

Submittal Data

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

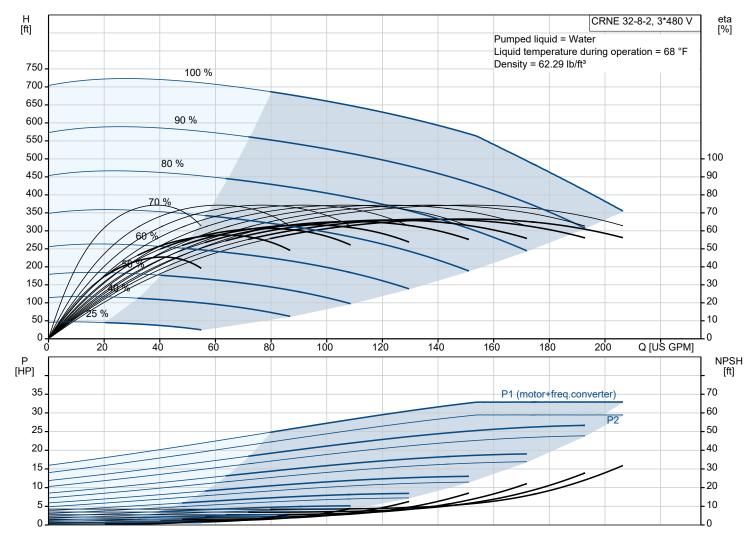


CRNE 32-8-2 N-G-A-E-HQQE

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

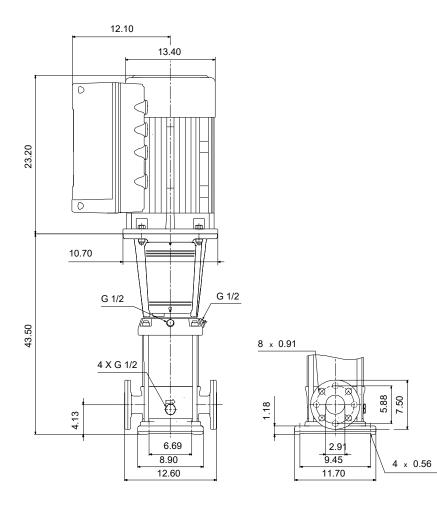
Note! Product picture may differ from actual product

Conditions of Service		Pump Data		Motor Data	
Liquid: Temperature: Specific Gravity:	Water 68 °F 1.000	Max pressure at stated temp: Liquid temperature range: Maximum ambient temperature: Shaft seal: Product number:	435 psi / 250 °F -40 248 °F 104 °F HQQE 98183631	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	30 HP 460 V 60 Hz IP55 F YES 180AA 91.7 %





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:	А
Code for rubber:	E

.	Description		
	CRNE 32-8-2 N-G-A-E-HQQE		
	Product No.: 98183631		
	Vertical, multistage centrifugal p	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 ransmission is via a rigid split coupling. Pipe connection is via ANSI flanges.		
	U		
	The pump is fitted with a 3-phase, fan-cooled asynchronous motor. The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control the motor speed, which again enables adaptation of the performance to a given requirement.		
	An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The operating panel has indicator lights for "Operation" and "Fault". Communication with the pump is 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 terminal box holds terminals for these connections:		
	 pump start/stop input (pc 	otential-free contact)	
		ia analog signal, 0-10 V, 0(4)-20 mA	
	 10 V voltage supply for setpoint potentiometer, Imax = 5 mA 		
	Ç I	its, 0-10 V, 0(4)-20 mA; the factory-fitted pressure sensor is connected to one of these inputs	
	 24 V voltage supply for s 	ensor, imax = 40 mA	
	 one analog output three digital inputs		
	3 1		
	 two Pt100 inputs two potential-free fault si 	gnal relays with changeover contact, reporting "Fault", "Operation" or "Ready"	
	 RS-485 GENIbus connect 		
	 interface for Grundfos CI 		
	Liquid:		
I	Pumped liquid:	Water	
	· ·····p·····		
	Liquid temperature range:	-40 248 °F	
		-40 248 °F 68 °F	
	Liquid temperature range: Selected liquid temperature: Density: Technical:	68 °F 62.29 lb/ft³	
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	Liquid temperature range: Selected liquid temperature: Density: Technical: Pump speed on which pump da Rated flow: Rated head: Actual impeller diameter: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals: Approvals for drinking water: Curve tolerance: Materials: Base: Impeller: Bearing: Support bearing: Installation: t max amb: Maximum operating pressure:	68 °F 62.29 lb/ft³ ta are based: 3541 rpm 159 US GPM 557.8 ft 4.66 in Vertical Single HQQE CURUS NSF/ANSI 61 ISO9906:2012 3B Stainless steel EN 1.4408 AISI 316 Stainless steel EN 1.4401 AISI 316 SIC Graflon	
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	Liquid temperature range: Selected liquid temperature: Density: Technical: Pump speed on which pump da Rated flow: Rated head: Actual impeller diameter: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals: Approvals for drinking water: Curve tolerance: Materials: Base: Impeller: Bearing: Support bearing: Installation: t max amb: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection:	68 °F 62.29 lb/ft ³ ta are based: 3541 rpm 159 US GPM 557.8 ft 4.66 in Vertical Single HQQE CURUS NSF/ANSI 61 ISO9906:2012 3B Stainless steel EN 1.4408 AISI 316 Stainless steel EN 1.4401 AISI 316 SIC Grafion 104 °F 435 psi / 250 °F 435 psi / -40 °F ANSI 2 1/2 inch 2 1/2 inch	

NEMA

180AA

Electrical data:

Motor type:

Motor standard:

Qty.	Description	
	IE Efficiency class:	NEMA Premium / IE3 60Hz
	Rated power - P2:	30 HP
	Power (P2) required by pump:	30 HP
	Mains frequency:	60 Hz
	Rated voltage:	3 x 460 V
	Service factor:	1.15
	Rated current:	36.5 A
	Cos phi - power factor:	0.88
	Rated speed:	480-3540 rpm
	Efficiency:	IE3 91,7%
	Motor efficiency at full load:	91.7 %
	Number of poles:	2
	Enclosure class (IEC 34-5):	IP55
	Insulation class (IEC 85):	F
	Motor No:	85901139
	Controls:	
	Frequency converter:	Built-in
	Pressure sensor:	Y
	Others:	
	DOE Pump Energy Index VL:	0.44
	Net weight:	519 lb
	Gross weight:	537 lb
	Shipping volume:	28.4 ft ³

