

JOB 877 INSTRUMENTATION AND MAJOR EQUIPMENT SPECIFICATION SHEET

| ITEM | NO. | DRAWING | PURPOSE | BRAND | DESCRIPTION |
|--------------------|------------|---------|--|------------------|---|
| INSTRUMENTS | | | | | |
| DTCV | 120 | 877-110 | CHILLER SUPERHEAT CONTROL VALVE | FISHER | NPS 2 D4, 2", 300# CONN, 1/2" MICRO-FORM TRIM, SIZE 40 ACT, 6-30 PSIG INPUT, SS, GOOD FOR -55°F |
| FCV | 210 | 877-120 | DE-BUT. REFLUX FLOW CONTROL | FISHER | NPS 1 D4, 150# FLG CONN, 1/2" MICRO-FORM TRIM, SIZE 40 ACT, 6-30 PSIG INPUT |
| FCV | 450 | 877-116 | LPG LOADING LINE "SNAPPY JOE" | FISHER | N55024 "SNAPPY JOE" EMERGENCY SHUTOFF VALVE, 3" THD. |
| FCV | 710 | 877-112 | MAIN GAS PLANT BYPASS VALVE | KIMRAY | 4" 418FGT BP REGULATOR (AAX), |
| FE | 210 | 877-112 | DE-BUT. REFLUX RATE MEASUREMENT | DANIELS/ADLER | 2", 300# ORIFICE FLANGE UNION, RF WELDED ENDS W/STUDES, NUTS AND JACKSCREWS, 2" PADDLE TUPE ORIFICE PLATE, 304 SS, 1/8" TK, 5/8" BORE |
| FE | 630 | 877-117 | FUEL GAS METER | DANIELS | SIMPLEX ORIFICE METER TUBE, 2" 600#, SCH 40, UPSTREAM 36" LENGTH, DOWNSTREAM LENGTH 30", 3" 300# PADDLE TYPE ORIFICE PLATE, 304 SS, 1/8" THK, NOT BORED |
| FE | 680 | 877-117 | INLET GAS METER | DANIELS/ADLER | 6", 300# ORIFICE FLANGE UNION, RF WELDED ENDS W/STUDES, NUTS AND JACKSCREWS, 6" PADDLE TUPE ORIFICE PLATE, 304 SS, 1/8" TK, NOT BORED 5/8" BORE |
| FE | 690 | 877-117 | RESIDUE GAS METER | DANIELS/ADLER | 3", 300# ORIFICE FLANGE UNION, RF WELDED ENDS W/STUDES, NUTS AND JACKSCREWS, 3" PADDLE TUPE ORIFICE PLATE, 304 SS, 1/8" TK, NOT BORED |
| FSL | 210 | 877-112 | DE-BUT. PUMPS FLOW SWITCH LOW | FCI | FS2000-A1A3C2, NUTEC 2000 INSERTION FLOW SW, 2" INSERTION LENGTH, 3/4" M-NPT PROCESS CONN, 24VDC, SPDT RELAY, LIQ. APPLICATION |
| FSL | 390 | 877-114 | GLY. INJECTION PUMPS FLOW SWITCH LOW | FCI | FS2000-A1A3C2, NUTEC 2000 INSERTION FLOW SW, 2" INSERTION LENGTH, 3/4" M-NPT PROCESS CONN, 24VDC, SPDT RELAY, LIQ. APPLICATION |
| FSV | 430 | 877-116 | LPG STORAGE TK V-430 EXCESS FLOW VALVE | FISHER | C477-24-46, 3" THD INTERNAL |
| FSV | 440 | 877-116 | LPG STORAGE TK V-440 EXCESS FLOW VALVE | FISHER | CUSTOMER SUPPLIED |
| FT | 180 | 877-112 | CONDENSATE TO STORAGE RATE TRANS. | CAMRON | 9A-100003532, 1/2" .75 TO 7.5 GPM, 1" CONN WITH 9A-100002077 PICK UP, AND MC-II PLS EXP 9A-10100104 FLOW ANLZR |
| FT | 200 | 877-112 | LPG TO STORAGE RATE TRANSMITTER | CAMRON | 9A-100003389, 7/8" 3 TO 30 GPM, 1" CONN WITH 9A-100002077 PICK UP, AND MC-II PLS EXP 9A-10100104 FLOW ANLZR |
| FT | 210 | 877-112 | DE-BUT. REFLUX RATE TRANSMITTER | ROSEMOUNT | 2051CD2A02A1AS5E5M5 STYLE 2051C, 00-15PSIG RANGE, 4-20mAmp OUTPUT WITH DISPLAY |
| FT | 630 | 877-117 | FUEL GAS METER DIFF. PRESS. TRANSMITTER | FISHER ROSEMOUNT | FB 103 WITH DISPLAY, BATTERY PACK, INTEGRAL 800 PSIG SENSOR, 100-OHM RTD, AND 10W SOLAR PANEL WITH MOUNT. |
| FT | 680 | 877-117 | INLET GAS METER DIFF. PRESS. TRANSMITTER | FISHER ROSEMOUNT | FB 103 WITH DISPLAY, BATTERY PACK, INTEGRAL 800 PSIG SENSOR, 100-OHM RTD, AND 10W SOLAR PANEL WITH MOUNT. |
| FT | 690 | 877-117 | RESIDUE GAS METER DIFF. PRESS. TRANSMITTER | FISHER ROSEMOUNT | FB 103 WITH DISPLAY, BATTERY PACK, INTEGRAL 800 PSIG SENSOR, 100-OHM RTD, AND 10W SOLAR PANEL WITH MOUNT. |
| FY | 210 | 877-112 | DE-BUT. REFLUX CONTROL VALVE I/P | FISHER | |
| LCV | 100 | 877-110 | INLET SEPARATOR LEVEL CONTROL VALVE | FISHER | NPS 1 D4, 1" THD CONN, 1/4" MICRO-FORM TRIM, SIZE 40 ACT, 6-30PSIG INPUT, |
| LCV | 130 | 877-110 | COLD SEP. HC LEVEL CONTROL VALVE | FISHER | NPS 1 D4, 1" THD CONN, 3/8" MICRO-FORM TRIM, SIZE 40 ACT, 6-30PSIG INPUT, GOOD FOR -55°F |
| LCV | 131 | 877-110 | COLD SEP. GLY. LEVEL CONTROL VALVE | FISHER | NPS 1 D4, 1" THD CONN, 1/4" MICRO-FORM TRIM, SIZE 40 ACT, 6-30PSIG INPUT, GOOD FOR -55°F |
| LCV | 140 | 877-111 | DE-ETH. TOWER LEVEL CONTROL VALVE | FISHER | NPS 1 D4, 1" THD CONN, 3/8" MICRO-FORM TRIM, SIZE 40 ACT, 6-30PSIG INPUT |
| LCV | 180 | 877-112 | DE-BUT. TOWER LEVEL CONTROL VALVE | FISHER | NPS 1 D4, 1" THD CONN, 1/4" MICRO-FORM TRIM, SIZE 40 ACT, 6-30PSIG INPUT, GOOD FOR 300° F |
| LCV | 510 | 877-118 | GAS COMP. INLET SEP. LEVEL CONTROL VALVE | VENDOR SUPPLIED | |
| LCV | 520 | 877-118 | GAS COMP. 2ND STAGE SEP. LEVEL CONTROL V | VENDOR SUPPLIED | |
| LCV | 530 | 877-118 | GAS COMP. 3RD STAGE SEP. LEVEL CONTROL V | VENDOR SUPPLIED | |
| LCV | 600 | 877-117 | SDK SITE KOD LEVEL CONTROL VALVE | KIMRAY | MOD. 1400 SMT 1/2" NTR, (EAU), 1" THD, 1/2" TRIM, 6-30 PSIG INPUT |
| LCV | 700 | 877-120 | SDK PRODUCTION UNIT WATER LEVEL CONTROL V | KIMRAY | 2" 125# BAL MRT. VALVE (EWA) 60-30 PSIG INPUT |
| LCV | 701 | 877-120 | SDK PRODUCTION UNIT HC LEVEL CONTROL VAL | KIMRAY | 2" 125# BAL MRT. VALVE (EWA) 60-30 PSIG INPUT |
