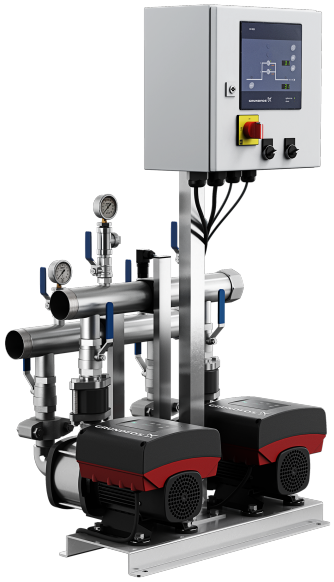
GRUNDFOS

Submittal Data

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



Product photo could vary from the actual product

HYDRO MULTI-B/E 2 CME5-5

Booster systems with frequency-controlled pumps

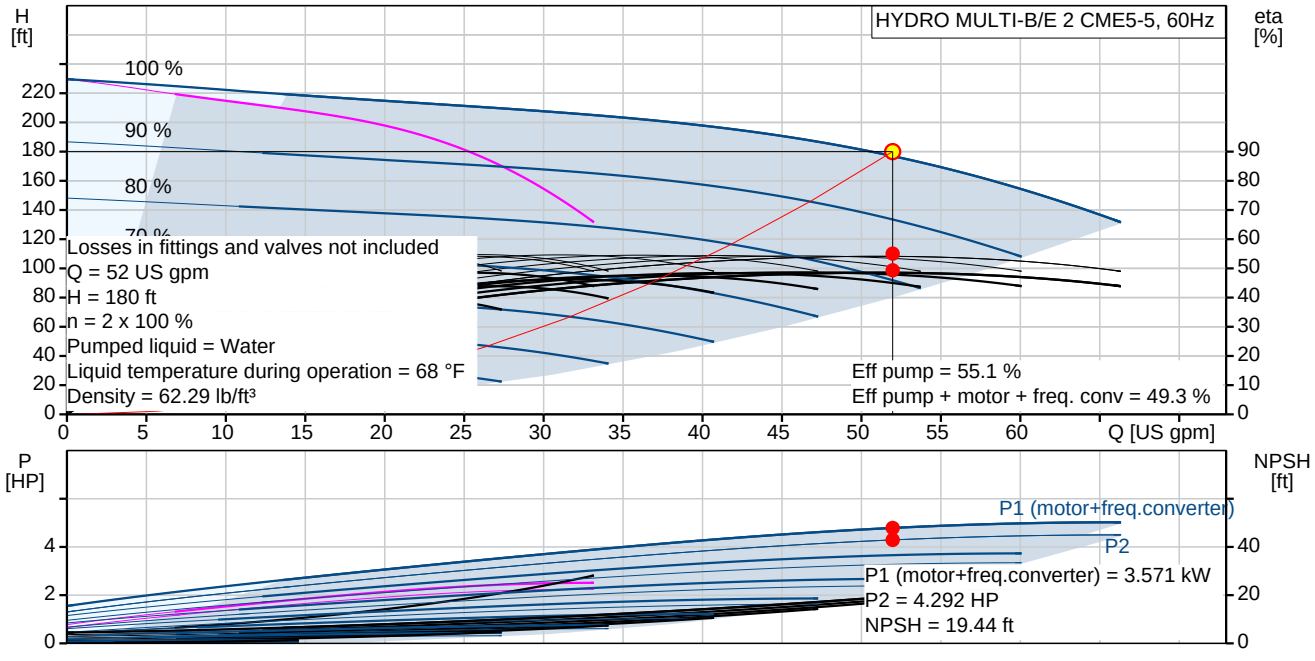
Since 1936

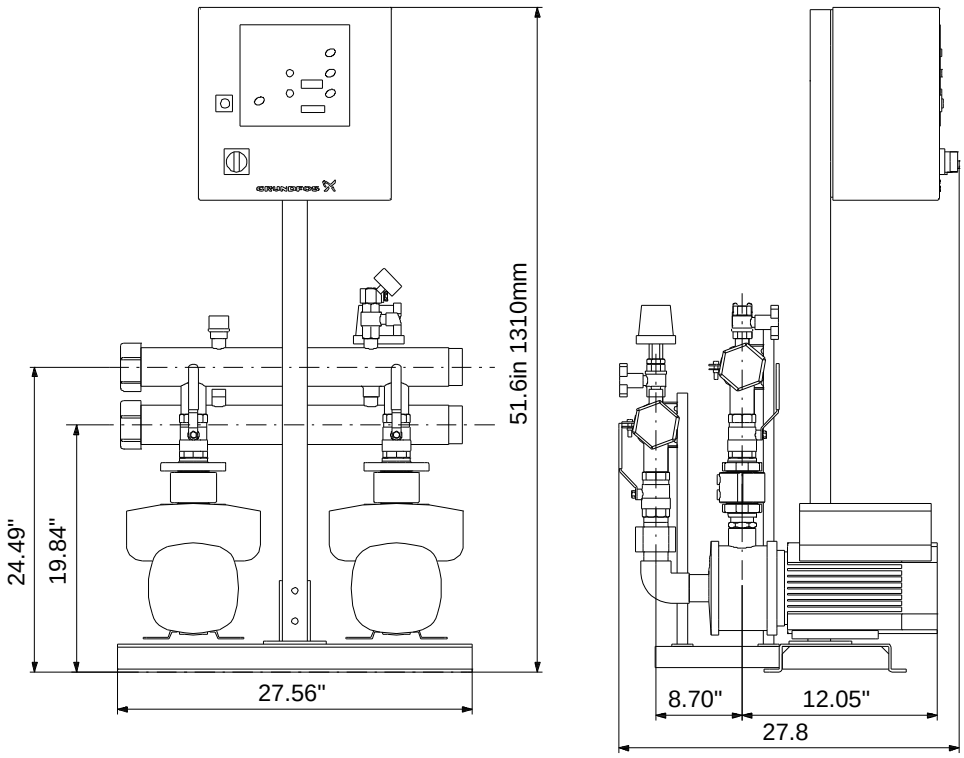
HURLEY ENGINEERING
MANUFACTURERS REPRESENTATIVES

Conditions of Service	
Flow:	52 US gpm
Head:	180 ft
Efficiency:	49.3 %
Liquid:	Water
Temperature:	68 °F
NPSH required:	19.44 ft
Viscosity:	
Specific Gravity:	1.000

Pump Data	
Maximum operating pressure:	145 psi
Liquid temperature range:	32 .. 140 °F
Pipe connection:	2NPT
Product number:	91149124

Motor Data	
Rated voltage:	460-480 V
Main frequency:	60 Hz





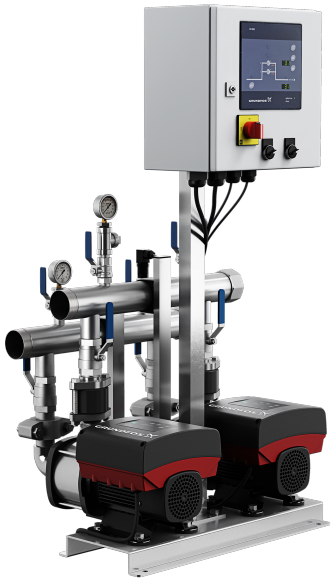
Materials:

Pump:	EN-GJL-200
Manifolds:	EN/DIN 1.4571/ AISI 316 TI

Company name:
Created by:
Phone:

Date: 2/8/2019

Count	Description
1	**HYDRO MULTI-B/E 2 CME5-5**



Product photo could vary from the actual product

Product No.: 91149124

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.

All pumps are Grundfos CME pumps with integrated frequency drives connected in parallel and operated in cascade.

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.

The system consists of:

-2 horizontal multistage pumps with integrated frequency converter, type CME5-5
-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.

