

Container Refrigeration Unit

Models 69NT40-511-1 to 69NT40-511-199 and 69NT40-521

DUE TO THE LARGE NUMBER OF SCHEMATIC DIAGRAMS CONTAINED IN THIS BOOK, THE BOOK IS PRESENTED AS TWO FILES. REFER TO FILE T268-TEXT FOR THE TABLE OF CONTENTS, CHAPTERS 1 THROUGH 6 AND INDEX.



OPERATION AND SERVICE MANUAL

CONTAINER REFRIGERATION UNIT

MODELS 69NT40-511-1 to 69NT40-511-199 and 69NT40-521

Carrier Transicold Division, Carrier Corporation, P.O. Box 4805, Syracuse, N.Y. 13221

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ELECTRICAL WIRING SCHEMATIC AND DIAGRAMS

7.1 INTRODUCTION

This section contains Electrical Schematics and Wiring Diagrams covering the Models listed in Table 1-1. The following general safety notices supplement the specific warnings and cautions appearing elsewhere in this manual. They are recommended precautions that must be understood and applied during operation and maintenance of the equipment covered herein.

WARNING

It has been determined that pressurized, air-rich mixtures of refrigerants and air can undergo combustion when exposed to an ignition source.

WARNING

Beware of unannounced starting of the evaporator and condenser fans. Do not open the condenser fan grille before turning power OFF and disconnecting power plug.

WARNING

Make sure power to the unit is OFF and power plug disconnected before removing capacitor(s).

WARNING

Do not attempt to remove power plug(s) before turning OFF start-stop switch (ST), unit circuit breaker(s) and external power source.

Make sure the power plugs are clean and dry before connecting to any power receptacle.

WARNING

Make sure power to the unit is OFF and power plug disconnected before replacing the compressor.

WARNING

Before disassembly of the compressor make sure to relieve the internal pressure very carefully by slightly loosening the bolts on both service valve flanges/blank valve pads, then lightly tapping sides of the valve flanges/pads with a hammer to break the seal.

CAUTION

Use only Carrier Transicold approved Polyol Ester Oil (POE) – Castrol-Icematic SW20 compressor oil with R-134a. Buy in quantities of one quart or smaller. When using this hygroscopic oil, immediately reseal. Do not leave container of oil open or contamination will occur.

WARNING

Do not attempt to do service work on the Controller/DataCORDER module. Breaking of the warranty seal will void the warranty.

CAUTION

Remove the Controller/DataCORDER module and unplug all wire harness connectors before performing any arc welding on any part of the container.

Do not remove wire harnesses from module unless you are grounded to the unit frame with a static safe wrist strap.

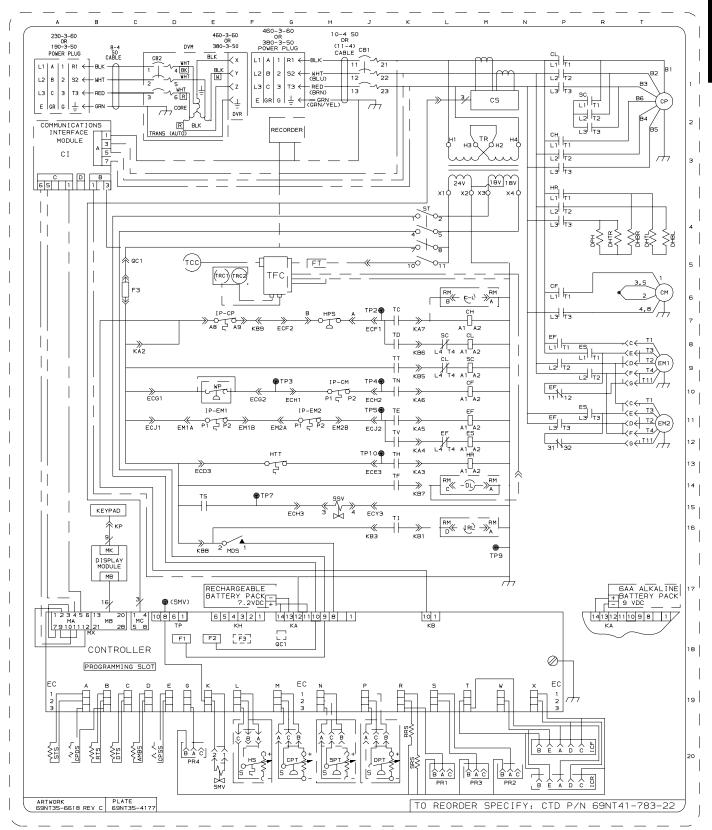
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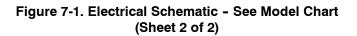
To avoid damage to the earth's ozone layer, use a refrigerant recovery system whenever removing refrigerant. When working with refrigerants you must comply with all local government environmental laws. In the U.S.A., refer to EPA section 608.

LEGEND

			LEGEND
ZONE S	SYMBOL		DESCRIPTION
		-	
C19	AMBS		AMBIENT SENSOR
J1	CB1	—	CIRCUIT BREAKER 460V
D1	CB2	_	CIRCUIT BREAKER 230V (AUTO TRANS OPTION)
M9,P6	CF	—	CONDENSER FAN CONTACTOR
AB	CI	—	COMMUNICATIONS INTERFACE MODULE (OPTION)
M7, P1	СН	—	COMPRESSOR CONTACTOR (HIGH SPEED)
Мб	C-L	_	COOL LIGHT (OPTION)
L9,M8,P3	CL		COMPRESSOR CONTACTOR (LOW SPEED)
H10,T6	CM		CONDENSER FAN MOTOR
E7,T1	CP		COMPRESSOR MOTOR
A20	CPDS		
			COMPRESSOR DISCHARGE SENSOR (TEMP.)
C20	CPSS		COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT		CONDENSER PRESSURE TRANSDUCER
M1	CS		CURRENT SENSOR
Τ4	DHBL	_	DEFROST HEATER - BOTTOM LEFT
Τ4	DHBR	—	DEFROST HEATER - BOTTOM RIGHT
Τ4	DHTL	—	DEFROST HEATER - TOP LEFT
R4	DHTR	_	DEFROST HEATER - TOP RIGHT
M15	DL	_	DEFROST LIGHT (OPTION)
R4	DPH	_	DRAIN PAN HEATER
J20	DPT		DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DTS		DEFROST TEMPERATURE SENSOR
D1	DVM		DUAL VOLTAGE MODULE (OPTIONAL)
E1	DVR		DUAL VOLTAGE RECEPTACLE (OPTIONAL)
L12,M11,P8	EF		EVAPORATOR FAN CONTACTOR (HIGH SPEED)
G11,H11,T9,T11	EM		EVAPORATOR FAN MOTOR
M12,R9	ES		EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18,G5	F	—	FUSE
	FLA	—	FULL LOAD AMPS
H7	HPS	_	HIGH PRESSURE SWITCH
M13,P4	HR	_	HEATER CONTACTOR
F20	HS		HUMIDITY SENSOR
F13	НТТ		HEAT TERMINATION THERMOSTAT
M20	IC		INTERROGATOR CONNECTOR (OPTION)
E7,F11,H10,H11	IP		INTERNAL PROTECTOR
M14			
	IRL		IN-RANGE LIGHT (OPTION)
B16	KP		KEYPAD CONNECTOR
E16	MDS		MANUAL DEFROST SWITCH
D20,L20,M20,P20	PR		PROBE RECEPTACLE (USDA OPTION)
L6,L14,L16	RM	—	REMOTE MONITORING RECEPTACLE (OPTION)
K20	RRS	—	RETURN RECORDER SENSOR (OPTION)
B20	RTS	_	RETURN TEMPERATURE SENSOR
L9,R2	SC	_	COMPRESSOR CONTACTOR (SHORTING)
E20	SMV	_	SUCTION MODULATION VALVE
H20	SPT		SUCTION PRESSURE TRANSDUCER (OPTION)
K20	SRS		SUPPLY RECORDER SENSOR (OPTION)
H15	SSV		SUCTION SOLENOID VALVE
K4	ST		START-STOP SWITCH
A20	STS	_	
A20 K7			
	TC		CONTROLLER RELAY (COOLING)
D5	TCC		TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)
K8	ТD		CONTROLLER RELAY (LOW SPEED COMPRESSOR)
K11	ΤE	—	CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
G5	TFC	—	TRANSFRESH CONTROLLER (OPTION)
К1З	ТΗ	—	CONTROLLER RELAY (HEATING)
К16	ТΙ	—	INRANGE RELAY
K14	TF	_	
K10	ΤN	_	
D17,F15,G10,J7,`	、 、		
J10, J11, J13, M16,	} TP	—	TEST POINT
M3	TR		TRANSFORMER
D1		_	TRANSFORMER AUTO 230/460 (OPTION)
	TRANS		
E5,F5			TRANSFRESH REAR CONNECTOR (OPTION)
E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
К9	TT		CONTROLLER RELAY (COMPRESSOR SHORTING)
K12	ΤV		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E10	WP	—	WATER PRESSURE SWITCH (OPTION)

Figure 7-1. Electrical Schematic - See Model Chart (Sheet 1 of 2)





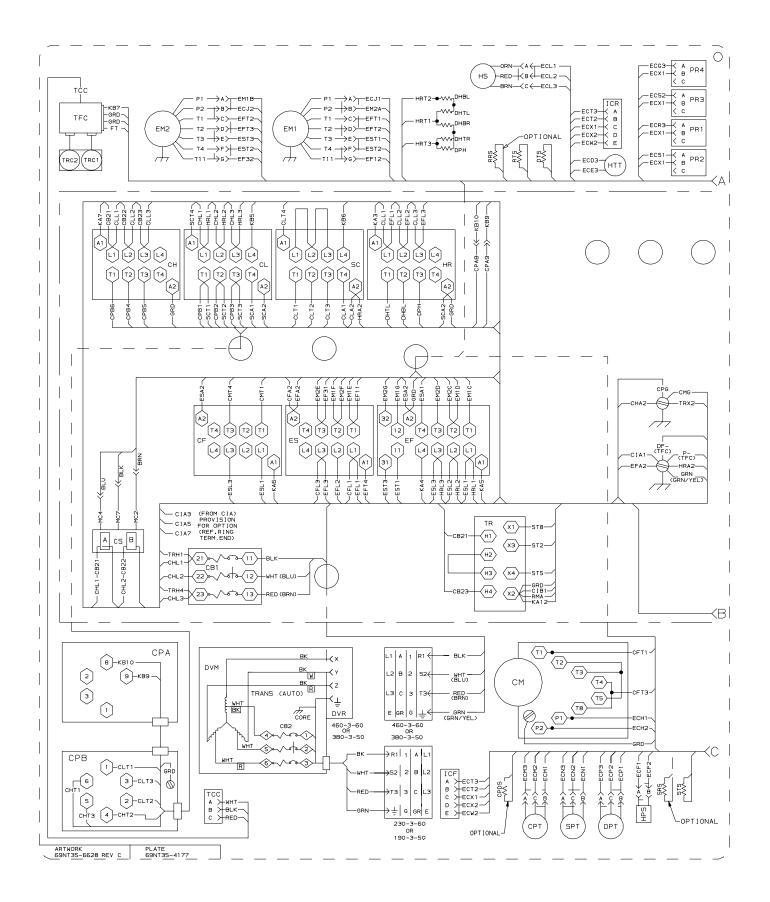


Figure 7-2. Electrical Wiring Diagram – See Model Chart (Sheet 1 of 2)

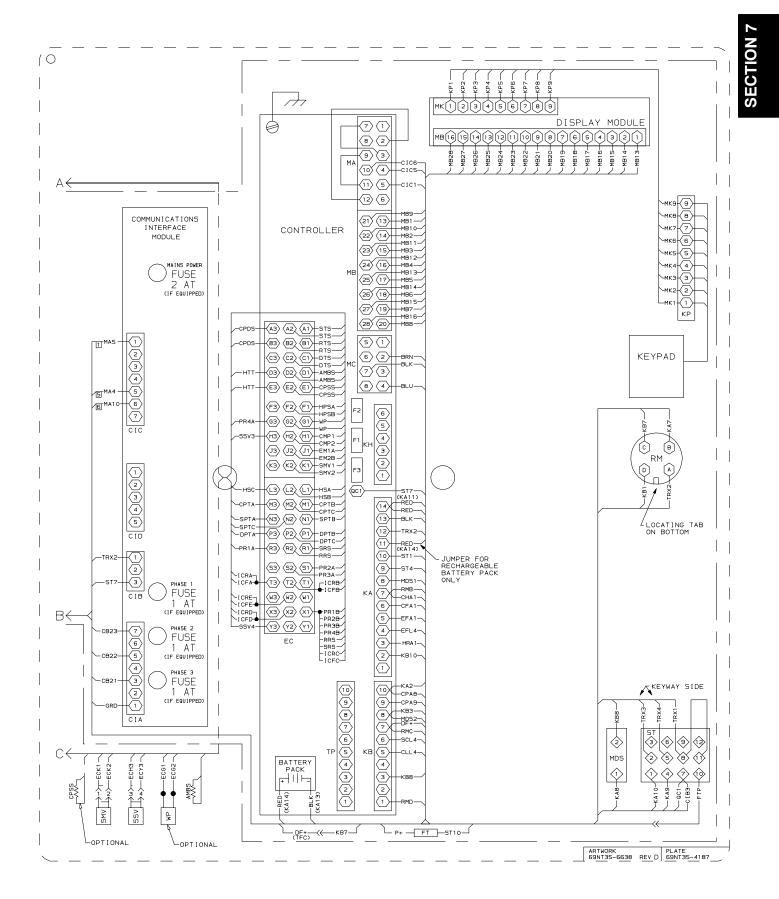
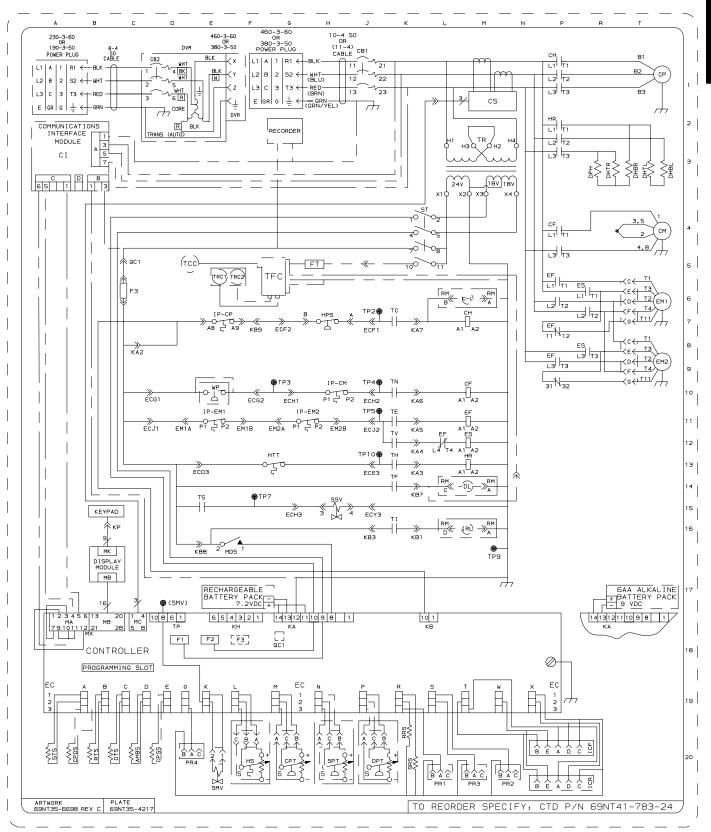


