

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:		DATE:	
CONTRACTOR:	To Be Determined	APPROVED BY:		DATE:	
		ORDER NO.:		DATE:	



Product photo could vary from the actual product

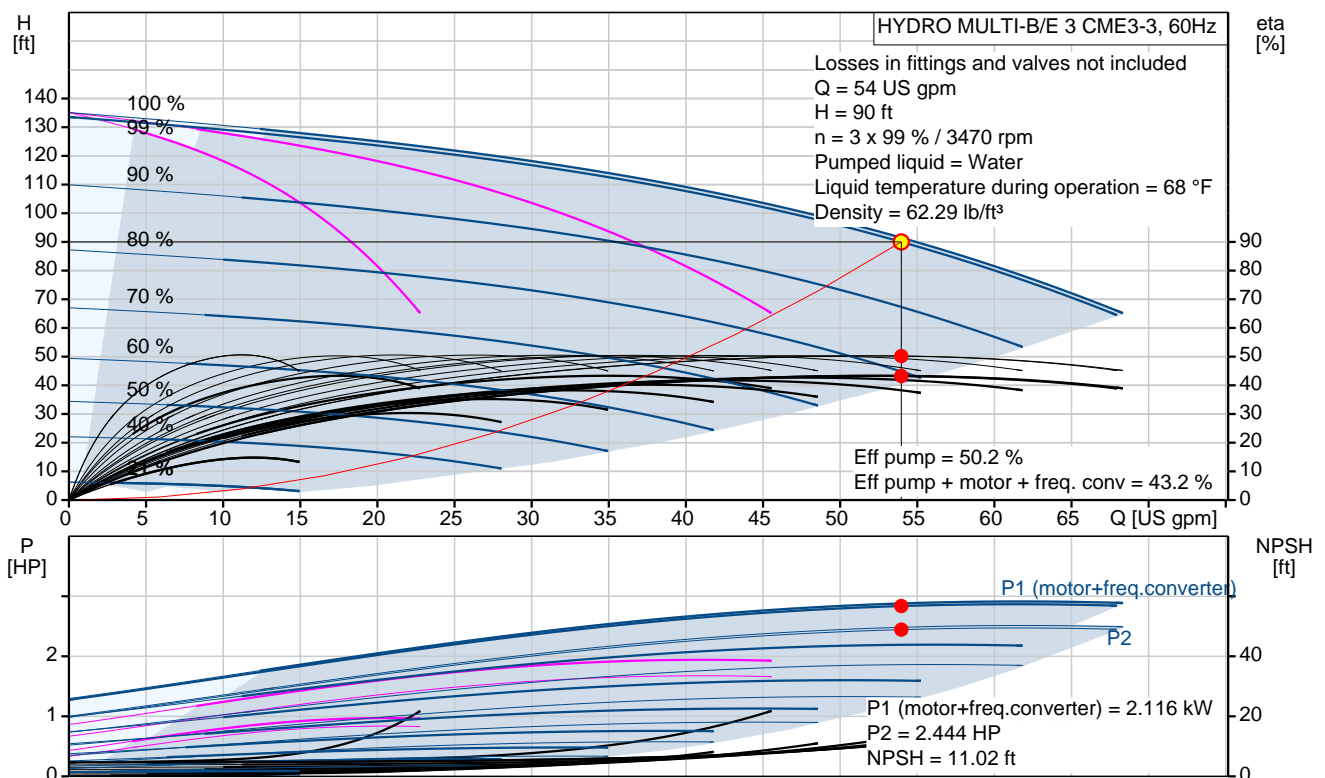
HYDRO MULTI-B/E 3 CME3-3

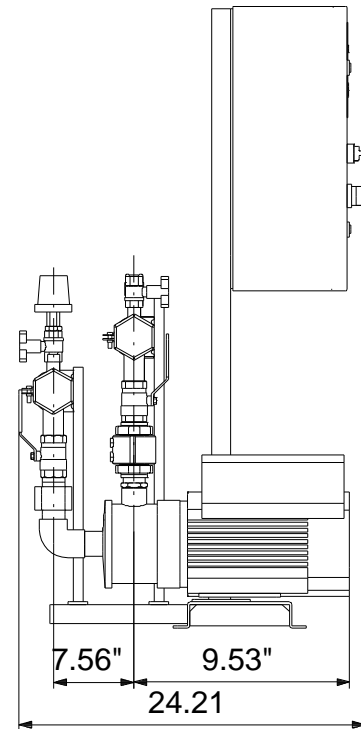
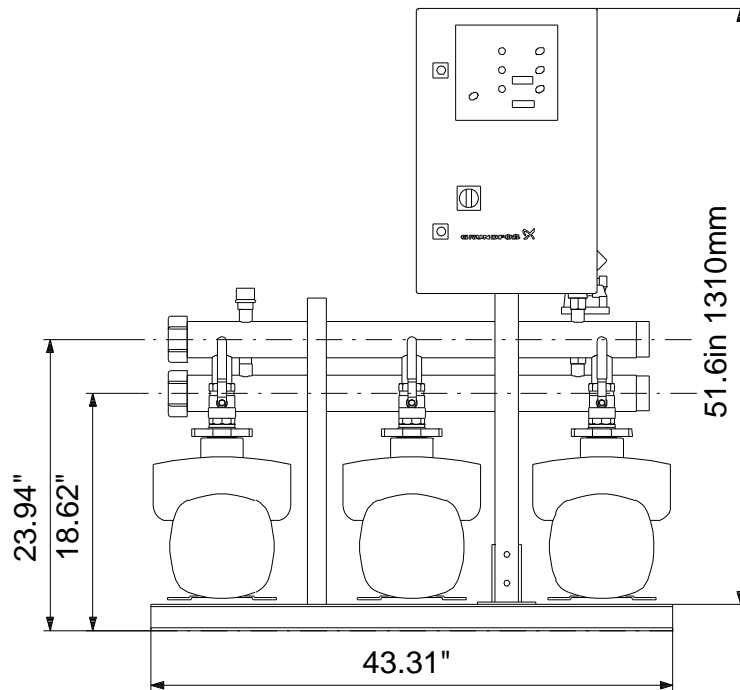
Booster systems with frequency-controlled pumps



HURLEY ENGINEERING
MANUFACTURERS REPRESENTATIVES

Conditions of Service	Pump Data	Motor Data
Flow: 54 US gpm	Maximum operating pressure: 145 psi	Rated voltage: 200-240 V
Head: 90 ft	Liquid temperature range: 32 .. 140 °F	Main frequency: 60 Hz
Efficiency: 43.2 %	Pipe connection: 2NPT	
Liquid: Water	Product number: 91149103	
Temperature: 68 °F		
NPSH required: 11.02 ft		
Viscosity:		
Specific Gravity: 1.000		





Materials:

Pump: EN-GJL-200

Manifolds: EN/DIN 1.4571/ AISI 316 TI

Count	Description
1	<p>HYDRO MULTI-B/E 3 CME3-3 Product No.: 91149103 Pressure booster system designed and manufactured by Grundfos. 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"> -3 horizontal multistage pumps with integrated frequency converter, type CME3-3 -A suction and a discharge manifold in EN/DIN 1.4571/ AISI 316 TI -One non-return valve per pump placed on the discharge side as standard. -Two isolating valves and a