The Dimatix Meniscus Pressure Controller (MPC) is an efficient, compact, self-contained unit for maintaining and controlling meniscus/purge pressure for Dimatix printheads and jetting assemblies.

The MPC is a compact 4-channel standalone device used to control and maintain meniscus vacuum for all Dimatix jetting assemblies and printheads.

The unit has meniscus/purge ports for up to 4 printheads or reservoirs. Each channel can be individually purged with no loss of meniscus vacuum to other active channels and is independently controlled by its own discrete input.

The MPC has a compact footprint of 211 w x 171.5 d x 115.3 mm (8.3 x 6.75 x 4.5 in.) and is insensitive to mounting orientation making for easy integration into an existing system. The MPC’s manifold construction, tubing, valves, fittings and other components are resistant to the vapors created by UV curable, solvent and aqueous inks. The unit is CE certified.

The system provides both visual and electrical indication of low meniscus vacuum. An optional Fluid inLine Monitor (FiLM) is available as an economical and effective safeguard to reduce the possibility of damage to the unit in the event fluid overflows into a meniscus vacuum line.

Features:
- Small compact design
- Provides meniscus vacuum for up to 4 reservoirs
- Wide range of vacuum set points
- Adjustable purge pressure
- +12 Volts dc operation
- 60 Milliliter per minute per channel intake capacity
- Low vacuum alarm
- Optional Fluid-in-Line Monitor
- CE Certified
## Meniscus Pressure Controller

### Physical Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power input</td>
<td>12 Vdc ± 0.5V, 1Amp</td>
</tr>
<tr>
<td>Meniscus vacuum adjustment range</td>
<td>5 - 20 millibar [2 - 8 in. H_2O]</td>
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<tr>
<td>Meniscus vacuum regulation (no load)</td>
<td>± 0.6 millibar [± 0.25 in. H_2O]</td>
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<tr>
<td>Purge pressure adjustment range</td>
<td>70 - 700 millibar [1 - 10 PSIG]</td>
</tr>
<tr>
<td>Control</td>
<td>Discrete I/O</td>
</tr>
<tr>
<td>Intake capacity</td>
<td>60 milliliters per minute per channel</td>
</tr>
</tbody>
</table>

### Controller Inputs/Outputs

Dimensions:
- Width: 171.45 mm [6.75 in.]
- Length: 211 mm [8.30 in.]
- Height: 115.3 mm [4.50 in.]

Weight: 1.7 Kg [3.75 lbs.]