

REV. DATE	REVISION	BY	REV. DATE	REVISION	BY	REV. DATE	REVISION	BY	REV. DATE	REVISION	BY	REV. DATE	REVISION	BY
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DESIGN CONDITIONS

REFRIGERANT R-717
 SUCTION TEMP +25° @ 30.0 PSIG
 DISCHARGE TEMP +90° @ 165.9 PSIG
 T.R. 232.0
 R.H.P. 220.0
 MOTOR: 250HP, 3600RPM, ODP, 1.15 SF.
 460V/3/4/60
 SUCTION SUPERHEAT 0°F
 LIQ. SUB COOLING 10°F
 BY DESIGN WORKING PRESSURE: 300 PSIG

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 NOTE: DIMENSIONS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE.
 PRE-FABRICATION OF FIELD PIPING IS NOT RECOMMENDED.

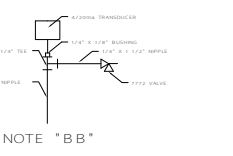
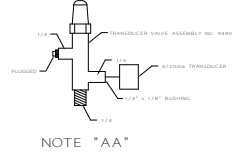
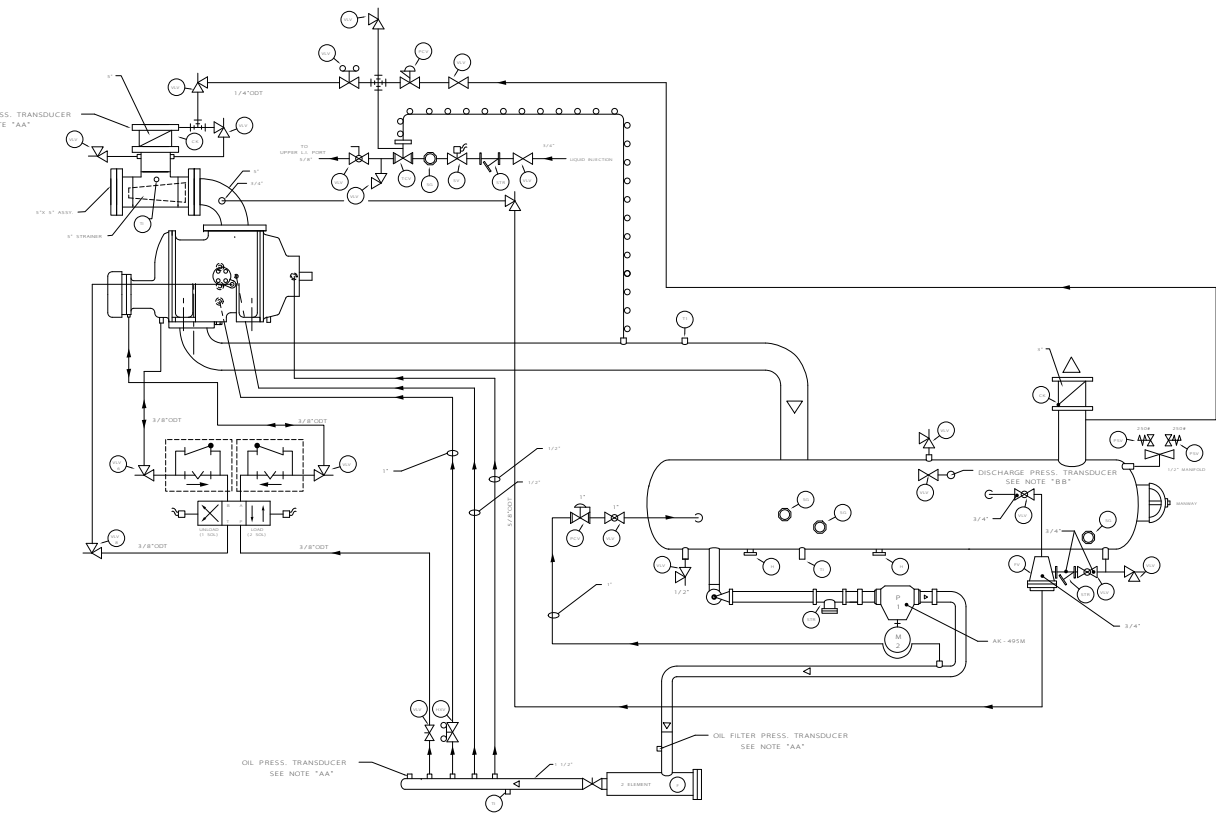
SPECIFICATIONS