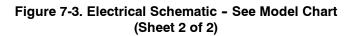
Figure 7-2. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

7-5

	SYMBOL	_	DESCRIPTION	
C19	AMBS	—	AMBIENT SENSOR	
J1 D1	CB1 CB2	_	CIRCUIT BREAKER 460V	
M9,P4	CB2 CF		CIRCUIT BREAKER 230V (AUTO TRANS OPTION) CONDENSER FAN CONTACTOR	
A3	CI		COMMUNICATIONS INTERFACE MODULE (OPTION)	
M7,P1	СН		COMPRESSOR CONTACTOR	
M6	C-L		COOL LIGHT (OPTION)	
H10,T4	CM		CONDENSER FAN MOTOR	
E7,T1	СР		COMPRESSOR MOTOR	
A20	CPDS	_	COMPRESSOR DISCHARGE SENSOR (TEMP.)	
C20	CPSS	_	COMPRESSOR SUCTION SENSOR (TEMP.)	
G20	CPT	—	CONDENSER PRESSURE TRANSDUCER	
M1	CS	—	CURRENT SENSOR	
ТЗ	DHBL		DEFROST HEATER - BOTTOM LEFT	
ТЗ			DEFROST HEATER - BOTTOM RIGHT	
ТЗ	DHTL		DEFROST HEATER - TOP LEFT	
R3			DEFROST HEATER - TOP RIGHT	
M15	DL		DEFROST LIGHT (OPTION)	
R3 J20	DPH DPT		DRAIN PAN HEATER DISCHARGE PRESSURE TRANSDUCER (OPTION)	
C20	DET		DEFROST TEMPERATURE SENSOR	
D1	DVM		DUAL VOLTAGE MODULE (OPTIONAL)	
E1	DVR		DUAL VOLTAGE RECEPTACLE (OPTIONAL)	
L12,M11,P6	EF	_	EVAPORATOR FAN CONTACTOR (HIGH SPEED)	
G11,H11,T6,T9	EM	—	EVAPORATOR FAN MOTOR	
M12,R6	ES	—	EVAPORATOR FAN CONTACTOR (LOW SPEED)	
C6,D18,E18,G5	F	—	FUSE	
	FLA	—	FULL LOAD AMPS	
H7	HPS	—	HIGH PRESSURE SWITCH	
M13,P2	HR		HEATER CONTACTOR	
F20	HS		HUMIDITY SENSOR	
F13	HTT		HEAT TERMINATION THERMOSTAT	
M20	IC		INTERROGATOR CONNECTOR (OPTION)	
E7,F11,H10,H11 M14	IP IRL		INTERNAL PROTECTOR IN-RANGE LIGHT (OPTION)	
B16	KP		KEYPAD CONNECTOR	
E16	MDS		MANUAL DEFROST SWITCH	
D20,L20,M20,P20			PROBE RECEPTACLE (USDA OPTION)	
L6,L14,L16	RM		REMOTE MONITORING RECEPTACLE (OPTION)	
K20	RRS		RETURN RECORDER SENSOR (OPTION)	
B20	RTS	_	RETURN TEMPERATURE SENSOR	
E20	SMV	—	SUCTION MODULATION VALVE	
H20	SPT	—	SUCTION PRESSURE TRANSDUCER (OPTION)	
K20	SRS	—	SUPPLY RECORDER SENSOR (OPTION)	
H15	SSV	—	SUCTION SOLENOID VALVE	
K4	ST		START-STOP SWITCH	
A20	STS		SUPPLY TEMPERATURE SENSOR	
K7	TC		CONTROLLER RELAY (COOLING)	
D5	TCC		TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)	
K8 K11	TD TE		CONTROLLER RELAY (LOW SPEED COMPRESSOR) CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)	
G5	TFC		TRANSFRESH CONTROLLER (OPTION)	
K13	тн		CONTROLLER RELAY (HEATING)	
K16	ТΙ		INRANGE RELAY	
K14	TF		DEFROST RELAY	
К10	ΤN		CONTROLLER RELAY (CONDENSER FAN)	
D17,F15,G10,J7,	\			
J10,J11,J13,M16	}TP	_	TEST POINT	
МЗ	TR		TRANSFORMER	
D1			TRANSFORMER AUTO 230/460 (OPTION)	
E5,F5	TRC		TRANSFRESH REAR CONNECTOR (OPTION)	
E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)	
K9	TT		CONTROLLER RELAY (COMPRESSOR SHORTING)	
K12 E10	TV WP		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS) WATER PRESSURE SWITCH (OPTION)	
	VV 1~		WAIEN FREDURE JWIICH (UFIIUN)	

Figure 7-3. Electrical Schematic - See Model Chart (Sheet 1 of 2)





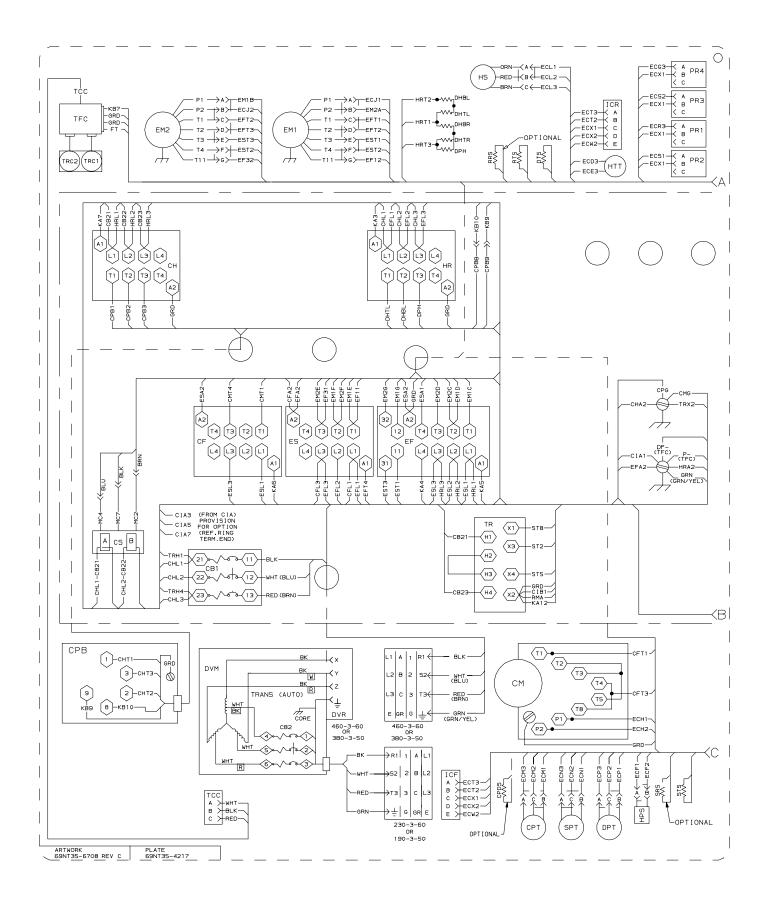


Figure 7-4. Electrical Wiring Diagram - See Model Chart (Sheet 1 of 2)

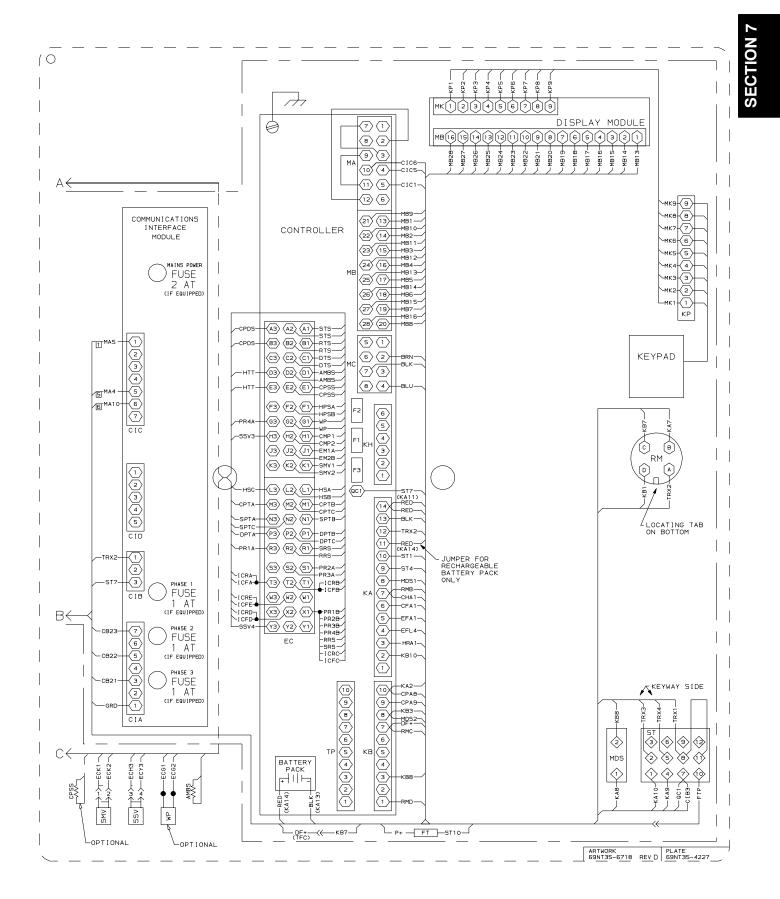


Figure 7-4. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

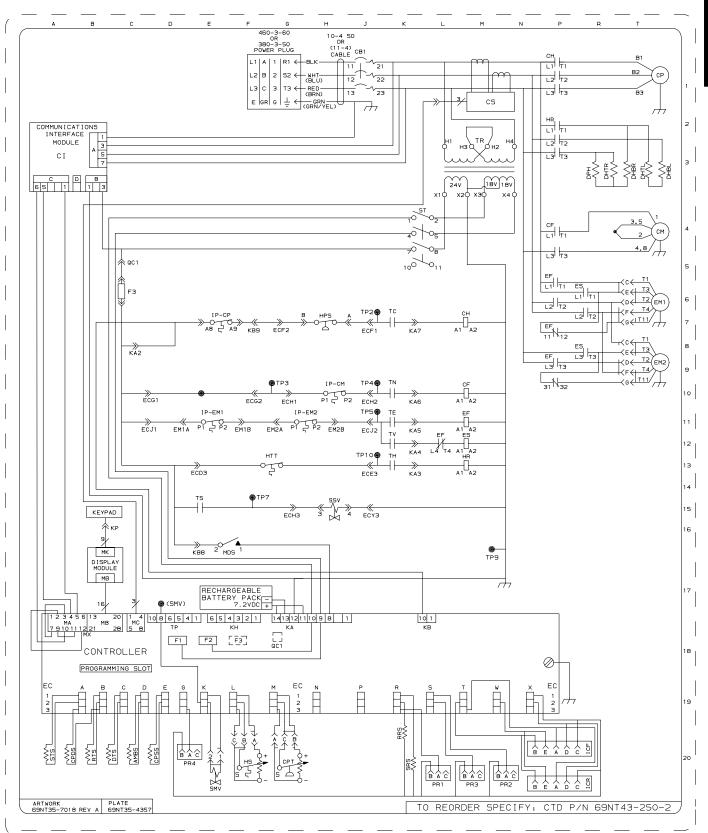
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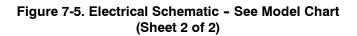
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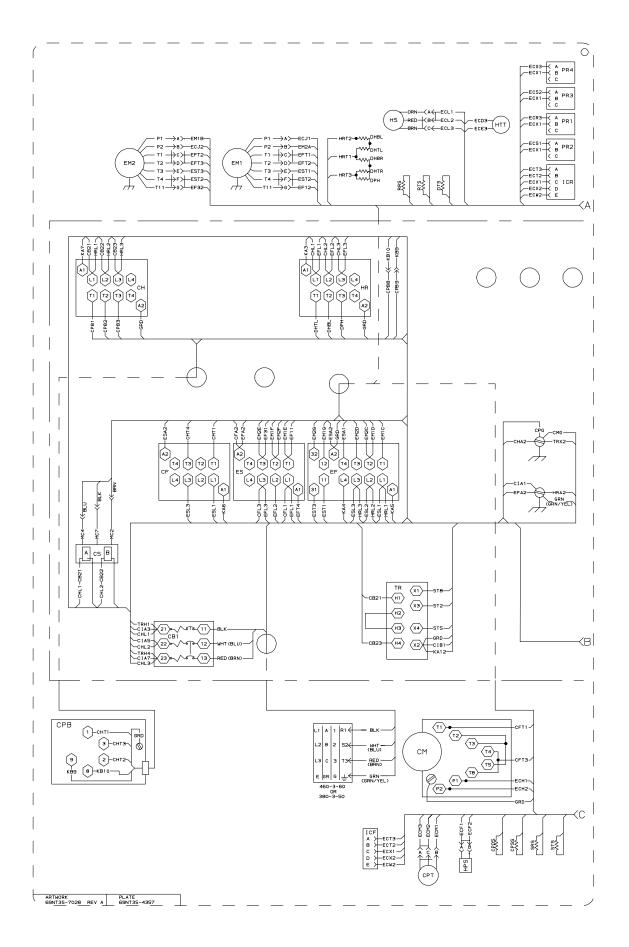
	SYMBOL		
C20			AMBIENT SENSOR
J1	CB1		CIRCUIT BREAKER 460V
M10,P4			CONDENSER FAN CONTACTOR
M7, P1			COMPRESSOR CONTACTOR
A3			COMMUNICATIONS INTERFACE MODULE
H10,T4			CONDENSER FAN MOTOR
E7,T1	CP		COMPRESSOR MOTOR
B20	CPDS		COMPRESSOR DISCHARGE SENSOR (TEMP.)
D20	CPSS		COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT		CONDENSER PRESSURE TRANSDUCER
M1			CURRENT SENSOR
T3			DEFROST HEATER - BOTTOM LEFT
T3			DEFROST HEATER - BOTTOM RIGHT
ТЗ			DEFROST HEATER - TOP LEFT
R3			DEFROST HEATER - TOP RIGHT
R3			DRAIN PAN HEATER
C20	DTS		DEFROST TEMPERATURE SENSOR
L12,M11,P6	EF		EVAPORATOR FAN CONTACTOR (HIGH SPEED) Evaporator fan motor
E11,G11,T6,T9	<u> </u>		EVAPORATOR FAN MOTOR EVAPORATOR FAN CONTACTOR (LOW SPEED)
M12,R6	20		
C6,D18,E18			FUSE
			FULL LOAD AMPS
H7			HIGH PRESSURE SWITCH
M13,P2			HEATER CONTACTOR
F20	HS		HUMIDITY SENSOR
G13	HTT		HEAT TERMINATION THERMOSTAT
P20			INTERROGATOR CONNECTOR
E7,E11,G11,H10			INTERNAL PROTECTOR Keypad connector
B16 F16	KP		MANUAL DEFROST SWITCH
	MDS PR		
D20,L20,M20,N20			PROBE RECEPTACLE (USDA OPTION)
K20			RETURN RECORDER SENSOR
B20	RTS		RETURN TEMPERATURE SENSOR
E20	SMV		SUCTION MODULATION VALVE
K20	SRS		SUPPLY RECORDER SENSOR
H15 K4	SSV ST		SUCTION SOLENOID VALVE
			START-STOP SWITCH
A20 K7	STS TC		SUPPLY TEMPERATURE SENSOR Controller relay (cooling)
K11	TE		
K13	TH		CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
K10	TN		CONTROLLER RELAY (HEATING)
			CONTROLLER RELAY (CONDENSER FAN)
D17,F15,G10,J7, J10,J11,J13,M16	> TP	—	TEST POINT
M3	TR		TRANSFORMER
E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
K12	ΤV		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
1 X 1 C	i V		SUMMOLELY REAT (LOW JILLD LVAFORATOR LANJ)