| LCV | 710 | 877-120 | PERTAMINA SITE KOD LEVEL CONTROL VALVE | KIMRAY | MOD. 1400 SMT 1/2" NTR, (EAU), 1" THD, 1/2" TRIM, 6-30 PSIG INPUT |
| LG | 100 | 877-110 | INLET SEPARATOR LEVEL GAGE | INFERNO | R100-16 AANAABCAA AND FT15 VALVES |
| LG | 130 | 877-110 | COLD SEP. HC LEVEL GAGE | INFERNO | TA-25 BAALLBCAF AND FT-15-SPH-LT VALVES |
| LG | 131 | 877-110 | COLD SEP. GLY LEVEL GAGE | INFERNO | TA-25 BAALLBCAF AND FT-15-SPH-LT-LS VALVES |
| LG | 140 | 877-111 | DE-ETH. TOWER LEVEL GAGE | INFERNO | R-100-19 AANAABCAA AND FT-15 VALVES |

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| ITEM | NO. | DRAWING | PURPOSE | BRAND | DESCRIPTION |
|------|-----|---------|---|-----------------|--|
| LG | 180 | 877-112 | DE-BUT. TOWER LEVEL GAGE | INFERNO | R-100-19 AANAABCAA AND FT 15 VALVES |
| LG | 200 | 877-112 | DE-BUT. REFLUX ACCUM. LEVEL GAGE | INFERNO | R-100-19 AANAABCAA AND FT-15 VALVES |
| LG | 280 | 877-113 | REFRIG. ACCUMULATOR LEVEL GAGE | INFERNO | R-100-37 AANAABCAA AND FT-15 VALVES |
| LG | 300 | 877-113 | REFRIG. SUCTION SCRUBBER LEVEL GAGE | INFERNO | RA-19 AANLLBCAF ANDF FT-LT VALVES |
| LG | 310 | 877-113 | REFRIG PROPANE MAKEUP TANK LEVEL GAGE | ROCHESTER GAGE | 5-2733, 88981-4041 M J10 |
| LG | 350 | 877-115 | HOT OIL HEATER LEVEL GAGE | INFERNO | 32.00/12T AND 12T VALVES |
| LG | 370 | 877-114 | GLY. SURGE TANK LEVEL GAGE | INFERNO | 20.00/12T AND 12T VALVES |
| LG | 420 | 877-117 | FUEL SCRUBBER GAGE GLASS | INFERNO | R-100-116 AANAABCAA AND FT-15 VALVES |
| LG | 430 | 877-116 | LPG STORAGE TK V-430 GAGE GLASS | SQUIBB TAYLOR | 130" END MT, 4 BOLT, MASTER VISIBLE, 4102A, LP & NH3 |
| LG | 440 | 877-116 | LPG STORAGE TK V-440 GAGE GLASS | | CUSTOMER SUPPLIED |
| LG | 600 | 877-117 | SDK SITE KOD LEVEL GAGE | INFERNO | R-100-19 AANAABCAA AND FT-15 VALVES |
| LG | 710 | 877-120 | PERTAMINA SITE KOD LEVEL GAGE | INFERNO | R-100-19 AANAABCAA AND FT-15 VALVES |
| LG | 720 | 877-117 | STARTING GAS SCRUBBER LEVEL GAGE | | CUSTOMER SUPPLIED |
| LIC | 100 | 877-110 | INLET SEPARATOR LEVEL CONTROL | CEMCO | 4CSU-LC-O08, 4" HAMMER UNION , PNEUMATIC THROTTLING, OFFSET ROD, 3 DISPLACERS, 6-30 PSIG OUTPUT |
| LIC | 130 | 877-110 | COLD SEPARATOR HC LEVEL CONTROL | NORISEAL | 1001A, 2SM60-STRDL-BG, 316 SS, 2" MNPT, DIRECT ACTING, 6-30 PSIG OUTLET, 316SS DISPLACER, 1.66" X 18". HEAVY LLC SPRING. |
| LIC | 131 | 877-110 | COLD SEPARATOR GLY LEVEL CONTROL | NORISEAL | 1001A, 2SM60-STRDL-BG, 316 SS, 2" MNPT, DIRECT ACTING, 6-30 PSIG OUTLET, 316SS DISPLACER, 1.66" X 18". HEAVY LLC SPRING. |
| LIC | 140 | 877-111 | DE-ETH. TOWER LEVEL CONTROL | NORISEAL | 1001A, 2SM60-TRDF-BG, , 2" MNPT, DIRECT ACTING, 6-30 PSIG OUTLET, 316SS DISPLACER, 1.66" X 18". HEAVY LLC SPRING. |
| LIC | 180 | 877-112 | DE-BUT. TOWER LEVEL CONTROL | NORISEAL | 1001A, 2SM60-TRDF-BG, , 2" MNPT, DIRECT ACTING, 6-30 PSIG OUTLET, 316SS DISPLACER, 1.66" X 18". HEAVY LLC SPRING. |
| LIC | 510 | 877-118 | GAS COMP. 1ST STAGE SCRUBBER LEVEL CONT. | VENDOR SUPPLIED | |
| LIC | 520 | 877-118 | GAS COMP. 2ND STAGE SCRUBBER LEVEL CONT. | VENDOR SUPPLIED | |
| LIC | 530 | 877-118 | GAS COMP. 3RD STAGE SCRUBBER LEVEL CONT. | VENDOR SUPPLIED | |
| LIC | 600 | 877-117 | SKD KOD LEVEL CONTROL | CEMCO | 4CSU-LC-O08, 4" HAMMER UNION , PNEUMATIC THROTTLING, OFFSET ROD, 3 DISPLACERS, 6-30 PSIG OUTPUT |
| LIC | 700 | 877-120 | SDK PRODUCTION UNIT WATER LEVEL CONTROL | KIMRAY | 2" NPT GEN II LIQ LEVEL CONTROLLER (CMM), 6-30 PSIG OUTPUT |
| LIC | 701 | 877-120 | SDK PRODUCTION UNIT HC LEVEL CONTROL | KIMRAY | 2" NPT GEN II LIQ LEVEL CONTROLLER (CMM), 6-30 PSIG OUTPUT |
| LIC | 710 | 877-120 | PERTAMINA SITE KOD LEVEL CONTROL | CEMCO | 4CSU-LC-O08, 4" HAMMER UNION , PNEUMATIC THROTTLING, OFFSET ROD, 3 DISPLACERS, 6-30 PSIG OUTPUT |
| LSH | 130 | 877-110 | COLD SEPARATOR LEVEL SW. HIGH | SOR | 1510B-G5A-C-W9-ES-X, WITH 3" CHAMBER, 316 SS GOOD FOR -55° |
| LSH | 140 | 877-111 | DE-ETH. TOWER LEVEL SW. HIGH | SOR | 1510B-G5A-C-W9-ES-X, WITH 3" CHAMBER, 316 SS GOOD FOR -55° |
| LSH | 180 | 877-112 | DE-BUT. TOWER LEVEL SW. HIGH | SOR | 1510B-G5A-C-W9-ES-X, WITH 3" CHAMBER, 316 SS GOOD FOR -55° |
| LSH | 300 | 877-113 | REFRIG. SUCTION SCRUBBER LEVEL SW. HIGH | SOR | 1510B-2GA-C-W9-ES |
| LSH | 420 | 877-117 | FUEL SCRUBBER LEVEL SW. HIGH | SOR | 1510B-2GA-C-W9-ES |
| LSH | 600 | 877-117 | SDK SITE KOD LEVEL SW. HIGH | SOR | 1510B-2GA-C-W9-ES |
| LSL | 200 | 877-112 | DE-BUT. TOWER REFLUX ACCUM. LEVEL SW. LOW | SOR | 1510B-2GA-C-W9-ES |
| LSL | 350 | 877-115 | HOT OIL HEATER LEVEL SW. LOW | SOR | 1510B-2GA-C-W9-ES |
| PCV | 140 | 877-111 | DE-ETH. TOWER PRESS CONTROL VALVE | FISHER | NPS 1 D4, 1" THD CONNECTIONS, 3/4" PORT, 6-30 PSIG INPUT, SIZE 40 ACT. |
