

PROJECT:	Hydro MPC-CME Booster	UNIT TAG:	_____	QUANTITY:	1
REPRESENTATIVE:	Hurley Engineering	TYPE OF SERVICE:	Domestic Water Booster	DATE:	2/10/20
ENGINEER:	TBD	SUBMITTED BY:	Devin Carle	DATE:	_____
CONTRACTOR:	TBD	APPROVED BY:	_____	DATE:	_____
		ORDER NO.:	_____	DATE:	_____

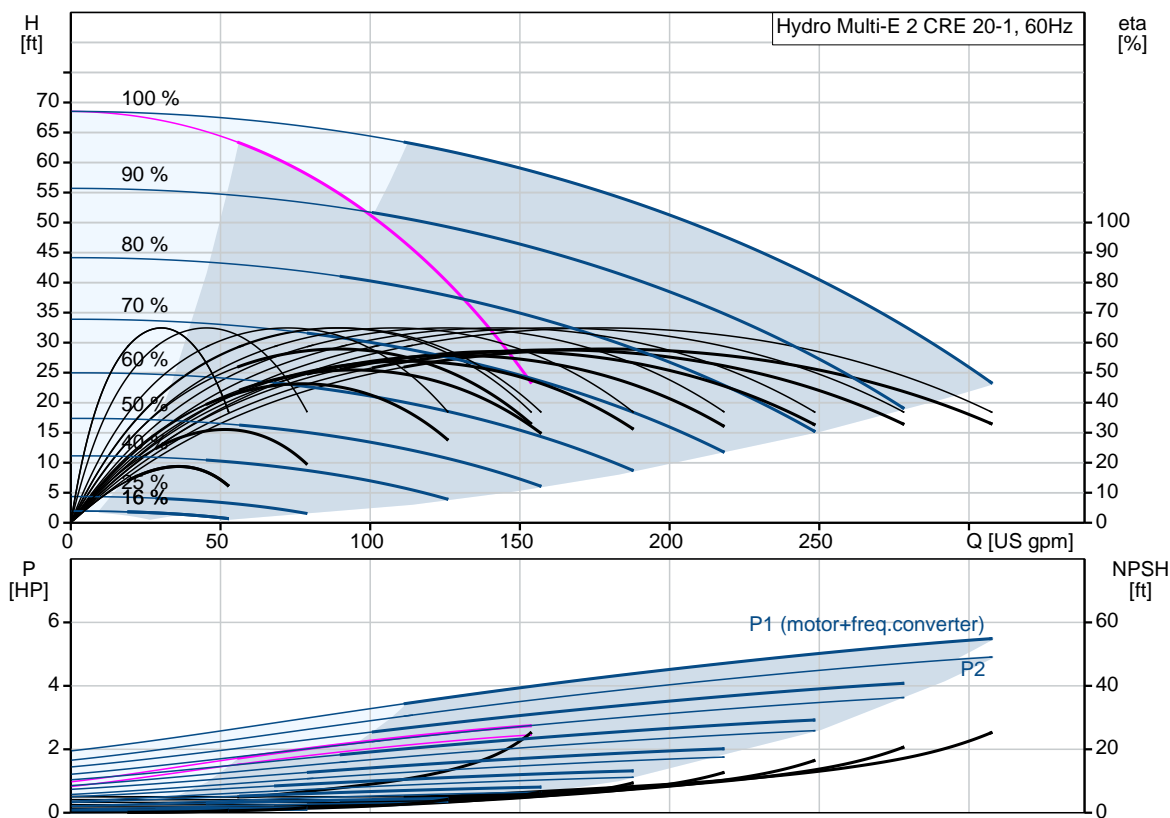


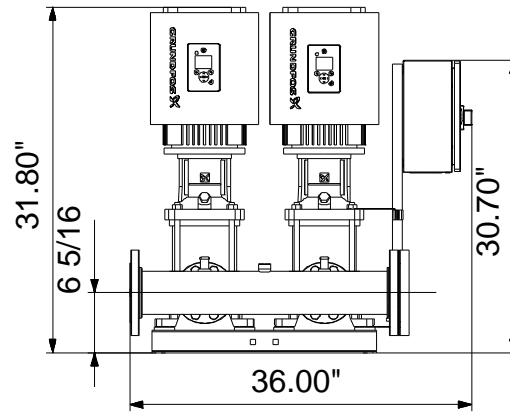
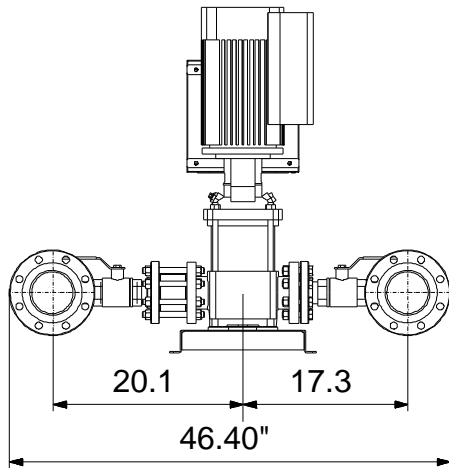
Product photo could vary from the actual product

### Hydro Multi-E 2 CRE 20-1

Energy efficient pressure boosting system for boosting of clean water. Available with 2-4 parallel connected frequency controlled pumps, integrated advanced controller and all necessary fittings.

Conditions of Service	Pump Data	Motor Data
Flow: _____	Maximum operating pressure: 232.06 psi	Rated voltage: 208-230 V
Head: _____	Liquid temperature range: 32 .. 176 °F	Main frequency: 60 Hz
Efficiency: _____	Product number: 99445640	
Liquid: Water		
Temperature: 68 °F		
NPSH required: _____		
Viscosity: _____		
Specific Gravity: 1.000		






**Materials:**

Pump housing: Cast iron

Manifolds: Stainless steel

Count	Description
1	<p><b>Hydro Multi-E 2 CRE 20-1</b></p>  <p>Product photo could vary from the actual product</p> <p>Product No.: <a href="#">99445640</a></p> <p>A GRUNDFOS Hydro Multi-E booster set consists of 2 to 4 speed controlled CR pumps (CRE pumps).</p> <p>Each CRE pump is equipped with an integrated variable frequency drive motor (MLE motor).</p> <ul style="list-style-type: none"> <li>- Hydro Multi-E maintains constant pressure through continuous adjustment of the speed of the pumps.</li> <li>- The system performance is adapted to the demand through cutting in/out the required number of pumps and through parallel control of the pumps in operation.