

# 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:
	<p>The diaphragm pump consists of a pump body and a drive motor.</p> <p>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.</p> <p>The pump heads are driven via an eccentric shaft with a connecting rod.</p>

Application:	Materials of the medium-affecting pump parts:
<p>The Diaphragm pumps MPC 303 Z and MPC 603 E are intended for:</p> <ul style="list-style-type: none"> <li>Pumping and compressing neutral and aggressive gases and vapours according to the resistance of the indicated materials.</li> <li>Generating a vacuum down to an ultimate pressure &lt; 5 mbar.</li> <li>Use in physical and chemical laboratories in trade and industry.</li> <li>Use for vacuum filtration, vacuum distillation and vacuum drying, and other vacuum technology applications.</li> </ul>	<ul style="list-style-type: none"> <li>PTFE - Form moulded diaphragms</li> <li>PTFE - Pump heads</li> <li>PTFE - Vacuum hose</li> <li>PEEK - Valves</li> <li>EPDM - Seals</li> <li>PVDF - Screw fittings</li> </ul>

Dimensional drawing:	Intake pressure-/Pumping speed - Diagram:												
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Fig. 3-1. Front view of device</p> </div> <div style="text-align: center;"> <p>Fig. 3-2. Left view of device</p> </div> </div> <p>ⓘ The main dimensions are identical for all models listed here.</p> <table border="1"> <thead> <tr> <th>Pos.</th> <th>Parameters</th> <th>Data</th> </tr> </thead> <tbody> <tr> <td>a</td> <td>Width</td> <td>≤ 250 mm</td> </tr> <tr> <td>b</td> <td>Depth</td> <td>≤ 270 mm</td> </tr> <tr> <td>c</td> <td>Height</td> <td>≤ 190 mm</td> </tr> </tbody> </table>	Pos.	Parameters	Data	a	Width	≤ 250 mm	b	Depth	≤ 270 mm	c	Height	≤ 190 mm	<p>Fig. 3-3. Pumping speed characteristics S(p)</p>
Pos.	Parameters	Data											
a	Width	≤ 250 mm											
b	Depth	≤ 270 mm											
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<b>Technical data:</b>			
Parameter	MPC 603 E	MPC 303 Z	Unit
Pump stages	1	2	-
Pumping speed DIN 28432	4.0 / 4.4	2.0 / 2.2	m <sup>3</sup> /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 <sup>-1</sup>
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

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



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