Optional equipment:
-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

Accessories:
-Level Switch 5 meter cable
-Level Switch 10 meter cable
-Extra documentation

Count	Description

Functions and features of the CU323 Pump controller:
-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

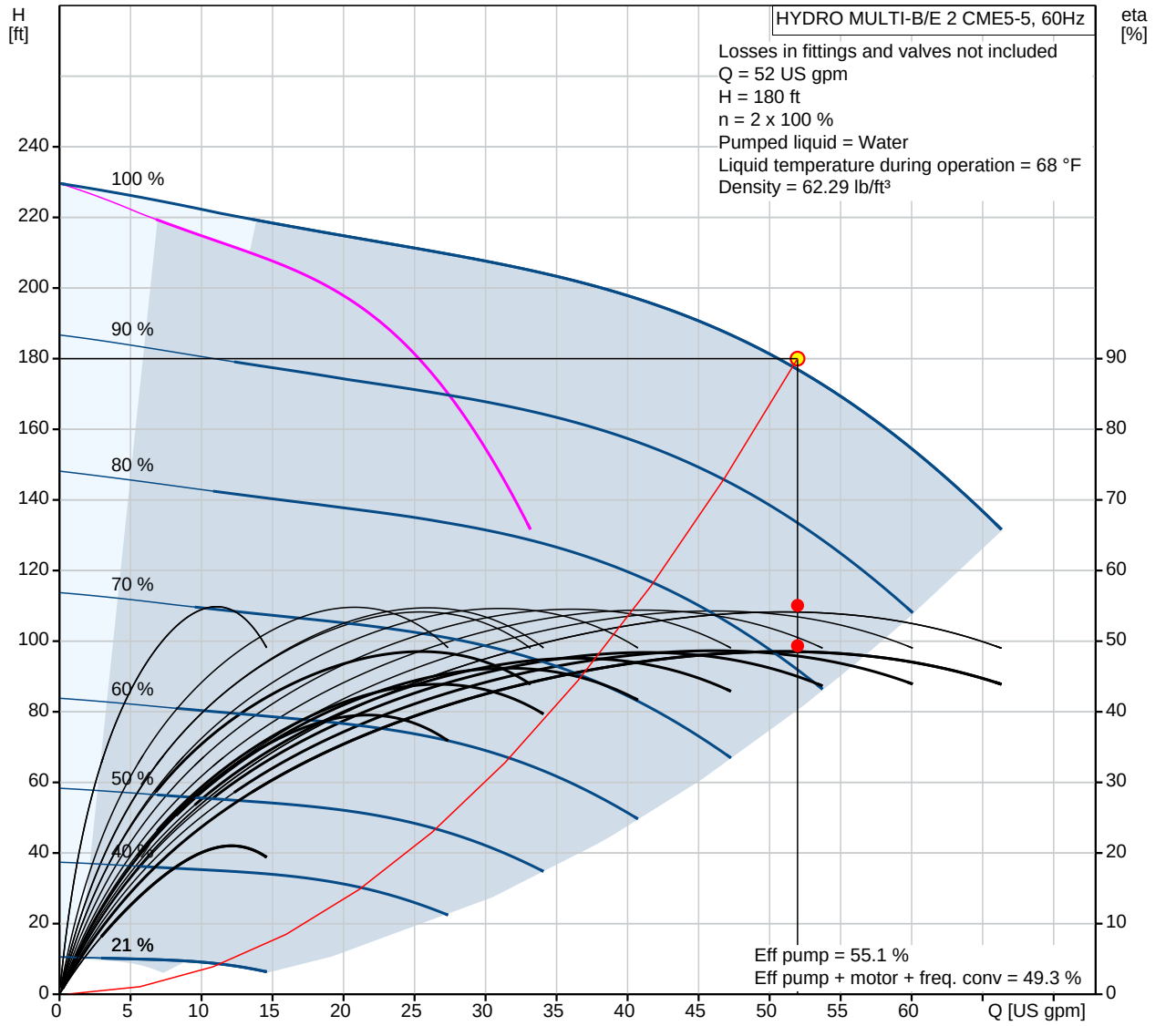
Technical data:

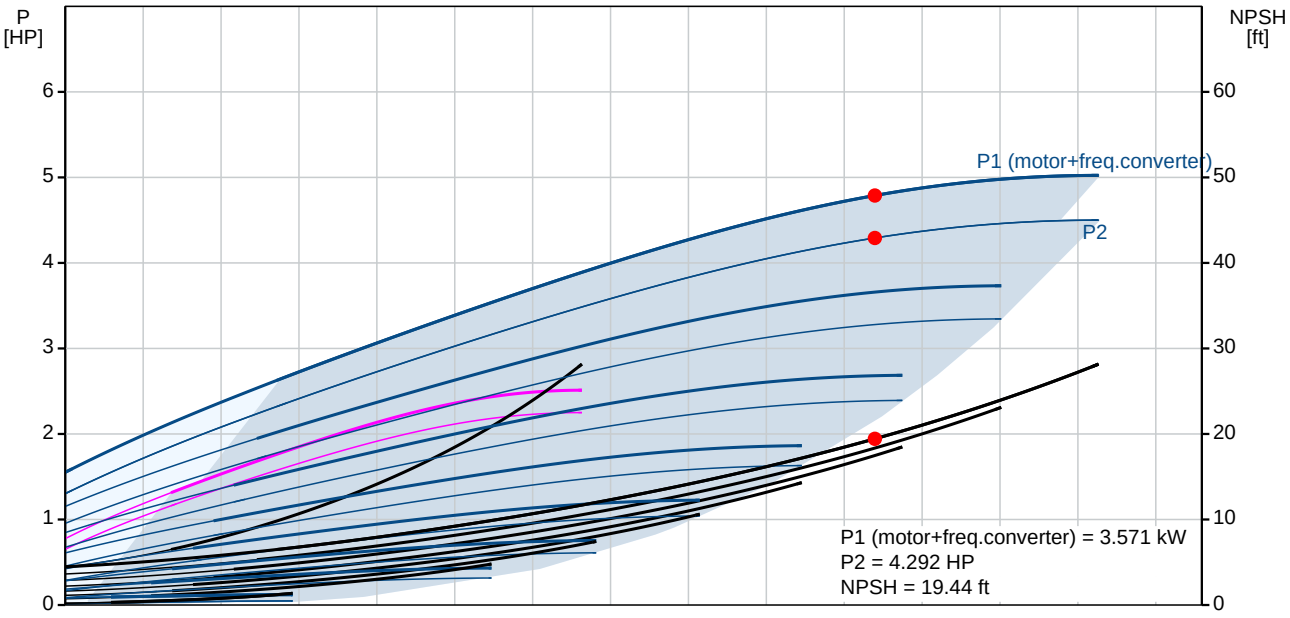
Rated Flow:	49.3 US gpm
Rated Head:	182.4 ft
Liquid temperature:	0 – 140 °F
Max Pressure	: 145 psi
Pump Material:	EN-GJL-200
Shaft Seal:	AQQE (SiC/SiC/EPDM)
Mains Supply:	460-480 V
Starting Method CME pump:	electronically
Power of CME pump:	2 HP
Size of manifold connection:	2NPT
Net Weight:	202 lb
Gross Weight:	318 lb

Company name:
Created by:
Phone:

Date: 2/8/2019

91149124 HYDRO MULTI-B/E 2 CME5-5 60 Hz





Company name:
Created by:
Phone:

Date: 2/8/2019

Description	Value
General information:	
Product name:	HYDRO MULTI-B/E 2 CME5-5
Product No.:	91149124
EAN:	5711490041354
Technical:	
Actual calculated flow:	52 US gpm
Min flow system:	7.04 US gpm
Resulting head of the pump:	180 ft
Head max:	219.2 ft
Main pump name:	CME5-5
Main pump Number:	98399402
Number of pumps:	2
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:	2 HP
Main frequency:	60 Hz
Rated voltage:	3 x 460-480 V
Starting main:	electronically
Rated current of system:	5.8 A
Controls:	
Control type:	E
Operation unit:	CU323-2
Tank:	
Diaphragm tank:	No
Others:	
Net weight:	202 lb
Gross weight:	318 lb
Product range:	NAMREG
Custom tariff no.:	8413.70.2040