| PCV | 200 | 877-112 | DE-BUT. TOWER PRESS CONTROL VALVE | FISHER | NPS 1 D4, 1" THD CONNECTIONS, 3/8" PORT, 6-30 PSIG INPUT, SIZE 40 ACT. |
| PCV | 320 | 877-115 | HOT OIL PUMPS PRESSURE CONTROL VALVE | FISHER | NPS 2 EZ-667, 2", 150# FLG CONN, 1" PORT, 6-30 PSIG INPUT, SIZE 40 ACT. |
| PCV | 340 | 877-115 | HOT OIL HEATER FUEL GAS PRESS CONTROL V | FISHER | 627, 1" THD, 5-20 PSIG SPRING, 3/16" ORF. |
| PCV | 341 | 877-115 | HOT OIL HEATER PILOT PRESS CONTROL VAL | FISHER | 67CFR, 1/4", 0-35 SPRING, WITH FILTER AND GAGE |
| PCV | 420 | 877-117 | FUEL GAS PRESS CONTROL VALVE | FISHER | 627-640, 1" THD, 70-150 SPRING, 1/4" ORFICE. |
| PCV | 450 | 877-116 | LPG LOADING PUMP P-450 BYPASS VALVE | BLACKMER | BV2A, SET 95 PSI |

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| ITEM | NO. | DRAWING | PURPOSE | BRAND | DESCRIPTION |
|------|-----|---------|--|-----------------|---|
| PCV | 460 | 877-116 | LPG LOADING PUMP P-460 BYPASS VALVE | BLACKMER | BV2A, SET 95 PSI |
| PCV | 510 | 877-118 | GAS COMP. INLET SUCTION PRESS CONTROL VALVE | BRAY | SERIES 41-466 LUG HI PERFORMANCE BFV, 6", 150#, DISC 316, SEAT RTFEW/SILICONE RUBBER ENERGIZER, WITH A BRAY SERIES 93-1285 PNEUMATIC ACTUATOR W/BLX F100PD1 PNEUMATIC POSITIONER, 3-15PSI INPUT |
| PCV | 511 | 877-118 | GAS COMP. MIN. SUCTION CONTROL VALVE | VENDOR SUPPLIED | |
| PCV | 610 | 877-117 | PLANT BACK PRESSURE CONTROL VALVE | KIMRAY | 2" 600#RF MTR. VLV, 7/8" TRIM, (EGT), 6-30 PSIG INPUT, FAIL OPEN |
| PCV | 611 | 877-117 | RESIDUE GAS TO FLARE CONTROL VALVE | KIMRAY | 2" 600#RF MTR. VLV, 7/8" TRIM, (EGT), 6-30 PSIG INPUT FAIL OPEN |
| PCV | 720 | 877-117 | STARTING GAS SCRUBBER PRESS. CONTROL V | FISHER | 627-499, 1" THD, 70-150 SPRING, 1/2" ORFICE |
| PD | 390 | 877-114 | GLY INJECTION PUMP A SUCTION PD | PPC | SFU-150T-100 |
| PD | 391 | 877-114 | GLY INJECTION PUMP A DISCHARGE PD | PPC | SFU-7001-T |
| PD | 400 | 877-114 | GLY INJECTION PUMP B SUCTION PD | PPC | SFU-150T-100 |
| PD | 401 | 877-114 | GLY INJECTION PUMP B DISCHARGE PD | PPC | SFU-7001-T |
| PI | 100 | 877-110 | INLET SEPARATOR PRESS. GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-600 RANGE, MOD. 9834885 |
| PI | 120 | 877-110 | CHILLER OUTLET PRESS. GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-200 RANGE, MOD. 9834850 |
| PI | 130 | 877-110 | COLD SEPARATOR PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-600 RANGE, MOD. 9834885 |
| PI | 140 | 877-111 | DE-ETH. TOWER PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-600 RANGE, MOD. 9834885 |
| PI | 180 | 877-112 | DE-BUT. TOWER PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-300 RANGE, MOD. 9834869 |
| PI | 200 | 877-112 | DE-BUT. REFLUX ACCUM. PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-300 RANGE, MOD. 9834869 |
| PI | 210 | 877-112 | DE-BUT. REFLUX PUMP A DISCHARGE PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-400 RANGE, FILLED, MOD. 9834877-833 |
| PI | 211 | 877-112 | DE-BUT REFLUX PUMP A SUCTION PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-400 RANGE, FILLED, MOD. 9834877-833 |
| PI | 220 | 877-112 | DE-BUT. REFLUX PUMP B DISCHARGE PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-400 RANGE, FILLED, MOD. 9834877-833 |
| PI | 221 | 877-112 | DE-BUT. REFLUX PUMP B SUCTION PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-400 RANGE, FILLED, MOD. 9834877-833 |
| PI | 280 | 877-113 | REFRIG. ACCUM. PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-300 RANGE, MOD. 9834869 |
| PI | 300 | 877-113 | REFRIG. SUCTION PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-300 RANGE, MOD. 9834869 |
| PI | 320 | 877-115 | HOT OIL PUMP A DISCHARGE PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-100 RANGE, FILLED, MOD. 9834834-833 |
| PI | 330 | 877-115 | HOT OIL PUMP B DISCHARGE PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-100 RANGE, FILLED, MOD. 9834834-833 |
| PI | 340 | 877-115 | HOT OIL HEATER FUEL GAS PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-100 RANGE, MOD. 9834834 |
| PI | 380 | 877-114 | GLY. FILTER PRESS. GAGAE | WIKA | 1/2" LM, 4-1/2" CASE, 0-200 RANGE, MOD. 9834850 |
| PI | 390 | 877-114 | GLY INJECTION PUMP A DISCHARGE PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-600 RANGE, FILLED, MOD. 9834885-833 |
| | | | | | |
| PI | 420 | 877-117 | FUEL SCRUBBER PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-300 RANGE, MOD. 9834869 |
| PI | 430 | 877-116 | LPG STORAGE TANK A PRESS GAGE | | |
| | | | | | |
| PI | 450 | 877-116 | LPG LOADING PUMP A DISCHARGE PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-300 RANGE, FILLED, MOD. 9834869-833 |