clamp ring per pump for easy service and inspection of the pumps. -Pressure sensor and gauge. -CU323 Pump controller for controlling parallel coupled pumps in cascade. <p>Optional equipment:</p> <ul style="list-style-type: none"> -Redundant Primary Sensor -Water Shortage Protection -Non return valve on suction side. -Communication Modules for LON, BACnet, Modbus and GSM -Phase Failure monitoring -Beacon -Audible alarm -External transformer -High / Low Level alarm -System in operation indicating lamp -Alarm indicating lamp <p>Accessories:</p> <ul style="list-style-type: none"> -Level Switch 5 meter cable -Level Switch 10 meter cable -Extra documentation <p>Functions and features of the CU323 Pump controller:</p> <ul style="list-style-type: none"> -Constant pressure control -Automatic cascade control -Automatic alternation between pumps -Stop function -High Pressure Protection -Sensor Fault Protection -Motor Protection -Standby pumps -Automatic Display Lock -External Start / Stop (potential free contacts) -Easy to use HMI with 2 displays for set-point and process value -2 digital outputs, -Auto / manual control of pumps -Optional bus communication -Optional Safe Tank filling sequence -Optional monitoring of inlet pressure by means of inlet sensor <p>Technical data: Rated Flow: 48.9 US gpm</p>



