

ITEM NO.	QTY.	DESCRIPTION	SERVICE
1	1	21" X 17" INSWING MANWAY HINGE ON LEFT HAND	SIDE MANWAY
2	1	3" SCH. 10 PIPE X 6" LONG	BOTTOM DRAIN PORT
3	1	3"- 150# RF&SO FLANGE	BOTTOM DRAIN PORT
4	1	3/4" NPT 150# HALF COUPLING	LOWER SIGHT GLASS
5	1	3/4" NPT 150# HALF COUPLING	UPPER SIGHT GLASS
6	1	1" NPT HALF COUPLING -	NUTRIENT TANK FILL/SPARE
7	6	MOUNTING BRACKET - SEE SIGHT GLASS BRKT DETAIL ON SHT #3	SIGHT GLASS BOARD
8	4	3 1/2" - 150# RF&SO FLANGE	COOLING COILS
9	1008 FT.	3 1/2" SCH. #10 PIPE X 1121' OVERALL COIL LENGTH - NOTE: (2)- COILS TOTAL - 1174 SQ FT SURFACE AREA	COOLING COILS
10	AS RECD	2" X 2" X 1/4" ANGLE - BAFFLE SUPPORTS	COOLING COILS
11	1	4" - 150# RF&SO FLANGE -	SIDE DISCHARGE PORT
12	1	4" SCH. #10 PIPE X 9" LONG -	SIDE DISCHARGE PORT
13	2	4" - 150# RF&SO FLANGE -	AIR INLET
14	1	4" SCH. #10 PIPE DIP TUBE WITH ELBOWS	AIR INLET
15	2	2" - 150# RF&SO FLANGE -	MASH INLET
16	1	2" SCH. #10 PIPE DIP TUBE WITH ELBOWS	MASH INLET
17	1	3/16" THICK. X 3" WIDE X 49-8/7" LONG / ROLLED TO 16" O.D. COLLAR -	TOP MANWAY
18	1	1/4" THICK. X 1-1/2"W FLAT BAR / ROLLED THE HARD WAY TO 16" I.D. FLANGE.	TOP MANWAY
19	1	19" O.D. PLEXIGLASS COVER X 1/2" THK. -	TOP MANWAY
20	1	3/16" THK. X 3"W X 68-3/4" LG. / ROLLED TO 22" O.D. COLLAR -	EXHAUST AIR
21	1	1/4" THK. X 1-1/2"W FLAT BAR / ROLLED THE HARD WAY TO 22" I.D. FLANGE -	EXHAUST AIR
22	1	6" SCH #40 PIPE -	EXHAUST AIR
23	1	6"-150# RF&SO FLANGE -	EXHAUST AIR
24	1	1-1/2" THK. X 19-1/4" I.D. X 24-1/4" O.D. - SEE DETAIL "C" ON SHEET #4	DRIVE UNIT MOUNTING FLANGE
25	8	3/4" THK. X 18" SQ. LEG SOLE PLATES - SEE DETAIL ON SHEET #2	TANK LEGS
26	8	8" SCH. #40 PIPE LEGS	TANK LEGS
27	8	3/8" THK. X 12"W X AS REQUIRED LG. LEG BACKER PADS	TANK LEGS
28	4	1/4" THICK X 156" LONG COIL SUPPORT BAFFLE	TANK BAFFLES
29	1	1 1/2" SCH 10 PIPE - HAND RAIL	TANK ACCESS
30	1	24" W X 36" LG. CATWALK SECTION - SHIPPED LOOSE	TANK ACCESS
31	1	1/4" X 1" LG. NPT HALF NIPPLE - AUTO SAMPLER BY OTHERS -	AUTO SAMPLER
32	1	1/2" NPT 150# HALF COUPLING	THERMOMETER PORT
33	1	SPECIAL FITTING W/ EXTERNAL THREADS - SUPPLIED BY NAKANO -	FRINGS ALKOSENSE PROBE
34	1	SPECIAL FITTING W/ INTERNAL THREADS - SUPPLIED BY NAKANO -	FRINGS ACETOMAT RTD
35	1	3/4" NPT 150# HALF COUPLING	VENT PORT
36	1	1/2" NPT 150# HALF COUPLING	COOLING RTD
37	1	1/2" NPT 150# HALF COUPLING	MANUAL SAMPLE PORT
38	1	OSHA COMPLIANT CAGED LADDER - SHIPPED LOOSE FOR FIELD INSTALLATION	CAGED LADDER

DESIGN DATA				
VESSEL MATERIAL:	SPEC.	GRADE	THICKNESS/CLASS	NOTES
SHELL:	SA-240	316L	10 GA. (.135)	143" ID X 276" SHELL LENGTH
BOTTOM HEAD (F&D):	SA-240	316L	1/2"	144" O.D. , 2 1/4" KR, 1 1/2" SF
TOP HEAD (CONICAL)	SA-240	316L	10 GA.	143" ID. , 1" KR,
PRODUCT CONTACT PIPE:	SA-312	TP316 WLD.	SCHED. 40	
PRODUCT CONTACT FLANGES:	SA-182	F316L	150#	
PRODUCT CONTACT TUBING:	SA-249	TP 316L WLD.		
INSWING MANWAY RIM:	SA-240	316L		
INSWING MANWAY DOOR:	SA-240	316L		
COUPLINGS:	SA-182	316L	150 #	
BAFFLES:	SA-240	316L	1/4" PLATE	
INTERNAL COOLING COIL:	SA-312	TP316L WLD.	3" SCHED. 10	
SUPPORT LEGS:	SA-312	TP304 WLD.	8" SCHED. 40	
FOOT PADS:	SA-240	304	3/4"	
LEG BACKER PADS:	SA-240	304	3/8"	
HAND RAIL PIPE:	SA-312	TP304 WLD.	1 1/2" SCH 10	
BOLTING:		304		
TOE PLATE:	SA-240	304		
GASKET MATERIAL:		TEFLON		
-			-	

- NOTES:
- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
  - ALL PRODUCT CONTACT SURFACES TO BE TYPE 316 S.S. ALL EXTERNAL MATERIAL TO BE TYPE 304 S.S.
  - COVER ALL NOZZLES WITH PROTECTORS FOR SHIPMENT.
  - ALL GROOVE & BUTT WELDS TO BE FULL PENETRATION UNLESS NOTED OTHERWISE.
  - ALL EXTERNAL PIPING TO BE SUPPORTED INDEPENDENT OF VESSEL NOZZLES.
  - COMPLETE DOCUMENTATION IS TO BE PROVIDED.
  - ALL WELDS I.D. & O.D. TO BE POLISHED ONLY TO REMOVE WELD DISCOLORATION.
  - CALCULATED EMPTY WEIGHT OF VESSEL IS 18,975 LBS.

A9

QUOTE N 9 -		P.O. No. -	
JBF STAINLESS			
DRAWN BY: JKM	ENGRG. Approved By	REV -	
DATE 5/16/16		SHEET: 1 of 3	
18,000 GALLON ACETATOR			
SOLD TO:	MIZKAN AMERICAS		
1661 FEEHANVILLE DR., SUITE 300 MT. PROSPECT IL 60056			
SHIP TO:	-		DRAWING NO. PRELIM

This document was created with Win2PDF available at <http://www.win2pdf.com>.  
The unregistered version of Win2PDF is for evaluation or non-commercial use only.  
This page will not be added after purchasing Win2PDF.