

Submittal Data

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

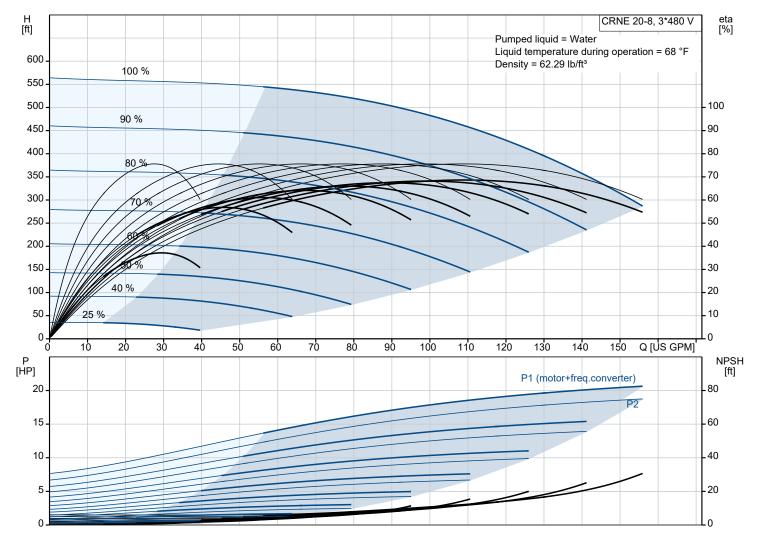


CRNE 20-8 N-FGJ-A-E-HQQE

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

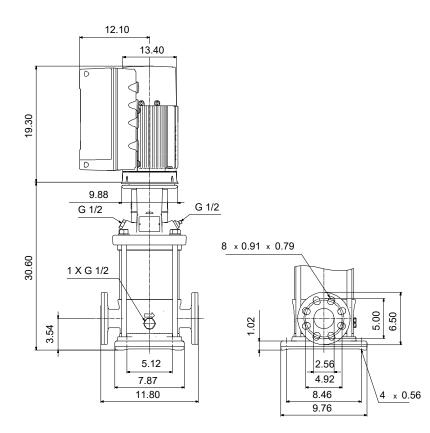
Note! Product picture may differ from actual product

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:	363 psi / 250 °F -4 248 °F 104 °F HQQE 98183569	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	20 HP 460 V 60 Hz IP55 F YES 160AB 91.0 %



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

Qty.	Description		
1	CRNE 20-8 N-FGJ-A-E-HQQE Product No.: 98183569		
	Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liqu are in high-grade stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Pow transmission is via a rigid split coupling. Pipe connection is via combined DIN-ANSI-JIS flanges.		
	The pump is fitted with a 3-phas	e, fan-cooled asynchronous motor.	
	The motor includes a frequency the motor speed, which again er	converter and PI controller in the motor terminal box. This enables continuously variable control of nables adaptation of the performance to a given requirement.	
	operation or to "Stop". The oper	r terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." ating panel has indicator lights for "Operation" and "Fault".	
	settings as well as reading out c consumption".	s possible by means of Grundfos GO Remote (accessory). The remote control enables further of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power	
	The terminal box holds terminal	s for these connections:	
	pump start/stop input (po		
		ia analog signal, 0-10 V, 0(4)-20 mA	
		etpoint potentiometer, Imax = 5 mA	
	0 11 3	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		
	one analog output		
	three digital inputs		
	two Pt100 inputs		
		gnal relays with changeover contact, reporting "Fault", "Operation" or "Ready"	
	RS-485 GENIbus connect		
	interface for Grundfos CI		
	Liquid:		
	Pumped liquid:	Water	
	Liquid temperature range:	-4 248 °F	
	Selected liquid temperature:	68 °F	
		62.29 lb/ft ³	
	Density:	02.29 ID/It	
	Technical:		
	Pump speed on which pump dat	ta are based: 3497 rpm	
	Rated flow:	111 US GPM	
	Rated head:	442.9 ft	
	Actual impeller diameter:	4.13 in	
	Pump orientation:	Vertical	
	Shaft seal arrangement:	Single	
	Code for shaft seal:	HQQE	
	Approvals:	CURUS	
	Approvals for drinking water:	NSF/ANSI 61	
	Curve tolerance:	ISO9906:2012 3B	
	Materials:		
	Base:	Stainless steel	
		EN 1.4408	
		AISI 316	
	Impeller:	Stainless steel	
		EN 1.4401	
		AISI 316	
	Bearing:	SIC	
	Installation:		
	t max amb:	104 °F	
	Maximum operating pressure:	362.59 psi	
	Maximum operating pressure. Max pressure at stated temp:	363 psi / 250 °F 363 psi / -4 °F	
1	Type of connection:		
	Type of connection:	DIN / ANSI / JIS	
	Size of inlet connection:	DN 50	
	Size of outlet connection:	DN 50	
1	Pressure rating for connection:	PN 25	

Qty.	Description	
	Rated power - P2:	20 HP
	Power (P2) required by pump:	20 HP
	Mains frequency:	60 Hz
	Rated voltage:	3 x 460 V
	Service factor:	1.15
	Rated current:	26 A
	Cos phi - power factor:	0.89
	Rated speed:	480-3540 rpm
	Efficiency:	IE3 91,0%
	Motor efficiency at full load:	91.0 %
	Number of poles:	2
	Enclosure class (IEC 34-5):	IP55
	Insulation class (IEC 85):	F
	Motor No:	85901137
	Controls:	
	Frequency converter:	Built-in
	Pressure sensor:	Y
	Others:	
	DOE Pump Energy Index VL:	0.46
	Net weight:	392 lb
	Gross weight:	507 lb
	Shipping volume:	28.4 ft ³