</li> <li>- Pump cascade control is based on first on first off to ensure equal pump wear.</li> <li>- All pumps in operation will run at equal speed.</li> </ul> <p>GRUNDFOS Hydro Multi-E booster sets are designed for pressure boosting of clean water in residential/commercial building, municipal, industrial, and irrigation applications.</p> <p>The control of the Hydro Multi-E system is accomplished through Proportional-Integral control via a multi-pump controller card mounted in one of the MLE motors. The Hydro Multi-E system start/stop and set-point adjustment is possible through the use of two push buttons located on the MLE motor or with the R100 remote controller.</p> <p>The system consists of these parts:</p> <ul style="list-style-type: none"> <li>- Suction manifold and discharge manifold made of 316 stainless steel.</li> <li>- Base frame made of 304 stainless steel.</li> <li>- One non-return valve (check valve), and two isolating valves for each pump.</li> <li>- Adapter with isolating valve for connection diaphragm tank.</li> <li>- Pressure gauge on suction and discharge manifolds.</li> <li>- Pressure transducer on discharge manifold.</li> <li>- Dry-running protection is standard with use of differential pressure switch on suction manifold.</li> <li>- A service disconnect switch located in a NEMA 3R enclosure is mounted to each pump for ease of service.</li> <li>- Grundfos bus communication with optional gateway connections for LON, Modbus, Profibus, BACnet, GSM</li> </ul> <p>When delivered, the GRUNDFOS Hydro Multi-E booster set is factory tested and ready for operation.</p> <p>Diaphragm tank is available as an accessory.</p> <p><b>Liquid:</b> Pumped liquid: Water Liquid temperature range: 32 .. 176 °F</p>

