The Hydro Multi-E pressure booster system is an innovative boosting solution for commercial building pressure boosting, HVAC and irrigation applications. For energy savings and comfort, the Hydro Multi-E system uses parallel mounted Grundfos CRE variable-speed pumps that have a reputation for providing the ultimate in efficiency and reliability. With a state-of-the-art integrated ECM MLE motor, the Hydro Multi-E arrives ready to install.

Key Features and Benefits

- 2 and 3 pump systems with CRE3-CRE20 pumps
- Performance range: max gpm 420, max pressure 232 psi
- All motors capable of master motor control
- Two sensors standard – 100% redundancy
- Advanced control interface installed in one pump – System controller
- New functionality:
  - Control from discharge-suction sensor (DP across pumps)
  - Limit Exceed 1 & 2
  - Setpoint influence
  - Soft pressure build-up
  - SCADA via CIM expansion card
- Small footprint for space-saving complete solution
- SCADA communication capable via CIM expansion card with all industry standard BUS protocols
- System NSF61/372 certified
- UL listed package pumping system

**MLE MOTOR**

- The Grundfos ECM MLE motors exceed IE5 motor efficiency standards, set by the International Electrotechnical Commission, currently the highest efficiency level worldwide for electrical motors. NEMA premium efficient motors are equal to IE3 level, so these motors represent two levels above NEMA premium. The result of this increased efficiency is reduced energy consumption/operating costs by 7-9%, based on a typical domestic water load profile
- Grundfos integrated variable frequency drive and motor combined eliminates complexity by matching variable speed motor, drive and control logic components

**CRE PUMP**

- World’s number one multi-stage centrifugal pumps, the CR and CRE, known for their reliability, efficiency and adaptability

**MANIFOLDS**

- Hygienically designed 316 stainless steel manifolds guarantee protection against corrosion
- Extrusion process results in hydraulic optimization, reduced pressure loss and noise, as well as the best conditions to meet hygienic standards

**APPLICATIONS**

- Commercial building pressure boosting
- Apartment buildings
- Irrigation

<table>
<thead>
<tr>
<th>HP</th>
<th>NEMA Premium (IE3) Eff.</th>
<th>Typical VFD Efficiency</th>
<th>Combined Motor+VFD Efficiency</th>
<th>MLE IES Efficiency</th>
<th>Efficiency Increase</th>
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<td>2</td>
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<td>89.2</td>
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# Hydro Multi-E Technical Data

## Hydro Multi-E Information

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<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Max Flow, Q:</td>
<td>460 gpm</td>
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<tr>
<td>Max Head, H:</td>
<td>475 ft</td>
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<tr>
<td>Liquid temp.:</td>
<td>+32°F to +176°F</td>
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<tr>
<td>Working press.:</td>
<td>max. 232 psi</td>
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</tbody>
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**Hydro Multi-E Chart**

- **Hydro Multi-E CRE**
- **ISO 9906:2012 Annex A**

The chart illustrates the performance of Hydro Multi-E pumps, showing the relationship between flow (Q) and head (H) for different models (CRE 3, CRE 5, CRE 10, CRE 15, CRE 20).

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