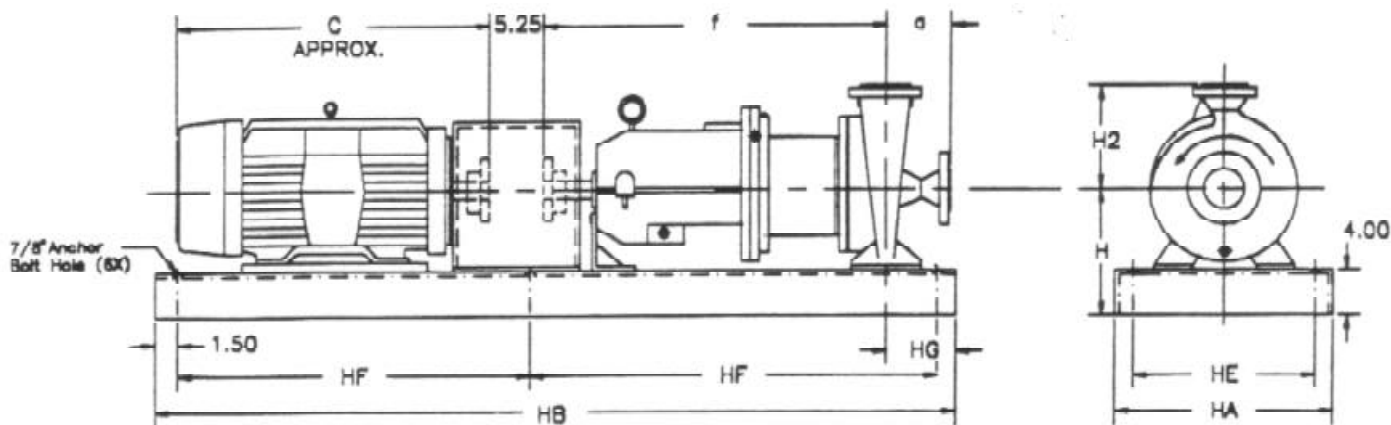




**DICKOW PUMP COMPANY, INC.**  
 1738 SANDS PLACE SE  
 MARIETTA, GEORGIA 30067 USA  
 Phone:(770)952-7903, Fax:(770)933-8846

<b>Quote Info.</b>	Quotation No.	3605 rev 2	Item No.	1
	Date	10/6/2004	Quantity	1
	Representative	Chapman	Pump Type	NMRhu
	Customer	ORNL	Pump Size	32/250 - 2x1.5x10
	Inquiry No.		Magnet Design	2/2/120/1/2
<b>Service Conditions</b>	Liquid	Mercury	Casing	Cast Steel
	Concentration (%)	100%	Impeller	Cast Iron
	Temperature (C)	20	Pump Shaft	420 ss
	Specific Gravity	13.55	Shaft Sleeve/ Slide Bearings	Diamond SiC
	Specific Heat (BTU/lb - Deg.F)		Containment Shell	Hastelloy C
	Viscosity (Cp)		Lubrication - Antifriction Bearings	Oil
	Vapor Pressure (psia)		Casing Mount	Foot
	Capacity (GPM)	25	Casing Drain	Plugged
	Differential Head (ft TDH)	128	Baseplate	1FS-Steel
	Suction Pressure (psia)		Baseplate Weight (lbs.)	477
	NPSHA (ft)		Pump Weight (lbs.)	220
<b>Sealless Pump Design</b>	NPSHR (ft)	3	Motor Manufacturer	SIEMENS
	Speed (RPM)	1900	Horsepower	75 (See Note)
	Efficiency (%)	23	Frame	365T
	Magnet Length	120	Enclosure	TEFC
	Magnet Power @ Temp.	61.10	Weight (lbs.)	875
	Magnetic Losses	5.36	Coupling Manufacturer	Woods
	BHP (including mag.losses)	51.00	Size	10SC50
	BHP max (including mag.losses)	60.00	Type	Spacer
	Impeller Dia. max/rated/min (mm)	255/255/190	Pump	\$ 17,430.00
	Performance Curve No.	64.NC.203	Motor	\$ 2,788.00
	Direction of Rotation	cw	Baseplate	\$ 1,160.00
	Allowable Shell Pres./Temp[F]	754/80	Coupling	\$ 360.00
	Minimum Flow rate (GPM)	9	Options	\$ 660.00
	Max. Pressure@Shut-Off (psi)	586.58	Material Surcharge	\$ 208.00
Number of Stages	1	Total Unit Price Each	\$ 22,606.00	
Flange - Suction	2"-300#RF-ANSI	Total Price Extended	\$ 22,606.00	
Flange - Discharge	1.5"-300#RF-ANSI	Total Weight (lbs.)	1537	
<b>Options</b>	<input type="checkbox"/> Secondary Containment	<input type="checkbox"/> Trip Amplifier System	<input type="checkbox"/> Performance Curve	<input type="checkbox"/> Radiography (per film)
	<input type="checkbox"/> Stainless Steel Impeller	<input type="checkbox"/> Sroud Probe	<input type="checkbox"/> NPSH Test with Curve	<input type="checkbox"/> Vibration / Bearing
<b>Tests</b>	<input type="checkbox"/> Stainless Steel Inducer	<input type="checkbox"/> Fluid Probe	<input type="checkbox"/> Noise Measurement	<input type="checkbox"/> Material Spectrometer
	<input type="checkbox"/> Jacketed Design	<input type="checkbox"/> Ball Bearing Probe	<input type="checkbox"/> Liquid Penetrant	<input type="checkbox"/> Balance Report
	<input type="checkbox"/> Mag-Safe Temp Probe	<input checked="" type="checkbox"/> Power Monitor	<input type="checkbox"/> Magnetic Particle	<input type="checkbox"/> Hardness
<b>NOTES</b>	Power Monitor Included			
	A Variable Frequency Drive shall be used to limit the horsepower drawn to 60 HP at 1750 rpm.			
Delivery	16 Weeks	Quote prepared by	Bill R & Jim S	