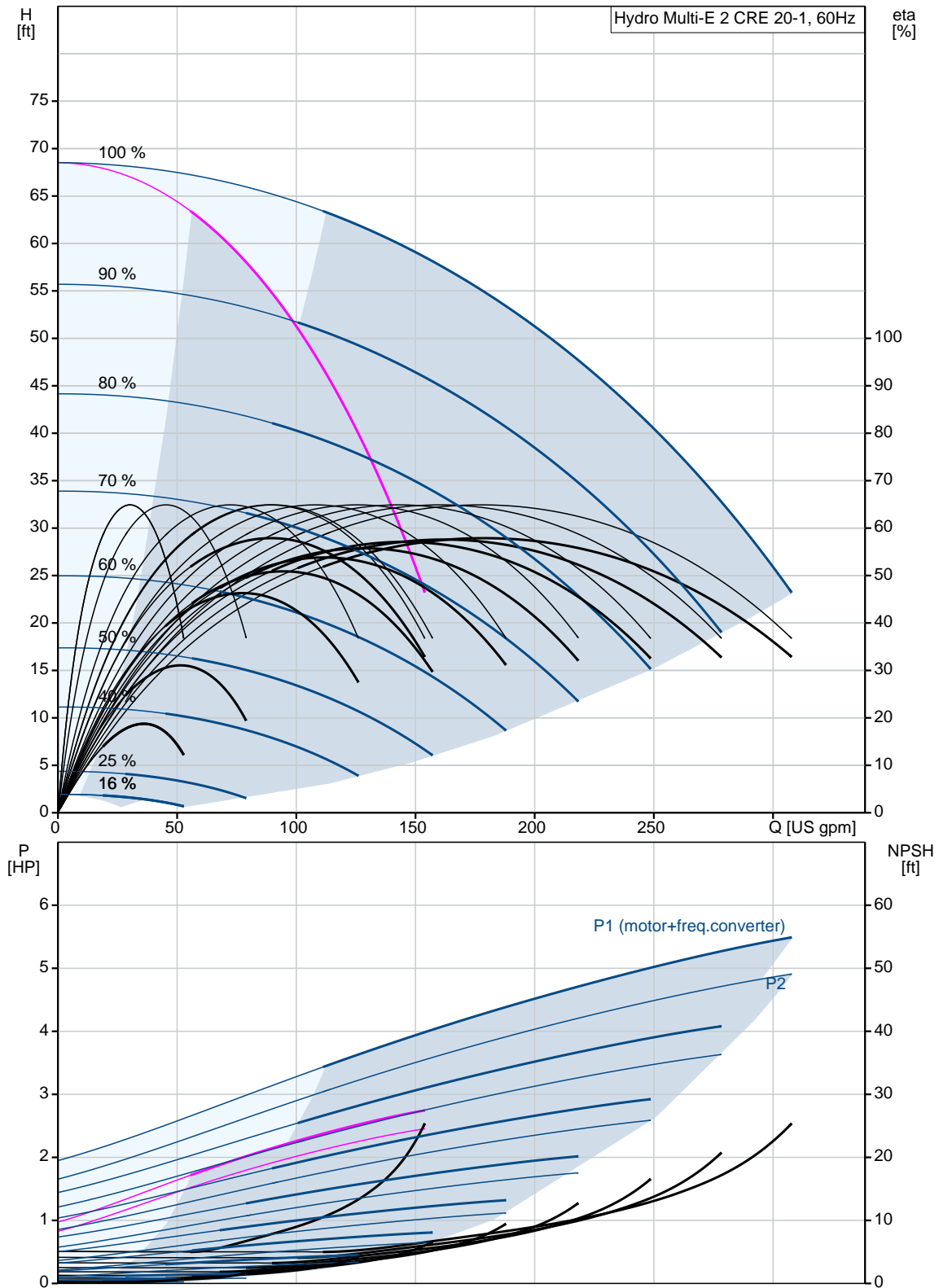


Company name: Hurley Engineering  
Created by:  
Phone:

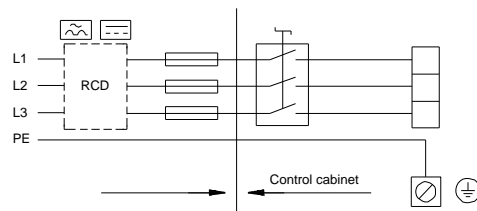
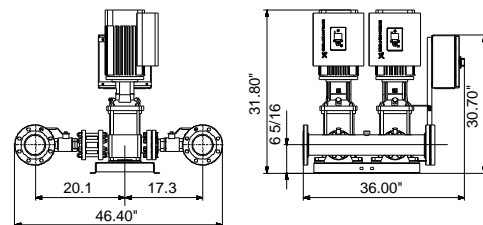
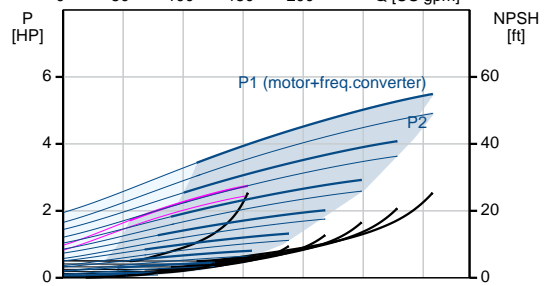
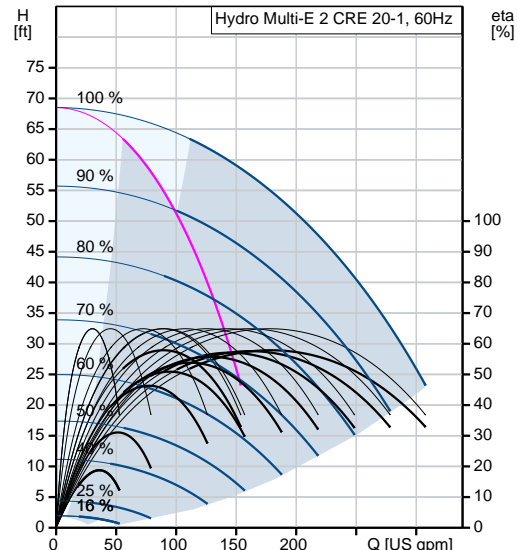
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Count	Description
	<p>Selected liquid temperature: 68 °F Density: 62.29 lb/ft³</p> <p><b>Materials:</b> Pump housing: Cast iron</p> <p><b>Installation:</b> Maximum operating pressure: 232.06 psi Maximum permissible inlet pressure: 116.03 psi Manifold inlet: 4" ANSI Manifold outlet: 4" ANSI</p> <p><b>Electrical data:</b> Power (P2) main pump: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 208-230 V Rated voltage main pump: 3 x 230 V Rated current: 16.6 A Start. method: electronically Radio interference supression: IEC/CISPR 11-1B</p> <p><b>Tank:</b> Diaphragm tank: No</p> <p><b>Others:</b> Net weight: 457 lb Gross weight: 680 lb Shipping volume: 89.7 ft³</p>