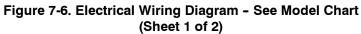
Figure 7-5. Electrical Schematic - See Model Chart

(Sheet 1 of 2)









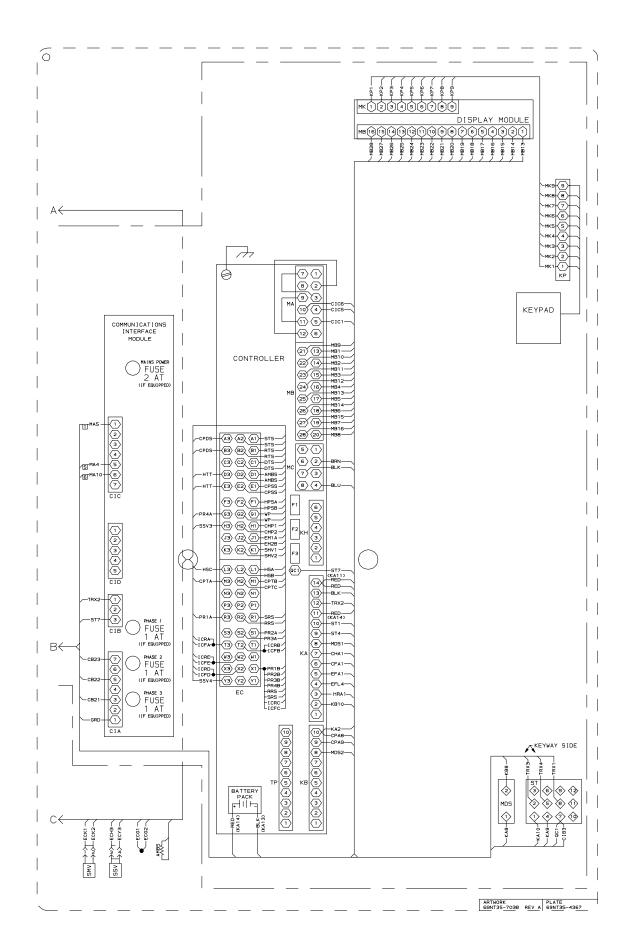


Figure 7-6. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

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			LEGEND
ZONE	SYMBOL		DESCRIPTION
C20	AMBS	_	AMBIENT SENSOR
J1	CB1		CIRCUIT BREAKER 460V
M10,P6	CF	_	CONDENSER FAN CONTACTOR
M7,P1	СН	_	COMPRESSOR CONTACTOR
AЗ	CI	—	COMMUNICATIONS INTERFACE MODULE
P1,L9,M8	CL	_	COMPRESSOR CONTACTOR (LOW SPEED)
H10,T6	СМ	_	CONDENSER FAN MOTOR
E7,T1	CP	_	COMPRESSOR MOTOR
B20	CPDS	—	COMPRESSOR DISCHARGE SENSOR (TEMP.)
D20	CPSS	—	COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT	—	CONDENSER PRESSURE TRANSDUCER
M1	CS	—	CURRENT SENSOR
Τ4	DHBL	—	DEFROST HEATER - BOTTOM LEFT
⊤4	DHBR	—	DEFROST HEATER - BOTTOM RIGHT
⊤4	DHTL	—	DEFROST HEATER - TOP LEFT
R4	DHTR	—	DEFROST HEATER - TOP RIGHT
R4	DPH	—	DRAIN PAN HEATER
C20	DTS	—	DEFROST TEMPERATURE SENSOR
L12,M11,P9	EF	—	EVAPORATOR FAN CONTACTOR (HIGH SPEED)
E11,G11,T9,T11	EM		EVAPORATOR FAN MOTOR
M12,R9	ES	—	EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18	F	—	FUSE
	FLA	—	FULL LOAD AMPS
H7	HPS	—	HIGH PRESSURE SWITCH
M13,P4	HR		HEATER CONTACTOR
F20	HS	—	HUMIDITY SENSOR
G13	HTT	—	HEAT TERMINATION THERMOSTAT
P20	ΙC	_	INTERROGATOR CONNECTOR
E7,E11,G11,H10	ΙP	—	INTERNAL PROTECTOR
B16	KP		KEYPAD CONNECTOR
F16	MDS	—	MANUAL DEFROST SWITCH
D20,L20,M20,N20			PROBE RECEPTACLE (USDA OPTION)
K20	RRS		RETURN RECORDER SENSOR
B20	RTS		RETURN TEMPERATURE SENSOR
R2,L8,M9	SC		COMPRESSOR CONTACTOR (SHORTING)
E20	SMV		SUCTION MODULATION VALVE
K20	SRS		SUPPLY RECORDER SENSOR
H15	SSV		SUCTION SOLENOID VALVE
K4	ST		START-STOP SWITCH
A20	STS		SUPPLY TEMPERATURE SENSOR
K7	TC		CONTROLLER RELAY (COOLING)
K8	TD		CONTROLLER RELAY (LOW SPEED COMPRESSOR)
K11	TE		CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
K13	TH		CONTROLLER RELAY (HEATING)
K10	TN	_	CONTROLLER RELAY (CONDENSER FAN)
D17,F15,G10,J7, J10,J11,J13,M16			TEST POINT
МЗ	TR		TRANSFORMER
K9	TT		CONTROLLER RELAY (COMPRESSOR SHORTING)
E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
К12	ΤV	_	CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)

Figure 7-7. Electrical Schematic - See Model Chart

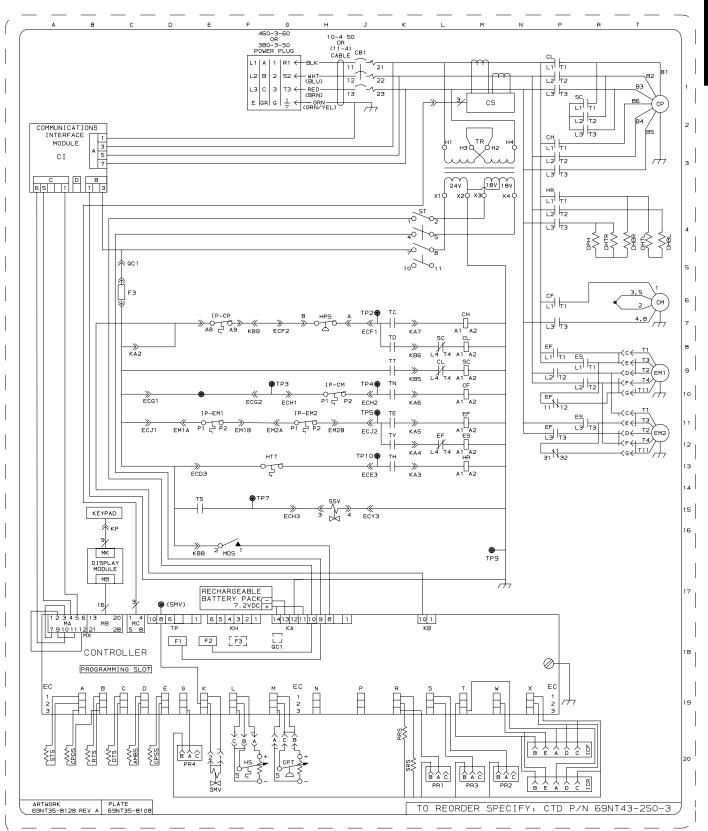
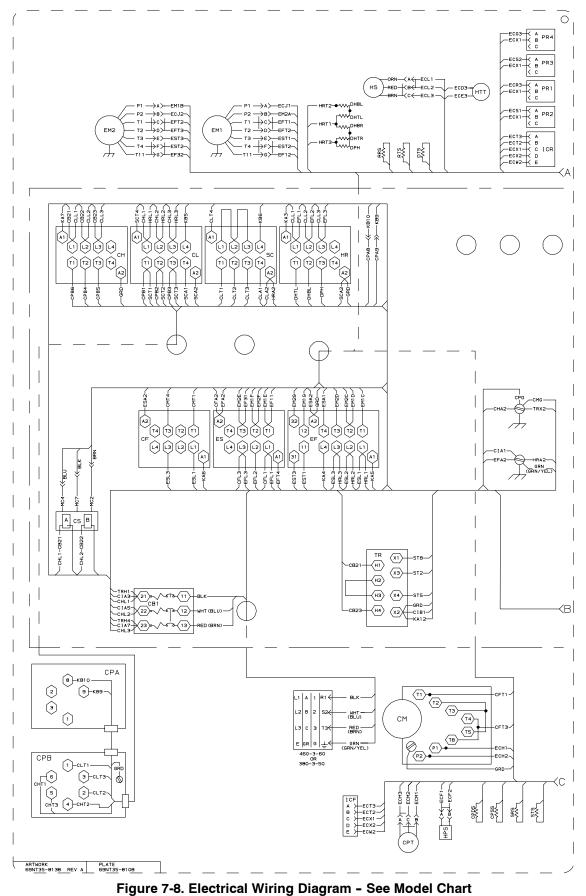


Figure 7-7. Electrical Schematic - See Model Chart (Sheet 2 of 2)



(Sheet 1 of 2)

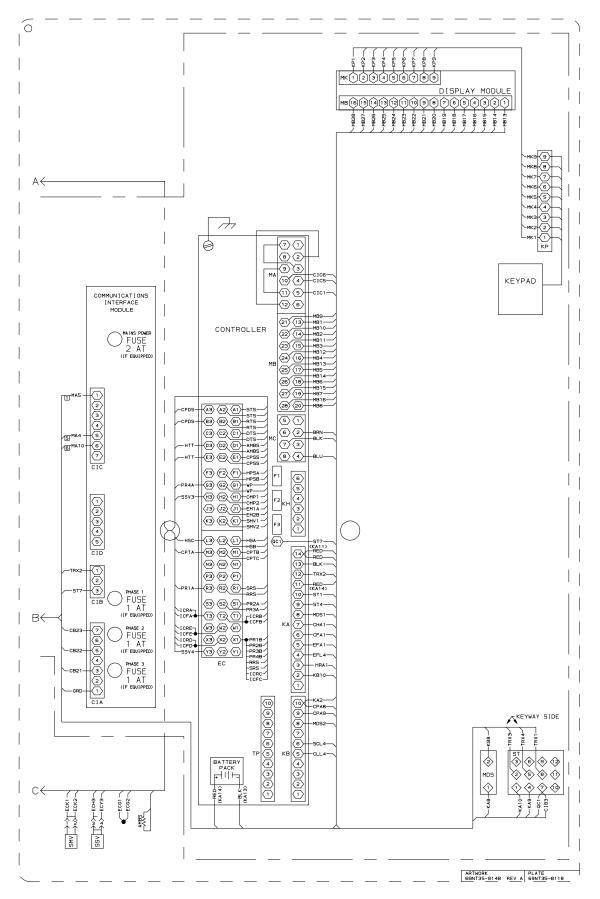


Figure 7-8. Electrical Wiring Diagram – See Model Chart (Sheet 2 of 2)