DIMENSIONS ARE IN INCHES
 TOLERANCE = +0/- .2
 UNLESS OTHERWISE SPECIFIED
 MATL. =
 WT. = 8,000 LBS
 DO NOT SCALE

A&M INC.
 Refrigeration
 P.O. BOX 449 Federalburg, MD 21632

APPLIED PROCESS COOLING CORP.
GENERAL ARRANGEMENT
MODEL: # 58

DATE 3/18/96
 DWG. BY GAP
 APP. BY
 SCALE NTS
 DWG. NO.
96M-029-0100
 SHI. NO. 1 OF 2
 ORG. NO. MDL31029AGA



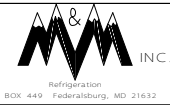
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|-----------------------------------|-------------------------|----------------------------|
| C. COMPRESSOR | LEV. LEVEL | PRV. PRESSURE SAFETY VALVE |
| CK. CHECK VALVE | SG. SIGHT GLASS | SD. PRESSURE SAFETY VALVE |
| CL. CONDENSER | SV. SAFETY VALVE | SO. SIGHT GLASS |
| CS. STOP VALVE | ST. STOP VALVE | SV. SAFETY VALVE |
| CV. CHECK VALVE | TR. TRANSDUCING POINT | SD. SAFETY VALVE |
| EV. EVAPORATOR | UP. UPGRADE CONNECTION | ST. STOP VALVE |
| EX. EXHAUST VALVE | VS. VACUUM SAFETY VALVE | TR. TRANSDUCING POINT |
| FC. FUSE CUTOUT | VV. VALVE | UP. UPGRADE CONNECTION |
| FV. FLOW VALVE | VV. VALVE | VV. VALVE |
| GA. GAGE | VS. VACUUM SAFETY VALVE | VV. VALVE |
| GC. GAGE CUTOUT | VS. VACUUM SAFETY VALVE | VV. VALVE |
| GL. GLOBE VALVE | VS. VACUUM SAFETY VALVE | VV. VALVE |
| GR. GLOBE VALVE | VS. VACUUM SAFETY VALVE | VV. VALVE |
| GS. GLOBE VALVE | VS. VACUUM SAFETY VALVE | VV. VALVE |
| HT. HIGH TEMPERATURE SAFETY VALVE | VS. VACUUM SAFETY VALVE | VV. VALVE |
| IV. ISOLATION VALVE | VS. VACUUM SAFETY VALVE | VV. VALVE |
| LV. LOW VOLTAGE SAFETY VALVE | VS. VACUUM SAFETY VALVE | VV. VALVE |
| RV. REVERSING VALVE | VS. VACUUM SAFETY VALVE | VV. VALVE |
| RV. REVERSING VALVE | VS. VACUUM SAFETY VALVE | VV. VALVE |
| RV. REVERSING VALVE | VS. VACUUM SAFETY VALVE | VV. VALVE |
| RV. REVERSING VALVE | VS. VACUUM SAFETY VALVE | VV. VALVE |
| RV. REVERSING VALVE | VS. VACUUM SAFETY VALVE | VV. VALVE |

-THE FOLLOWING VALVES ARE PROVIDED AND SHIPPED LOOSE:
 - (1) 5" ANGLE SUCTION STOP VALVE
 - (1) 3" GLOBE DISCHARGE STOP VALVE

