



**600 Gallon  
Kettle**

Qty/ Unit	U/M	SPEC	Sheets	A&B Part No (Blank if No Part #)	Vendor Part # (For Custom Item)	Description	Tag #:
						<b>TOP SHELL SECTIONS - omega to supply 16 ga 316L</b>	
	LBS		1	1411190301-1#	1	3/16x60x120 PLATE MILL FINISH, 2205 DUPLEX, POLISHED BOTH SIDES 100RA ONE SIDE/30RA OPPOSITE	
						<b>SHELL STRAIGHT SECTION</b>	
	LBS		1	1411190301-2#	1	3/16x48x96 PLATE MILL FINISH, 2205 DUPLEX, POLISHED BOTH SIDES 100RA ONE SIDE/30RA OPPOSITE	
						<b>BOTTOM CONE SECTION</b>	
	LBS		1	1411190301-3#	1	3/16x48x120 PLATE MILL FINISH, 2205 DUPLEX, POLISHED BOTH SIDES 100RA ONE SIDE/30RA OPPOSITE	
						<b>TOP HEAD AND AGITATOR BLADES</b>	
	LBS	SA-240-316L	2	1411190301-11#	2	3/8x48x96 PLATE, 20-30RA W/ PVC BOTH SIDES, SA-240-316L	
	LBS	SA-240-316L	1	A123-408D		12GA (0.105) 48x96 SHEET #4/#4 20-30RA SA-240-316L W/ PVC BOTH SIDES	
	LBS	SA-240-316L	1	A123-408D		12GA (0.105) 48x96 SHEET #4/#4 20-30RA SA-240-316L W/ PVC BOTH SIDES	
	LBS	SA-240-316/L	2.5	A253-510D	3	1/4x60x120 PLATE #4/#4 20-30RA SA-240-316/L W/ PVC BOTH SIDES	
4	EA	304		S727-000D		2 13/16 HIGH STD LOCKING TANK HINGE ASSY 304	
3	EA	304		S731-000B		TANK COVER HANDLE 304	
						<b>OMEGA LASER WELDING</b>	
2	EA			1411190301-4#		Flat, Uninflated, Single Embossed Laser-Panel (Shell) Radius cut Jacket: 16 Ga. SA-240-316L; Shell: 3/16" 2205 Duplex SS 100Ra/Mill Partial ASME-Code, rated for: MAWP: 150 PSI @ 400°F MDMT: -20°F @ 150 PSI Panel medium is STEAM	
1	EA			1411190301-5#		Flat, Uninflated, Single Embossed Laser-Panel (Shell) Jacket: 16 Ga. SA-240-316L; Shell: 3/16" 2205 Duplex 100Ra/Mill Partial ASME-Code, rated for: MAWP: 150 PSI @ 400°F MDMT: -20°F @ 150 PSI Panel medium is STEAM	
1	EA			1411190301-6#		Flat, Uninflated, Single Embossed Laser-Panel (Shell) Jacket: 16 Ga. SA-240-316L; Shell: 3/16" 2205 Duplex 100Ra/Mill Partial ASME-Code, rated for: MAWP: 150 PSI @ 400°F MDMT: -20°F @ 150 PSI Panel medium is STEAM	
1	EA			1411190301-7#		Flat, Uninflated, Single Embossed Laser-Panel (Half Head Section) Jacket: 16 Ga. SA-240-316L; Shell: 3/16" 2205 Duplex 100Ra/Mill Partial ASME-Code, rated for: MAWP: 150 PSI @ 400°F MDMT: -20°F @ 150 PSI Panel medium is STEAM	
1	EA			1411190301-8#		Flat, Uninflated, Single Embossed Laser-Panel (Half Head Section) Jacket: 16 Ga. SA-240-316L; Shell: 3/16" 2205 Duplex 100Ra/Mill Partial ASME-Code, rated for: MAWP: 150 PSI @ 400°F MDMT: -20°F @ 150 PSI Panel medium is STEAM	
						<b>GEAR DRIVES</b>	
1	EA			1411190301-9#		NORD GEARMOTOR, SK9072.1AFB-132MH/4-NSDX3 79.69, HELICAL BEVEL UNIT, 22RPM @ 10 Hp 332/575 V, 3.250 HOLLOW SHAFT FOR STACKER UNIT, SHAFT FIXING ELEMENT, FUCHS FM GEAR OIL 220	