C1B AMBS M BIENT SENSOR J1 C01 CIRCUIT BREAKER 460V J1 C02 CIRCUIT BREAKER 460V M3.P4 CF CONDENSER FAN CONTACTOR A3 C1 COMMENSION TRANS OPTIOND M7.P1 CH COMPRESSOR CONTACTOR M6 C-L COOL LIGHT (OPTION) H10.714 CH CONDENSER FAN MOTOR E7.711 CP COMPRESSOR SUCTION SENSOR (TEMP.) C20 CPS5 COMPRESSOR SUCTION SENSOR (TEMP.) C30 CPT CONDENSER PRESSURE TRANSDUCER G20 CPS5 COMPRESSOR SUCTION SENSOR (TEMP.) C30 CPT CONDENSER PRESSURE TRANSDUCER G30 CPT CONDENSER FASTER - BOTTOM LEFT T3 DHBR DEFROST HEATER - TOP LEFT R3 DHT DEFROST T				
11 CB CIRCUIT BREAKER 460V D1 CE2 CIRCUIT BREAKER 230V (AUTO TRANS OPTION) D3, P4 CF CONDUMENT FAIN CONTACTOR A3 C1 COMMUNICATIONS INTERFACE MODULE (OPTION) M7, P1 CH COMPRESSOR CONTACTOR M6 C-L COOL LIGHT (OPTION) H10, 14 CM COMPRESSOR SUCTION SENSOR (TEMP.) C20 CPD5 COMPRESSOR SUCTION SENSOR (TEMP.) C20 CPD5 COMPRESSOR SUCTION SENSOR (TEMP.) C20 CPD5 COMPRESSOR SUCTION SENSOR (TEMP.) C20 CPT CONDENSER PRESSURE TRANSDUCER T3 DHBL DEFROST HEATER - BOTTOM LEFT T3 DHBL DEFROST HEATER - TOP RIGHT M1 CS CURRENT SENSOR T3 DHT DEFROST HEATER - TOP RIGHT M3 DHT DEFROST HEATER - TOP RIGHT M3 DHT DEFROST HEATER - TOP RIGHT M4 DEFROST TEMPERATURE SENSOR CONTANCH M3 DHT DEFROST TEMPERATURE SENSOR <t< td=""><td></td><td></td><td>_</td><td>DESCRIPTION</td></t<>			_	DESCRIPTION
D1 CE2 — CIRCUIT BREAKER 230Y (AUTO TRANS OPTION) M9,P4 CF — CONDENSER FAN CONTACTOR A3 C1 — COMPRESSOR CONTACTOR M7,P1 CH — COMPRESSOR CONTACTOR M6 C-L — CONDENSER FAN MOTOR F7,T1 CP — COMPRESSOR DISCHARGE SENSOR (TEMP.) C20 CPD5 — COMPRESSOR MOTOR A20 CPD5 — COMPRESSOR MOTOR A20 CPD5 — COMPRESSOR TRANSDUCER C20 CPT5 — COMPRESSOR TRANSDUCER C20 CPT5 — COMPRESSOR C20 DFT DEFROST HEATER - BOTTOM RIGHT T3 DHBR DEFROST HEATER - TOP LEFT R3 DHT DEFROST HEATER - TOP LEFT R3 DHT DEFROST HEATER - TOP LEFT R3 DHT DEFROST TEMPERATURE SENSOR <		==		
M9,P4 CF — CONDENSER FAN CONTACTOR A3 C1 — COMMUNICATIONS INTERFACE MODULE (OPTION) M7,P1 CH — COMPRESSOR CONTACTOR M6 C-L = CONDELIGHT (OPTION) H10,14 CM = COMPRESSOR DISCHARGE SENSOR (TEMP.) E7,T1 CP = COMPRESSOR SUCTION SENSOR (TEMP.) C20 CPS = COMPRESSOR SUCTION SENSOR (TEMP.) C20 CPS = COMPRESSOR SUCTION SENSOR (TEMP.) C20 CPT = CONDENSER PRESSURE TRANSDUCER M1 CS = CURRENT SENSOR T3 DHBL DEFROST HEATER - BOTTOM RIGHT T3 DHFL DEFROST HEATER - TOP LIEFT R3 DHT DEFROST TEMPERATURE SENSOR T3 DISCHARGE PRESSURE TRANSDUCER (OPTION) R3 DHT DEFROST TEMPERATURE SENSOR T10 DYM DUAL VOLTAGE MODULE (OPTIONAL) C20 DT5 DEFROST TEMPERATURE SENSOR T11 DYM DUAL VOLTAGE MODULE (OPTIONAL) C20 DT5 DEFROST TEMPERATURE SENSOR				
AS CI = COMPRESSOR CONTACTOR M7,P1 CH = COMPRESSOR CONTACTOR M6 C-L = CONDENSER FAM MOTOR F7,T1 CP = CONDENSER FAM MOTOR F7,T1 CP = CONDENSER FAM MOTOR F7,T1 CP = COMPRESSOR SUCTION SENSOR (TEMP.) C20 CPDS = COMPRESSOR SUCTION SENSOR (TEMP.) G20 CPT = CONDENSER PRESSURE TRANSDUCER G20 CPT = CONDENSER PRESSURE TRANSDUCER G3 DHBL DEFROST HEATER - BOTTOM LEFT T3 DHBR DEFROST HEATER - TOP LEFT R3 DHT DEFROST HEATER - TOP LEFT R3 DHT DEFROST HEATER - TOP LEFT R3 DHT DEFROST TEMPERATURE SENSOR C10 DTT DISCHARGE PRESSURE TRANSDUCER (OPTION) R3 DPH DRAIN ORT AR MOTOR R43 DPH DUAL VOLTAGE RECEPTACLE (OPTIONL) C20 DTS DUAL VOLTAGE RECEPTACLE (CONTIONL) C31 DVM DUAL VOLTAGE RECEPTACLE OPTIONL) C				
H6C-LCOUL LIGHT (OPTION)H10,14CM= COUNDENSER FAM MOTORH10,14CM= COUNDENSER FAM MOTORA20CPDS= COUNDENSER PRESSOR MOTORA20CPDS= COUNDENSER PRESSOR MOTORA20CPT= COUNDENSER PRESSOR MOTORB1CS= COUNDENSER PRESSURE TRANSDUCERM1CS= COUNDENSER PRESSURE TRANSDUCERT3DHBL= DEFROST HEATER - BOTTOM RIGHTT3DHB= DEFROST HEATER - TOP LEFTR3DHT= DEFROST HEATER - TOP RIGHTR3DHT= DEFROST HEATER - TOP RIGHTR3DPH= DERAST LIGHT (OPTION)R3DPH= DERAST TEMPERATURE SENSORD1DYM= DUAL VOLTAGE RECEPTACE (OPTIONAL)C20DT5= DEFROST TEMPERATURE SENSORD1DYM= DUAL VOLTAGE RECEPTACE (OPTIONAL)L12,M1,P6EF= EVAPORATOR FAN CONTACTOR (HIGH SPEED)C11,H1,T6,T9EM= EVAPORATOR FAN CONTACTOR (LON SPEED)C6,D18,E18,C5F= FUSEFLAFULL LOAD AMPSH7HPS= HIGH PRESSURE SHITCHM12,R6ES= EVAPORATOR FAN CONTACTOR (LON SPEED)C6,D18,E18,C5F= FUSEFLA= HIGH PRESSURE SWITCHM20ICINTERNAL PROTECTORF13HTHEAT ERONINATION THERMOSTATM12,R6F= REVER RECEPTACE (ODTION)C6,D18,E18,C5SW= SUCTION MODULATION VALVEM20ICINTERNAL PROTECTOR <trr< td=""><td></td><td></td><td></td><td></td></trr<>				
H10,14 CM = CONDENSER FAN MOTOR E7,T1 CP = COMPRESSOR MOTOR A20 CPS = COMPRESSOR MOTOR A20 CPSS = COMPRESSOR MOTOR C20 CPSS = COMPRESSOR SUCTION SENSOR (TEMP.) C20 CPS = COMPRESSOR SUCTION SENSOR (TEMP.) C20 CPS = COMPRESSOR SUCTION SENSOR (TEMP.) C20 CPT = OEFROST HEATER - BOTTOM RIGHT T3 DHTR = DEFROST HEATER - TOP RIGHT T3 DHT = DEFROST HEATER - TOP RIGHT T4 DPA + DATIN PAN HEATER TONALSON T4 DVA + OLAL VOLTAGE MODULE (OPTIONAL) C1 DVA POUL VOLTAGE MODIACE (CONTONAL) C12,M11,P6 EF = EVAPCRATOR FAN CONTACTOR ALCON ADSTOR T42,R5 EK = FUSE FLA <td< td=""><td>M7,P1</td><td>СН</td><td>_</td><td>COMPRESSOR CONTACTOR</td></td<>	M7,P1	СН	_	COMPRESSOR CONTACTOR
E7, T1CP— COMPRESSOR NOTORA20CPDS— COMPRESSOR DISCHARGE SENSOR (TEMP.)C20CPT— CONDENSER PRESSURE TRANSDUCERG20CPT— CONDENSER PRESSURE TRANSDUCERM1CS— CURRENT SENSORT3DHEL— DEFROST HEATER - BOTTOM LEFTT3DHT— DEFROST HEATER - TOP LEFTR3DHT— DEFROST HEATER - TOP LEFTR3DHT— DEFROST HEATER - TOP LEFTR3DHT— DEFROST HEATER - TOP LEFTR3DPH— DEFROST EMPERATURE SENSOR20DT— DISCHARGE PRESSURE TRANSDUCER (OPTION)C20DT— DUAL VOLTACE RECEPTACLE (OPTIONAL)E1DVM— DUAL VOLTACE RECEPTACLE (OPTIONAL)L12,M1,P6EF— EVAPORATOR FAN CONTACTOR (LICH SPEED)C11,H1,T6,T9M— EVAPORATOR FAN CONTACTOR (LICH SPEED)C6,D19,E18,O5F— FUSEFLAFUGL LOAD AMPSH7HPS— HIGH PRESSURE SWITCHM13,P2HR— HEAT TERNINATION THERMOSTATM14IRLINTERNAL PROTECTORM14RLINTERNAL PROTECTORB16KP— REMOTE MONITORING RECEPTACLE (OPTION)B16KP— REMOTE MONITORING RECEPTACLE (OPTION)B20RT5— RETURN TEMPERATURE SENSOR (OPTION)B21L12,L14,L16RMRM— REMOTE MONITORING RECEPTACLE (OPTION)B20RT5— RETURN TEMPERATURE SENSOR (OPTION)B20RT5— RETURN TEMPERATURE SENSOR (OPTION)<	M6	C-L	_	
A20 CPDS COMPRESSOR DISCHARE SENSOR (TEMP.) C20 CPSS COMPRESSOR SUCTION SENSOR (TEMP.) C20 CPS COMPRESSOR SUCTION SENSOR (TEMP.) C20 CPS CONDENSER PRESSURE TRANSDUCER M1 CS CURRENT SENSOR T3 DHBR DEFROST HEATER - BOTTOM LEFT T3 DHT DEFROST HEATER - TOP LIGHT T3 DHT DEFROST HEATER - TOP RIGHT M15 DL DEFROST LIGHT (OPTION) R3 DPH DEFROST TEMPERATURE SENSOR J20 DT DISCHARGE PRESSURE TRANSDUCER (OPTION) C20 DT DUAL VOLTAGE MODULE (OPTIONAL) L12,M11,P6 F EVAPORATOR FAN CONTACTOR (HIGH SPEED) G11,H11,T6,T9 M EVAPORATOR FAN CONTACTOR (LIGH SPEED) G4,DB,E18,65 F FULL K12 MT HPS H7 HPS HIGH PRESSURE SWITCH M13,P2 HR HEATER CONTACTOR K20 HS HUMIDITY SENSOR F13 HT <	H10,T4	СМ	_	CONDENSER FAN MOTOR
C20CPSCOMPRESSOR SUCTION SENSOR (TEMP.)G20CPTCOUNDENSER PRESSURE TRANSDUCERG20CPTCOUNDENSER PRESSURE TRANSDUCERT3DHBLDEFROST HEATER - BOTTOM LEFTT3DHTDEFROST HEATER - TOP LEFTR3DHTDEFROST HEATER - TOP RIGHTR3DHTDEFROST SILATER - TOP RIGHTR3DPHDEFROST SILATER - TOP RIGHTR3DPHDEFROST EMPERATURE SENSORJ20DPTDISCHARGE PRESSURE TRANSDUCER (OPTIONAL)C20DTSDEFROST TEMPERATURE SENSORD1DVMDUAL VOLTAGE MODULE (OPTIONAL)L12,M11,P6EFEVAPORATOR FAN CONTACTOR (HIGH SPEED)G1,H11,T6,T9EMEVAPORATOR FAN CONTACTOR (LOW SPEED)C6,D19,E18,G5FFULL LOAD AMPSH7HP5HIGH PRESSURE SWITCHM12,R6ESEVAPORATOR CANCOR CONNECTOR (LOW SPEED)C6,D19,E18,G5FFULL LOAD AMPSH7HP5HIGH PRESSURE SWITCHM12,R6ESEVAPORATOR CONNECTOR (DPTION)L6I.11,H1,H1IPF10INTERNAATOR CONNECTOR (OPTION)E7,F11,H10,H11IPINTERNAATOR CONNECTOR (OPTION)E16MD5MANUAL DEFROST SWITCHM20RF5RETURN RECORDER SENSOR (OPTION)E16MD5MANUAL DEFROST SWITCHD20,L20,M20,P20PRPROBE RECEPTACLE (USDA OPTION)E16MD5SUCTION NEDEVERTACLE (OPTION)K20SF5SUCTION NEDEVERTACLE SENSOR <t< td=""><td>E7,T1</td><td>CP</td><td>—</td><td>COMPRESSOR MOTOR</td></t<>	E7,T1	CP	—	COMPRESSOR MOTOR
620 CPT CONDENSER PRESSURE TRANSDUCER M1 CS CURRENT SENSOR T3 DHB DEFROST HEATER - BOTTOM LEFT T3 DHB DEFROST HEATER - BOTTOM RIGHT T3 DHT DEFROST HEATER - TOP RIGHT R3 DHT DEFROST HEATER - TOP RIGHT M15 DL DEFROST HEATER - TOP RIGHT M16 DRANCE DEFROST HEATER - TOP RIGHT M17 DEFROST TEMPERATURE SENSOR DI J200 DT DISCHARGE PRESSURE TRANSDUCER (OPTIONAL) C20 DTS DUAL VOLTAGE RECEPTACLE (OPTIONAL) L12,M11,P6 EF EVAPORATOR FAN MOTOR M12,R6 ES HUMIDITY SENSOR F13 HT HEATER CONTACTOR M14 RL INTERROATOR CONNECTOR (OPTION) F2,F11,H10,H11 HE				
M1CS—CURRENT SENSORT3DHBL—DEFROST HEATER - BOTTOM LEFTT3DHTL—DEFROST HEATER - TOP LEFTR3DHT—DEFROST HEATER - TOP RIGHTR3DHT—DEFROST LIGHT (OPTION)R3DPH—DERAST LIGHT (OPTION)R3DPH—DERAST LIGHT (OPTION)C20DTS—DEFROST TEMPERATURE SENSORD1DVM—DUAL VOLTAGE MODULE (OPTIONAL)L12,M11,P6EF—EVAPORATOR FAN CONTACTOR (HIGH SPEED)C4,11,11,T6,T9EM—EVAPORATOR FAN CONTACTOR (LOW SPEED)C6,D18,E18,65F—FUSEFLA—FULL LOAD AMPSH7HPS—HIGH PRESSURE SWITCHM13,P2HR—HEATER CONTACTOR (OPTION)E70HS—HIGH PRESSURE SWITCHM13,P2HR—HEATER CONTACTORF13HTT—HEATER CONTACTOR (OPTION)E7,F11,H10,H11IP—INTERNAL PROTECTORB16KP—KEYAD CONNECTOR (OPTION)E15MDS—RETURN RECORDER SENSOR (OPTION)L6,L14,L16RM—RETURN RECORDER SENSOR (OPTION) <t< td=""><td></td><td></td><td>—</td><td></td></t<>			—	
T3 DHBL — DEFROST HEATER - BOTTOM LEFT T3 DHBR — DEFROST HEATER - TOD LEFT R3 DHT — DEFROST HEATER - TOP RIGHT M15 DL — DEFROST LEIGHT (OPTION) R3 DPH — DRIN PAN HEATER J20 DT — DEFROST TEMPERATURE SENSOR C20 DTS — DEFROST TEMPERATURE SENSOR D1 DVM — DUAL VOLTAGE RECEPTACLE (OPTIONAL) L12,M11,P6 EF — EVAPORATOR FAN CONTACTOR (HIGH SPEED) G6,D18,E18,65 F — EVAPORATOR FAN MOTOR M12,R6 ES — EVAPORATOR FAN MOTOR M13,P2 HR — HEATER CONTACTOR AN CONTACTOR (LOW SPEED) G6,D18,E18,65 F FUSE				
T3DHBR—DEFROST HEATER - BOTTOM RIGHTT3DHTL—DEROST HEATER - TOP LEFTR3DHT—DEROST HEATER - TOP RIGHTM15DL—DEROST HEATER - TOP RIGHTM20DFT—DISCHARGE PRESSURE TRANSDUCER (OPTION)C20DT5—DEROST TEMPERATURE SENSORD1DVM—DUAL VOLTAGE RECEPTACLE (OPTIONL)E1DVR—DUAL VOLTAGE RACE PARALERM11,T6,T3EM—EVAPORATOR FAN CONTACTOR (HIGH SPEED)C6,D18,E18,65F—EVAPORATOR FAN CONTACTOR (LOW SPEED)C6,D18,E18,65F—FUSEFLA—FULL LOAD AMPSH7HP5—HIGH PRESSURE SMITCHM13,P2HR—HEAT TERMINATION THERMOSTATM20ICINTERNAL PROTECTORF13HTT—HEAT TERMINATION THERMOSTATM20ICINTERNAL PROTECTORB16KP—KEYPAD CONNECTORB16KP—RETURN RECORDER SENSOR (OPTION)B16KP—SUCTION MODULATION VALVEB20SMS—SUCTION MODULATION VALV				
T3DHTLDEFROST HEATER - TOP LEFTR3DHTRDEROST HEATER - TOP RIGHTR3DHTDEROST LIGHT (OPTION)R3DPHDRAIN PAN HEATERJ20DT5DEROST TEMPERATURE SENSORD1DVMDUAL VOLTAGE MODULE (OPTIONAL)E1DVMDUAL VOLTAGE MODULE (OPTIONAL)L12,M11,P6EFEVAPORATOR FAN CONTACTOR (HIGH SPEED)G11,H11,T6,T9EMEVAPORATOR FAN CONTACTOR (LOW SPEED)C6,D18,E18,G5FFUSEFLAFFUSEK12,R6ESEVAPORATOR FAN CONTACTOR (LOW SPEED)C6,D18,E18,G5FFUSEF1AHP5HIGH PRESSURE SWITCHM13,P2HRHEATER CONTACTORF13HT1HEATER CONTACTORF20HSHUMIDITY SENSORF13HT1HEATER CONNECTORM14IRLINTERNAL PROTECTORM14IRLINTERNAL DEPROST SWITCHD20,L20,M20,P20PRPROBE RECEPTACLE (USDA OPTION)L6,L14,L16RMRETURN RECORDER SENSOR (OPTION)L60RS5SUCTION NEDULATION VALVEP20SR5SUPLY RECORDER SENSOR (OPTION)K20SR5SUPLY RECORDER SENSOR (OPTION)K20SR5SUPLY RECORDER SENSOR (OPTION)K20SR5SUPLY RECORDER SENSOR (OPTION)K20SR5SUPLY TEMPERATURE SENSORK7TCCONTROLLER RELAY (CONDENSET FANSUCER (OPTION)K4STSTANSFRESH COMMUNICATIONS CONNECTOR (OPTION) <t< td=""><td></td><td></td><td>_</td><td></td></t<>			_	