| PI | 460 | 877-116 | LPG LOADING PUMP B DISCHARGE PRESS GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-300 RANGE, FILLED, MOD. 9834869-833 |
| PI | 480 | 877-116 | CONDENSATE LOADING PUMP SUCTION PRESS GA. | WIKA | 1/2" LM, 4-1/2" CASE, 0-300 RANGE, FILLED, MOD. 9834869-833 |
| PI | 481 | 877-116 | CONDENSATE LOADING PUMP DISCHARGE PRESS. GA. | WIKA | 1/2" LM, 4-1/2" CASE, 0-300 RANGE, FILLED, MOD. 9834869-833 |
| PI | 600 | 877-117 | SDK KOD PRESS. GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-100 RANGE, MOD. 9834834 |
| PI | 710 | 877-120 | PERTAMINA KOD PRESS. GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-100 RANGE, MOD. 9834834 |
| PI | 720 | 877-117 | STARTING GAS SCRUBBER PRESS. GAGE | WIKA | 1/2" LM, 4-1/2" CASE, 0-300 RANGE, MOD. 9834869 |
| PIC | 140 | 877-111 | DE-ETH. TOWER PRESS CONTROL | FISHER | C1P-1 CONTROLLER, 0-600PSIG TUBE, 6-30 PSIG OUTPUT, DIRECT ACTION |
| PIC | 200 | 877-112 | DE-BUT. TOWER PRESS CONTROL | FISHER | C1P-1 CONTROLLER, 0-300PSIG TUBE, 6-30 PSIG OUT PUT, DIRECT ACTION |

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| ITEM | NO. | DRAWING | PURPOSE | BRAND | DESCRIPTION |
|------|-----|---------|--|------------------|--|
| PIC | 320 | 877-115 | HOT OIL PUMPS PRESS. CONTROL | FISHER | C1P-1 CONTROLLER, 0-100PSIG TUBE, 6-30 PSIG OUT PUT, DIRECT ACTION |
| PIC | 510 | 877-118 | GAS COMP. MAX. SUCTION CONTROL | FISHER | |
| PIC | 511 | 877-118 | GAS COMP. MIN. SUCTION CONTROL | VENDOR SUPPLIED | |
| PIC | 610 | 877-117 | PLANT BACK PRESS. CONTROL | FISHER | |
| PSH | 180 | 877-112 | DE-BUT. TOWER PRESS SW. HIGH | SOR | MODEL 5L-K5-N4-F1A, 35-375 PSIG RANGE, 15 AMP, 250VAC, EXP. |
| PSV | 100 | 877-110 | PLANT INLET AREA RELIEF VALVE | MERCER | 1-1/2" 300# INLET X 2", 150# OUTLET RF FLG, SET 600PSIG, 91-3411T14U1 |
| PSV | 140 | 877-111 | DE-ETH. TOWER RELIEF VALVE | MERCER | 1" MNPT INLET X 1-1/2" FNPT OUTLET, THD, SET 400PSIG, 91-23D51V0911 |
| PSV | 180 | 877-112 | DE-BUT. TOWER RELIEF VALVE | MERCER | 2", 300# INLET X 3", 150# OUTLET RF FLG, SET 250PSIG, 91-52G11V13U1 |
| PSV | 200 | 877-112 | LPG LINE TO TO STORAGE THERMOL RELIEF | MERCER | 1" MNPT INLET X 1" FNPT OUTLET, THD, SET 250PSIG, 91-17C51T07L1 |
| PSV | 260 | 877-113 | REFRIG. COMPRESSOR RELIEF VALVE | VENDOR SUPPLIED | |
| PSV | 261 | 877-113 | REFRIG. COMPRESSOR RELIEF VALVE | VENDOR SUPPLIED | |
| PSV | 280 | 877-113 | REFRIG. ACCUMULATOR RELIEF VALVE | MERCER | 1" MNPT INLET X 1" FNPT OUTLET, THD, SET 300PSIG, 91-17E51V1111 |
| PSV | 290 | 877-113 | REFRIG. ECONIMZER RELIEF VALVE | MERCER | 1" MNPT INLET X 1" FNPT OUTLET, THD, SET 300PSIG, 91-17E51V0911 |
| PSV | 300 | 877-113 | REFRIG. SUCTION SCRUBBER RELIEF VALVE | MERCER | 1-1/2" 300# INLET X 2", 150# OUTLET RF FLG, SET 300 PSIG, 91-34F21T11U5 GOOD FOR -30°F |
| PSV | 310 | 877-113 | REFRIG. PROPANE MAKEUP TANK RELIEF VALVE | REGO | 86850, SET 250 PSIG, STANDARD PROPANE TANK PSV |
| PSV | 350 | 877-115 | HOT OIL SURGE TANK RELIEF VALVE | BS&V | LPS STYLE DIS, 5 PSIG @45°F. WOTJ A 3", SRB-75S SAFETY HEAD, 150# ANSI FLG |
| PSV | 380 | 877-114 | GLY FILTER RELIEF VALVE | MERCER | 1" MNPT INLET X 1" FNPT OUTLET, THD, SET 150PSIG, 91-17C51T06L1 |
| PSV | 390 | 877-114 | GLY PUMP P-390 RELIEF VALVE | MERCER | 1" MNPT INLET X 1" FNPT OUTLET, THD, SET 600PSIG, 91-17C51T09L1 |
| PSV | 400 | 877-114 | GLY PUMP P-390 RELIEF VALVE | MERCER | 1" MNPT INLET X 1" FNPT OUTLET, THD, SET 600PSIG, 91-17C51T09L1 |
| PSV | 420 | 877-117 | FUEL SCRUBBER RELIEF VALVE | MERCER | 1" MNPT INLET X 1" FNPT OUTLET, THD, SET 250PSIG, 91-17E51V1111 |
| PSV | 430 | 877-116 | LPG STORAGE TK V-430 RELIEF VALVE | FISHER | H282250, 2" THD INLET, INTERNAL TYPE VALVE, SET 250 PSIG |
| PSV | 431 | 877-116 | LPG STORAGE TK V-430 RELIEF VALVE | FISHER | H282250, 2" THD INLET, INTERNAL TYPE VALVE, SET 250 PSIG |
| PSV | 432 | 877-116 | LPG STORAGE TK V-430 RELIEF VALVE | FISHER | H282250, 2" THD INLET, INTERNAL TYPE VALVE, SET 250 PSIG |
| PSV | 440 | 877-116 | LPG STORAGE TK V-440 RELIEF VALVE | | CUSTOMER SUPPLIED |
| PSV | 441 | 877-116 | LPG STORAGE TK V-440 RELIEF VALVE | | CUSTOMER SUPPLIED |
| PSV | 442 | 877-116 | LPG STORAGE TK V-440 RELIEF VALVE | | CUSTOMER SUPPLIED |
| PSV | 470 | 877-116 | CONDENSATE TANK RELIEF VALVE | | CUSTOMER SUPPLIED |
| PSV | 510 | 877-118 | GAS COMP. 1ST STAGE RELIEF VALVE | VENDOR SUPPLIED | |
| PSV | 520 | 877-118 | GAS COMP. 2ND STAGE RELIEF VALVE | VENDOR SUPPLIED | |
| PSV | 530 | 877-118 | GAS COMP. 3RD STAGE RELIEF VALVE | VENDOR SUPPLIED | |
| PSV | 560 | 877-118 | GAS COMP DISCHARGE RELIEF VALVE | VENDOR SUPPLIED | |
| PSV | 700 | 877-120 | SDK PRODUCTION UNIT RELIEF VALVE | MERCER | |
