

**Submittal Data**

**3450 RPM**

**60 Hertz**



JOB or CUSTOMER: \_\_\_\_\_

ENGINEER: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

SUBMITTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

ORDER NO: \_\_\_\_\_ DATE: \_\_\_\_\_

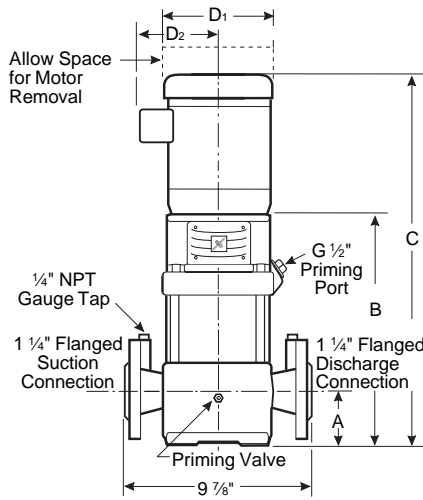
SPECIFICATION REF: \_\_\_\_\_

QUANTITY	TAG NO.	MODEL NO.	GPM	FEET	VOLT	PHASE	COMMENTS

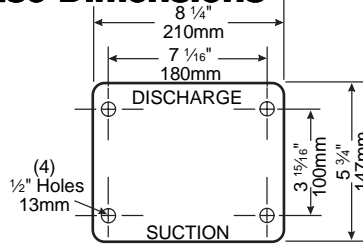
"STACK" KIT P/N: \_\_\_\_\_

SEAL & GASKET KIT P/N: \_\_\_\_\_

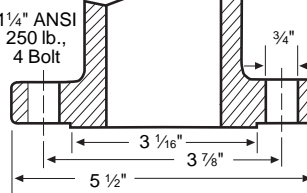
**Dimensions**



**Base Dimensions**



**Flange Dimensions**



**Technical Data**

*(based on airfree water at 68°F [20°C])*

**MIN. DUTY FLOW RATE:**  
5°F to 250°F (-15°C to 120°C) = 2.0 GPM  
See the Series C Installation & Operating Manual for operating limits below this minimum.

