75(56.3)	8(6)	8(6)	75(56.3)
27.7	29.7	29.7	27.7
----	----	----	----
DN 8	DN 8	DN 8	DN 8
8(0.32)	8(0.32)	8(0.32)	8(0.32)
-(-)	-(-)	-(-)	-(1/4)
45	45	44	45
180(0.25)	180(0.25)	200(0.27)	180(0.25)
54	54	54	54
8.9(19.6)	11.2(24.7)	15.5(34.2)	11.2(24.7)
26(10.2)	23(9.1)	26(10.2)	23(9.1)
16.2(6.4)	26.5(10.4)	31(12.2)	26.5(10.4)
25.2(9.9)	16.9(6.7)	19(7.5)	16.9(6.7)
12(26.5)	14(30.9)	18(39.7)	14(30.9)
35x25x30 (13.8x9.8x11.8)	48x32x30 (18.9x12.6x11.8)	48x32x30 (18.9x12.6x11.8)	48x32x30 (18.9x12.6x11.8)

412711	412722	412922	412721
412711-01	412722-01	412922-01	412721-01
----	----	----	----
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412711-05	412722-04	----	412721-12
o.r. ⁸	412722-02 ⁷	----	412721-02 ⁷

OEM Modification / Customization

Welch-Illvac 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
- Build-in pumps with 24V DC motor (see inside back cover)

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

Accessories

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

Hose Adapter Kits

All in one kits, e.g. for connection to a vacuum oven with DN 16 KF or DN 25 KF flange. Each kit comes ready to use.

Type	Size	CAT. No.
Kit 1	DN 16 KF - DN 8	404002
Kit 2	DN 25 KF - DN 8	404004



Hose adapter kit includes hose connector, centering ring, hinge clamp ring and 2.5m vacuum hose, rubber red.

Vacuum Regulator with Dial Gauge

The regulator valve for intake allows the adjustment of the ultimate pressure. The dial vacuum gauge indicates the vacuum level. The air regulator valve will be mounted directly on the pump.

For Pump Model	CAT. No.
MPC 055 Z, MPC 105 E, MPC 105 T	700459
MPC 101 Z, MPC 201 T, MPC 301 E, MPC 301 Z, MPC 601 E	700458



(Pump MPC 105 T shown with dial gauge 700459)



(Pump MPC 301 Z shown with dial gauge 700458)

Digital Vacuum Control Box VCB 521

Programmable vacuum controller for use with various vacuum pump types in the rough vacuum range. Easy to maintain vacuum level. 90-260V, 50/60Hz ³.

Type	Range	CAT. No.
VCB 521 cv	1100 - 1mbar	600053



For more detailed information and other models, please see p. 29.

Complete Pump Systems

Complete vacuum systems (LVS) are integrated vacuum systems which are designed for solvent distillation/evaporation applications. LVS systems are available in different configurations with optional control packages, liquid containment and solvent recovery.

Type	CAT. No.
LVS 110 Z (230V, 50/60Hz)	115024 ¹
LVS 310 Z (230V, 50/60Hz)	115044 ¹
LVS 310 Z ef (230V, 50/60Hz)	115244 ¹



For more detailed information and other models, please see p. 12 - 13.

Hose Connectors

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





WolfLabs

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.