| PSV | 720 | 877-117 | STARTING GAS SCRUBBER RELIEF VALVE | MERCER | 1" MNPT INLET X 1" FNPT OUTLET, THD, SET 250PSIG, 91-17E51V1111 |
| PT | 120 | 877-110 | CHILLER SUPERHEAT PRESS. TRANSMITTER | ROSEMOUNT | 2051TG2A2B21AE5M5 STYLE 2051T, 0-150 PSIG RANGE, 4-20 mAmp OUTPUT |
| PT | 630 | 877-117 | FUEL GAS METER PRESS. TRANSMITTER | FISHER ROSEMOUNT | SEE FT-630 |
| PT | 680 | 877-117 | INLET GAS METER PRESS. TRANSMITTER | FISHER ROSEMOUNT | SEE FT-680 |
| PT | 690 | 877-117 | RESIDUE GAS METER PRESS. TRANSMITTER | FISHER ROSEMOUNT | SEE FT-690 |
| SV | 120 | 877-110 | REFRIG. SUPERHEAT CONTROL VALVE SV | ASCO | A3-EF8320G202-120/60V, 1/4" SS N/C 3 WAY, 120V AC COIL |
| SV | 290 | 877-113 | REFRIG. ECONIMIZER CONTROL VALVE SV | ASCO | A3-EF8320G202-120/60V, 1/4" SS N/C 3 WAY, 120V AC COIL |
| SV | 340 | 877-115 | HOT OIL HEATER BURNNER CONTROL SV | ASCO | A3-EF8320G202-120/60V, 1/4" SS N/C 3 WAY, 120V AC COIL |
| SV | 610 | 877-117 | PLANT BACK PRESS. CONTROL VALVE SV | ASCO | A3-EF8320G202-120/60V, 1/4" SS N/C 30WAY, 120V AC COIL |

JOB 877 INSTRUMENTATION AND MAJOR EQUIPMENT SPECIFICATION SHEET

| ITEM | NO. | DRAWING | PURPOSE | BRAND | DESCRIPTION |
|------|-----|---------|---|--------|--|
| TCV | 150 | 877-111 | DE-ETH. TOWER TEMP. CONTROL VALVE | FISHER | NPS 2 EZ-667, 2", 150#FLG, 3/4" PORT, 6-30 PSIG INPUT, 500° PACKING, SIZE 40 ACT |
| TCV | 230 | 877-112 | DE-BUT. TOWER TEMP. CONTROL VALVE | FISHER | NPS 2 EZ-667, 2", 150#FLG, 3/4" PORT, 6-30 PSIG INPUT, 500° PACKING, SIZE 40 ACT |
| TCV | 290 | 877-113 | REFRIG. ECONIMZER TEMP. CONTROL VALVE | FISHER | NPS 1 D4, 1" THD CONN., 1/4" MICRO FORM TRIM, 6-30 PSIG INPUT, SIZE 40 ACT |
| TCV | 340 | 877-115 | HOT OIL HEATER TEMP. CONTROL VALVE | FISHER | D-4 |
| TCV | 360 | 877-114 | GLY RECON. TEMP. CONTROL VALVE | KIMRAY | MOD. 1400 SMT 1/2" NTR, (EAU), 1" THD, 1/2" TRIM, 6-30 PSIG INPUT WITH HIGH TEM HPMC AFLAS KIT (EAI) |
| TI | 100 | 877-110 | INLET SEPARATOR TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, 0-200°F, MOD. 30060D005G4, TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 110 | 877-110 | GAS/GAS EXC. SHELL SIDE INLET TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, -40/120°F, MOD. 30060D002G4, TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 111 | 877-110 | GAS/GAS EXC. SHELL SIDE OUTLET TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, -40/120°F, MOD. 30060D002G4, TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 120 | 877-110 | CHILER TUBE SIDE OUTLET TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, -40/120°F, MOD. 30060D002G4, TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 121 | 877-110 | CHILLER TUBE SIDE INLET TEMP. GAGE | WIKA | 3" DUAL DIAL, 9" STEM, -40/120°F, MOD. 30090D002G4, TW 9" + 3" LAG, 9" STEM |
| TI | 130 | 877-110 | COLD SEPARATOR TEMP. GAGE | WIKA | 3" DUAL DIAL, 9" STEM, -40/120°F, MOD. 30090D002G4, TW 9" + 3" LAG, 9" STEM |
| TI | 140 | 877-111 | DE-ETH TOWER TEMP. GAGE | WIKA | 3" DUAL DIAL, 9" STEM, 50/300°F, MOD. 30090D008G4, TW 9" + 3" LAG, 9" STEM |
| TI | 150 | 877-111 | DE-ETH. REBOILER SHELL SIDE OUTLET TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, 50/300°F, MOD. 30060D008G4 TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 151 | 877-111 | DE-ETH. REBOILER TUBE SIDE INLET TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, 50/500°F, MOD. 30060D010G4, TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 152 | 877-111 | DE-ETH. REBOILER SHELL SIDE INLET TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, 50/300°F, MOD. 30060D008G4 TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 153 | 877-111 | DE-ETH. REBOILER TUBE SIDE OUTLET TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, 50/300°F, MOD. 30060D008G4 TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 160 | 877-112 | CONDENSATE TO STORAGE TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, 50/300°F, MOD. 30060D008G4 TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 180 | 877-112 | DE-BUT. TOWER TEMP. GAGE | WIKA | 5" DUAL DIAL, 9" STEM, 5-/500°F, MOD. 30090D010G4, TW 9" + 3" LAG, 9" STEM |
| TI | 190 | 877-112 | DE-BUT. OH CONDENSER INLET TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, 50/300°F, MOD. 30060D008G4 TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 200 | 877-112 | DE-BUT. REFLUX ACCUM. TEMP. GAGE | WIKA | 5" DUAL DIAL, 9" STEM, 5-/500°F, MOD. 30090D010G4, TW 9" + 3" LAG, 9" STEM |