**MOTORS:** ODP (Standard), TEFC (Optional)



**TEMPERATURE RANGE:**  
5°F to 250°F (-15°C to 121°C)

**FLANGES:** 1 1/4", ANSI 250 lb. R.F., 4 Bolt

**MAX. WORKING PRESSURE (at 250°F):**  
Models 20/1 - 100: 230 PSI (16 Bars)  
120 - 160/14: 300 PSI (20 Bars)

*(Consult Grundfos for maximum working pressures at lower fluid temperatures.)*

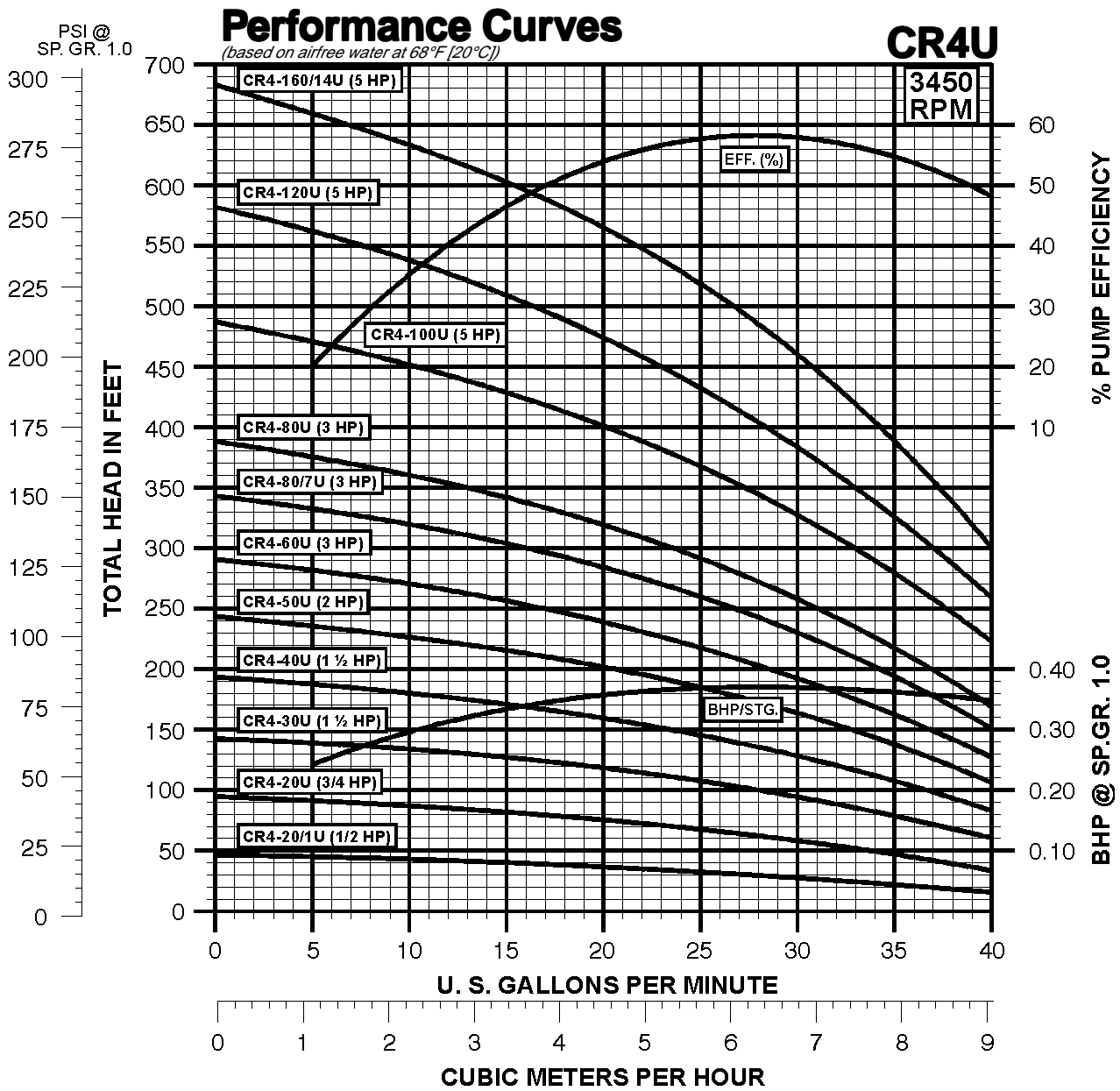
**MAX. INLET PRESSURE:**  
20/1-20: 90 PSI (6 Bars)  
30-80/7: 145 PSI (10 Bars)  
80-160/14: 220 PSI (15 Bars)

Motors are   Rated

**Electrical Data, Dimensions, and Weights ①**

Pump Type	HP	Motor S.F.	Ph	Volts	NEMA Frame Size	DIMENSIONS IN INCHES									Net Wt. (Lbs.)	Ship. Wt. (Lbs.)	Ship. Vol. (Cu. Ft.)
						Disc. Size	Suc. Size	Motor Height	A	B	C	D <sub>1</sub>	D <sub>2</sub>				
CR4-20/1U	1/2	1.25	1	115/208-230	56C	1 1/4	1 1/4	9 3/8	3	11 1/2	20 7/8	6 1/8	4 3/8	58	64	4	
	1/2	1.25	3	208-230/460	56C	1 1/4	1 1/4	9 3/8	3	11 1/2	20 7/8	6 1/8	4 1/2	57	63	4	
CR4-20U	3/4	1.25	1	115/208-230	56C	1 1/4	1 1/4	10 1/4	3	11 1/2	21 3/4	6 1/8	4 1/2	63	69	4	
	3/4	1.25	3	208-230/460	56C	1 1/4	1 1/4	9 3/8	3	11 1/2	20 7/8	6 1/8	4 1/2	69	75	4	
CR4-30U	1 1/2	1.15	1	115/208-230	56C	1 1/4	1 1/4	11 1/4	3	12 3/8	23 7/8	7 1/4	5 1/4	77	83	4	
	1 1/2	1.15	3	208-230/460	56C	1 1/4	1 1/4	9 3/8	3	12 3/8	21 3/4	5 7/8	4 3/8	73	79	4	
CR4-40U	1 1/2	1.15	1	115/208-230	56C	1 1/4	1 1/4	11 1/4	3	13 1/2	24 3/4	7 1/4	5 1/4	80	85	4	
	1 1/2	1.15	3	208-230/460	56C	1 1/4	1 1/4	9 3/8	3	13 1/2	22 7/8	5 7/8	4 3/8	76	82	4	
CR4-50U	2	1.15	1	115/208-230	56C	1 1/4	1 1/4	11 1/4	3	14 5/8	25 7/8	6 5/8	5 1/4	88	95	4	
	2	1.15	3	208-230/460	56C	1 1/4	1 1/4	10 3/8	3	14 5/8	25	6 5/8	5 1/4	80	86	4	
CR4-60U	3	1.15	1	115/208-230	182TC	1 1/4	1 1/4	14	3	16	30	8 1/2	5 7/8	122	130	6	
	3	1.15	3	208-230/460	182TC	1 1/4	1 1/4	11 3/8	3	16	27 3/8	8 1/2	5 7/8	92	100	6	
CR4-80/7U	3	1.15	1	115/208-230	182TC	1 1/4	1 1/4	14	3	18	32	8 1/2	5 7/8	124	132	6	
	3	1.15	3	208-230/460	182TC	1 1/4	1 1/4	11 3/8	3	18	29 3/8	8 1/2	5 7/8	94	102	6	
	3	1.15	1	115/208-230	182TC	1 1/4	1 1/4	14	3	18	32	8 1/2	5 7/8	128	136	6	
CR4-80U	3	1.15	3	208-230/460	182TC	1 1/4	1 1/4	11 3/8	3	18	29 3/8	8 1/2	5 7/8	98	106	6	
	3	1.15	1	115/208-230	182TC	1 1/4	1 1/4	14	3	18	32	8 1/2	5 7/8	128	136	6	
CR4-100U	5	1.15	1	208-230	213TC	1 1/4	1 1/4	16	3	20 1/4	36 1/4	10 1/8	7 3/8	161	174	7	
	5	1.15	3	208-230/460	184TC	1 1/4	1 1/4	13 3/4	3	20 1/4	34 3/8	8 1/2	5 3/4	130	142	7	
CR4-120U	5	1.15	1	208-230	213TC	1 1/4	1 1/4	16	3	22 3/8	38 3/8	10 1/8	7 3/8	164	175	7	
	5	1.15	3	208-230/460	184TC	1 1/4	1 1/4	13 3/4	3	22 3/8	36 1/2	8 1/2	5 3/4	133	146	7	
CR4-160/14U	5	1.15	1	208-230	213TC	1 1/4	1 1/4	16	3	26 5/8	42 5/8	10 1/8	7 3/8	172	183	8	
	5	1.15	3	208-230/460	184TC	1 1/4	1 1/4	13 3/4	3	26 5/8	40 3/4	8 1/2	5 3/4	141	154	8	