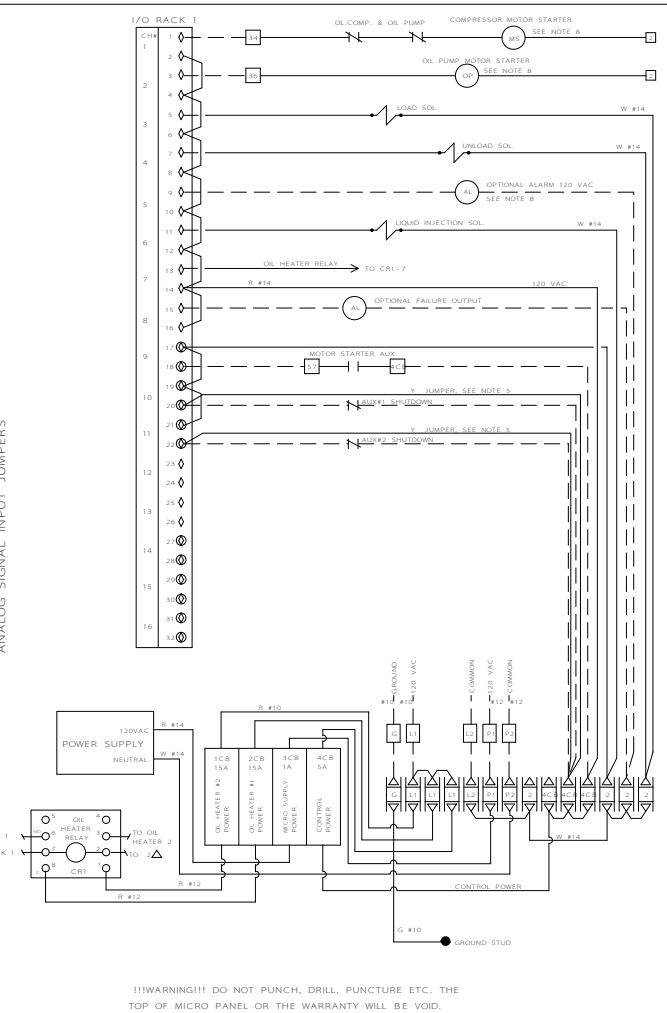
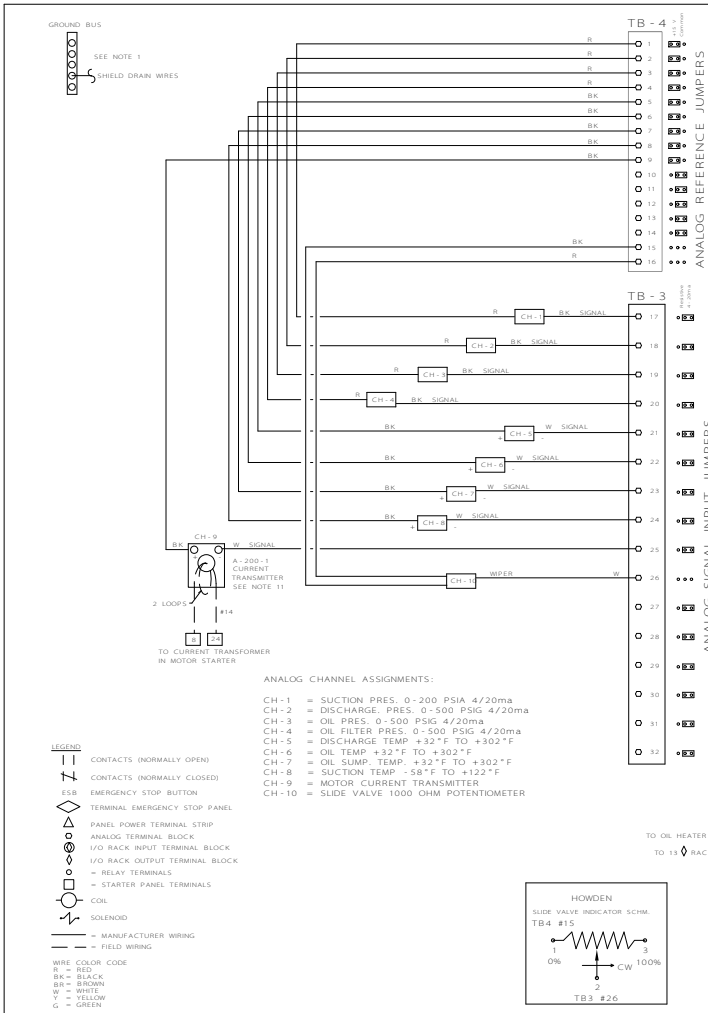
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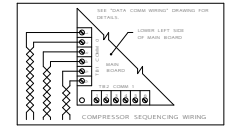
SPECIFICATIONS
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 TOLERANCE = ± .005
 UNLESS OTHERWISE SPECIFIED
 MAT'L. =
 WT. =
 DO NOT SCALE