Company name:

Created by:

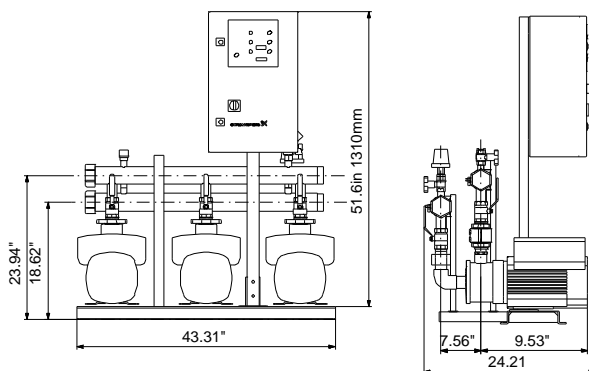
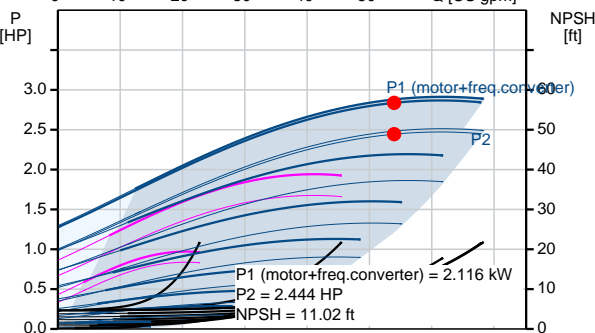
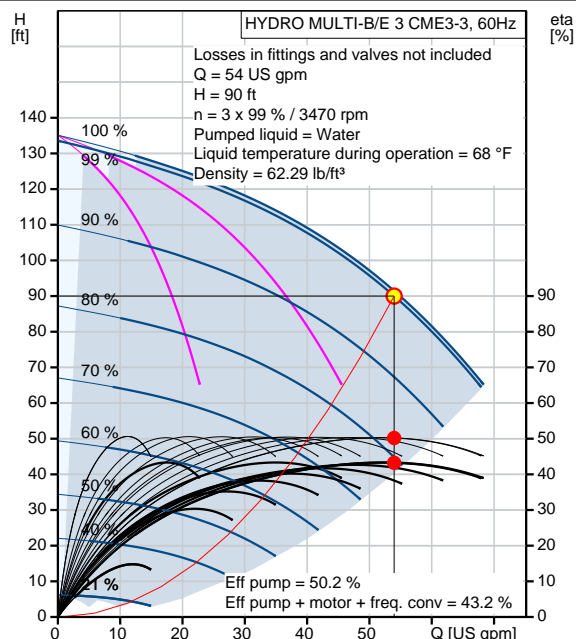
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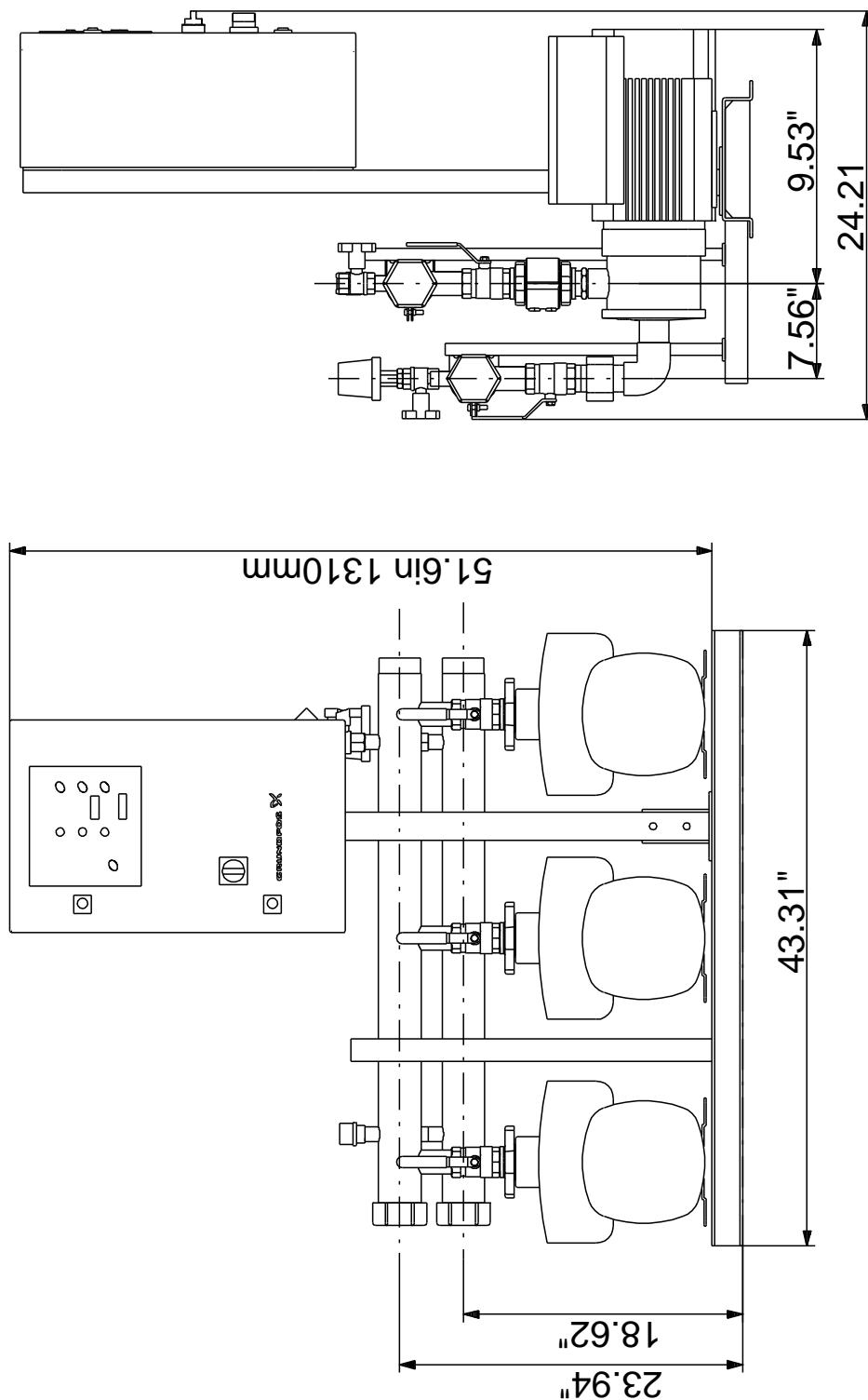
3/7/2019