NOTE: ①Above data for Baldor ODP motors.



## Materials of Construction

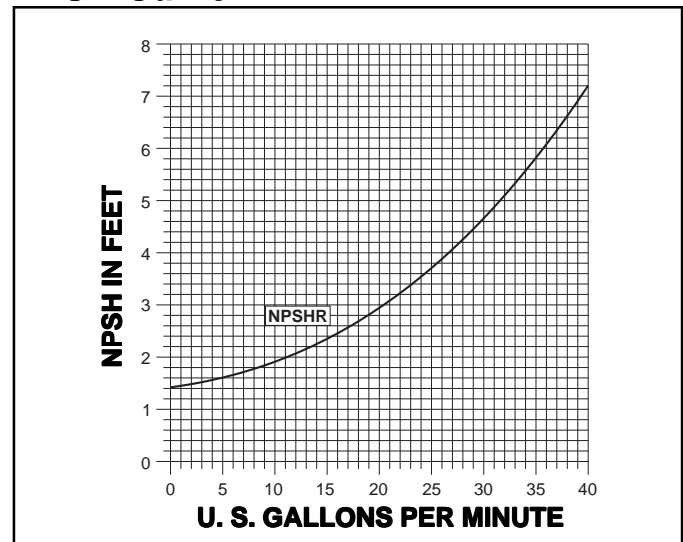
DESCRIPTION	MATERIAL
Suction/Discharge Base, Motor Stool & Couplings	Cast Iron
Impellers, Intermediate Chambers, Spacing Pipes, Outer Sleeve, Priming Valve & Coupling Guards	AISI 304 SS
Pump Shaft	AISI 316 SS
<b>O-Ring Type Shaft Seal (Optional: Bellows Type Shaft Seal, Carbon/Tungsten Carbide, EPDM &amp; FPM)</b>	
- Stationary Face	Tungsten Carbide
- Rotation Face	Tungsten Carbide
- O-Rings	EPDM (FPM Optional)
- Upper and Lower Drivers	AISI 304 SS
- Spring	AISI 304 SS
Intermediate Chamber Bearings	Aluminum Oxide Ceramic*
Intermediate Bearing Journals	Tungsten Carbide
O-Rings	EPDM (FPM Optional)
Outer Sleeve Gaskets	Non-Asbestos Fiber
Air Vent Plug	AISI 316 SS
Neck Rings	Teflon®

\*Leadless Tin Bronze Available

NOTES: EPDM - Ethylene Propylene Rubber • ® Registered trademark of DuPont

**Recommended Spare Parts: Stack Kit & Shaft Seal/Gasket Kit**

## NPSH Curve



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