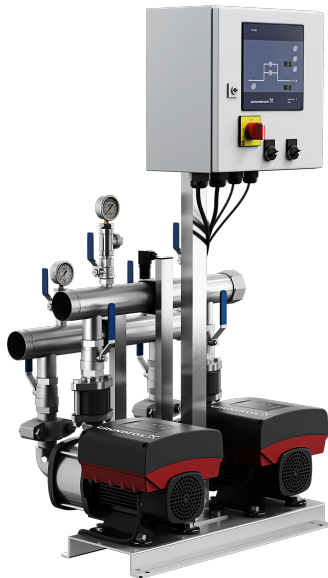


|                 |                                      |                  |                                |           |   |
|-----------------|--------------------------------------|------------------|--------------------------------|-----------|---|
| PROJECT:        | Hurley Engineering Web Design Assist | UNIT TAG:        | BP-1                           | QUANTITY: | 1 |
| REPRESENTATIVE: | Hurley Engineering Company           | TYPE OF SERVICE: | Domestic Water                 | DATE:     |   |
| ENGINEER:       | To Be Determined                     | SUBMITTED BY:    | Devin Carle-Hurley Engineering | DATE:     |   |
| CONTRACTOR:     | To Be Determined                     | APPROVED BY:     |                                | DATE:     |   |
|                 |                                      | ORDER NO.:       | 800-861-7122                   | DATE:     |   |



