

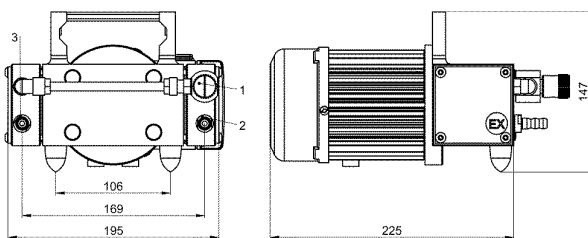
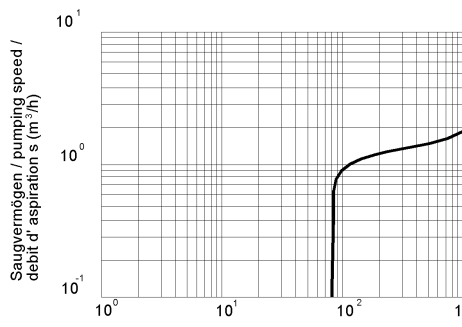
# Data Sheet (EN)

Translation of the german original

| Designation, Model:                             | Order number: |
|-------------------------------------------------|---------------|
| Diaphragm pump chemical resistant,<br>MPC 201 E | 412521        |

| Figure:                                                                           | Description:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>The one-stage diaphragm pump with gas ballast valve 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 diaphragm and the work valves. Both pump heads are arranged opposite each other. The pump heads are driven via an eccentric shaft with a connecting rod.</p> <p>Opening the gas ballast valve in the suction line allows air to flow into the pump chamber. This prevents condensation and flushes the pump clear.</p> <p>Operation leads to increasing the ultimate pressure and the operating temperature.</p> |

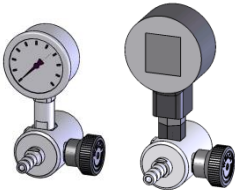
| Application:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Materials of the medium-affecting parts: |                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------|
| <p>The Diaphragm pump MPC 201 E is intended to:</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; 75 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> | Seals                                    | EPDM                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Screw fittings / Connection elements     | PVDF, PP                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Valves                                   | PEEK                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Diaphragms                               | Elastomer with PTFE layer          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Vacuum hoses                             | PTFE                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Connection heads / Pump heads            | PTFE with carbon-fibre reinforcing |

| Dimensional drawing:                                                                                                                              | Intake pressure-/Pumping speed - Diagram:                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  <p>(1) Gas ballast valve (2) Intake port (3) Exhaust port</p> |  |

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| Technical data:                    |                                                                                                                      |         |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------|
| Parameter                          | Data                                                                                                                 | Unit    |
| Pumping speed DIN 28432            | 1.8 / 2.0                                                                                                            | m³/h    |
|                                    | 30 / 33                                                                                                              | l / min |
| Ultimate pressure                  | < 75                                                                                                                 | mbar    |
| Ultimate pressure with gas ballast | 90                                                                                                                   |         |
| Max. Inlet-/Outlet pressure        | 1                                                                                                                    | bar     |
| Intake port / 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                                                                                                     | -       |
| Noise level DIN EN ISO 2151        | < 44                                                                                                                 | dB (A)  |
| Voltage                            | 230                                                                                                                  | V       |
| Frequency                          | 50/60                                                                                                                | Hz      |
| Rotation speed                     | 1500                                                                                                                 | min⁻¹   |
| Motor power                        | 60                                                                                                                   | W       |
| Operating mode                     | S 1                                                                                                                  | -       |
| Type of protection DIN EN 60529    | IP 54                                                                                                                |         |
| Class of insulation DIN EN 60034-1 | F (160°C)                                                                                                            |         |
| Type Examination Certificate no.   | WELCH_ATEX_03-01                                                                                                     | -       |
| Designation EX                     |  II3G IIC T3 X (internal Atm. only) |         |
| Weight                             | 6.5                                                                                                                  | kg      |
| Dimensions W/D/H                   | 195 / 225 / 147                                                                                                      | mm      |

| Accessories:                                                                        |                                                                                                                                   |                                                                                     |                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Vacuum Control Box</b><br>Model: <b>VCpro 601</b><br><br>for measuring and regulation of vacuum<br><br><b>Order no. 600100</b> |  | <b>Vacuum Regulator</b><br><b>with dial gauge, analog / digital</b><br>Model: <b>DBR-B</b><br>with hose nozzle DN8<br>to pressure adjustment -<br>suction side<br><br><b>Order no. 700458-10</b> (analog)<br><b>Order no. 700458-11</b> (digital) |
|  | <b>Vacuum hose, Rubber</b><br>18 / 8 x 5 mm<br><br><b>Order no. 828310-4</b>                                                      |  | <b>Exhaust silencer</b><br>Connection: 1/8"<br><br><b>Order no. 829901</b>                                                                                                                                                                        |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                  |                                                                                                                                                                                                           |
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