**DICKOW NMR OUTLINE DIMENSIONS (FRAME II)**  
(all dimensions in inches.)

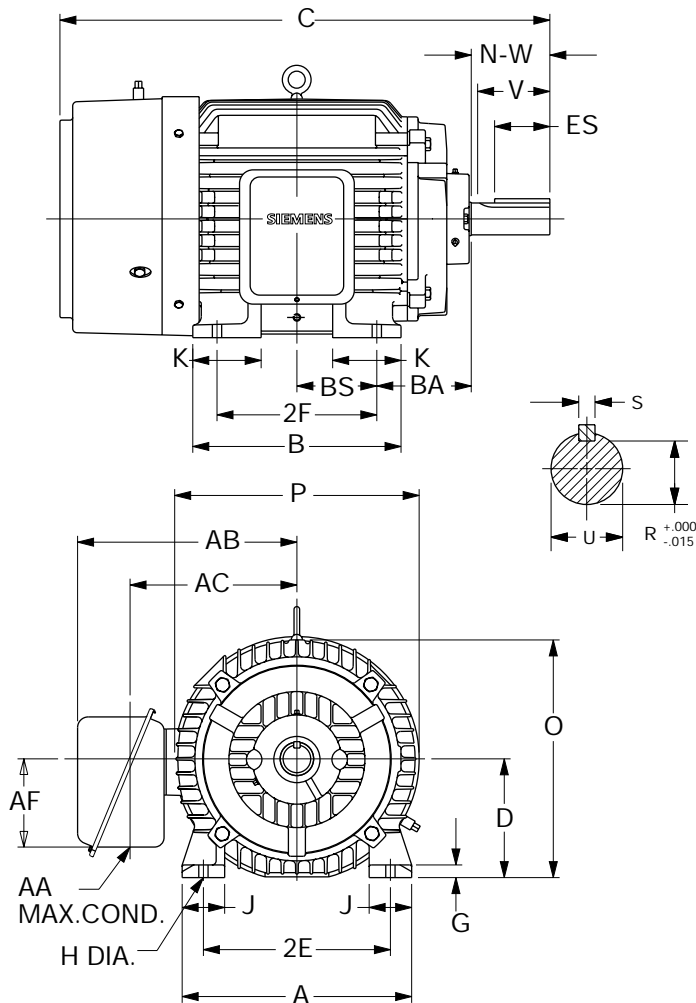
PUMP SIZE	PUMP wt. (lbs)	MOTOR FRAME	a	f	H	H2	HA	HB	HE	HF	HG	BASE wt (lbs)
2 x 1.5 x 10	270	<del>to 326</del>	3.94	25.08	<del>12.50</del>	8.86	<del>18.00</del>	<del>68.00</del>	<del>15.00</del>	<del>32.50</del>	6.00	<del>477.00</del>
		364 - 405			14.50		22.00	76.00	19.00	36.50		6.00
3 x 1.5 x 10	281	to 326	3.94	25.08	12.50	8.86	18.00	68.00	15.00	32.50	6.00	477.00
		364 - 405			14.50		22.00	76.00	19.00	36.50		6.00
3 x 1.5 x 13	336	to 326	4.92	25.08	12.50	9.84	18.00	68.00	15.00	32.50	6.00	477.00
		364 - 405			14.50		22.00	76.00	19.00	36.50		6.00
3 x 2 x 10	292	to 326	4.92	25.08	12.50	8.86	18.00	68.00	15.00	32.50	6.00	477.00
		364 - 405			14.50		22.00	76.00	19.00	36.50		6.00
3 x 2 x 13	347	to 326	4.92	25.08	14.50	11.02	18.00	68.00	15.00	32.50	6.00	477.00
		364 - 405			14.50		22.00	76.00	19.00	36.50		6.00
4 x 3 x 6.5	281	to 326	3.94	25.08	12.50	7.87	18.00	68.00	15.00	32.50	6.00	477.00
		364 - 405			14.50		22.00	76.00	19.00	36.50		6.00
4 x 3 x 8	292	to 326	3.94	25.08	12.50	8.86	18.00	68.00	15.00	32.50	6.00	477.00
		364 - 405			14.50		22.00	76.00	19.00	36.50		6.00
4 x 3 x 10	303	to 326	4.92	25.08	12.50	9.84	18.00	68.00	15.00	32.50	6.00	477.00
		364 - 405			14.50		22.00	76.00	19.00	36.50		6.00
6 x 3 x 6.5	292	to 326	4.92	25.08	12.50	8.86	18.00	68.00	15.00	32.50	6.00	477.00
		364 - 405			14.50		22.00	76.00	19.00	36.50		6.00
6 x 3 x 8	303	to 326	4.92	25.08	12.50	9.84	18.00	68.00	15.00	32.50	6.00	477.00
		364 - 405			14.50		22.00	76.00	19.00	36.50		6.00
6 x 3 x 10	314	to 326	4.92	25.08	14.50	11.02	18.00	68.00	15.00	32.50	6.00	477.00
		364 - 405			14.50		22.00	76.00	19.00	36.50		6.00
6 x 4 x 8	314	to 326	4.92	25.08	12.50	11.02	18.00	68.00	15.00	32.50	6.00	477.00
		364 - 405			14.50		22.00	76.00	19.00	36.50		6.00