Product photo could vary from the actual product

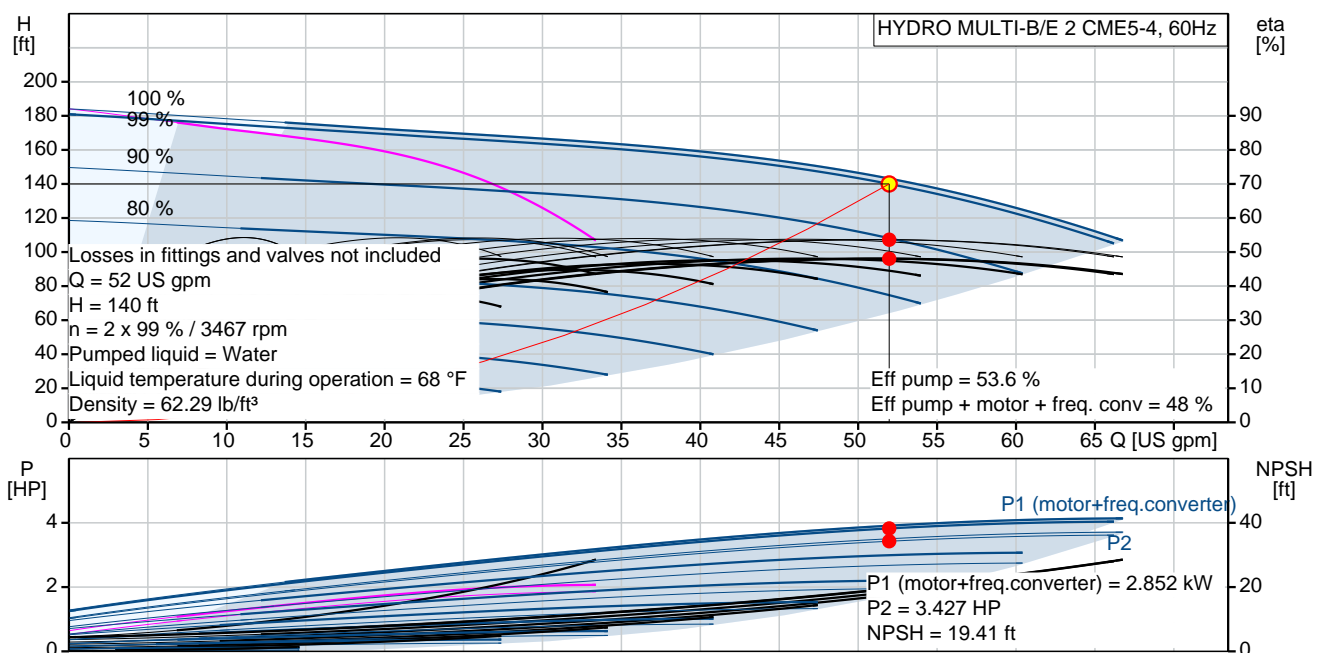
### HYDRO MULTI-B/E 2 CME5-4

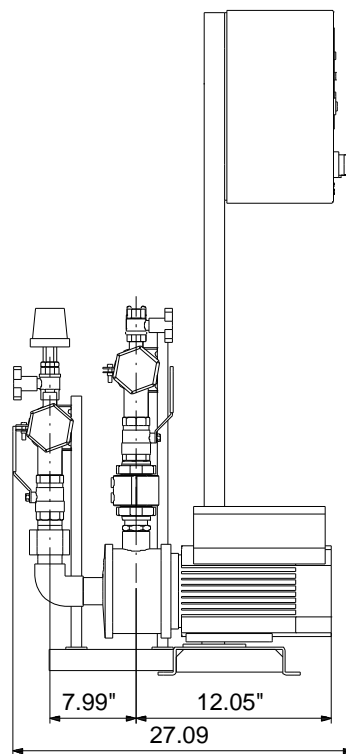
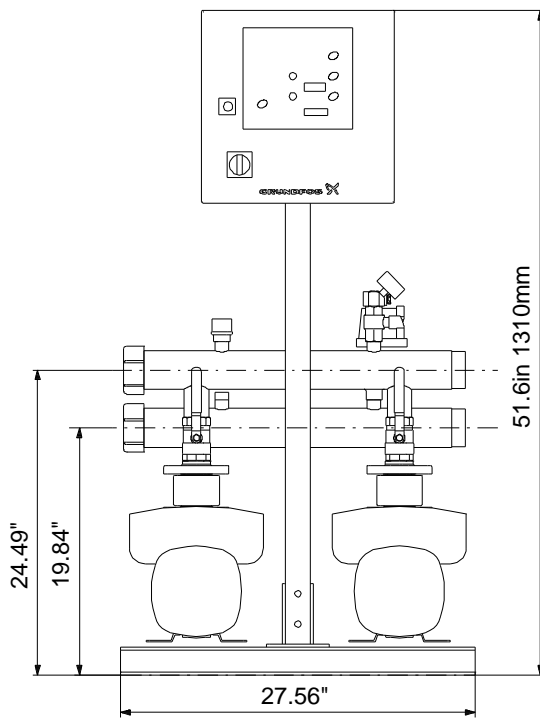
Booster systems with frequency-controlled pumps



**HURLEY ENGINEERING**  
MANUFACTURERS REPRESENTATIVES

| Conditions of Service   | Pump Data                              | Motor Data               |
|-------------------------|--|--------------------------|
| Flow: 52 US gpm         | Maximum operating pressure: 145 psi    | Rated voltage: 460-480 V |
| Head: 140 ft            | Liquid temperature range: 32 .. 140 °F | Main frequency: 60 Hz    |
| Efficiency: 48 %        | Pipe connection: 2NPT                  |                          |
| Liquid: Water           | Product number: 91149123               |                          |
| Temperature: 68 °F      |  |                          |
| NPSH required: 19.41 ft |  |                          |
| Viscosity: _____        |  |                          |
| Specific Gravity: 1.000 |  |                          |





