

Submittal Data

PROJECT:	UNIT TAG:	QUANTITY:
	TYPE OF SERVICE:	
REPRESENTATIVE:	SUBMITTED BY:	DATE:
ENGINEER:	APPROVED BY:	DATE:
CONTRACTOR:	ORDER NO.:	DATE:



CRNE 32-2-1 N-G-A-E-HQQE

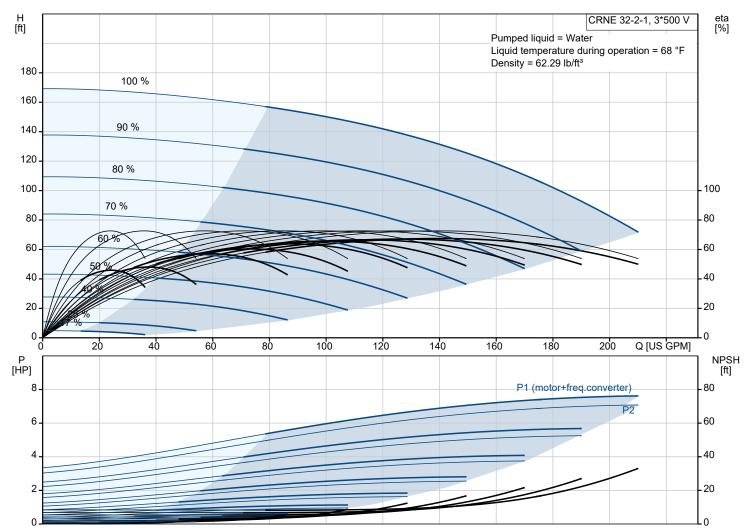
Vertical, multistage centrifugal pump with integrated frequency converter. Pump materials in contact with the liquid are in high-grade stainless steel (EN 1.4401)

Note! Product picture may differ from actual product

Conditions of Service		
Liquid:	Water	
Temperature:	68 °F	
Specific Gravity:	1.000	

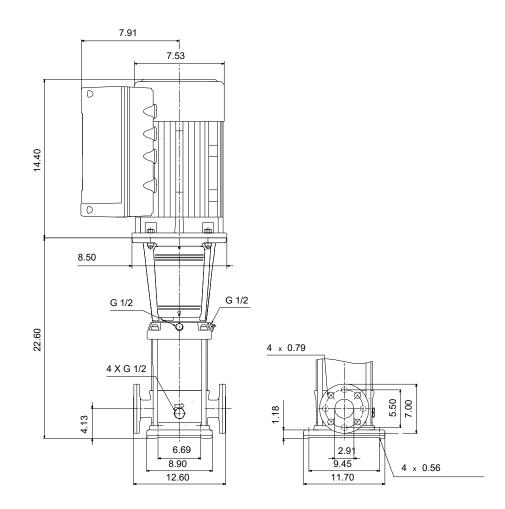
Pump Data		
Max pressure at stated temp:	232 psi / 250 °F	
Liquid temperature range:	-40 248 °F	
Maximum ambient temperature:	122 °F	
Shaft seal:	HQQE	
Product number:	99076532	

Motor Data		
7.5 HP		
440-480 V		
60 Hz		
IP55		
F		
ELEC		
132E		
92.4 %		



Submittal Data





Materials:

Base: Stainless steel
Base: EN 1.4408
Base: AISI 316
Impeller: Stainless steel
Impeller: AISI 316
Impeller: EN 1.4401

Material code: A Code for rubber: E

Qty. Description

CRNE 32-2-1 N-G-A-E-HQQE

Product No.: 99076532

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via ANSI flanges.

The pump is fitted with a 3-phase, fan-cooled, permanent-magnet, synchronous motor.

The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement.

The operating panel on the motor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.

The display gives an intuitive and user-friendly interface to all functions.

The push-buttons are used to navigate through the menu structure to access pump and performance data on site and enable setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop".

Communication with the pump is also possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".

The Grundfos Eye indicator on the operating panel provides visual indication of pump status:

- "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)
- "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
- "Alarm": Motor has stopped (flashing red indicator lights).

The terminal box has a number of inputs and outputs enabling the motor to be used in advanced applications where many inputs and outputs are required:

- two dedicated digital inputs
- three analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 3.5 V; the factory-fitted pressure sensor is connected to one of these inputs
- 5 V voltage supply to potentiometer and sensor
- one analog output, 0-10 V, 0(4)-20 mA
- two configurable digital inputs or open-collector outputs
- two Pt100/Pt1000 inputs
- LigTec, dry-running protection sensor input
- Grundfos Digital Sensor input and output
- 24 V voltage supply for sensors
- two signal-relay outputs (potential-free contacts)
- **GENIbus** connection
- interface for Grundfos CIM fieldbus module.

Liquid:

Pumped liquid: Water Liquid temperature range: -40 .. 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft3

Pump speed on which pump data are based:

Rated flow: 159 US GPM Rated head: 124.3 ft Actual impeller diameter: 4.66 in Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals: **CURUS** Approvals for drinking water: NSF/ANSI 61

Materials:

Impeller:

Bearing:

Curve tolerance:

Base: Stainless steel

> EN 1.4408 **AISI 316** Stainless steel EN 1.4401

ISO9906:2012 3B

AISI 316 SIC Support bearing: Graflon

Installation:

122 °F t max amb:

Qty. Description Maximum operating pressure: Max pressure at stated temp: 232 psi / 250 °F 232 psi / -40 °F

Type of connection:
Size of inlet connection:
2 1/2 inch
Size of outlet connection:
2 1/2 inch
Pressure rating for connection:
PN 16
Flange rating inlet:
Flange size for motor:
2 1/2 inch
PN 16
2 150 lb
2 13TC

Electrical data:

Motor standard:

Motor type:

IE Efficiency class:

Rated power - P2:

Power (P2) required by pump:

Mains frequency:

Rated voltage:

NEMA

132E

IE5

7.5 HP

7.5 HP

60 Hz

3 x 440-480 V

Service factor: 1.15
Rated current: 9.10-8.50 A
Cos phi - power factor: 0.91-0.89
Rated speed: 360-4000 rpm

Efficiency: 92.4%

Motor efficiency at full load: 92.4 %

Enclosure class (IEC 34-5): IP55

Insulation class (IEC 85): F

Motor No: 99256773

Controls:

Frequency converter: Built-in Pressure sensor: Y

Others:

DOE Pump Energy Index VL: 0.40
Net weight: 195 lb
Gross weight: 213 lb
Shipping volume: 10.9 ft³