R3DHTRADEFROST HEATER - TOP RIGHTM15DL-DEROST LIGHT (OPTION)R3DPT-DEROST LIGHT (OPTION)J20DPT-DISCHARGE PRESSURE TRANSDUCER (OPTION)C20DTS-DEFROST TEMPERATURE SENSORD1DVM-DUAL VOLTAGE RECEPTACLE (OPTIONAL)L12,M11,P6EF-EVAPORATOR FAN CONTACTOR (HIGH SPEED)G11,H11,T6,T9EM-EVAPORATOR FAN CONTACTOR (LOW SPEED)C6,D19,E18,65F-FUEC7,F11,H17,67HPS-HULL LOAD AMPSH7HPS-HIGH PRESSURE SWITCHM13,P2HR-HEATER CONTACTORF20HS-HUMIDITY SENSORF13HTT-HEAT TERMINATION THERMOSTATM20IC-INTERNAL PROTECTORM14IRL-INTERNAL PROTECTORB16MDS-RETURN RECORDER SENSOR (OPTION)E15MDS-RETURN RECORDER SENSOR (OPTION)L6,L14,L16RM-RETURN RECORDER SENSOR (OPTION)L6,L14,L16RM-SUCTION MOULATION VALVEH20SPT-SUCTION NERSURE TRANSDUCER (OPTION)L6,L14,L16RM-RETURN RECORDER SENSOR (OPTION)L6,L14,L16RM-SUCTION NECHORDITANSK20SPT-SUCTION SOLLTON VALVEK4ST-SUCTION SOLLTON VALVEK4ST-SUCTION SOLLTON VALVE <t< td=""><td></td><td></td><td>_</td><td></td></t<>			_	
M15DL=DEFROST LIGHT (OPTION)R3DPH=DRAIN PAN HEATERJ20DTS=DERROST TEMPERATURE SENSORD1DVM=DUAL VOLTAGE MODULE (OPTIONAL)E1DVM=DUAL VOLTAGE MODULE (OPTIONAL)L12,M11,P6EF=EVAPORATOR FAN CONTACTOR (HIGH SPEED)G11,H11,T6,T9EM=EVAPORATOR FAN CONTACTOR (HIGH SPEED)G11,H11,T6,T9EM=EVAPORATOR FAN CONTACTOR (LIOW SPEED)C6,D18,E18,65F=FUL LOAD AMPSH7HPS=HIGH PRESSURE SWITCHM13,P2HR=HEATER CONTACTORF20HS=HUMDITY SENSORF13HTT=HEATER CONTACTOR (OPTION)F2,F11,H10,H11IINTERROGATOR CONNECTOR (OPTION)B16KP=KEYPAD CONNECTORB16KD5=RENOTE MONITORING RECEPTACLE (OPTION)L6,L14,L16RM=RENOTE MONITORING RECEPTACLE (OPTION)L62SSV=SUUFION NEESSURE TRANSDUCER (OPTION)L7TC=SUUFION NEESSURE TRANSDUCER (OPTION)L8T=SUUFIV RECORDER SENSOR (OPTION)L9SSV=SUUFION NEESSURE TRANSDUCER (OPTION)L6CTRANSFRESH COMMUNICATION VALVEL7,F15,G10,J7,=SUUFIV RECORDER SENSOR (OPTION)K13TH=CONTROLLER RELAY (CONDENSER FAN)K14TF=DEFROST RELAYK14TF= <t< td=""><td></td><td></td><td></td><td></td></t<>				
J20DPT-DISCHARGE PRESSURE TRANSDUCER (OPTION)C20DTS-DEFROST TEMPERATURE SENSORD1DVM-DUAL VOLTAGE RECEPTACLE (OPTIONAL)E1DVR-DUAL VOLTAGE RECEPTACLE (OPTIONAL)L12,M11,P6EF-EVAPORATOR FAN CONTACTOR (HIGH SPEED)G11,H11,T6,T9EM-EVAPORATOR FAN CONTACTOR (LOW SPEED)C6,D18,E18,GSF-FUSEK12,R6ES-EVAPORATOR FAN CONTACTOR (LOW SPEED)C6,D18,E18,GSF-FULL LOAD AMPSH7HPS-HIGH PRESSURE SWITCHM13,P2HR-HEATER CONTACTORF13HTT-HEATER CONTACTOR (OPTION)F20HS-INTERNOGATOR CONNECTOR (OPTION)F13HTT-HEAT TERMINATION THERMOSTATM20IC-INTERNAL PROTECTORM14IRL-IN-RANGE LIGHT (OPTION)E7,F11,H10,H11IP-INTERNOGATOR SENSOR (OPTION)E0,L20,M20,P20PR-PROBE RECEPTACLE (USDA OPTION)L6,L14,L16RM-RETURN TEMPERATURE SENSORE16MDS-RETURN TEMPERATURE SENSOR (OPTION)K20RTS-RETURN TEMPERATURE SENSOR (OPTION)K20SPT-SUCTION MODULATION VALVEK20STS-SUCTION SOLENOID VALVEK44ST-STAT-STOP SWITCHL55SSV-SUCTION SOLENOID VALVEK44ST <t< td=""><td></td><td></td><td>_</td><td></td></t<>			_	
C20DTSDEFROST TEMPERATURE SENSORD1DVMDUAL VOLTAGE MODULE (OPTIONAL)E1DVMDUAL VOLTAGE RECEPTACLE (OPTIONAL)L12,M11,P6EFE VAPORATOR FAN CONTACTOR (HIGH SPEED)G11,H11,T6,T9EMEVAPORATOR FAN CONTACTOR (LOW SPEED)C6,D18,E18,C5F= FUSEFLAFLAFULL LOAD AMPSH7HP5= HIGH PRESSURE SWITCHM13,P2HR= HEATER CONTACTORF13HT= HEAT TERNINATION THERMOSTATM20IC= INTERNGATOR CONNECTOR (OPTION)F13HT= HEAT TERNINATION THERMOSTATM20IC= INTERNAL PROTECTORM14HIH= NANUAL DEFROST SWITCHB16KP= KEYPAD CONNECTORB16KP= RETURN TEMPERATURE SENSORC20,M20,P20RRS= RETURN TEMPERATURE SENSORC20SRS= SUCTION NOULATION VALVEK20SRS= SUCTION NOULATION VALVEK20SRS= SUCTION SOLENOID VALVEK44ST= SUCTION SOLENOID VALVEK44ST= SUCTION SOLENOID VALVEK44ST= CONTROLLER RELAY (COULING)K7TC= CONTROLLER RELAY (CONDENSER FANDK11TE= CONTROLLER RELAY (CONDENSER FANDK13TH= IRANSFRESH CONTROLLER (OPTION)K5TEC= TRANSFRESH CONTROLLER RELAY (CONDENSER FANDK13TH= CONTROLLER RELAY (CONDENSER FANDK14TF= DEFROST RELAY <trr>K14TF<</trr>	R3	DPH	_	DRAIN PAN HEATER
D1DVM—DUAL VOLTAGE MOULE (OPTIONAL)E1DVR—DUAL VOLTAGE RECEPTACLE (OPTIONAL)E12,M11,P6EF—EVAPORATOR FAN CONTACTOR (HIGH SPEED)G11,H11,T6,T9EM—EVAPORATOR FAN CONTACTOR (LOW SPEED)C6,D1B,E18,65F—FUSEFLA—FULL LOAD AMPSH7HPS—HIGH PRESSURE SWITCHM13,P2HR—HEATER CONTACTORF13HTT—HEATER CONTACTORF20HS—HUMIDITY SENSORF13HTT—HEATER CONTACTORF7,F11,H10,H11IP—INTERNAL PROTECTORM14IRL—IN-RANGE LIGHT (OPTION)B16KP—PROBE RECEPTACLE (USDA OPTION)L6,L14,L15RM—RETURN RECORDER SENSOR (OPTION)B20RTS—RETURN RECORDER SENSOR (OPTION)B20SPI—SUCTION MOULATION VALVEB20SPI—SUCTION NOLLATION VALVEB20SPI—SUCTION NEDSURE TANSDUCER (OPTION)K20SRS—SUPLY RECORDER SENSOR (OPTION)K20SRS—SUCTION NOLLATION VALVEK4ST—SUCTION NEDSURATIONS CONNECTOR (OPTION)K4ST—SUCTION NERSURATIONS CONNECTOR (OPTION)K50TCC—CONTROLLER RELAY (COOLING)K4ST—SUCTION NERSURATIONS CONNECTOR (OPTION)K51TCC—CONTROLLER RELAY (CONDENSER FAN)	J20	DPT	—	DISCHARGE PRESSURE TRANSDUCER (OPTION)
E1DVR—DUAL VOLTAGE RECEPTACLE (OPTIONAL)L12,M11,P6EF—EVAPORATOR FAN CONTACTOR (HIGH SPEED)G11,H11,TG,T9EM—EVAPORATOR FAN CONTACTOR (LOW SPEED)C6,D18,E18,G5F—FUSEFLAHGH PRESSURE SWITCHM13,P2HR—HIGH PRESSURE SWITCHM13,P2HR—HEATER CONTACTORF13HT—HEAT TERNINATION THERMOSTATM20IC—INTERNAL PROTECTORF14HR—INTERNAL PROTECTORM14IRL—INTERNAL PROTECTORB16KP—KEYPAD CONNECTORB16KP—REDUENCEORB16KP—REDUENCEORB16KP—REDUENCEORB16KP—REDUENCEORB17—REDUEN RECEPTACLE (USDA OPTION)B16KP—RETURN RECORDER SENSOR (OPTION)B20,L20,M20,P20R—RETURN TERCERDER SENSOR (OPTION)B20RTS—RETURN RECORDER SENSOR (OPTION)B20RTS—RETURN TERCERDER SENSOR (OPTION)B20SPT—SUCTION NOLLER RELAY (CONDECTOR (OPTION)B20SPT—SUCTION NOLLER RELAY (CONDECTOR (OPTION)B20STS—SUPPLY TEMPERATURE SENSORB20STS—SUPPLY TEMPERATURE SENSOR (OPTION)B20STS—SUPPLY TEMPERATURE SENSOR (OPTION)B21SUT—CONTROLLER RELAY (C20	DTS	—	DEFROST TEMPERATURE SENSOR
L12,M11,P6EF-EVAPORATOR FAN CONTACTOR (HIGH SPEED)G11,H11,T5,T9EM-EVAPORATOR FAN CONTACTOR (LOW SPEED)G6,D18,E18,G5F-FUSEFLA-FULL LOAD AMPSH7HPS-HIGH PRESSURE SWITCHM13,P2HR-HEATER CONTACTORF20HS-HUMIDITY SENSORF13HTT-HEATER CONTACTORF20IC-INTERROATOR CONNECTOR (OPTION)E7,F11,H10,H11IP-INTERROATOR CONNECTORB16KP-KEVPAD CONNECTORB16MDS-MANUAL DEFROST SWITCHD20,L20,M20,P20PR-PROBE RECEPTACLE (USDA OPTION)L6,L14,L16RM-RETURN TEMPERATURE SENSORE20SMY-SUCTION NOLLATION VALVEK20SRS-SUCTION NOLLATION VALVEK20SRS-SUCTION NOLLATION VALVEK20SRS-SUPLY RECORDER SENSOR (OPTION)K20SRS-SUPLY RECORDER SENSOR (OPTION)K20SRS-SUPLY TEMPERATURE SENSORK4ST-CONTROLLER RELAY (COOLING)K4TD-CONTROLLER RELAY (COMPRESOR)K11TE-CONTROLLER RELAY (CONDENSER FAN)G5TCC-TRANSFERSH CONTROLLER (CONTONLER FAN)G5TCC-TRANSFERSH CONTROLLER RELAY (CONDENSER FAN)G17,F15,610,J7, TP-TEANSFORMERG10 <td< td=""><td></td><td></td><td></td><td></td></td<>				
G11,H11,T6,T9EMEVAPORATOR FAN MOTORM12,R6ESEVAPORATOR FAN CONTACTOR (LOW SPEED)C6,D18,E18,G5FFUSEH2AFULL LOAD AMPSH7HPSHIGH PRESSURE SWITCHM13,P2HRHEATER CONTACTORF20HSHUMIDITY SENSORF13HTTHEAT TERMINATION THERMOSTATM20ICINTERNAL PROTECTORM14IRIN-RANGE LIGHT (OPTION)E7,F11,H10,H11IPINTERNAL PROTECTORM14IRIN-RANGE LIGHT (OPTION)B16KPKEYPAD CONNECTORE16MDSMANUAL DEFROST SWITCHD20,L20,M20,P20RPPROBE RECEPTACLE (USDA OPTION)L6,L14,L16RMRETURN RECORDER SENSOR (OPTION)B20RTSRETURN TEMPERATURE SENSORE20SMVSUCTION MODULATION VALVEH20SPTSUCTION NOLENGID VALVEK4STSTART-STOP SWITCHA20STSSUPPLY TEMPERATURE SENSOR (OPTION)K4STSTART-STOP SWITCHA20STSSUPPLY TEMPERATURE SENSORK7TCCONTROLLER RELAY (LOW SPEED COMPRESSOR)K11TECONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)G5TFCTRANSFRESH CONTROLLER (DETION)K13THCONTROLLER RELAY (CONDENSER FAN)D17,F15,610,J7, J10,J11,J13,M16THTEST POINTM3TRTRANSFORMERD11TRANSTRANSFORMER RAUTO 230/460 (OPTION)E15TS <td< td=""><td></td><td></td><td></td><td></td></td<>				
M12,RGESEVAPORATOR FAN CONTACTOR (LOW SPEED)C6,D18,E18,G5FFUSEFLAFULL LOAD AMPSH7HPSHIGH PRESSURE SWITCHM13,P2HRHEATER CONTACTORF20HSHUMIDITY SENSORF13HTTHEAT TERMINATION THERMOSTATM20ICINTERROGATOR CONNECTOR (OPTION)E7,F11,H10,H11IPINTERROGATOR CONNECTORB16KPKEYPAD CONNECTORB16MDSMANUAL DEFROST SWITCHD20,L20,M20,P20PRPROBE RECEPTACLE (USDA OPTION)L6,L14,L16RMRETURN TEMPERATURE SENSOR (OPTION)B20RTSRETURN TEMPERATURE SENSOR (OPTION)B20RTSRETURN TEMPERATURE SENSOR (OPTION)B20SPTSUCTION MODULATION VALVEH20SPTSUCTION SOLENOID VALVEK4STSTART-STOP SWITCHA20STSSUPPLY TEMPERATURE SENSOR (OPTION)K11TECONTROLLER RELAY (COOL ING)D5TCCTRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)K8TDCONTROLLER RELAY (LOW SPEED COMPRESSOR)K11TECONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)G5TFCTRANSFRESH CONTROLLER (OPTION)K13THCONTROLLER RELAY (CONDENSER FAN)D17,F15,G10,J7, J10,J11,J13,M16TPTEST POINTM3TRTRANSFORMERD1TRANSTRANSFORMER AUTO 230/460 (OPTION)E15TSCONTROLLER RELAY (SUCTION SOLENOID VALVE)K9 <td></td> <td></td> <td></td> <td></td>				
Control F FUSE FLA FULL LOAD AMPS H7 HPS HIGH PRESSURE SWITCH M13,P2 HR HEATER CONTACTOR F20 HS HUMIDITY SENSOR F13 HT HEATER CONTACTOR P20 IC INTERNAL PROTECTOR M20 IC INTERNAL PROTECTOR M14 IRL IN-RANGE LIGHT (OPTION) B16 KP KEYPAD CONNECTOR B16 KP PROBE RECEPTACLE (USDA OPTION) L6,L14,L16 RM REMOTE MONITORING RECEPTACLE (OPTION) K20 RS RETURN TEMPERATURE SENSOR (OPTION) B20 RS RETURN TEMPERATURE SENSOR (OPTION) K20 SF SUCTION MODULATION VALVE H20 SF SUCTION SOLENOID VALVE K4 ST START-STOP SWITCH A20 STS SUPPLY TEMPERATURE SENSOR K7 CC CONTROLLER RELAY (COOLING) D5 TCC TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION) K1 <				
FLAFULL LOAD AMPSH7HPSHIGH PRESSURE SWITCHM13,P2HRHEATER CONTACTORF20HSHUMIDITY SENSORF13HTTHEAT TERMINATION THERMOSTATM20ICINTERNAL PROTECTOR (OPTION)E7,F11,H10,H11IPINTERNAL PROTECTORM14IRLIN-RANGE LIGHT (OPTION)B16KPKEYPAD CONNECTORE13MTTHEMOTE MONITORING RECEPTACLE (OPTION)B16KPREMOTE MONITORING RECEPTACLE (OPTION)L6,L14,L16RMREMOTE MONITORING RECEPTACLE (OPTION)K20RSRETURN RECORDER SENSOR (OPTION)B20RTSRETURN TEMPERATURE SENSORE20SMVSUCTION PRESSURE TRANSDUCER (OPTION)K20SRSSUCTION PRESSURE TRANSDUCER (OPTION)K20SRSSUCTION SOLENOID VALVEK4STSTART-STOP SWITCHA20STSSUPPLY TEMPERATURE SENSORK7TCCONTROLLER RELAY (COOLING)D5TCCTRANSFRESH CONTROLLER (OPTION)K8TDCONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)G5TFCTRANSFRESH CONTROLLER (OPTION)K13THCONTROLLER RELAY (CONDENSER FAN)D17,F15,610,J7, J10,J11,J13,M16]TPTEST POINTM3TRTRANSFORMERD1TRANSTRANSFORMER AUTO 230/460 (OPTION)E15TSCONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TTCONTROLLER RELAY (COMPRESSOR SHORTING)	•			
H7HPSH H6H PRESSURE SWITCHM13,P2HRH HEATER CONTACTORF20HSHUMIDITY SENSORF13HTHEAT TERMINATION THERMOSTATM20ICINTERROGATOR CONNECTOR (OPTION)E7,F11,H10,H11IPINTERNAL PROTECTORM14IRLIN-RANGE LIGHT (OPTION)B16KPKEYPAD CONNECTORC10,L20,M20,P20PRPROBE RECEPTACLE (USDA OPTION)L6,L14,L16RMRETURN RECORDER SENSOR (OPTION)L6,L14,L16RMRETURN TEMPERATURE SENSORE20SMVSUCTION MODULATION VALVEP20SPSSUCTION NEESSURE TRANSDUCER (OPTION)K20SRSSUCTION NEESSURE TRANSDUCER (OPTION)K20SRSSUCTION NOLLATION VALVEH20SPTSUCTION SOLENOID VALVEK4STSUCTION SOLENOID VALVEK4STSUCPLY TEMPERATURE SENSORK77TCCONTROLLER RELAY (LOW SPEED COMPRESSOR)K11TECONTROLLER RELAY (LOW SPEED COMPRESSOR)K11TECONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)G5TFCTRANSFRESH CONTROLLER (ODTION)K13THCONTROLLER RELAY (CONDENSER FAN)M17,F15,610,J7,HTHEST POINTM3TRTRANSFORMER AUTO 230/460 (OPTION)E15TRANSTRANSFORMER AUTO 230/460 (OPTION)E15TATRANSFORMER AUTO 230/460 (OPTION)E15TACONTROLLER RELAY (COMPRESSOR SHORTING)K14TFOCONTROLLER RELAY (COMPRES	00,010,210,00			
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M20ICINTERROGATOR CONNECTOR (OPTION)E7,F11,H10,H11IPINTERNAL PROTECTORM14IRLINTERNAL PROTECTORM14IRLINTERNAL PROTECTORB16KPKEYPAD CONNECTORE16MDSMANUAL DEFROST SWITCHD20,L20,M20,P20PRPROBE RECEPTACLE (USDA OPTION)L6,L14,L16RMREMOTE MONITORING RECEPTACLE (OPTION)K20RRSRETURN RECORDER SENSOR (OPTION)B20RTSRETURN TEMPERATURE SENSORE20SMVSUCTION MODULATION VALVEH20SPTSUCTION PRESSURE TRANSDUCER (OPTION)K20SRSSUCTION SOLENOID VALVEK4STSTART-STOP SWITCHA20STSSUPPLY TEMPERATURE SENSORK7TCCONTROLLER RELAY (COOLING)D5TCCTRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)K8TDCONTROLLER RELAY (LOW SPEED COMPRESSOR)K11TECONTROLLER RELAY (HIGH SPEED COMPARTOR FANS)G5TFCTRANSFRESH CONTROLLER (OPTION)K13THCONTROLLER RELAY (HEATING)K14TFDEFROST RELAYK14TFDEFROST RELAYK14TFDEFROST RELAYK14TRTRANSFORMER AUTO 230/460 (OPTION)17,F15,610,J7, J10,J11,J13,M16TRANSFORMER AUTO 230/460 (OPTION)E5,F5TRCTRANSFORMER AUTO 230/460 (OPTION)E5,F5TRCONTROLLER RELAY (COMPRESSOR SHORTING)K9TT- CONTROLLER RELAY (COMPRESSOR SHORTING)		HS		