**Materials:**

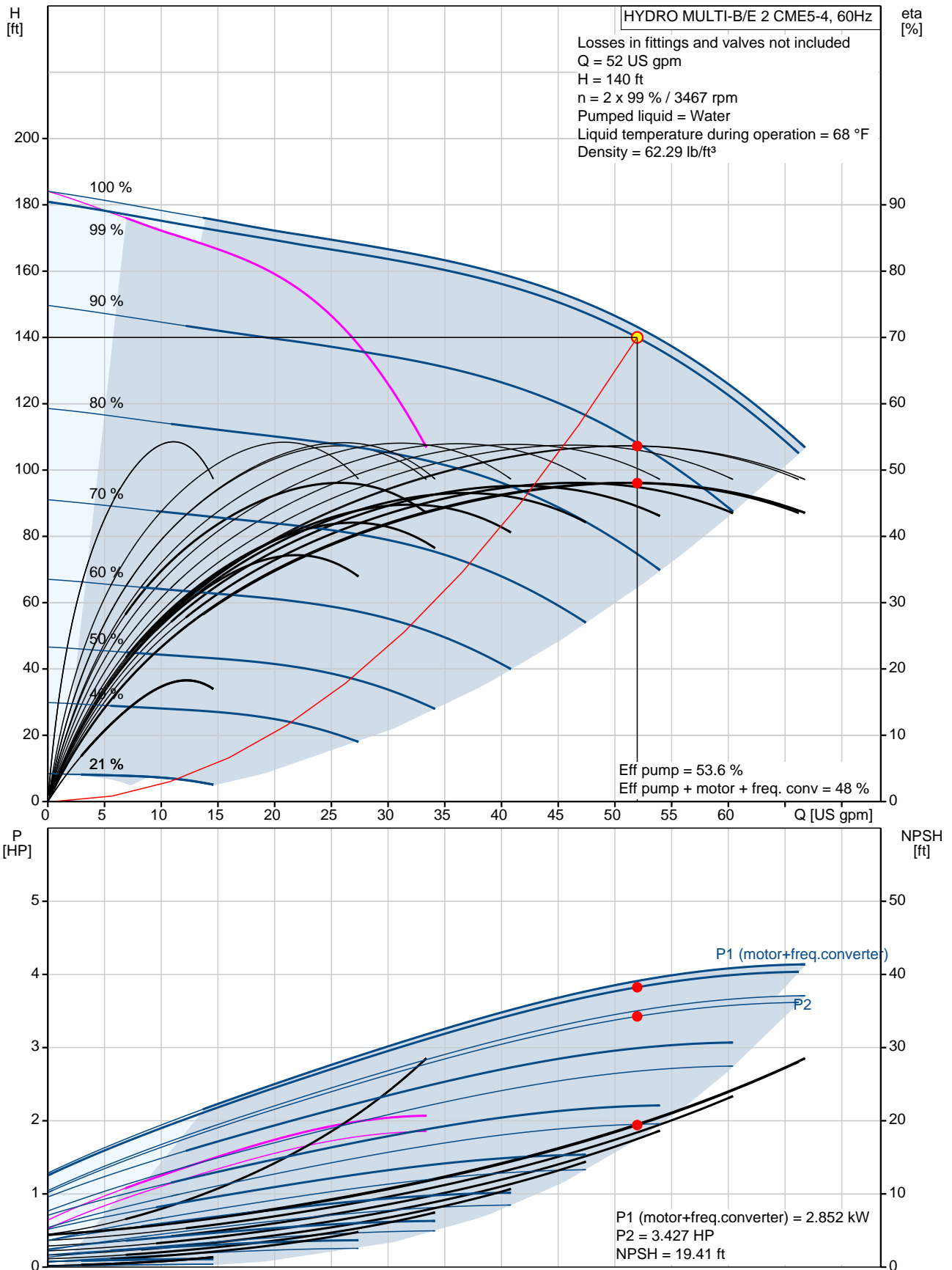
Pump: EN-GJL-200

Manifolds: EN/DIN 1.4571/ AISI 316 TI

| Count | Description   |
|-------|---|
| 1     | <p><b>HYDRO MULTI-B/E 2 CME5-4</b></p>  <p>Product photo could vary from the actual product</p> <p>Product No.: <a href="#">91149123</a></p> <p>Pressure booster system designed and manufactured by Grundfos.<br/>Delivered on a common base plate, completely assembled and tested before it leaves the factory and ready for connection of water and electricity.</p> <p>All pumps are Grundfos CME pumps with integrated frequency drives connected in parallel and operated in cascade.</p> <p>The booster maintains a constant pressure through continuous adjustment of speed of the pumps and starting and stopping the pumps to meet the required flow.</p> <p>The system consists of:</p> <ul style="list-style-type: none"> <li>-2 horizontal multistage pumps with integrated frequency converter, type CME5-4</li> <li>-A suction and a discharge manifold in EN/DIN 1.4571/ AISI 316 TI</li> <li>-One non-return valve per pump placed on the discharge side as standard.</li> <li>-Two isolating valves and a clamp ring per pump for easy service and inspection of the pumps.</li> <li>-Pressure sensor and gauge.</li> <li>-CU323 Pump controller for controlling parallel coupled pumps in cascade.</li> </ul> <p>Optional equipment:</p> <ul style="list-style-type: none"> <li>-Redundant Primary Sensor</li> <li>-Water Shortage Protection</li> <li>-Non return valve on suction side.</li> <li>-Communication Modules for LON, BACnet, Modbus and GSM</li> <li>-Phase Failure monitoring</li> <li>-Beacon</li> <li>-Audible alarm</li> <li>-External transformer</li> <li>-High / Low Level alarm</li> <li>-System in operation indicating lamp</li> <li>-Alarm indicating lamp</li> </ul> <p>Accessories:</p> <ul style="list-style-type: none"> <li>-Level Switch 5 meter cable</li> <li>-Level Switch 10 meter cable</li> <li>-Extra documentation</li> </ul> |

| Count                        | Description   |             |             |             |        |                     |            |              |           |                |            |             |                     |               |           |                           |                |                    |      |                              |      |             |        |               |        |
|------------------------------|---|-------------|-------------|-------------|--------|---------------------|------------|--------------|-----------|----------------|------------|-------------|---------------------|---------------|-----------|---------------------------|----------------|--------------------|------|------------------------------|------|-------------|--------|---------------|--------|
|                              | <p>Functions and features of the CU323 Pump controller:</p> <ul style="list-style-type: none"> <li>-Constant pressure control</li> <li>-Automatic cascade control</li> <li>-Automatic alternation between pumps</li> <li>-Stop function</li> <li>-High Pressure Protection</li> <li>-Sensor Fault Protection</li> <li>-Motor Protection</li> <li>-Standby pumps</li> <li>-Automatic Display Lock</li> <li>-External Start / Stop (potential free contacts)</li> <li>-Easy to use HMI with 2 displays for set-point and process value</li> <li>-2 digital outputs,</li> <li>-Auto / manual control of pumps</li> <li>-Optional bus communication</li> <li>-Optional Safe Tank filling sequence</li> <li>-Optional monitoring of inlet pressure by means of inlet sensor</li> </ul> <p>Technical data:</p> <table> <tr> <td>Rated Flow:</td><td>49.3 US gpm</td></tr> <tr> <td>Rated Head:</td><td>145 ft</td></tr> <tr> <td>Liquid temperature:</td><td>0 – 140 °F</td></tr> <tr> <td>Max Pressure</td><td>: 145 psi</td></tr> </table> <table> <tr> <td>Pump Material:</td><td>EN-GJL-200</td></tr> <tr> <td>Shaft Seal:</td><td>AQQE (SiC/SiC/EPDM)</td></tr> </table> <table> <tr> <td>Mains Supply:</td><td>460-480 V</td></tr> </table> <table> <tr> <td>Starting Method CME pump:</td><td>electronically</td></tr> <tr> <td>Power of CME pump:</td><td>2 HP</td></tr> </table> <table> <tr> <td>Size of manifold connection:</td><td>2NPT</td></tr> <tr> <td>Net Weight:</td><td>201 lb</td></tr> <tr> <td>Gross Weight:</td><td>316 lb</td></tr> </table> | Rated Flow: | 49.3 US gpm | Rated Head: | 145 ft | Liquid temperature: | 0 – 140 °F | Max Pressure | : 145 psi | Pump Material: | EN-GJL-200 | Shaft Seal: | AQQE (SiC/SiC/EPDM) | Mains Supply: | 460-480 V | Starting Method CME pump: | electronically | Power of CME pump: | 2 HP | Size of manifold connection: | 2NPT | Net Weight: | 201 lb | Gross Weight: | 316 lb |
