

| 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 | | |
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- 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.

A10

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| QUOTE N ❷ - | | 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 |

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