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M14IRLIRLIN-RANGE LIGHT (OPTION)B16KPKEYPAD CONNECTORE16MDSMANUAL DEFROST SWITCHD20,L20,M20,P20PRPRB16RMREMOTE MONITORING RECEPTACLE (OPTION)L6,L14,L16RMREMOTE MONITORING RECEPTACLE (OPTION)B20RTSRETURN RECORDER SENSOR (OPTION)B20RTSSUCTION MODULATION VALVEH20SPTSUCTION MODULATION VALVEH20SPTSUCTION SOLENOID VALVEK20RSSSUPPLY RECORDER SENSOR (OPTION)K20SSVSUCTION SOLENOID VALVEK4STSTART-STOP SWITCHA20STSSUPPLY TEMPERATURE SENSORK7TCCONTROLLER RELAY (COOLING)D5TCCTRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)K8TDCONTROLLER RELAY (LIGH SPEED EVAPORATOR FANS)G5TFCTRANSFRESH CONTROLLER (OPTION)K13THCONTROLLER RELAY (HEATING)K14TFDEFROST RELAYK14TFDEFROST RELAYK16TIINANARE RELAYK10TNCONTROLLER RELAY (CONDENSER FAN)D17,F15,G10,J7, J10,J11,J13,M16TRANSFORMERM3TRTRANSFORMERD1TRANSTRANSFORMER AUTO 230/460 (OPTION)E5,F5TSCONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TTONTROLLER RELAY (SUCTION SOLENOID VALVE)	M20	ΙC	—	INTERROGATOR CONNECTOR (OPTION)
B16KPKEYPAD CONNECTORE16MDSMANUAL DEFROST SWITCHD20,L20,M20,P20PRPROBE RECEPTACLE (USDA OPTION)L6,L14,L16RMREMOTE MONITORING RECEPTACLE (OPTION)K20RRSRETURN RECORDER SENSOR (OPTION)B20RTSRETURN TEMPERATURE SENSORE20SMVSUCTION MODULATION VALVEH20SPTSUCTION PRESSURE TRANSDUCER (OPTION)K20SRSSUPPLY RECORDER SENSOR (OPTION)K20SRSSUCTION SOLENOID VALVEK4STSTART-STOP SWITCHA200STSSUPPLY TEMPERATURE SENSORK7TCCONTROLLER RELAY (COOLING)D5TCCTRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)K8TDCONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)G5TFCTRANSFRESH CONTROLLER (OPTION)K13THCONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)G5TFCTRANSFRESH CONTROLLER (OPTION)K13THCONTROLLER RELAY (CONDENSER FAN)D17,F15,G10,J7, J10,J11,J13,M16TRTEST POINTM3TRTRANSFORMER AUTO 230/460 (OPTION)E15TSCONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TTCONTROLLER RELAY (SUCTION SOLENOID VALVE)		ΙP	—	INTERNAL PROTECTOR
E16MDS—MANUAL DEFROST SWITCHD20,L20,M20,P20PR—PROBE RECEPTACLE (USDA OPTION)L6,L14,L16RM—REMOTE MONITORING RECEPTACLE (OPTION)K20RRS—RETURN RECORDER SENSOR (OPTION)B20RTS—RETURN TEMPERATURE SENSORE20SMV—SUCTION MODULATION VALVEH20SPT—SUCTION PRESSURE TRANSDUCER (OPTION)K20RS—SUCTION SOLENOID VALVEK4ST—START-STOP SWITCHA20STS—SUPPLY TEMPERATURE SENSORK7TC—CONTROLLER RELAY (COOLING)D5TCC—TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)K8TD—CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)65TFC—TRANSFRESH CONTROLLER (OPTION)K13TH—CONTROLLER RELAY (HEATING)K14TF—DEFROST RELAYK10TN—CONTROLLER RELAY (CONDENSER FAN)D17,F15,610,J7, J10,J11,J13,M16TP—M3TR—TRANSFORMER AUTO 230/460 (OPTION)E15TS—CONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT—CONTROLLER RELAY (SUCTION SOLENOID VALVE)				
D20,L20,M20,P20PRPROBEPROBEPROBERECEPTACLE(USDA OPTION)L6,L14,L16RM-REMOTEMONITORINGRECEPTACLE(OPTION)K20RRS-RETURNRECORDERSENSOR(OPTION)B20RTS-RETURNTEMPERATURESENSORE20SMV-SUCTIONMODULATIONVALVEH20SPT-SUCTION PRESSURETRANSDUCER(OPTION)K20SRS-SUCTIONSUCE (OPTION)(OPTION)K4ST-START-STOPSWITCHA20STS-SUPPLYTEMPERATURESENSORK7TC-CONTROLLERRELAY(COOLING)D5TCC-TRANSFRESHCOMMUNICATIONSCONNECTORK11TE-CONTROLLERRELAY(HIGH SPEEDEVAPORATORK13TH-CONTROLLERRELAY(HEATING)K14TF-DEFROSTRELAY(HEATING)K15TN-CONTROLLERRELAY(CONDENSERK14TF-DEFROSTRELAY(CONDENSERFAN)D17,F15,610,J7,J10,J11,J13,M16TP-TESTPOINTM3TR-TRANSFORMERAUTO 230/460(OPTION)E5,F5TRC-TRANSFORMERAUTO 230/460(OPTION)E15TS-CONTROLLERRELAY(SUCTION SOLENOID VALVE)K9TT- <td></td> <td></td> <td></td> <td></td>				
L6,L14,L16RM-REMOTE MONITORING RECEPTACLE (OPTION)K20RRS-RETURN RECORDER SENSOR (OPTION)B20RTS-RETURN TEMPERATURE SENSORE20SMV-SUCTION MODULATION VALVEH20SPT-SUCTION PRESSURE TRANSDUCER (OPTION)K20SRS-SUCTION SOLENOID VALVEK4ST-START-STOP SWITCHA20STS-SUPPLY TEMPERATURE SENSORK7TC-CONTROLLER RELAY (COOLING)D5TCC-TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)K8TD-CONTROLLER RELAY (LOW SPEED COMPRESSOR)K11TE-CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)G5TFC-TRANSFRESH CONTROLLER (OPTION)K13TH-CONTROLLER RELAY (HEATING)K14TF-DEFROST RELAYK10TN-CONTROLLER RELAY (CONDENSER FAN)D17,F15,G10,J7, J10,J11,J13,M16TP-TEST POINTM3TR-TRANSFORMERD1TRANS-TRANSFORMER AUTO 230/460 (OPTION)E15TS-CONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT-CONTROLLER RELAY (COMPRESSOR SHORTING)				
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E20SMV—SUCTION MODULATION VALVEH20SPT—SUCTION PRESSURE TRANSDUCER (OPTION)K20SRS—SUPPLY RECORDER SENSOR (OPTION)H15SSV—SUCTION SOLENOID VALVEK4ST—START-STOP SWITCHA20STS—SUPPLY TEMPERATURE SENSORK7TC—CONTROLLER RELAY (COOLING)D5TCC—TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)K8TD—CONTROLLER RELAY (LOW SPEED COMPRESSOR)K11TE—CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)G5TFC—TRANSFRESH CONTROLLER (OPTION)K13TH—CONTROLLER RELAY (HEATING)K16TI—INRANGE RELAYK10TN—CONTROLLER RELAY (CONDENSER FAN)D17,F15,G10,J7, J10,J11,J13,M16TP—M3TR—TRANSFORMERD1TRANSTRANSFORMER AUTO 230/460 (OPTION)E5,F5TRC—TRANSFRESH REAR CONNECTOR (OPTION)E15TS—CONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT—CONTROLLER RELAY (COMPRESSOR SHORTING)				
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K4ST-START-STOP SWITCHA20STS-SUPPLY TEMPERATURE SENSORK7TC-CONTROLLER RELAY (COOLING)D5TCC-TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)K8TD-CONTROLLER RELAY (LOW SPEED COMPRESSOR)K11TE-CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)65TFC-TRANSFRESH CONTROLLER (OPTION)K13TH-CONTROLLER RELAY (HEATING)K16TI-INRANGE RELAYK14TF-DEFROST RELAYK10TN-CONTROLLER RELAY (CONDENSER FAN)D17,F15,G10,J7, J10,J11,J13,M16TP-K3TR-TEST POINTM3TR-TRANSFORMERD1TRANS-TRANSFORMER AUTO 230/460 (OPTION)E5,F5TRC-TRANSFRESH REAR CONNECTOR (OPTION)E15TS-CONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT-CONTROLLER RELAY (COMPRESSOR SHORTING)	K20	SRS	—	SUPPLY RECORDER SENSOR (OPTION)
A20STSSUPPLY TEMPERATURE SENSORK7TCCONTROLLER RELAY (COOLING)D5TCCTRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)K8TDCONTROLLER RELAY (LOW SPEED COMPRESSOR)K11TECONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)G5TFCTRANSFRESH CONTROLLER (OPTION)K13THCONTROLLER RELAY (HEATING)K16TIINRANGE RELAYK14TFDEFROST RELAYK10TNCONTROLLER RELAY (CONDENSER FAN)D17,F15,G10,J7, J10,J11,J13,M16TPTEST POINTM3TRTRANSFORMERD1TRANSTRANSFORMER AUTO 230/460 (OPTION)E5,F5TRCTRANSFRESH REAR CONNECTOR (OPTION)E15TSCONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT-CONTROLLER RELAY (COMPRESSOR SHORTING)	H15	SSV	—	SUCTION SOLENOID VALVE
K7TCCONTROLLER RELAY (COOLING)D5TCCTRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)K8TDCONTROLLER RELAY (LOW SPEED COMPRESSOR)K11TECONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)G5TFCTRANSFRESH CONTROLLER (OPTION)K13THCONTROLLER RELAY (HEATING)K16TIINRANGE RELAYK14TFDEFROST RELAYK10TNCONTROLLER RELAY (CONDENSER FAN)D17,F15,G10,J7, J10,J11,J13,M16TPTEST POINTM3TRTRANSFORMERD1TRANSTRANSFORMER AUTO 230/460 (OPTION)E5,F5TRCCONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT-	K4	ST	—	START-STOP SWITCH
D5TCCTRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)K8TD-CONTROLLER RELAY (LOW SPEED COMPRESSOR)K11TE-CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)G5TFC-TRANSFRESH CONTROLLER (OPTION)K13TH-CONTROLLER RELAY (HEATING)K16TI-INRANGE RELAYK14TF-DEFROST RELAYK10TN-CONTROLLER RELAY (CONDENSER FAN)D17,F15,G10,J7, J10,J11,J13,M16TP-R3TR-TRANSFORMERD1TRANSTRANSFORMER AUTO 230/460 (OPTION)E5,F5TRC-TRANSFRESH REAR CONNECTOR (OPTION)E15TS-CONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT-CONTROLLER RELAY (COMPRESSOR SHORTING)				
K8TD—CONTROLLER RELAY (LOW SPEED COMPRESSOR)K11TE—CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)G5TFC—TRANSFRESH CONTROLLER (OPTION)K13TH—CONTROLLER RELAY (HEATING)K16TI—INRANGE RELAYK14TF—DEFROST RELAYK10TN—CONTROLLER RELAY (CONDENSER FAN)D17,F15,G10,J7, J10,J11,J13,M16TP—M3TR—TRANSFORMERD1TRANSTRANSFORMER AUTO 230/460 (OPTION)E5,F5TRC—TRANSFRESH REAR CONNECTOR (OPTION)E15TS—CONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT—CONTROLLER RELAY (COMPRESSOR SHORTING)				
K11TE—CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)G5TFC—TRANSFRESH CONTROLLER (OPTION)K13TH—CONTROLLER RELAY (HEATING)K16TI—INRANGE RELAYK14TF—DEFROST RELAYK10TN—CONTROLLER RELAY (CONDENSER FAN)D17,F15,G10,J7, J10,J11,J13,M16TP—R3TR—TRANSFORMERD1TRANS—TRANSFORMER AUTO 230/460 (OPTION)E5,F5TRC—TRANSFRESH REAR CONNECTOR (OPTION)E15TS—CONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT—CONTROLLER RELAY (COMPRESSOR SHORTING)				
G5TFC—TRANSFRESH CONTROLLER (OPTION)K13TH—CONTROLLER RELAY (HEATING)K16TI—INRANGE RELAYK14TF—DEFROST RELAYK10TN—CONTROLLER RELAY (CONDENSER FAN)D17,F15,G10,J7, J10,J11,J13,M16TP—R3TR—TRANSFORMERD1TRANS—TRANSFORMER AUTO 230/460 (OPTION)E5,F5TRC—TRANSFRESH REAR CONNECTOR (OPTION)E15TS—CONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT—CONTROLLER RELAY (COMPRESSOR SHORTING)				
K13TH—CONTROLLER RELAY (HEATING)K16TI—INRANGE RELAYK14TF—DEFROST RELAYK10TN—CONTROLLER RELAY (CONDENSER FAN)D17,F15,G10,J7, J10,J11,J13,M16TP—TEST POINTM3TR—TRANSFORMERD1TRANS—TRANSFORMER AUTO 230/460 (OPTION)E5,F5TRC—TRANSFRESH REAR CONNECTOR (OPTION)E15TS—CONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT—CONTROLLER RELAY (COMPRESSOR SHORTING)				
K16TI—INRANGE RELAYK14TF—DEFROST RELAYK10TN—CONTROLLER RELAY (CONDENSER FAN)D17,F15,G10,J7, J10,J11,J13,M16TP—TEST POINTM3TR—TRANSFORMERD1TRANS—TRANSFORMER AUTO 230/460 (OPTION)E5,F5TRC—TRANSFRESH REAR CONNECTOR (OPTION)E15TS—CONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT—CONTROLLER RELAY (COMPRESSOR SHORTING)				
K10TN—CONTROLLER RELAY (CONDENSER FAN)D17,F15,G10,J7, J10,J11,J13,M16—TEST POINTM3TR—TRANSFORMERD1TRANS—TRANSFORMER AUTO 230/460 (OPTION)E5,F5TRC—TRANSFRESH REAR CONNECTOR (OPTION)E15TS—CONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT—CONTROLLER RELAY (COMPRESSOR SHORTING)				
D17,F15,G10,J7, J10,J11,J13,M16 P - TEST POINT M3 TR - TRANSFORMER D1 TRANS - TRANSFORMER AUTO 230/460 (OPTION) E5,F5 TRC - TRANSFRESH REAR CONNECTOR (OPTION) E15 TS - CONTROLLER RELAY (SUCTION SOLENOID VALVE) K9 TT - CONTROLLER RELAY (COMPRESSOR SHORTING)	K14	TF	—	DEFROST RELAY
J10, J11, J13, M16TRTEST POINTM3TRTRANSFORMERD1TRANSTRANSFORMER AUTO 230/460 (OPTION)E5, F5TRCTRANSFRESH REAR CONNECTOR (OPTION)E15T5CONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TTCONTROLLER RELAY (COMPRESSOR SHORTING)	K10	ΤN	—	CONTROLLER RELAY (CONDENSER FAN)
J10, J11, J13, M16JTRANSFORMERM3TR—D1TRANS—E5, F5TRC—TS—CONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT—CONTROLLER RELAY (COMPRESSOR SHORTING)	D17,F15,G10,J7,`	} _{TP}	_	TEST POINT
D1TRANS —TRANSFORMER AUTO 230/460 (OPTION)E5,F5TRC —TRANSFRESH REAR CONNECTOR (OPTION)E15TS —CONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT —CONTROLLER RELAY (COMPRESSOR SHORTING)		J		
E5,F5TRC—TRANSFRESH REAR CONNECTOR (OPTION)E15TS—CONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT—CONTROLLER RELAY (COMPRESSOR SHORTING)				
E15TS— CONTROLLER RELAY (SUCTION SOLENOID VALVE)K9TT— CONTROLLER RELAY (COMPRESSOR SHORTING)				
K9 TT - CONTROLLER RELAY (COMPRESSOR SHORTING)				
KIZ IV — CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)	K12	ΤV		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E10 WP - WATER PRESSURE SWITCH (OPTION)	E10	WP	_	WATER PRESSURE SWITCH (OPTION)