| Rated Flow:                  | 49.3 US gpm   |             |             |             |        |                     |            |              |           |                |            |             |                     |               |           |                           |                |                    |      |                              |      |             |        |               |        |
| Rated Head:                  | 145 ft  |             |             |             |        |                     |            |              |           |                |            |             |                     |               |           |                           |                |                    |      |                              |      |             |        |               |        |
| Liquid temperature:          | 0 – 140 °F  |             |             |             |        |                     |            |              |           |                |            |             |                     |               |           |                           |                |                    |      |                              |      |             |        |               |        |
| Max Pressure                 | : 145 psi   |             |             |             |        |                     |            |              |           |                |            |             |                     |               |           |                           |                |                    |      |                              |      |             |        |               |        |
| Pump Material:               | EN-GJL-200  |             |             |             |        |                     |            |              |           |                |            |             |                     |               |           |                           |                |                    |      |                              |      |             |        |               |        |
| Shaft Seal:                  | AQQE (SiC/SiC/EPDM)   |             |             |             |        |                     |            |              |           |                |            |             |                     |               |           |                           |                |                    |      |                              |      |             |        |               |        |
| Mains Supply:                | 460-480 V   |             |             |             |        |                     |            |              |           |                |            |             |                     |               |           |                           |                |                    |      |                              |      |             |        |               |        |
| Starting Method CME pump:    | electronically  |             |             |             |        |                     |            |              |           |                |            |             |                     |               |           |                           |                |                    |      |                              |      |             |        |               |        |
| Power of CME pump:           | 2 HP  |             |             |             |        |                     |            |              |           |                |            |             |                     |               |           |                           |                |                    |      |                              |      |             |        |               |        |
| Size of manifold connection: | 2NPT  |             |             |             |        |                     |            |              |           |                |            |             |                     |               |           |                           |                |                    |      |                              |      |             |        |               |        |
| Net Weight:                  | 201 lb  |             |             |             |        |                     |            |              |           |                |            |             |                     |               |           |                           |                |                    |      |                              |      |             |        |               |        |
| Gross Weight:                | 316 lb  |             |             |             |        |                     |            |              |           |                |            |             |                     |               |           |                           |                |                    |      |                              |      |             |        |               |        |