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1	EA			1411190301-10#		NORD GEARMOTOR, SK9042.1AFBH-132H/4-NSDX3 47.61, HELICAL BEVEL UNIT, 37RPM @7.5 Hp 332/575 V, 2.1875 HOLLOW SHAFT FOR STACKER UNIT, SHAFT FIXING ELEMENT, FEMALE FLANGE # 168614140, FUCHS FM GEAR OIL 220	
3	EA			1411190301-12#		Black-Finish Steel External Retaining Ring for 3-1/4" Shaft Diameter, MMC# 97633A483, 3.006" ID x .093"	
						<b>OUTER TANK SHELL / OUTER BOTTOM HEAD / BREAST RING/ NOZZLE X ALCOVE</b>	
	LBS	SA-240-304	3	A121-410B		12GA (0.105) 48x120 SHEET #4 20-30RA/2B SA-240-304/L W/ PVC #4 SIDE	
						<b>SUPPORT RINGS</b>	
	LBS	SA-240-304/L	1	A375-408E		3/8x48x96 PLATE MILL FINISH SA-240-304/L	
						<b>INSULATION</b>	
1.50	ROLL	4# DENSITY		S913-FI10		1 THK FIBERGLASS TANK WRAP FSK 100 SQFT 4# DENSITY	
0.25	GAL	THURMALOX		S913-TH70		THURMALOX 70 500 SQFT PER GAL	
1	EA			1411190301-13#		.40" THK PYROGEL INSULATION 2FT X 20FT	
						<b>FLOOR RING LIP/ TANK REPAD</b>	
	LBS	SA-240-304	0.5	A101-408A		10GA (0.135) 48x96 SHEET PRIME 2B/2B SA-240-304/L W/ PVC BOTH SIDES	
						<b>LIFTING LUGS</b>	
2	EA	SA-240-304		S711-0038		3/8 THK x 3 1/4 x 10 LIFT LUG CAPACITY #2500 SA-240-304	
						<b>SLINGER</b>	
1	EA	RUBBER		S311-000X		7 OD x 6 1/2 ID AGITATOR DEFLECTOR HOOD NATURAL WHITE RUBBER; C of C must meet FDA reg 21 CFR 177.1680 & 21 CFR 177.2600	
						<b>INNER TURBINE ASSEMBLY AND DRIVE SHAFT</b>	
3	FT			1411190301-14#		3.5" OD X .50 WALL MECHANICAL TUBE SA-479-316L	
3	FT			1411190301-15#		FLAT BAR, 1" X 3" FLAT BAR SA-240-316L	
1	EA			1411190301-16#		BRONZE BEARING, 2.500" OD X 2" SHAFT X 2" LONG, GROOVED SLEEVE BEARING	
2	EA			1411190301-17#		O-RING, 3/32" X 2.1875" ID DASH # A-139, NEOPRENE	
2	EA			1411190301-18#		O-RING, .139" X 3" CENTER LINE, NEOPRENE	
1	pkg			1411190301-19#		O-RING, DASH# 233, 1/8" (.139") NEOPRENE	
1	pkg			1411190301-20#		O-RING, DASH# 226, BUNA MCMaster-CAR# 9452K64	
0.50	FT	SA-479-316L		B002-000U		3 1/2 RND BAR SA-479-316L	
4	EA			1411190301-21#		HARDWARE, 1/4-20 UNC X 1" LG FLAT HEAD MACHINE SCREW STAINLESS STEEL	
1	EA			1411190301-22#		GREASE ZERT(FITTING) 1/8" NPT THREAD, STRAIGHT, STAINLESS STEEL	
1.00	FT	SA-479-316L		B002-000X		6 RND BAR SA-479-316L	
5.00	FT	SA-479-316L		B002-000S		2 1/2 RND BAR SA-479-316L	
3	FT			1411190301-23#		4.0 OD X 2.5" ID MECHANICAL TUBE SA-479-316L	
	LBS	SA-240-316L	1	1411190301-24#		3/8x48x96 PLATE, 20-30RA W/ PVC BOTH SIDES, SA-240-316L	
						<b>OUTER SWEEP ASSEMBLY AND DRIVE SHAFT</b>	
6	FT			1411190301-27#		FLAT BAR, 1" X 3" FLAT BAR SA-240-316L	

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20	FT			1411190301-28#		FLAT BAR, 3/4" X 3" FLAT BAR SA-240-316L	
1	EA	316L		S160-000R		2 QUICK CHANGE GUIDE BEARING ASSY 316L INCLUDES HOUSING & INSERT DWG# GBQ3160200-WARRANTY AND REPLACEMENT ONLY	
	LBS	SA-240-316/L	0.5	A376-408E		3/8x48x96 PLATE MILL FINISH SA-240-316/L	