MOTOR FRAME	145T	182T	184T	213T	215T	254T	256T	284T	286TS	286T	324TS	324T
C DIMENSION:	13.66	14.8	15.83	18.15	19.65	23.11	24.84	28.80	27.44	28.80	30.00	31.50
WEIGHT (lbs)	60	95	110	140	170	250	300	425	450.0	450	590	590

MOTOR FRAME	326TS	326T	364TS	364T	365TS	365T	405TS	405T				
C DIMENSION:	30.00	31.50	32.06	34.19	32.06	34.19	36.40	39.40				
WEIGHT (lbs)	645	645	840	840	865	865	1240	1240				

Application Manual for NEMA Motors

**Type RGZP — Totally Enclosed Fan Cooled  
 Frames 364T/5T - 364T/5TS**



Standard Dimensions in Inches

FRAME	364T	365T	364TS	365TS
A	17.00	17.00	17.00	17.00
B	13.75	13.75	13.75	13.75
C	34.19	34.19	32.06	32.06
D	9.00	9.00	9.00	9.00
2E	14.00	14.00	14.00	14.00
2F	11.25	12.25	11.25	12.25
G	0.94	0.94	0.94	0.94
H	0.656	0.656	0.656	0.656
J	3.12	3.12	3.12	3.12
K	4.00	4.00	4.00	4.00
N-W	5.88	5.88	3.75	3.75
O	17.66	17.66	17.66	17.66
P	17.66	17.66	17.66	17.66
U	2.375	2.375	1.875	1.875
V	5.62	5.62	3.50	3.50
ES	4.25	4.25	2.00	2.00
BA	5.88	5.88	5.88	5.88
BS	6.12	6.12	6.12	6.12
AA	3.00	3.00	3.00	3.00
AB	16.81	16.81	16.81	16.81
AC	13.00	13.00	13.00	13.00
AF	6.75	6.75	6.75	6.75
R	2.021	2.021	1.591	1.591
S	0.625	0.625	0.500	0.500
Approx. Ship Wt. (Lbs.)	800	875	800	875

**Notes**

- (D) Frames 143T-326T + .000-.032  
 Frames 364T-449T + .000-.062
- (S) .188 to .750 + .002-.000  
 Over .750 to 1.500 + .003-.000
- (U) .750 to 1.500 + .000-.0005  
 Larger than 1.500 = .000-.001
- (V) Shaft length available for coupling,  
 pinion or pulley hub.

**Certified Print**

CUSTOMER		P.O.#	S.O.#	
H.P.	R.P.M.	FRAME	PH	HZ
BY:		DATE:		