

Diaphragm Vacuum Pumps | MPC Chemical Duty



Model
MPC 090 E



Models
MPC 095 Z / MPC 110 E
MPC 105 T



Model
MPC 101 Z

CE All product listings on this page CE listed.

Specifications

Model	MPC 090 E	MPC 095 Z	MPC 110 E	MPC 101 Z	MPC 105 T
Number of heads / stages	2 / 1	2 / 2	2 / 1	2 / 2	4 / 3
Free Air Displacement m ³ /h(L/min)@50Hz	1(15)	0.5(8)	0.9(15)	1.0(16.7)	1.2(20)
cfm(L/min)@60Hz	0.5(15)	0.3(9.1)	0.6(16.6)	0.6(18)	0.7(20)
Ultimate pressure, mbar(torr)	100(75)	5(3.8)	60(45)	8(6)	2(1.5)
Maximum Vacuum, in. Hg	27	29.8	28.2	29.7	29.9
Max. overpressure, bar	----	----	----	----	----
IN / EX hose connector	DN 6 / silencer	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)
Intake(Exhaust) Thread NPT	-(-)	-(1/8)	1/8(1/8)	1/4(1/4)	-(-)
Sound level, dB(A)	<45	44	44	45	44
Motor Power, watts(HP)	20(0.03)	68(0.09)	68(0.09)	60(0.08)	68(0.09)
Type of motor protection, IP	20	42	42	54	42
Weight, lbs.(kg)	5.1(2.3)	13.8(6.3)	13.8(6.3)	14.3(6.5)	16.5(7.5)
Overall Dimensions LxWxH in.(cm)	4.5x6.5x 5.7 (12x 17x 15)	9.3x5.5x 10.9 (24x14x 28)	9.3x5.5x 10.9 (24x14x 28)	7.7x9.3x 5.7 (20x 24x 15)	9.3x5.5x12.9 (24x14x33)
Ship Weight, lbs.(kg)	6.6(3)	17.6(8)	17.6(8)	19.8(9)	22.1(10)
Shipping Carton Dimensions LxWxHin. (cm)	15.7x11.8x6.7 (40x30x17)	11.8x11.8x15.7 (30x30x40)	11.8x11.8x15.7 (30x30x40)	16.1x10.2x9.8 (41x26x25)	11.8x11.8x15.7 (30x30x40)

Ordering Information

230V, 50/60Hz, 1 Ph ¹	----	----	----	412522	----
115V, 50/60Hz, 1 Ph ²	----	----	----	412522-01	----
115/230V, 50/60Hz , 1 Ph ³	----	----	----	----	----
90-260V, 50/60Hz ⁴	412021	412422-02	412421-02	----	412443-02
230/400V, 50Hz , 3 Ph ⁶	----	----	----	----	----

Applications

	page
1. Rotary Evaporation	7
2. Vacuum Filtration	18 - 19
3. Vacuum Oven	22
4. Desiccator	20 - 21
5. Aspiration	12
5. Gel Dryer	14
6. Concentrator	15
7. Distillation	6 - 9

MPC Diaphragm Vacuum Pumps

- Chemical Resistant
- Oil Free

MPC models use PTFE and other flourinated plastics for the wetted parts to allow agressive acids and vapors to be pumped. All two-stage and three-stage MPC pumps come standard wth gas a ballast valve.

Model MPC 302 Z uses a patented pump head design to significantly improve performance. Optimized construction of the pump heads allows the MPC 302 Z to achieve a 17% higher pumping speed in the application critical vacuum range compared to similar products. Besides the pumping speed the ultimate vacuum pressure is improved as well to 5 mbar(3.8 torr).

Gas Ballast



Diaphragm Vacuum Pumps | MPC Chemical Duty



Model
MPC 201 T



Model
MPC 301 E



Models
MPC 301 Z / MPC 302 Z
MPC 601 E



Models
MPC 301 Z ef

MPC 201 T	MPC 301 E	MPC 301 Z	MPC 302 Z	MPC 301 Z ef Ecoflex	MPC 601 E
4 / 3	1 / 1	2 / 2	2 / 2	2 / 2	2 / 1
2.0(33)	2.3(38)	2.3(38)	2.6(43)	2.6(43)	3.8(63)
1.3(36)	1.5(41)	1.5(41)	1.8(52)	1.6(43)	2.5(70)
2(1.5)	75(56.3)	8(6)	<5(3.8)	8(6)	75(56.3)
29.9	27.7	29.7	29.8	29.7	27.7
----	----	----	----	----	----
DN 8	DN 8	DN 8	DN 8	DN 8	DN 8
8(0.32)	8(0.32)	8(0.32)	8(0.32)	8(0.32)	8(0.32)
1/4(1/4)	-(-)	-(-)	-(-)	-(-)	-(1/4)
45	45	45	45	44	45
90(0.12)	180(0.25)	180(0.25)	180(0.25)	200(0.27)	180(0.25)
54	54	54	54	54	54
22.7(10.3)	19.6(8.9)	24.7(11.2)	24.7(11.2)	34.2(15.5)	24.7(11.2)
7.9x 10.2x5.9 (20x26x15)	10.2x6.4x9.9 (26x16x25)	9.1x10.4x6.7 (23x27x17)	9.1x10.4x6.7 (23x27x17)	10.2x12.2x7.5 (26x31x19)	9.1x10.4x6.7 (23x27x17)
28.7(13)	26.5(12)	30.9(14)	30.9(14)	39.7(18)	30.9(14)
16x10x10 (41x26x25)	14x10x12 (35x25x30)	19x13x12 (48x32x30)	19x13x12 (48x32x30)	19x13x12 (48x32x30)	19x13x12 (48x32x30)
412543	412711	412722	414722	412922	412721
412543-01	412711-01	412722-01	414722-01	412922-01	412721-01
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----	o.r. ⁸	412722-02 ⁷	414722-02 ⁷	----	412721-02 ⁷

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

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

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. See page 75.

For Pump Model	CAT. No.	
MPC 095 Z, MPC 110 E, MPC 105 T	700459	
MPC 101 Z, MPC 201 T, MPC 301 E, MPC 301 Z, MPC 601 E	700458	

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