

Data Sheet (EN)

Translation of the german original

Designation, Model:	Order number:
Diaphragm pumps, chemical resistant	
Models: MPC 303 Z 230v	415722
MPC 603 E 230v	415721

Figure:	Description:
	The diaphragm pump consists of a pump body and a drive motor. The pump casing contains the drive unit and two pump heads. Each pump head contains a moulded diaphragm and two work valves. Both pump heads are arranged opposite each other. The pump heads are driven via an eccentric shaft with a connecting rod.

Application:	Materials of the medium-affecting pump parts:
The Diaphragm pumps MPC 303 Z and MPC 603 E are intended for: • Pumping and compressing neutral and aggressive gases and vapours according to the resistance of the indicated materials. • Generating a vacuum down to an ultimate pressure < 5 mbar. • Use in physical and chemical laboratories in trade and industry. • Use for vacuum filtration, vacuum distillation and vacuum drying, and other vacuum technology applications.	• PTFE - Form moulded diaphragms • PTFE - Pump heads • PTFE - Vacuum hose • PEEK - Valves • EPDM - Seals • PVDF - Screw fittings

Dimensional drawing:

Fig. 3-1. Front view of device

ⓘ The main dimensions are identical for all models listed here.

Fig. 3-2. Left view of device

Pos.	Parameters	Data
a	Width	≤ 250 mm
b	Depth	≤ 270 mm
c	Height	≤ 190 mm

Intake pressure-/Pumping speed - Diagram:

Pumping speed

Suction pressure (p) [mbar]	MPC 303 Z 50 Hz [m³/h]	MPC 303 Z 60 Hz [m³/h]	MPC 603 E 50 Hz [m³/h]	MPC 603 E 60 Hz [m³/h]
1	0.0	0.0	0.0	0.0
10	1.0	1.2	0.0	0.0
100	1.6	1.8	0.5	1.0
1000	1.8	2.1	3.8	4.2

Fig. 3-3. Pumping speed characteristics S(p)

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Technical data:			
Parameter	MPC 603 E	MPC 303 Z	Unit
Pump stages	1	2	-
Pumping speed DIN 28432	4.0 / 4.4	2.0 / 2.2	m³/h
	66 / 73	33 / 36	l / min
Ultimate pressure	< 55	< 5	mbar
Ultimate pressure with gas ballast	80	8	
Max. Inlet-/Outlet pressure	≤1100		mbar
Intake port	Small flange DN 16 KF <i>optionally enclosed</i> Hose nozzle DN 8 for hose inside diameter 8 mm		-
Exhaust port	Hose nozzle DN 8 for hose inside diameter 8 mm		
Ambient temperature	+ 10 to + 40		°C
Max. Operating gas temperature	≤ + 40		
Bearing	maintenance-free		-
Reference surface sound pressure level DIN EN ISO 2151	< 44		dB (A)
Voltage	230		V
Frequency	50/60		Hz
Rotation speed	1500		min ⁻¹
Motor power	180		W
Operating mode	S 1		-
Type of protection DIN EN 60529	IP 54/40		
Class of insulation DIN EN 600034-1	F (160°C)		
Weight net/(gross)	11.2/(13.0)		kg
Dimensions W/D/H	250 / 270 / 190		mm

Accessories:			
	Vacuum Control Box Model: VCpro 601 for measuring and regulation of vacuum <i>Order no.</i> 600100		Vacuum Regulator with dial gauge Model: DBR-A with hose nozzle DN 8, Connection: G1/4" - M12 x 1 to pressure adjustment - suction side <i>Order no.</i> 700458
	Vacuum hose, Rubber 18 / 8 x 5 mm <i>Order no.</i> 828310-4		



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