

Section 200 - Weights

200 - Propulsion													
Spec No.	Item	Size	Unit Weight lb/unit	Units units	Qty	Category Weight LT	Sub-cat Weight LT	Item Weight lb	LCG ft-FR 0	TCG ft-CL +s	VCG ft-ABL	C/E/A	Remarks
200	Propulsion Subtotal					216.6		485074	143.92	-2.49	16.67		
230	Propulsion Units					159.7							
235	Electric						159.7						
	Azipod		114639	each	2			229278	180	0	12	E	Vendor: ABB
	Main Genset	1600 kW	35000	each	3			105000	109	5	10	E	Vendor: ABB/T.B.D.
	JW Waste Heat Exchanger		400	each	3			1200	124	0	12		
	JW Pumps		100	each	3			300	124	0	12		
	Aux Genset	800 kW	22000	each	1			22000	112	-15	10	E	Vendor: ABB/T.B.D.
240	Transmission & Propulsor Systems					2.0							
241	Reduction Gears												
242	Clutches/Couplings												
243	Shafting												
244	Bearings												
245	Propulsors												
246	Shrouds Ducts												
247	Water Jet Propulsor												
248	Fans And Ducts Lift Systems						2.0						
	Genset - Combustion Air Ductwork, Main Genset	14", 11 gage	925	each	4			3700	110	-12	10	E	
	Genset - Combustion Air Ductwork, 1/2 size Genset	10", 11 gage	700	each	1			700	110	-12	10	E	
250	Propulsion Support Sys. (Except Fuel & L.Oil)					50.8							
251	Combustion Air Supply												
252	Machinery Control Stations												
253	Main Steam System												
254	Main Condensers												
255	Feed Condensate System												
256	Circulating Cooling Water						5.3						
	Azipod FW/Air Radiator Cooling Unit		700	each	2			1400	174	0	21	E	Vendor: ABB
	Chilled Water System, Piping	3", Copper Tube "K"	4	ft	800			3200	90	0	38	E	
	Freshwater in Chilled Water System, Piping		62.4	ft ³	39			2450	90	0	38		
	Insulation for Chilled Water System, Piping							300	90	0	38		
	Genset Seawater Cooling - Dry, Piping	5" Class 200 CuNi	9	ft	250			2250	100	0	10	E	
	Seawater in Genset Cooling Piping		64	ft ³	34			2182	100	0	10		
257	Jacket Water Waste Heat System						4.9						
	Generator Fresh Water Cooling (Dry) Piping	5" Sch 40	15	ft	250			3750	100	0	10	E	
	Freshwater in Generator Cooling Piping		62.4	ft ³	34			2127	100	0	10		
	Generator Fresh Water Cooling (Dry) Heat Exchangers		500	each	10			5000	104	0	10	E	
258	HP Steam Drain System Auxiliary Steam												

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200	Propulsion Subtotal					216.6		485074	143.92	-2.49	16.67		
259	Uptakes (Inner Casing)						40.6						
	Exhaust Silencer (waste heat boiler)		20000	each	3			60000	120	-19	38	E	Vendor: Maxim, Supply With Generator
	Aux Genset Silencer		5000		1			5000	115	-14	38	E	Vendor: Maxim
	Generator Exhaust Pipe	1500 kW, 16" D Sch 20	53	ft	360			19000	116	-6	38	E	
	Insulation around 16" Exhaust Piping							1500	116	-6	38	E	
	Generator Exhaust Pipe	750 kW, 12" D Sch 20	32	ft	100			3200	106	-12	38	E	
	Insulation around 12" Exhaust Piping							300	106	-12	38	E	
	Emergency Genset Systems, Exhaust Silencer	MSA 2, 8"	300	each	1			300	124	-2	38	E	
	Emergency Genset Systems, Exhaust Piping	8" Sch 40	29	ft	60			1740	124	-2	38	E	
	Insulation for 8" Emergency Exhaust Piping							125	124	-2	38	E	
260	Propulsion Support Sys. (Fuel & Lube Oil)					3.0			36				
261	Fuel System						1.6						
	Fuel Oil Purifier (centrifuge)	5 HP	500	each	2			1000	84	19	12	E	Vendor: Alfa-Laval
	Fuel Oil Manifold		250	each	1			250	127	3	12	E	Vendor: Yard Fabrication
	Primary Fuel Oil Duplex Filter		200	each	5			1000	84	19	12	E	Vendor: Racor
	Fuel Oil Transfer Pump	60 gpm, 100' TDH, 5HP	400	each	2			800	82	19	12	E	Vendor: Aurora
	Secondary Simplex Strainer		50	each	5			250	84	19	12	E	Vendor: Mueller
	Emergency Genset Systems, Fuel Oil Service, Piping	3/4" Sch 80	2	ft	133			200	144	-2	42	E	
	Diesel Fuel in Fuel Oil Service Piping		54	ft ³	0			27	144	-2	42	E	
	Genset F.O. Service, Piping	1 1/2" Sch 80	4	ft	375			1350	100	0	19	E	
	Seawater in Genset F.O. Service Piping		64	ft ³	5			295	100	0	19	E	
	Genset F.O. Service, Filters		100	each	5			500	106	0	10	E	
262	Lube Oil System						0.1						
	Azipod Lube Oil Pump		100	each	2			200	170	0	21	E	Vendor: ABB, ABB Supplied
263	Shaft Lube Oil System												
264	Lube Oil Fill, Transfer, And Purifier System						1.4						
	Lube Oil Transfer Pump	25 gpm, 100' TDH, 1 HP	300	each	2			600	85	-18	12	E	Vendor: Aurora
	Lube Oil Cooler		500	each	5			2500	84	-19	12	E	Vendor: Aurora
	Waste Oil Transfer Pump		100	each	1			100	82	-18	12	E	
290	Special Purpose Systems												
	298	Operating Fluids											
	299	Repair Parts											

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