Figure 7-9. Electrical Schematic - See Model Chart (Sheet 1 of 2)

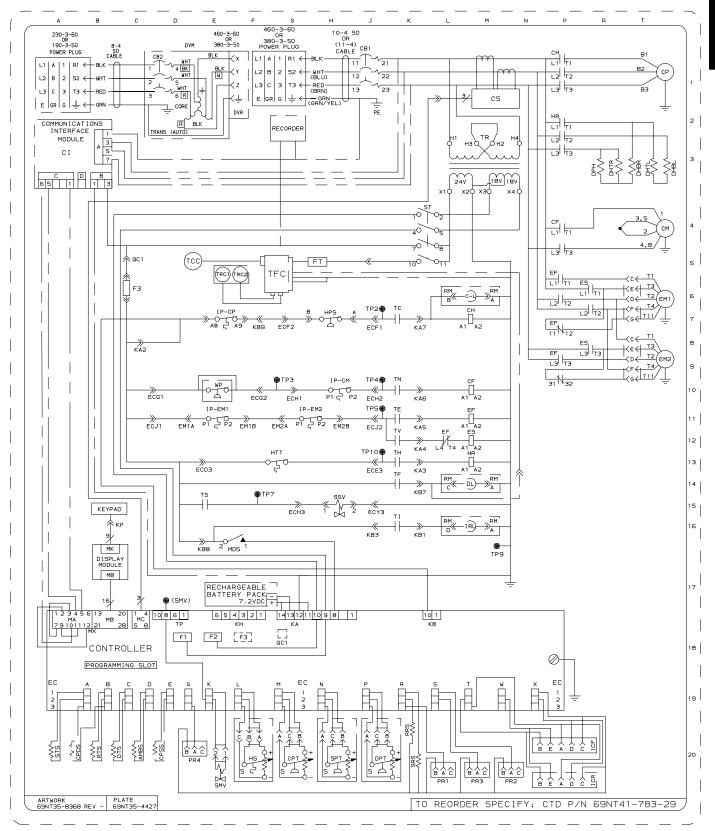
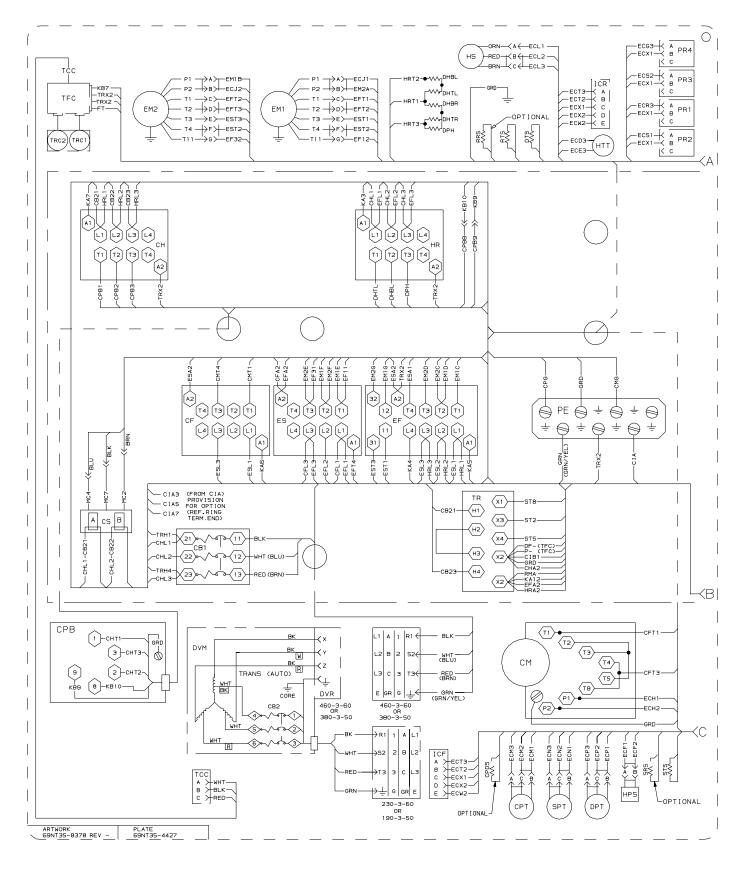