APPLIED PROCESS COOLING CORP.	
MODEL 58 PIPING DIAGRAM	
DATE 3/19/96	DWG. NO.
DWG. BY GAP	96M-029-0100 A
APP. BY	SHEET NO. 2 OF 2
SCALE NTS.	DWG. NO. MAM029A-H 0



- NOTES:**
- CONNECT ALL SENSOR DRAIN WIRES THIS LOCATION.
 - FLOAT ALL CABLE SHIELDS AT SENSOR END.
 - ONLY (4) FOUR INCHES OF SIGNAL WIRES SHOULD BE UNSHIELDED AT SENSOR END.
 - EACH CABLE WIRE SHOULD BE INSULATED WITH AN APPROPRIATE SIZE HEAT SHRINK TUBE INSIDE THE MICRO ENCLOSURE.
 - AUX #1 AND #2 ARE AUXILIARY SYSTEM SHUTDOWNS. GREEN CONTACT TO SHUTDOWN ON HI LEVEL, FREEZE, ETC. WHEN ONE DEVICE IS USED (I.E. HI LEVEL FLOAT) TO SHUTDOWN MORE THAN ONE COMPRESSOR ON PANEL IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO ISOLATE THE PANELS ELECTRICALLY. (I.E. SUPPLY ISOLATING RELAYS) UNLESS SHOWN OTHERWISE.
 - FIELD WIRE TO G-12 & G-12 TO BE #10 STRANDED
 - G. (GROUND) MUST BE CONNECTED TO GROUND IN STARTER PANEL.
 - 120VAC OUTPUTS MAX LOAD: 1.5 AMPS RUNNING, 10 AMPS INRUSH
 - CABLE FOR COMMUNICATION BETWEEN PANELS OR TO COMPUTER IS BELLOW 5000 G COND. SHIELDED WITH DRAIN WIRE. WIRE 22 AWG. RUN IN SEPARATE CONDUIT FROM POWER WIRING.
 - CABLE FOR ANALOG INPUT DEVICES IS BELDEN #9553 24 AWG. 3 COND. SHIELDED WITH DRAIN. RUN IN SEPARATE CONDUIT FROM POWER WIRING.
 - CURRENT TRANSMITTER LOCATED ON LOWER BASE PLATE IN PANEL.
 - SHIELDED CABLE MUST NOT BE RUN IN THE SAME CONDUIT AS 120 VAC WIRING.
 - MAXIMUM TIGHTENING TORQUE 4-14 LB-IN



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SPECIFICATIONS
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 MATL. =
 WT. =
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APPLIED PROCESS COOLING CORP.	
STANDARD SCREW MICROCONTROLLER WIRING DIAGRAM	
DATE 3-18-96	DRG BY E.W.
APP BY	SCALE
SCALE	NETS
SHEET NO. 1 OF 1	
ISSUE NO. 029-0200 A	
ORIG. NO. 029ASC	