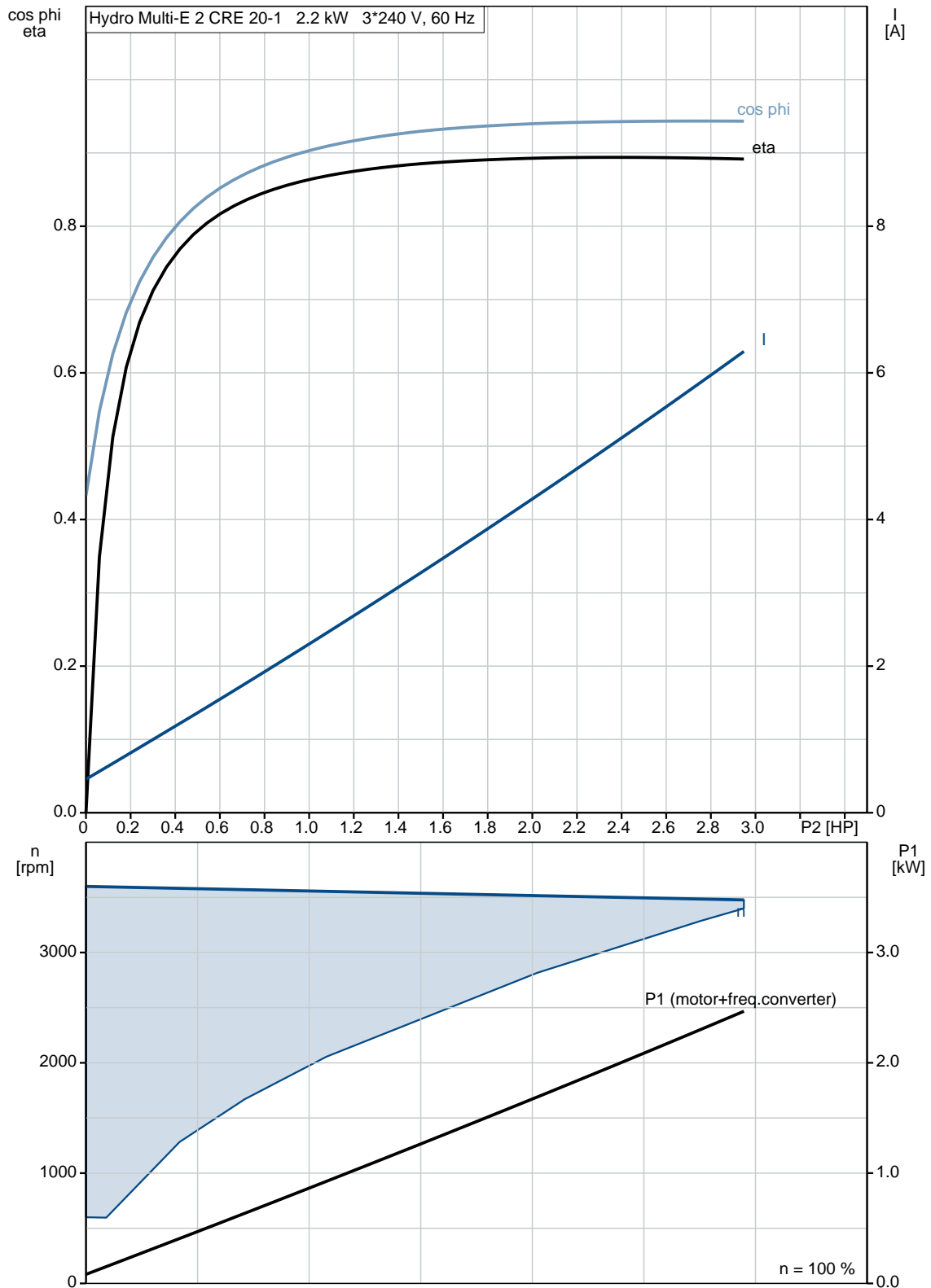
## 99445640 Hydro Multi-E 2 CRE 20-1 60 Hz



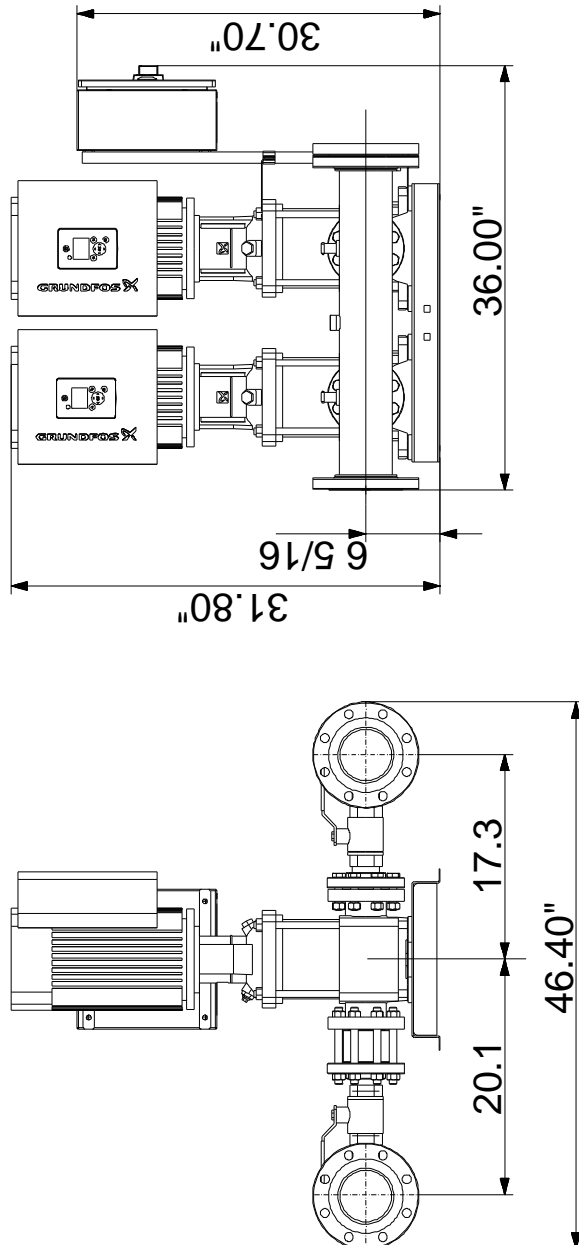
Description	Value
<b>General information:</b>	
Product name:	Hydro Multi-E 2 CRE 20-1
Product No.:	99445640
EAN:	5713829246935
	5713829246935
<b>Technical:</b>	
Min flow system:	0 US gpm
Max flow system:	299 US gpm
Maximum head:	66.93 ft
Pump name:	CRE20-1
Number of pumps:	2
<b>Materials:</b>	
Pump housing:	Cast iron
Manifolds:	Stainless steel
<b>Installation:</b>	
Maximum operating pressure:	232.06 psi
Maximum permissible inlet pressure:	116.03 psi
Manifold inlet:	4" ANSI
Manifold outlet:	4" ANSI
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	32 .. 176 °F
Selected liquid temperature:	68 °F
Density:	62.29 lb/ft³
<b>Electrical data:</b>	
Power (P2) main pump:	3 HP
Main frequency:	60 Hz
Rated voltage:	3 x 208-230 V
Rated voltage main pump:	3 x 230 V
Rated current:	16.6 A
Start. method:	electronically
Radio interference supression:	IEC/CISPR 11-1B
<b>Tank:</b>	
Diaphragm tank:	No
<b>Others:</b>	
Net weight:	457 lb
Gross weight:	680 lb
Shipping volume:	89.7 ft³
Sales region:	Namreg



