



FRAME AND
ELEC. BOX
CONNECTED
TO GROUND



LV5 LADDER SCHEMATIC		
NATIONAL REFRIGERATION PRODUCTS 458 IMPERIAL COURT BENSALEM, PA 19020-7327		
DRAWN BY: DTM	DWG NO.: NRP-LS-009	REV. A
SCALE: N/A	DATE: SEPTEMBER 9, 1996	

- LEGEND:**
- COMP. - COMPRESSOR
 - FS1 - FLOAT SWITCH FOR RECEIVER TANK #1
 - FS2 - FLOAT SWITCH FOR RECEIVER TANK #2
 - FS3 - FLOAT SWITCH TO RECOVERY TANK
 - HPS1 - HIGH PRESSURE SWITCH (425 PSIG)
 - L1 & L2 - LINE VOLTAGE (220 V DROP ACROSS)
 - LP1 - RECOVERY CYLINDER FULL LAMP, RED
 - M1 - CONDENSER FAN MOTOR
 - R1A - LATCHING RELAY COIL, CONTACTS 2 & 10
 - R1B - LATCHING RELAY COIL, CONTACTS 3 & 6
 - R1-C - LATCHING RELAY N. C. CONTACTS 8 & 11
 - R1-D - LATCHING RELAY N. O. CONTACTS 1 & 4
 - R2 - RELAY COIL, CONTROLS CYLINDER FULL LAMP
 - R2-A - N. C. CONTACTS 2 & 7 ON RELAY R2
 - R2-B - N. O. CONTACTS 5 & 7 ON RELAY R2
 - R3 - RELAY COIL FOR RELAY R3, CONTACTS 1 & 3
 - R3-A - N. O. CONTACTS 2 & 4 ON RELAY R3
 - R3-B - N. C. CONTACTS 4 & 5 ON RELAY R3
 - R4 - RELAY COIL FOR RELAY R4, CONTACTS 1 & 3
 - R4-A - N. O. CONTACTS 2 & 4 ON RELAY R4
 - R4-B - N. C. CONTACTS 4 & 5 ON RELAY R4
 - R5 - CONTACTOR COIL
 - R5-A - N. O. CONTACTS FOR LINE L1
 - R5-B - N. O. CONTACTS FOR LINE L2
 - S1 - SOLENOID COIL #1
 - S2 - SOLENOID COIL #2
 - S3 - SOLENOID COIL #3
 - S4 - SOLENOID COIL #4
 - S5 - SOLENOID COIL #5
 - S6 - SOLENOID COIL #6
 - S7 - SOLENOID COIL #7
 - S8 - SOLENOID COIL #8
 - SW1 - POWER SWITCH (ON-OFF-ON)
 - SW2 - MOMENTARY SWITCH, RECEIVER #1
 - SW3 - MOMENTARY SWITCH, RECEIVER #2
 - SW4 - AUTO / MANUAL SWITCH

LV5 (PIPING DIAGRAM)

OPERATIONAL CYCLES

1. RECEIVER #1-PULLING IN REFRIGERANT & RECEIVER #2-PUSHING OUT REFRIGERANT; S1, S4 & S8-OPEN; S2, S3, S5, S6 & S7-CLOSED.
2. RECEIVER #2-PULLING IN REFRIGERANT & RECEIVER #1-PUSHING OUT REFRIGERANT; S2, S3 & S7-OPEN; S1, S4, S5, S6 & S8-CLOSED.
3. PUMP-OUT MODE
S1, S3, S5, S6, S7, S8-OPEN; S2, S4-CLOSED