10.00	SQFT	SA-240-316/L		A503-000E		1/2 OFFAL PLATE SA-240-316L	
	LBS	SA-240-316/L	6	A753-000E		3/4 PLATE MILL FINISH SA-240-316/L (32.12#/SQFT)	
1	FT			1411190301-29#		FLAT BAR, 1/2" X 1/2" FLAT BAR SA-240-316L	
4.00	FT	SA-479-316L		B002-000S		2 1/2 RND BAR SA-479-316L	
36.00	FT	SA-479-304/L		B001-000A		3/16 RND BAR SA-479-304/L	
						<b>SQ. TO RND TRANS</b>	
	LBS	SA-240-316L	1	A123-508D		12GA (0.105) 60x96 SHEET #4/#4 20-30RA SA-240-316L W/ PVC BOTH SIDES	
	LBS	SA-240-316/L	0.375	A253-508D		1/4x60x96 PLATE #4/#4 20-30RA SA-240-316/L W/ PVC BOTH SIDES	
1.00	FT	A-270-316L		P513-001Q		1 1/2 WLD TUBE 16GA 0.065 32RA ID 32RA OD #7 A-270-316L	
1	EA			1411190301-30#		HOLD DOWN CLAMP DE-STA-CO MODEL # 351 MATERIAL TO BE STAINLESS STEEL 304	
	LBS	SA-240-316L	1	A123-408D		12GA (0.105) 48x96 SHEET #4/#4 20-30RA SA-240-316L W/ PVC BOTH SIDES	
1	EA	304		S700-200R		2x50x14GA PIANO HINGE #1582A416 304	
						<b>GEARMOTOR CATCH PAN</b>	
1.00	SQFT	SA-240-316/L		A103-000D		10GA (0.135) OFFAL SHEET #4/#4 20-30RA SA-240-316/L W/ PVC BOTH SIDES	
0.50	FT	A-270-304		P503-001J		3/4 WLD TUBE 16GA 0.065 30RA ID 30RA OD #7 A-270-304	
3.50	SQFT	SA-240-316L		A123-000D		12GA (0.105) OFFAL SHEET #4/#4 20-30RA SA-240-316L W/ PVC BOTH SIDES	
0.25	FT	SA-479-304/L		B001-000N		1 RND BAR SA-479-304/L	
4	EA	18-8		1411190301-31#		1/2-13UNCx1" LG HHCS 18-8	
						<b>TOP RING</b>	
20	FT	SA-479-304/L		B066-000R		1x2 TRUE FLAT BAR SA-479-304/L	
						<b>A</b>	
1.00	FT	A-778-316L		P177-140V		4 WLD TUBE 14GA 0.083 A-778-316/L	
						<b>D</b>	
						<b>OUTLET FLANGES</b>	
1	EA	SA-240-316/L		1411190301-53#		1 5/8" THICK PLASMA CUT RING FOR OUTLET FLANGE, 29.75" OD (+1/4, - 0")X 22.31" ID (+0, - 1/4)	
1	EA	SA-240-316/L		1411190301-54#		1 1/8" THICK PLASMA CUT RING FOR OUTLET FLANGE, 29.75" OD (+1/8, - 0") X 18.84" ID (+0, - 1/8)	
1	EA			1411190301-35#		FLAT GASKET - 28.75" OD X 22.25" ID, WITH (16) 7/8" DIAMTER HOLES ON A 27.302" BOLT CIRCLE, 1/8" THK VITON	
16	EA			1411190301-36#		THREADED STUD 7/8-9 UNC X 3 1/2" LG STUD, 18-8 STAINLESS STEEL MATL	
16	EA			1411190301-37#		HEX NUT, 7/8-9 UNC, 18-8 STAINLESS STEEL MATL	
16	EA			1411190301-38#		7/8" DIA LOCK WASHER, 18-8 STAINLESS STEEL MATL	
8	EA			1411190301-39#		HEX HEAD CAP SCREW, 7/16 -14UNC X 2 1/2" LG, 18-8 STAINLESS STEEL MATL	
8	EA			1411190301-40#		HEX NUT, 7/16-14 UNC, 18-8 STAINLESS STEEL MATL	
4	EA			1411190301-41#		THREADED STUD 5/8-11 UNC X 3 1/4" LG STUD, 18-8 STAINLESS STEEL MATL	
4	EA			1411190301-42#		ACORN HEX NUT, 5/8-11 UNC, 18-8 STAINLESS STEEL MATL	

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4	EA			1411190301-43#		5/8" DIA LOCK WASHER, 18-8 STAINLESS STEEL MATL	
8	EA			1411190301-44#		HEX HEAD CAP SCREW, 1/2-20UNC X 1 1/2" LG, 316L STAINLESS STEEL MATL	