## 99445640 Hydro Multi-E 2 CRE 20-1 60 Hz



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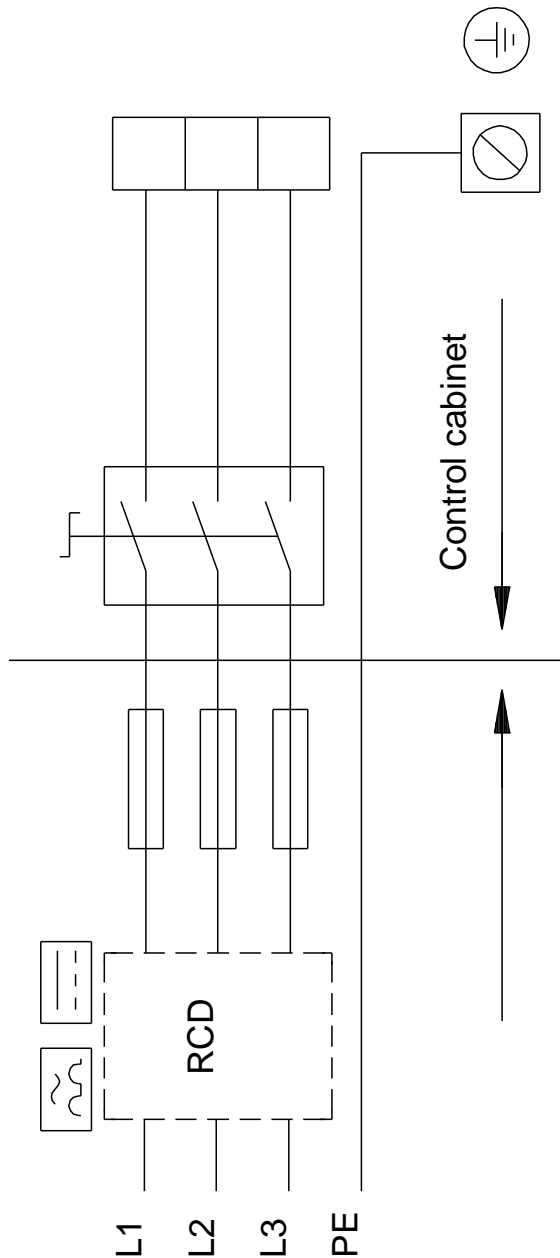


Note! All units are in [in] unless otherwise stated.  
Disclaimer: This simplified dimensional drawing does not show all details.



**Date:** 3/25/2020

**99445640 Hydro Multi-E 2 CRE 20-1 60 Hz**



All units are [in] unless otherwise presented.