| TI | 230 | 877-112 | DE-BUT. TOWER REBOILER SHELL SIDE OUTLET TEMP. GA | WIKA | 3" DUAL DIAL, 6" STEM, 50/500°F, MOD. 30060D010G4, TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 231 | 877-112 | DE-BUT. TOWER REBOILER TUBE SIDE INLET TEMP. GA. | WIKA | 3" DUAL DIAL, 6" STEM, 50/500°F, MOD. 30060D010G4, TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 232 | 877-112 | DE-BUT. TOWER REBOILER SHELL SIDE INLET TEMP. GA | WIKA | 3" DUAL DIAL, 6" STEM, 50/500°F, MOD. 30060D010G4, TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 233 | 877-112 | D-BUT. TOWER REBOILER TUBE SIDE OUTLET TEMP. GA | WIKA | 3" DUAL DIAL, 6" STEM, 50/500°F, MOD. 30060D010G4, TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 280 | 877-113 | REFRIGERATION ACCUM. TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, 50/300°F, MOD. 30060D008G4 TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 290 | 877-113 | REFRIG. ECONOMIZER TUBE SIDE OUTLET TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, 0-200°F, MOD. 30060D005G4, TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 291 | 877-113 | REFRIG. ECONOMIZER SHELL SIDE OUTLET TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, 0-200°F, MOD. 30060D005G4, TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 292 | 877-113 | REFRIG. ECONOMIZER TUBE SIDE INLET TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, 0-200°F, MOD. 30060D005G4, TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 293 | 877-113 | REFRIG. ECONOMIZER SHELL SIDE INLET TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, 50/300°F, MOD. 30060D008G4 TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 300 | 877-113 | REFRIG. SUCTION SCRUBBER TEMP. GAGE | WIKA | 3" DUAL DIAL, 9" STEM, -40/120°F, MOD. 30090D00264, TW 9" + 3" LAG, 9" STEM |
| TI | 340 | 877-115 | HOT OIL HEATER TEMP. GAGE | WIKA | 5" DUAL DIAL, 9" STEM, 5-/500°F, MOD. 30090D010G4, TW 9" + 3" LAG, 9" STEM |
| TI | 360 | 877-114 | GLYCOL RECONCENTRATOR TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, 50/500°F, MOD. 30060D010G4, TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 361 | 877-114 | GLYCOL REBOILER TUBE SIDE INLET TEMP. GAGE | WIKA | 3" DUAL DIAL, 6" STEM, 50/500°F, MOD. 30060D010G4, TW 2-1/2" + 2" LAG, 6" STEM |
| TI | 362 | 877-114 | GLYCOL REBOILER TUBE SIDE OUTLET TEMP. GAGE | WIKA | 3" DUAL DIAL, 9" STEM, 5-/500°F, MOD. 30090D010G4, TW 9" + 3" LAG, 9" STEM |
| TI | 430 | 877-116 | LPG STORAGE TANK #1 TEMP. GAGE | | 4" |
| TI | 440 | 877-116 | LPG STORAGE TANK #2 TEMP. GAGE | | |
| TI | 600 | 877-117 | SDK KOD TEMP. GAGE | WIKA | 3" DUAL DIAL, 9" STEM, -40/120°F, MOD. 30090D002G4, TW 9" + 3" LAG, 9" STEM |

JOB 877 INSTRUMENTATION AND MAJOR EQUIPMENT SPECIFICATION SHEET

| ITEM | NO. | DRAWING | PURPOSE | BRAND | DESCRIPTION |
|------|-----|---------|---|------------------|---|
| TI | 710 | 877-120 | PERTAMINA KOD TEMP. GAGE | WIKA | 3" DUAL DIAL, 9" STEM, -40/120°F, MOD. 30090D002G4, TW 9" + 3" LAG, 9" STEM |
| TIC | 150 | 877-111 | DE-ETH. TOWER TEMP. CONTROL | FISHER | 4156K, 0-400°F, REVERSE ACTION, 6-30 PSIG OUTPUT, 15FT, CAP, WITH TW |
| TIC | 230 | 877-112 | DE-BUT. TOWER TEMP. CONTROL | FISHER | 4156K, 0-600°F, REVERSE ACTION, 6-30 PSIG OUTPUT, 15FT, CAP, WITH TW |
| TIC | 340 | 877-115 | HOT OIL HEATER TEMP. CONTROL | FISHER | 4156K, 0-600°F, REVERSE ACTION, 6-30 PSIG OUTPUT, 15FT, CAP, WITH TW |
| TIC | 360 | 877-114 | GLY. RECON. TEMP. CONTROL | KIMRAY | MOD T12 (HAA) WITH TW |
| TSH | 230 | 877-112 | DE-BUT. TOWER TEMP. SW. HIGH | SOR | MOD. 203L-K115-U9-C7A, 150-375°F RANGE, EXP. PROOF |
| TSH | 340 | 877-115 | HOT OIL HEATER TEMP. SW. HIGH | UE | P/N E121-8BS-W119, 350-640°F RANGE, 6' TC PLUS TW |
| TSH | 360 | 877-114 | GLY. RECON. TEMP. SW. HIGH | SOR | MOD. 203L-K115-U9-C7A, 150-375°F RANGE, EXP. PROOF |
| TSL | 360 | 877-114 | GLY. RECON. TEMP. SW. LOW | SOR | MOD. 203L-K115-U9-C7A, 150-375°F RANGE, EXP. PROOF |
| TT | 120 | 877-110 | CHILLER SUPERHEAT TEMP. TRANSMITTER | ROSEMOUNT | 644HAE5XAJ6M5F6 STYLE 644 WITH 0068N21NO=00A030T26XA PLATINUM RTD SENSOR |
| TT | 121 | 877-110 | CHILLER SUPERHEAT TEMP. TRANSMITTER | ROSEMOUNT | 644HAE5XAJ6M5F6 STYLE 644 WITH 0068N21NO=00A030T26XA PLATINUM RTD SENSOR |
| TT | 290 | 877-113 | REFRIG. ECONIMZER TEMP. TRANSMITTER | ROSEMOUNT | 644HAE5XAJ6M5F6 STYLE 644 WITH 0068N21NO=00A030T26XA PLATINUM RTD SENSOR |
| TT | 630 | 877-117 | FUEL GAS METER TEMP. TRANSMITTER | FISHER ROSEMOUNT | SEE FT-630 |
| TT | 680 | 877-117 | INLET GAS METER TEMP. TRANSMITTER | FISHER ROSEMOUNT | SEE FT-680 |
| TT | 690 | 877-117 | RESIDUE GAS METER TEMP. TRANSMITTER | FISHER ROSEMOUNT | SEE FT-690 |
| VSH | 190 | 877-112 | DE-BUT. CONDENSER VIB. SW. HIGH | MURPHY | VS2EX EXP. PROOF |
| VSH | 270 | 877-113 | REFRIG. CONDENSER VIB. SW. HIGH | MURPHY | VS2EX EXP. PROOF |
| XY | 120 | 877-110 | SUPERHEAT CONTROL VALVE I/P | FISHER | I2P-100 , 4-20 mAdc INPUT, 3-30 PSIG OUTPUT, DIRECT |
| XY | 290 | 877-113 | REFRIG. ECONIMZER TEMP. CONTROL VALVE I/P | FISHER | I2P-100 , 4-20 mAdc INPUT, 3-30 PSIG OUTPUT, DIRECT |