8	EA			1411190301-45#		ACORN HEX NUT, 1/2-20 UNC, 316L STAINLESS STEEL MATL	
8	EA			1411190301-46#		1/2" DIA LOCK WASHER, 18-8 STAINLESS STEEL MATL	
1	FT			1411190301-47#		ANGLE, 2" X 2" X 3/8" THK SA-479-316L	
						<b>STEAM SPARGER HEADER</b>	
16.00	FT	SA-312-304 & 304L		P153-001R		2 WLD PIPE SCH 40S SA-312-304/L	
1	EA	SA-403WP-304		F152-009R		2 PIPE BW TEE WLD SCH 40S SA-403WP-304/L	
1	EA	SA-182F-304		U151-028R		2 PIPE RFWN FLG 150# SCH 40S SA-182F-304/L	
6	EA	SA-182F-304		F168-034J		3/4 PIPE FNPT FULL CPLG 3000# SA-182F-304/L	
3	EA	PVC		H525-003R		2 PIPE HANGER ASSY PVC	
6.00	FT	A-479-304		B052-00SS		2 1/2x2 1/2x1/4 ANGLE A-479-304	
						<b>E</b>	
1	EA	SA-182F-316L		U154-028X		6 PIPE RFSO FLG 150# SA-182F-316/L	
1.00	FT	SA-312-316 & 316L		P166-001X		6 WLD PIPE SCH 40S SA-312-316/L	
						<b>F</b>	
1	EA			1411190301-48#		LAG IND. THERMOWELL 7 1/2" INSERTION LENGTH 1/2" MNPT	
						<b>R, T</b>	
10.00	FT	SA-312-316 & 316L		P166-001Q		1 1/2 WLD PIPE SCH 40S SA-312-316/L	
						<b>FORMED JUMPERS OF 316L</b>	
	SQFT	SA-240-316/L	4	A073-000A		7GA (0.187) OFFAL SHEET PRIME 2B/2B SA-240-316/L W/ PVC BOTH SIDES	
						<b>S, U</b>	
10.00	FT	SA-312-316 & 316L		P166-001R		2 WLD PIPE SCH 40S SA-312-316/L	
1	EA	SA-403WP-316L		F157-006R		2 PIPE BW LR 45 ELL WLD SCH 40S SA-403WP-316/L	
						<b>X</b>	
1	EA			1411190301-49#		INGOLD FITTING - 60MM LONG X 25MM DIAMETER, STAIGHT END, 316L MATERIALS, NEED MTRS AND CRN FOR CANADA	
						<b>Z</b>	
20.00	FT	SA-312-316 & 316L		P171-001Q		1 1/2 WLD PIPE SCH 40S POL OD SA-312-316/L	
1	EA	SA-403WP-316L		F157-004Q		1 1/2 PIPE BW LR 90 ELL WLD SCH 40S SA-403WP-316/L	
1	EA	SA-403WP-316L		F157-004Q		1 1/2 PIPE BW LR 90 ELL WLD SCH 40S SA-403WP-316/L	
2	EA	SA-403WP-316L		F157-006Q		1 1/2 PIPE BW LR 45 ELL WLD SCH 40S SA-403WP-316/L	
1	EA	SA-403WP-316L		F157-26RQ		2x1 1/2 PIPE BW CON RED WLD SCH 40S SA-403WP-316/L	
1	EA	SA-182F-316L		U154-028R		2 PIPE RFSO FLG 150# SA-182F-316/L	
1.50	FT	SA-479-316L		B002-000D		3/8 RND BAR SA-479-316L	
8	EA	SA-403WP-316L		F157-25QN		1 1/2x1 PIPE BW ECC RED WLD SCH 40S SA-403WP-316/L	
2.00	FT	SA-312-316 & 316L		P166-001N		1 WLD PIPE SCH 40S SA-312-316/L	
14	EA			1411190301-50#		ALLEN HEAD BOLT, M12X1.75 - 50MM LONG STAINLESS STEEL	
8	EA			1411190301-51#		M16X2.0 - 50 MM LONG THREADED STUD STAINLESS STEEL	

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8	EA			1411190301-52#		M16X2.0 ACORN NUT STAINLESS STEEL	
3	EA	304		S707-0800		8x5 1/2 LEG PAD FOR PIPE UP TO 3 304	
1	EA			1411190301-55#		5/8" x 3/4" Steel Key Stock x 12" long	
	LBS	SA-240-304/L	1	A121-408A		12GA (0.105) 48x96 SHEET PRIME 2B/2B SA-240-304/L W/ PVC BOTH SIDES	
3	EA			1411190301-56#		GEARDRIVE TO MOTOR GASKET-INPUT 300S SK52 T=0.8 P/N 51597020	