The **OPTIMATIC** is a compact device for the automatic control and protection of electric pumps. This patented system, includes special electronic sensors of flow and pressure integrated in the electronic circuit, which controls the correct working of the electric pump and keeps the pressure and the flow constant. Moreover, it has a safety system against pump dry working. The **OPTIMATIC** replaces the traditional expansion tank, pressostat, retention valve and level switches, with the advantage of smaller dimensions and the elimination of periodical maintenance. It works starting automatically the electrical pump when any point of the installation is opened and it closes the pump –after 10 seconds of temporization- at closing the using point.
**ADVANTAGES**

- No maintenance.
- Installation time saving.
- Protection against water hammer effect.
- Compact and reduced dimensions.
- Removal of protecting devices (level switches).
- Avoids the pump oversizing using integratelly their flow-pressure curve.
- Integrated protection system which stops the pump in case of lack of water.

**CONSTRUCTIVE FEATURES**

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>Non-toxic thermoplastic with fibre- glass</td>
</tr>
<tr>
<td>Membrane</td>
<td>Special natural rubber</td>
</tr>
<tr>
<td>Spring</td>
<td>Steel DIN17223 C/84</td>
</tr>
<tr>
<td>Joints</td>
<td>Special synthetic rubber</td>
</tr>
<tr>
<td>Sensor-valve</td>
<td>Technical high resistance thermoplastic</td>
</tr>
<tr>
<td>Magnets</td>
<td>Alnico inserted and hermetic with ultrasound welding</td>
</tr>
<tr>
<td>Electronic circuit</td>
<td>FR4 with protective casing and Terminal strip in plastic material V0 auto-extinguishing.</td>
</tr>
</tbody>
</table>

**PRESSURE LOSS**

![Pressure Loss Graph](image)

**OPTIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>M</th>
<th>R</th>
<th>E</th>
<th>C</th>
<th>U</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>FM</td>
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<td>FMC</td>
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<tr>
<td>FME</td>
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<tr>
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<td>RME</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

* Useful for all models

**SERIAL EQUIPMENT**

- Yellow Led POWER.
- Green Led ON.
- Red Led FAILURE.
- Tactile push button for manual start.
- Electronic circuit group with protection cover easily replaceable.
- Reserve against leaks in the installation.
- For other options like pressure gauge, connecting cables, adjusting starting pressure, etc, look at OPTIONS.

**TECHNICAL FEATURES**

- Starting pressure: Model F12: 1,2 bar
  Model F15: 1,5 bar
  Model R : from 1,5 to 2,5 bar
- Maximum pressure: 10 bar
- Connecting threads: G1 - ISO 228
- Operating Temperature: 0-60ºC
- I.P. protection degree: IP 65
- Nominal voltage: 1~220-240V
- Frequency: 50/60 Hz.
- Max. intensity: 16(8)A – 1,5kW(2HP)
- Maximum flow: 10m³/hour (see attached graphic)
- Nett weight: 1,3 Kg (model FM)

**DIMENSIONS mm**

![Dimensions Diagram](image)

**INSTALLATION MODELS**

The manufacturer can modify the device by technical or commercial reasons without any notice.

Example of codification model with adjusting starting pressure and pressure gauge (M) OPTIMATIC RM

F12: Starting pressure 1,2 bar.
F15: Starting pressure 1,5 bar.
M: Pressure gauge 10 bar.
R: Adjusting starting pressure from 1,5 to 2,5 bar.
E: Outlet socket for pump connection.
C: Cables H07RN-F 1,5m length for line connection and 0,5m length with Schuko plug to pump connection.
U: Fitting 3 pieces to assembly R1"M-R1"F. Suitable for all models.