| | | | | | |
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JOB 877 INSTRUMENTATION AND MAJOR EQUIPMENT SPECIFICATION SHEET

| ITEM | NO. | DRAWING | PURPOSE | BRAND | DESCRIPTION |
|------------------------|-----|---------|--|-------------------|--|
| MAJOR EQUIPMENT | | | | | |
| V | 100 | 877-110 | INLET SEPARATOR | MIDCO | 24" X 6'6" S-S, 600PSIG MAWP, -20/120°F, VERTICAL, 6" MIST PAD |
| E | 110 | 877-110 | GAS/GAS EXCHANGER | HICO | 1-14" X 24' NEN, SHELL MAWP 600PSIG AT -20/200°F, TUBE MAWP 600 PSIG AT -40°F, DUTY 445,915BTU/H |
| E | 120 | 877-110 | CHILLER | HICO | 2-10" X 22' NEN, SHELL MAWP 600PSIG AT -50/200°F, TUBE MAWP 300 PSIG AT -50/150°F, DUTY 759,285 BTU/H |
| V | 130 | 877-110 | COLD SEPARATOR | MIDCO | 36" X 12'-0" S-S, 600PSIG MAWP, -40/120°F, VERTICAL 3 PHASE, 6" MIST PAD |
| T | 140 | 877-111 | DE-ETHINZER TOWER | MIDCO | 14" X 44'-0" S-S, 400PSIG MAWP, TOP SECTION -50/120°F, BOTTOM SECTION -20/300°F, 2-14FT. SECTIONS OF IMPT-50 PACKING |
| E | 150 | 877-111 | DE-ETHINZER TOWER REBOILER | HICO | 1-8" X 6' BJU, SHELL MAWP 400PSIG AT 300°F, TUBE MAWP 150PSIG AT 500°F, DUTY 428,129 BTU/H |
| E | 160 | 877-111 | DE-ETH. TOWER OH/DE-BUT. TOWER BOTTOM EXC. | ADLER WELDING | 2-4" X 10' NEN, SHELL MAWP 400PSIG AT 300°F, TUBE MAWP 400PSIG AT 300°F, DUTY 38,709 BTU/H |
| E | 170 | 877-111 | DE-BUT. TOWER FEED/BOTTOM EXCHANGER | ADLER WELDING | 2-4" X 10' NEN, SHELL MAWP 400 PSIG AT 300°F, TUBE MAWP 400PSIG AT 300°F, DUTY 54,164 BTU/H |
| T | 180 | 877-112 | DE-BUT. TOWER | MIDCO | 16" X 44'-0" S-S, 250PSIG MAWP, -20/350°F, 2-14FT. SECTIONS OF IMPT-50 PACKING |
| AE | 190 | 877-112 | DE-BUT. TOWER OH CONDENSER | R & R | MOD H-68-12, DUTY 708,286BTU/HR, 186-12' X .625" X 16GA CS. TUBES, 4-6 PASSES, 1 SECTION, 300PSIG MAWP, 1-7.5HP, 1500 RPM, 360/50/3 TEFC MOTOR, 1-68", 4 BLADE FAN, RPM 558 RPM |
| V | 200 | 877-112 | DE-BUT. TOWER REFLUX ACCUM. | MIDCO | 36" X 6'-0" S-S, 250PSIG MAWP, -20/150°F, HORZ. |
| P | 210 | 877-112 | DE-BUT. TOWER REFLUX PUMP NO. 1 | SIHI | SIHI MOD. AOH, 13.85 GPM, 6 FT. SUCTION, DISCHARGE HEAD 70FT. , RATING 300#. 380/50/3 MOTOR |
| P | 220 | 877-112 | DE-BUT. TOWER REFLUX PUMP NO. 2 | SHI | SIHI MOD. AOH, 13.85 GPM, 6 FT. SUCTION, DISCHARGE HEAD 70FT. , RATING 300#. 380/50/3 MOTOR |
| E | 230 | 877-112 | DE-BUT. TOWER REBOILER | HIDCO | 1-10" X 8', BJU SHELL MAWP 250PSIG AT 300°F, TUBE MAWP 150PSIG AT 500°F, DUTY 648,317 BTU/H |
| C | 240 | 877-113 | REFRIGERATION COMPRESSOR | FRICK/YORK | MOD. RWFII-177, 67.2 TONS, SCREW COMPRESSOR, DEMAND OIL PUMP, PROPANE LIQUID INJECTION OIL COOLING. |
| M | 250 | 877-113 | REFRIGERATION COMPRESSOR DRIVER | TECO/WESTINGHOUSE | 350HP, 3000RPM, 5009A FRAME, 380/3/50, TEFC ENCL., 1.15SF., NEMA DESIGN B, CLASS F INSULATION, NEMA PREMIUM EFF. SEVERE DUTYU. |
| V | 260 | 877-113 | REFRIG. COMP. OIL SEPARATOR | FRICK/YORK | SIZED BY YORK |
| AE | 270 | 877-113 | REFRIGERATION CONDENSER | R & R | MOD. H-10-18, DUTY 1.666MMBTU/HR, 2-114-18" X 1.0" X 16GA CS. TUBES, 4-6 PASSES, 2 SECTION, 300PSIG MAWP, 15-HP, 1500 RPM, 360/50/3 TEFC MOTOR, 1-120", 6 BLADE FAN, RPM 312 |
| V | 280 | 877-113 | REFRIGERATION ACCUMULATOR | MIDCO | 24" X 6'-0" S-S, 300PSIG MAWP, -20/150°F, VERTICAL |
| E | 290 | 877-113 | REFRIGERATION ECONOMIZER | HICO | 6" X 24' NEN, SHELL MAWP 300PSIG AT -20/150°F, TUBE MAWP 300PSIG AT -20/150°F, DUTY 3302,243 BTU/H |
| V | 300 | 877-113 | REFRIGERATION SUCTION SCRUBBER | MIDCO | 24" X 6'-0" S-S, 300PSIG MAWP, -50/150°F, VERTICAL, 6" MIST PAD |
| V | 310 | 877-113 | REFRIGERATION PROPAND MAKEUP TANK | COMMERCIAL BRAND | STANDARD COMMICIAL 1000 GAL. STORAGE TANK, 250PSIG MAWP |
| P | 320 | 877-115 | HOT OIL HEATER PUMP NO. 1 | SIHI | MOD. ZTND 032200 BA 002 1B E,2" SUCTION, 1.25" DISCHARGE, 150# ANSI FLG, 7.56" DIA. IMPELLER, 60 GPM AT 50 PSI HEAD, 7.5 TEFC, 380/50/3 MOTOR |
| P | 330 | 877-115 | HOT OIL HEATER PUMP NO. 2 | SIHI | MOD. ZTND 032200 BA 002 1B E,2" SUCTION, 1.25" DISCHARGE, 150# ANSI FLG, 7.56" DIA. IMPELLER, 60 GPM AT 50 PSI HEAD, 7.5 TEFC, 380/50/3 MOTOR |
| H | 340 | 877-115 | HOT OIL HEATER | MIDCO | 48" X 20'-0" S-S, 18" X 1/4" WALL, 1875SQ. FT. REMOVABLE 1.5 MM BTU/H , 8000 FLUX U-TUBE, 5 PSIG TEST, 500°F DESIGN |
| V | 350 | 877-115 | HOT OIL HEATER SURGE TANK | MIDCO | 36" X 6'-0" S-S, MAWP ATM., |
| E | 360 | 877-114 | GLYCOL RECONCENTRATOR | ADLER WELDING | 24" X 10'-0" S-S, 250,000 BTU, 80-9'-0" X 3/4" 14GA TUBES, TUBES MAWP 150 PSIG, SHELL MAWP ATM., GLY STACK 8" X 8", 3/4" PALL RINGS. |
| V | 370 | 877-114 | GLYCOL SURGE TANK | ADLER WELDING | 24" X 4'-0" S-S, ATM. PRESS. |
| F | 380 | 877-114 | GLYCOL FILTER | NOWATA/MPI | MOD. 1S2N200NI BNT, 2000PSIG MAWP, 250°F., 2-9-3/4 CART. |