## 91149123 HYDRO MULTI-B/E 2 CME5-4 60 Hz



| Description                          | Value                      |
|--------------------------------------|----------------------------|
| <b>General information:</b>          |                            |
| Product name:                        | HYDRO MULTI-B/E 2 CME5-4   |
| Product No.:                         | 91149123                   |
| EAN:                                 | 5711490041347              |
| <b>Technical:</b>                    |                            |
| Actual calculated flow:              | 52 US gpm                  |
| Min flow system:                     | 7.04 US gpm                |
| Resulting head of the pump:          | 140 ft                     |
| Head max:                            | 174.9 ft                   |
| Main pump name:                      | CME5-4                     |
| Main pump Number:                    | 98395711                   |
| Number of pumps:                     | 2                          |
| Model:                               | A                          |
| <b>Materials:</b>                    |                            |
| Pump:                                | EN-GJL-200                 |
| Manifolds:                           | EN/DIN 1.4571/ AISI 316 TI |
| <b>Installation:</b>                 |                            |
| Maximum operating pressure:          | 145 psi                    |
| Pipe connection:                     | 2NPT                       |
| <b>Liquid:</b>                       |                            |
| Pumped liquid:                       | Water                      |
| Liquid temperature range:            | 32 .. 140 °F               |
| Liquid temperature during operation: | 68 °F                      |
| Density:                             | 62.29 lb/ft³               |
| <b>Electrical data:</b>              |                            |
| Power (P2) main pump:                | 2 HP                       |
| Main frequency:                      | 60 Hz                      |
| Rated voltage:                       | 3 x 460-480 V              |
| Starting main:                       | electronically             |
| Rated current of system:             | 5.8 A                      |
| <b>Controls:</b>                     |                            |
| Control type:                        | E                          |
| Operation unit:                      | CU323-2                    |
| <b>Tank:</b>                         |                            |
| Diaphragm tank:                      | No                         |
| <b>Others:</b>                       |                            |
| Net weight:                          | 201 lb                     |
| Gross weight:                        | 316 lb                     |
| Product range:                       | NAMREG                     |
| Custom tariff no.:                   | 8413.70.2040               |