Count	Description
	<p>Rated Head: 97.45 ft</p> <p>Liquid temperature: 0 – 140 °F</p> <p>Max Pressure : 145 psi</p> <p>Pump Material: EN-GJL-200</p> <p>Shaft Seal: AQQE (SiC/SiC/EPDM)</p> <p>Mains Supply: 200-240 V</p> <p>Starting Method CME pump: electronically</p> <p>Power of CME pump: 1.5 HP</p> <p>Size of manifold connection: 2NPT</p> <p>Net Weight: 242 lb</p> <p>Gross Weight: 465 lb</p>

Description	Value
General information:	
Product name:	HYDRO MULTI-B/E 3 CME3-3
Product No.:	91149103
EAN:	5711490041187
Technical:	
Actual calculated flow:	54 US gpm
Min flow system:	4.4 US gpm
Resulting head of the pump:	90 ft
Head max:	129.3 ft
Main pump name:	CME3-3
Main pump Number:	98395056
Number of pumps:	3
Model:	A
Materials:	
Pump:	EN-GJL-200
Manifolds:	EN/DIN 1.4571/ AISI 316 TI
Installation:	
Maximum operating pressure:	145 psi
Pipe connection:	2NPT
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	32 .. 140 °F
Liquid temperature during operation:	68 °F
Density:	62.29 lb/ft³
Electrical data:	
Power (P2) main pump:	1.5 HP
Main frequency:	60 Hz
Rated voltage:	1 x 200-240 V
Starting main:	electronically
Rated current of system:	19.7 A
Controls:	
Control type:	E
Operation unit:	CU323-3
Tank:	
Diaphragm tank:	No
Others:	
Net weight:	242 lb
Gross weight:	465 lb
Product range:	NAMREG
Custom tariff no.:	8413.70.2040



91149103 HYDRO MULTI-B/E 3 CME3-3 60 Hz



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