| P | 390 | 877-114 | GLYCOL INJECTION PUMP NO. 1 | NATIONA/QUADNA | MOD. 2S-1L (OLD WHEATLY P-50), SIMPLEX PLUNGER PUMP, DUCTILE IRON, NITRONIC 50 SPHERICAL VALVES, TEFLON BRAIDED PACKING, 1.625: TUNGSTAN CARBIDE PLUNGERS, 1.0 GPM, 600PSIG, 2 HP, 380/50/3, RPM OF PUMP 715. WITH DISCHARGE AND SCUTION DAMPENERS |
| P | 400 | 877-114 | GLYCOL INJECTION PUMP NO. 2 | NATIONA/QUADNA | MOD. 2S-1L (OLD WHEATLY P-50), SIMPLEX PLUNGER PUMP, DUCTILE IRON, NITRONIC 50 SPHERICAL VALVES, TEFLON BRAIDED PACKING, 1.625: TUNGSTAN CARBIDE PLUNGERS, 1.0 GPM, 600PSIG, 2 HP, 380/50/3, RPM OF PUMP 715. WITH DISCHARGE AND SCUTION DAMPENERS |
| E | 410 | 877-114 | GLYCOL /GLYCOL EXCHANGER | ADLER WELDING | 2-3" X 6'-0", X 3/4",14 GA TUBES/SHELL, MAWP 150PSIG TUBE AND SHELL, -20/150°F |
| V | 420 | 877-117 | FUEL SCRUBBER | MIDCO | 10" X 5'-6" S-S, 250PSIG MAWP, -20/150°F, WITH MIST PAD |
| P | 450 | 877-116 | LPG LOADING PUMP NO. 1 | BLACKMER/MEEDER | MOD. LGLD4, 4" VANE PUMP, 20HP, 350/50/3 |

JOB 877 INSTRUMENTATION AND MAJOR EQUIPMENT SPECIFICATION SHEET

| ITEM | NO. | DRAWING | PURPOSE | BRAND | DESCRIPTION |
|------|-----|---------|--|-----------------|---|
| P | 460 | 877-116 | LPG LOADING PUMP NO. 2 | BLACKMER/MEEDER | MOD. LGLD4, 4" VANE PUMP, 20HP, 350/50/3 |
| P | 480 | 877-116 | CONDENSATE LOADING PUMP | BLACKMER/MEEDER | MOD. XL4C, 4" VANE PUMP, 15 HP, 350/50/3 |
| C | 490 | 877-118 | INLET GAS COMPRESSOR | ARIEL/NGCS | ARIEL JGH/4, THROW 2 & 4 SUCTION, 17-1/4", THROW 3 INTERSTAGE, 13-1/2", THROW 4 DISCHARGE, 8-3/8", FLOW 4.056MMSCF/D FROM 10 PSIG TO 460 PSIG, 874 HP AT 900 RPM, RATED 1360 HP |
| D | 500 | 877-118 | INLET GAS COMPRESSOR DRIVER | CAT/NGCS | CAT 3516LE, AFRC, RATED 1150 HP AT 1200 RPM |
| V | 510 | 877-118 | INLET GAS COMP. 1ST STAGE SCRUBBER | NGCS | |
| V | 520 | 877-118 | INLET GAS COMP. 2ND STAGE SCRUBBER | NGCS | |
| V | 530 | 877-118 | INLET GAS COMP. 3RD STAGE SCRUBBER | NGCS | |
| AE | 540 | 877-118 | INLET GAS COMP. 1ST. STAGE COOLER | R&R/NGCS | PART OF R&R MOD. UI-12-24Y, 1 SECTION, 93- .625" X 24', 16 GAGE TUBES, 5 ROWS, 1 PASS, DUTY, 861,202 BTU, TEMP IN 266F, TEMP OUT 120 F, FAN ENGINE DRIVEN |
| AE | 550 | 877-118 | INLET GAS COMP. 2ND STAGE COOLER | R&R/NGCS | PART OF R&R MOD. UI-12-24Y, 1 SECTION, 42- .625" X 24', 16 GAGE TUBES, 4 ROWS, 1 PASS, DUTY, 761,492 BTU, TEMP IN 249 F, TEMP OUT 120 F, FAN ENGINE DRIVEN |
| AE | 560 | 877-118 | INLET GAS COMP. 3RD STAGE COOLER | R&R/NGCS | PART OF R&R MOD. UI-12-24Y, 1 SECTION, 54- .625" X 24', 16 GAGE TUBES, 4 ROWS, 1 PASS, DUTY, 683,745 BTU, TEMP IN 233 F, TEMP OUT 120 F, FAN ENGINE DRIVEN |
| AE | 570 | 877-118 | INLET GAS COMP. WJ COOLER | R&R/NGCS | PART OF R&R MOD. UI-12-24Y, 1 SECTION, 122- .625" X 24', 16 GAGE TUBES, 4 ROWS, 1 PASS, DUTY, 2,843,000 BTU, TEMP IN 180 F, TEMP OUT 165 F, FAN ENGINE DRIVEN |
| AE | 580 | 877-118 | INLET GAS COMP. TURBOCHARGER COOLER | R&R/NGCS | PART OF R&R MOD. UI-12-24Y, 1 SECTION, 70- .625" X 24', 16 GAGE TUBES, 4 ROWS, 2 PASS, DUTY, 643,000 BTU, TEMP IN 128 F, TEMP OUT 122 F, FAN ENGINE DRIVEN |
| | | | | | |
| V | 600 | 877-117 | SDK SITE INLET SEPARATOR (KOD) | MIDCO | 30" X 6'6" S-S, 150 PSIG MAWP, -20/150°F, VERTICAL, 6" MIST PAD |
| FE | 610 | 877-117 | PERTAMINA SITE RESIDUE GAS SALES METER | | SDK SUPPLIED |
| FE | 620 | 877-117 | PERTAMINA SITE INLET SLAES METER | | SDK SUPPLIED |
| FE | 630 | 877-117 | PERTAMINA/SDK SITE FUEL GAS METER | DANIEL | 2", 150# JUNIOR METER WITH A FISHER FB103 |
| V | 640 | 877-119 | SITE SLOP TANK | | SDK SUPPLIED |
| X | 650 | | SITE SCALES | | SDK SUPPLIED |
| X | 660 | 877-119 | SITE GENERATOR | UE | WAUKESHA VPH36004GSI 500KW/50HZ GEN SET |
| X | 670 | 877-119 | SITE FLARE | | SDK SUPPLIED |
| X | 680 | 877-117 | SDK INLET METER | DANIELS/ADLER | 6", 300# ORIFICE FLANGE UNION, RF WELDNED ENDS W/STUDES, NUTS AND JACKSCREWS, 6" PADDLE TUPE ORIFICE PLATE, 304 SS, 1/8" TK, NOT BORED5/8" BORE |
| X | 690 | 877-117 | SDK RESIDUE METER | DANIELS/ADLER | 3", 300# ORIFICE FLANGE UNION, RF WELDNED ENDS W/STUDES, NUTS AND JACKSCREWS, 3" PADDLE TUPE ORIFICE PLATE, 304 SS, 1/8" TK, NOT BORED |
| V | 700 | 877-120 | PRODUCTION SEPARATOR | MIDCO | 42" X 16;0"S.S, MAWP 50 PSIG AT -20/150F, 3 PHASE, HORZ. WITH MIST PAD |
| V | 710 | 877-120 | PERTAMINA SITE INLET SEPARATOR (KOD) | MIDCO | 30" X 6'6" S-S, 150 MAWP, -20/150°F, VERTICAL, 6" MIST PAD |
| V | 720 | 877-117 | STARTING GAS SCRUBBER | | SDK SUPPLIED |
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| MCC | | | | ALLEN BRADLEY | CENTERLINE 2100 SERIES |
| PLC | | | | ALLEN BRADLEY | MICROLOGIX WITH TOUCH SCREEN |
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