Key Features and Benefits

- Plug-and-pump solution speeds installation, commissioning and startup due to integrated components
- Provides seamless integration with Grundfos MLE integrated motor, drive and control for an all-in-one solution
- Large, graphical display control interface (HMI) on MLE motor allows control of all settings without need of separate interface device (GO Remote) and provides user friendly operation
- No baseplate grouting required
- Axially split, rigid coupling enhances ease of service with reduced maintenance costs
- No alignment required between the pump and motor eliminates laser alignment costs and reduces installation time
- Optimized, space-saving design has 35% smaller footprint than frame mount design
- Spacer coupling allows rapid mechanical seal access without motor removal for service friendly design
- Double volute design increases lowers life cycle costs and prolongs seal and bearing life
- Francis Vane impeller design increases efficiency and reduces NPSH required
- Reduced installation and wiring cost
- Integrally cast diffuser vane reduces turbulence and need for suction guides
- Trimmed and balanced impellers allow customization, reduce noise and vibration for quiet operation and prolong seal and bearing life
- Grundfos GO lets you use your smart phone to access interface, regardless of pump location
- Single source responsibility ensures one manufacturer for pump, motor, drive and control

APPLICATIONS

- Chilled water
- Condensed water
- Hot water
- District heating/cooling
- HVAC
- Process water
- Light industrial
- Water utility
**LCSE Technical Data**

<table>
<thead>
<tr>
<th>LCSE INFORMATION</th>
<th>Description</th>
<th>LCSE</th>
<th>LCSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow, Q:</td>
<td>max. 1900 gpm</td>
<td>New MLE Motor</td>
<td>MLE Motor</td>
</tr>
<tr>
<td>Head, H:</td>
<td>max. 380 ft</td>
<td>2 Pole</td>
<td>20 - 30 HP</td>
</tr>
<tr>
<td>Liquid Temperature:</td>
<td>10°F to 275°F</td>
<td>3 - 15 HP</td>
<td>4 Pole</td>
</tr>
<tr>
<td>Working Pressure:</td>
<td>max. 175 psi</td>
<td>4 Pole</td>
<td>15 - 25 HP</td>
</tr>
<tr>
<td>HP Range / Speed:</td>
<td>3 to 30 HP / 3600 RPM</td>
<td>Constant Flow</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>3 to 25 HP / 1800 RPM</td>
<td>Constant Pressure</td>
<td>*</td>
</tr>
<tr>
<td>Discharge Sizes:</td>
<td>1 to 6 in.</td>
<td>Constant Differential Pressure</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Constant Temperature</td>
<td>*</td>
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</tbody>
</table>

**The Perfect Motor is Half the Solution**

For an intelligent pumping solution, the motor is half the story. Our E-motors (MLE) are frequency converter controlled motors that have been designed specifically for use with Grundfos pumps, and they feature unique functionalities that allow for complete system optimization. The new MLE permanent magnet (ECM) motor offers an additional 7-10% decrease in energy cost over NEMA Premium motors with industry standard variable frequency drives.

**Ultimate Flexibility and Efficiency**

The MLE motors can be operated to meet any individual needs for a specific solution. This makes them an excellent choice for a number of applications within heating, cooling, ventilation and industrial processes – each of which are characterized by varying demands, different control needs, and varying number of operating hours.

**New Functionalities for Advanced Solutions**

- **Real Time Clock** allows for calendar function for e.g. automatic system stop during weekends.
- **Manual Speed Operation Mode** allows even while under external signal control, you can switch to manual speed operation mode to test the pump’s operation.
- **2 Analogue Inputs**:
  - Get Delta P and Delta T control with two sensors.
  - Timer Functions on Digital Inputs:
    - For each digital input you can activate and set a delay time and a duration time.
- **1 Analogue Output** allows you to get relevant parameter information in real time.
- **PT100/1000 Input** allows you to get temperature and differential temperature control at a low cost.
- **Predefined Set-Point** allows you to get dynamic response to different operation profiles.

*Advanced functional module FM300 is required for these functionalities*