## **Data Sheet (EN)**

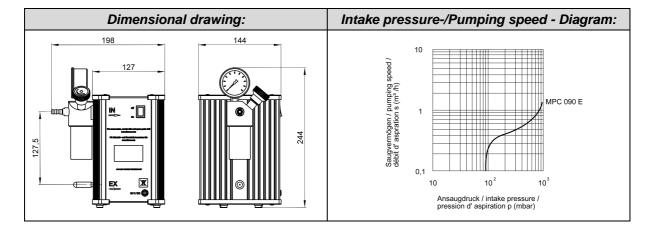
Translation of the german original



Designation, Model:	Order number:	
Diaphragm pump chemical resistant, MPC 090 E	412021	

Figure:	Description:
EX and C	The diaphragm pump MPC 090 E consists of a pump body, a drive motor and a casing. The pump body consists of an eccentric shaft, two connecting rod and two pump heads. Each pump head contains a diaphragm and two work valves. The pump heads are in each case to A and B-sides shaft end of the motor.  The pump heads are driven via the motor and the eccentric shaft with a connecting rod.  The pump is in a closed casing.  The suction connector is located directly on the dosing block, an is designed as a hose nozzle DN 6. Between suction connection and pump the gases become over a separator with manometer and metering valve led.  On the exhaust - hose nozzle DN 6 is mounted an exhaust damper. This can also be withdrawn as required.  The electrical connection to the pump becomes over the plug connector.

Application:	Materials ot the medium-affecting parts:	
The Diaphragm pump M090 E is intended to:	Seals	EPDM
Pumping and compressing neutral and aggressive gases and vapours according	Screw fittings / Connection elements	PVDF, PP
<ul> <li>to the resistance of the indicated materials</li> <li>Generating a vacuum down to an ultimate pressure &lt; 100 mbar</li> <li>Use in physical and chemical laboratories in trade and industry</li> <li>Use for vacuum filtration including media that are strongly acidic or basic, suited for one or two filtration vessels. (If your application uses more than two funnels we would recommend pumps with higher free air displacement.)</li> <li>Use for vacuum drying and other vacuum technology applications</li> </ul>	Valves	PEEK
	Diaphragms	Elastomer with PTFE layer
	Vacuum hoses	PTFE
	Connection heads / Pump heads	PTFE with carbon-fibre reinforcing



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Technical Data:			
Parameter	Data	Unit	
B	0.8	m³/h	
Pumping speed ISO 21360-1	13	I / min	
Ultimate pressure (Basic pressure) ISO 21360-1	100	mbar	
Max. inlet pressure	1	bar	
Max. outlet pressure	Ambient pressure	I / min	
Ambient temperature	+ 10 to + 40	°C	
Max. Media temperature	≤ + 40		
Noise level DIN EN ISO 2151	< 45	dB (A)	
Rated voltage	ed voltage 115 to 240		
Rated frequency	50 / 60	Hz	
Rated power	30	W	
Rated voltage motor	ited voltage motor 18		
Vacuum pump including housing	Protection class III (SELV)	-	
Power pack	Protection class II	-	
Motor - Class of insulation DIN VDE 0530	120 E	°C	
Operating mode DIN VDE 0530	S 2	-	
Operating time per day - permissible	6	h	
Type of protection DIN EN 60529	IP 40		
Weight	2.7 kg		
Dimensions W/D/H	144 / 198 / 244	mm	

Connections:		
Intake port Pump "IN"	ntake port Pump "IN"  Hose nozzle DN 6 for hose inside diameter 6 mm	
Pressure port Pump "EX"	Hose nozzle DN 6 for hose inside diameter 6 mm with exhaust damper (removable)	-
Power pack Input - Change connector	UL / CEE / US	-
Power pack Output	2,1 / 5 (Inside-/ Outside-Ø) DC hollow plug	mm

Accessories:			
4	Inline Filter Kit (DN 6 + DN 8) 2 Silicon hoses & Filter hydrophobic Order no. 404008		Silicon hose Inside Diameter = 6 mm x Wall thickness = 3 mm Order no. 828374



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