

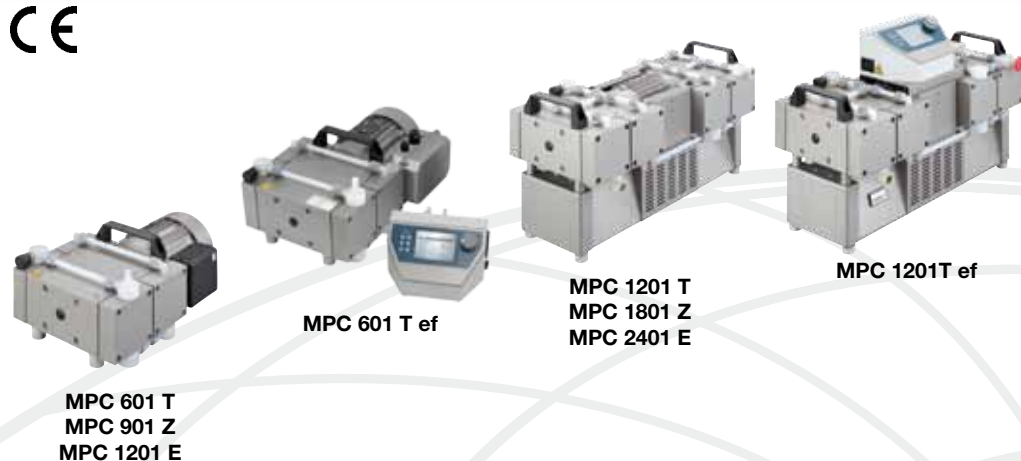
## Applications

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

- Rotary Evaporator
- Vacuum Oven
- Vacuum Concentrator
- Vacuum Filtration
- Distillation / Evaporation
- Drying
- Degassing

### ATEX

- Areas with potentially explosive atmosphere



## Specifications

Ilmvac Model	MPC 601 T	MPC 601 T ef	MPC 901 Z	MPC 1201 E	MPC 1201 T	MPC 1201 T ef
Number of heads / stages	4 / 3	4 / 3	4 / 2	4 / 1	8 / 3	8 / 3
Free Air Displacement						
m <sup>3</sup> /h(L/min)@50Hz	4.5(75)	4.9(81)	6.8(113)	8.3(138)	8.3(135)	8.3(138)
cfm(L/min)@60Hz	2.9(81)	2.9(81)	4.4(125)	5.3(151)	5.3(151)	4.8(138)
Ultimate pressure, mbar(torr)	2(1.5)	2(1.5)	8(6)	75(56.3)	2(1.5)	2(1.5)
Maximum Vacuum, in. Hg	29.9	29.9	29.7	27.7	29.9	29.9
Max. overpressure, bar	---	---	---	---	---	---
IN / EX hose connector	DN 8	DN 8	DN 8	DN 8	DN 16 KF	DN 16 KF
Tubing Needed, I.D. mm(in.)	8(0.32)	8(0.32)	8(0.32)	8(0.32)	hose connector available	hose connector available
Intake(Exhaust) Thread NPT	- (1/4)	- (1/4)	- (-)	- (1/4)	1/4(1/4)	1/4(1/4)
Sound level, dB(A)	45	44	45	45	48	47
Motor Power, watts(HP)	370(0.5)	390(0.53)	370(0.5)	370(0.5)	370/440(0.5/0.6)	370(0.5)
Type of motor protection, IP	54	54	54	54	54	54
Weight, kg(lbs.)	18.3(40.3)	22.6(49.8)	18.3(40.3)	18.3(40.3)	32.8( 72.3)	34(75)
Overall Dimensions						
L cm(in.)	23(9.1)	26(10.2)	23(9.1)	23(9.1)	54(21.3)	54(21.3)
W cm(in.)	38(15)	42(16.5)	38(15)	38(15)	30(11.8)	30(11.8)
H cm(in.)	16.9(6.7)	19(7.5)	16.9(6.7)	16.9(6.7)	24(9.4)	32(12.6)
Ship Weight, kg(lbs.)	22(48.5)	29(63.9)	22(48.5)	22(48.5)	40.1(88.2)	41.5(91.3)
Shipping Carton Dimensions						
LxWxH cm(in.)	48x32x30 (18.9x12.6x11.8)	60x40x56 (23.6x15.8x22.1)	48x32x30 (18.9x12.6x11.8)	48x32x30 (18.9x12.6x11.8)	60x40x41 (23.6x15.8x16.1)	60x40x41 (23.6x15.8x16.1)

## Ordering Information

230V, 50/60Hz, 1 Ph <sup>1</sup>	412743	412943	412742	412741	412783	412983
115V, 50/60Hz, 1 Ph <sup>2</sup>	412743-01	412943-01	412742-01	412741-01	412783-01	412983-01
115/230V, 50/60Hz, 1 Ph <sup>3</sup>	---	---	---	---	---	---
90-260V, 50/60Hz <sup>4</sup>	---	---	---	---	---	---
100V, 50/60Hz, 1 Ph <sup>5</sup>	412743-04	---	412742-04	412741-04	o.r. <sup>8</sup>	---
230/400V, 50/60Hz, 3 Ph <sup>6</sup>	412743-02	---	o.r. <sup>8</sup>	412741-02	412783-02	---

### 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)



MPC 301 Zp Ex



MPC 601 Tp Ex

MPC 1801 Z	MPC 2401 E	MPC 301 Zp Ex	MPC 601 Tp Ex
		ATEX	ATEX
8 / 2	8 / 1	2 / 2	4 / 3
12(201)	15.5(258)	2.3(38)	4.5(75)
7.8(222)	10(283)	1.3(38)	2.7(75)
8(6)	75(56.3)	8(6)	2(1.5)
29.7	27.7	29.7	29.9
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DN 16 KF hose connector available	DN 16 KF hose connector available	DN 8 8(0.32)	DN 16 KF hose connector available
1/4(1/4)	1/4(1/4)	---	---
48	48	45	45
370/440(0.5/0.6)	370/440(0.5/0.6)	180(0.25)	370(0.5)
54	54	55	55
32.8(72.3)	32.8(72.3)	22.9(50.5)	29.7(65.5)
54(21.3)	54(21.3)	24(9.4)	24(9.4)
30(11.8)	30(11.8)	30(11.8)	42.5(16.7)
24(9.4)	24(9.4)	26(10.2)	27.2(10.7)
40.1(88.2)	40.1(88.2)	26(57.3)	33(72.8)

60x40x41 (23.6x15.8x16.1)	60x40x41 (23.6x15.8x16.1)	48x32x30 (18.9x12.6x11.8)	61x41x58 (24x16.2x22.8)
412782	412781	---	---
412782-01	412781-01	---	---
---	---	---	---
---	---	---	---
o.r. <sup>8</sup>	o.r. <sup>8</sup>	---	---
412782-02	412781-02	4000481-04	4000511-04

### 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



### 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.
Kits 1	DN 16 KF - DN 8	404002
Kits 2	DN 25 KF - DN 8	404004



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

### Complete Pump Systems

Complete vacuum systems (LVS) are integrated vacuum systems which are designed for solvent distillation/evaporation applications.

Type	CAT. No.
LVS 610 T (230V, 50/60Hz)	115054 <sup>1</sup>



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

### Handheld General Range Vacuum Gauge - PIZA 101

Piezo resistive robust rough vacuum gauge with digital display. Alternative for mechanical vacuum gauges.

#### Features

- With Piezo resistive ceramic sensor
- Economical rough vacuum gauge for multiple uses in laboratories
- Portable unit connects quickly to any vacuum source
- 90-260V, 50/60Hz<sup>4</sup>



Type	Range mbar(torr)	CAT. No.
PIZA 101	1050 to 1(785 to 1)	600071

For more detailed information and other models, please see p. 28.

### Explosion Proof Digital Vacuum Gauge - PIZA 102 ATEX



The compact gauge PIZA 102 ATEX approval for use in areas with potentially explosive atmospheres (ATEX category 2 - II 2G Ex ib IIB T4).

#### Features

- External sensor
- Operates on certified Ilmvac 9V battery
- ATEX Compact Vacuum gauge for fast, accurate and easy vacuum measurement



Type	Range mbar(torr)	CAT. No.
PIZA 102 ATEX	1050 to 1(785 to 1)	600077

### Hose Connectors

Type	CAT. No.
DN 8 male 1/4 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 PP	710116
DN 25 KF - 1/4 PP	710117





**Wolflabs**

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**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.