Figure 7-9. Electrical Schematic - See Model Chart (Sheet 2 of 2)





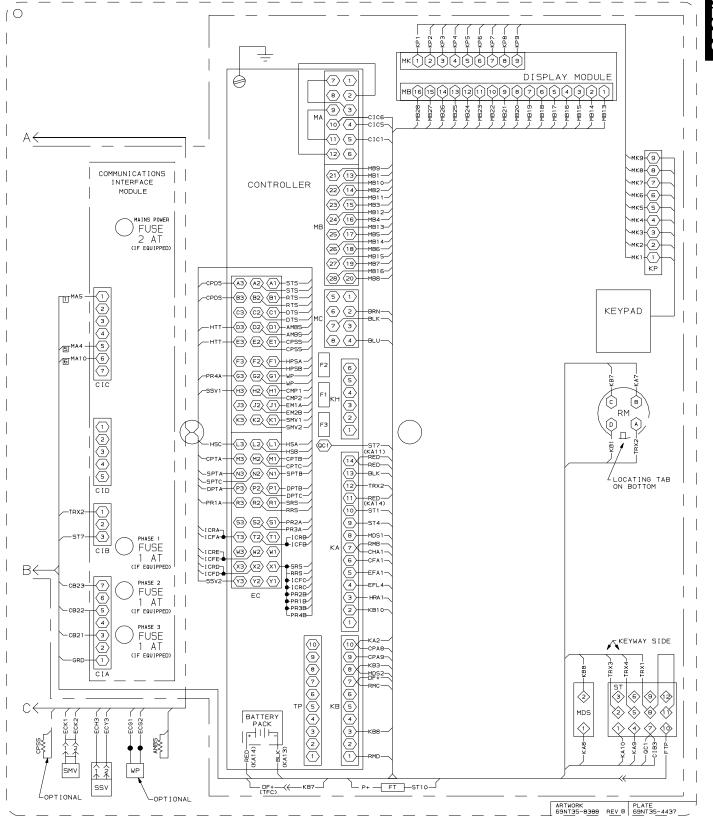


Figure 7-10. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

LEGEND

ZONE	SYMBOL		DESCRIPTION
 C20	AMBS	_	AMBIENT SENSOR
J1			CIRCUIT BREAKER 460V
M10,P4			CONDENSER FAN CONTACTOR
M7,P1			COMPRESSOR CONTACTOR
A3			COMMUNICATIONS INTERFACE MODULE
H10,T4	СМ	_	CONDENSER FAN MOTOR
E7,T1			COMPRESSOR MOTOR
, В20			COMPRESSOR DISCHARGE SENSOR (TEMP.)
D20			COMPRESSOR SUCTION SENSOR (TEMP.)
G20			CONDENSER PRESSURE TRANSDUCER
M1			CURRENT SENSOR
ТЗ		_	DEFROST HEATER - BOTTOM LEFT
ТЗ	DHBR	_	DEFROST HEATER - BOTTOM RIGHT
ТЗ	DHTL	_	DEFROST HEATER - TOP LEFT
R3	DHTR		DEFROST HEATER - TOP RIGHT
R3	DPH		DRAIN PAN HEATER
C20	DTS		DEFROST TEMPERATURE SENSOR
L12,M11,P6	EF	_	EVAPORATOR FAN CONTACTOR (HIGH SPEED)
E11,G11,T6,T9	EM	_	EVAPORATOR FAN MOTOR
M12,R6	ES		EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18	F	_	FUSE
	FLA	—	FULL LOAD AMPS
H7	HPS	—	HIGH PRESSURE SWITCH
M13,P2	HR	—	HEATER CONTACTOR
F20	HS	—	HUMIDITY SENSOR
G13	HTT	_	HEAT TERMINATION THERMOSTAT
P20	ΙC	—	INTERROGATOR CONNECTOR
E7,E11,G11,H10	ΙP	_	INTERNAL PROTECTOR
B16	KP	—	KEYPAD CONNECTOR
F16	MDS	—	MANUAL DEFROST SWITCH
D20,L20,M20,N20	PR	—	PROBE RECEPTACLE (USDA OPTION)
K20	RRS	—	RETURN RECORDER SENSOR
B20	RTS	—	RETURN TEMPERATURE SENSOR
E20	SMV	—	SUCTION MODULATION VALVE
K20	SRS	—	SUPPLY RECORDER SENSOR
H15	SSV	_	SUCTION SOLENOID VALVE
K4	ST	—	START-STOP SWITCH
A20	STS	—	SUPPLY TEMPERATURE SENSOR
К7	TC	—	CONTROLLER RELAY (COOLING)
K11	ΤE	—	CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
K13	ТН	—	CONTROLLER RELAY (HEATING)
K10		—	CONTROLLER RELAY (CONDENSER FAN)
D17,F15,G10,J7, J10,J11,J13,M16	} TP	—	TEST POINT
MЗ		—	TRANSFORMER
E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
K12	ΤV	—	CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)

Figure 7-11. Electrical Schematic - See Model Chart (Sheet 1 of 2)

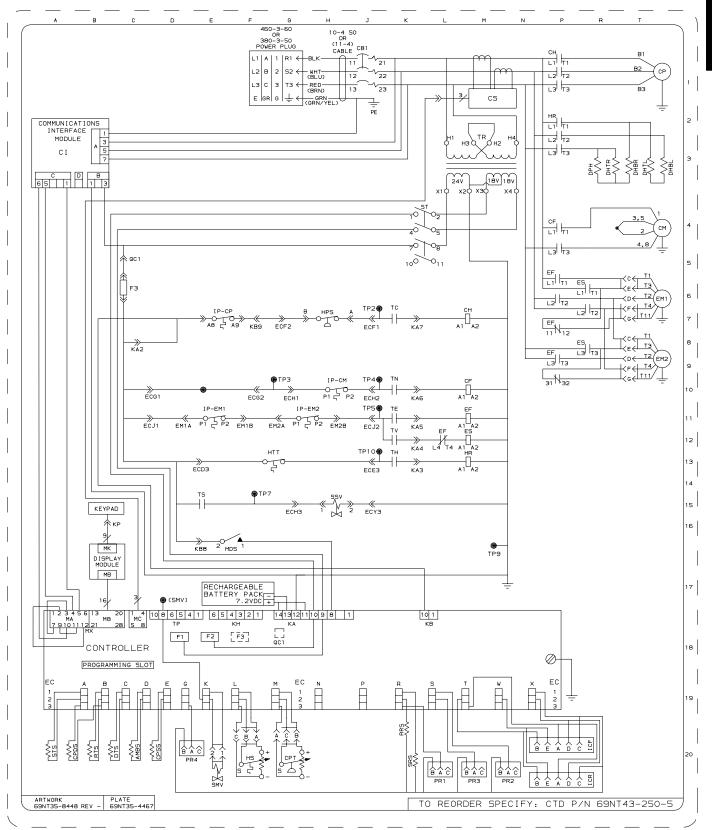
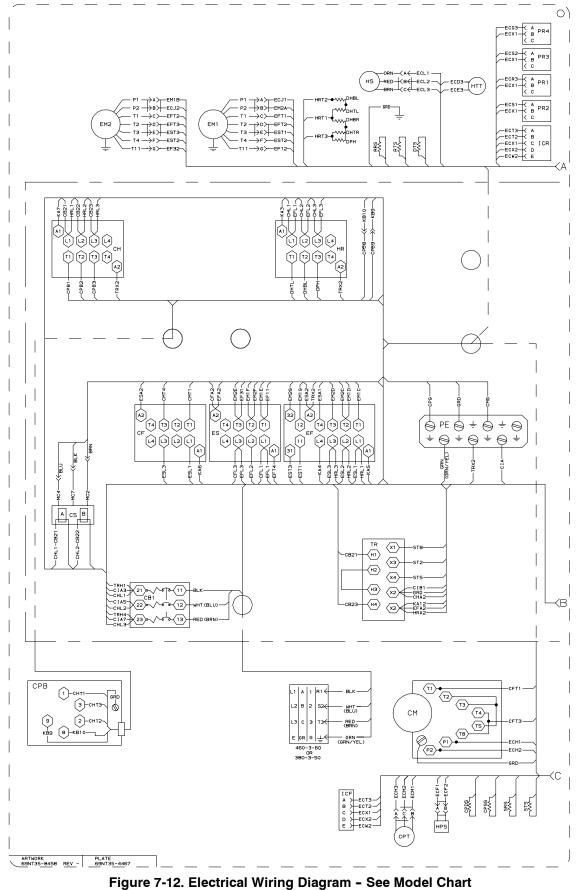


Figure 7-11. Electrical Schematic - See Model Chart (Sheet 2 of 2)



(Sheet 1 of 2)

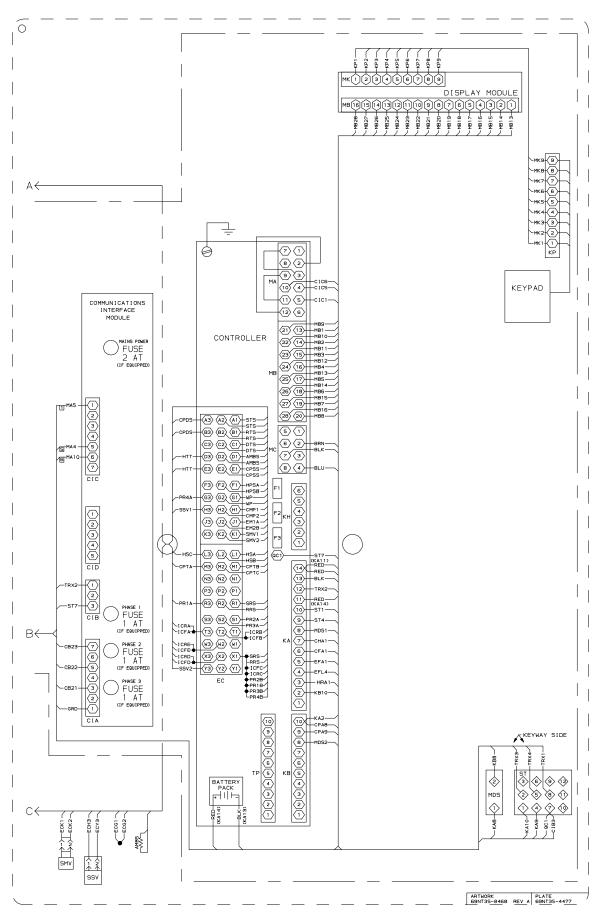
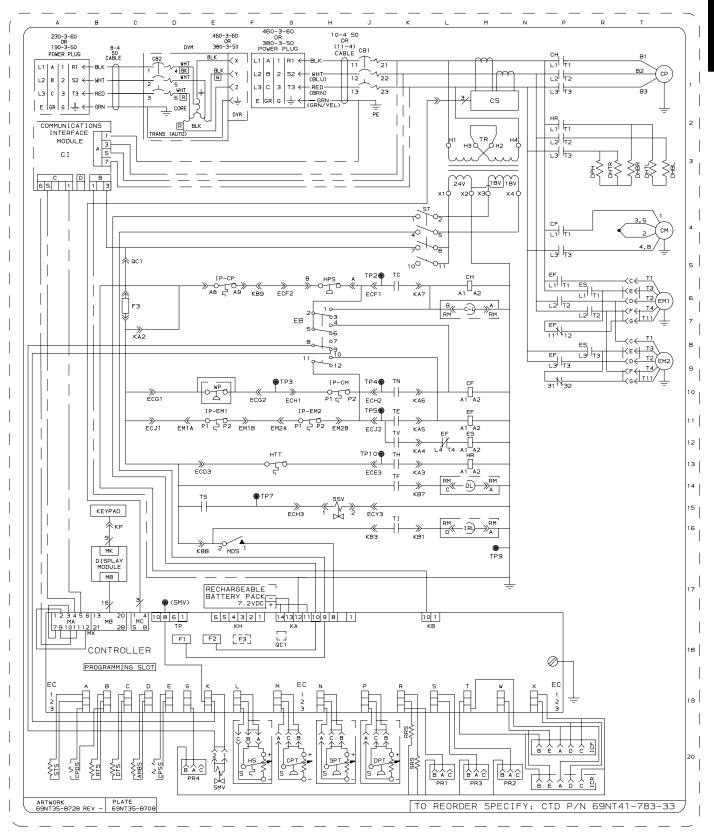
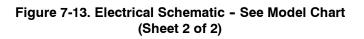


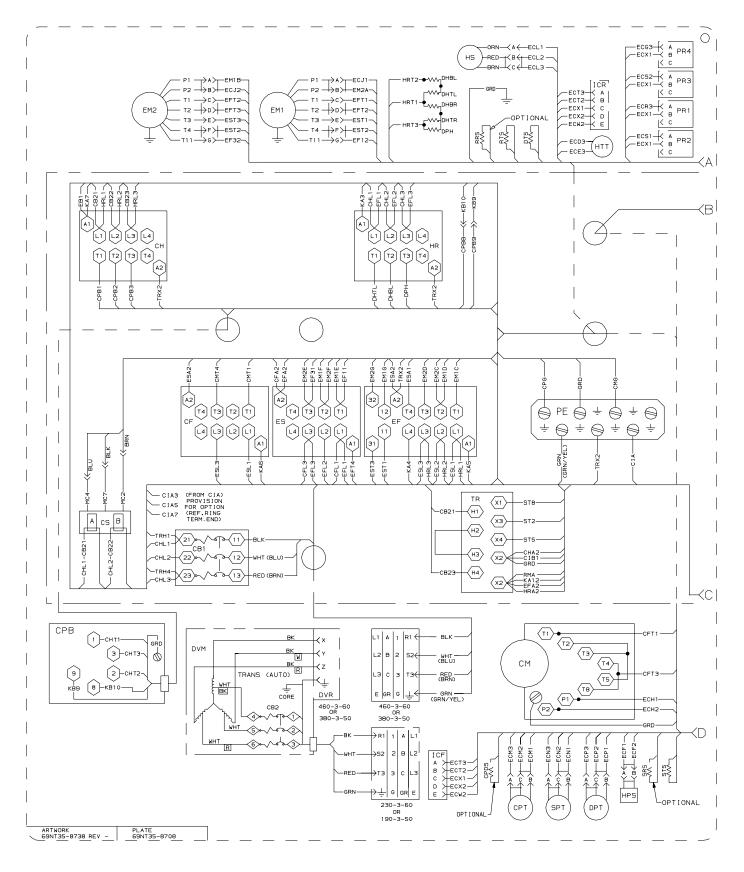
Figure 7-12. Electrical Wiring Diagram – See Model Chart (Sheet 2 of 2)

			LEGEND
ZONE S	YMBOL	_	DESCRIPTION
C19	AMBS	—	AMBIENT SENSOR
J1	CB1		CIRCUIT BREAKER 460V
D1	CB2		CIRCUIT BREAKER 230V (AUTO TRANS OPTION)
M9,P4	CF		CONDENSER FAN CONTACTOR
A3	CI		COMMUNICATIONS INTERFACE MODULE (OPTION)
M5,P1	СН		COMPRESSOR CONTACTOR
M6 H10,T4	C-L CM		COOL LIGHT (OPTION) CONDENSER FAN MOTOR
E7,T1	CP		COMPRESSOR MOTOR
A20	CPDS		COMPRESSOR DISCHARGE SENSOR (TEMP.)
C20	CPSS		COMPRESSOR SUCTION SENSOR (TEMP.)
G20	СРТ		CONDENSER PRESSURE TRANSDUCER
M1	CS	_	CURRENT SENSOR
ТЗ	DHBL	—	DEFROST HEATER - BOTTOM LEFT
ТЗ	DHBR	—	DEFROST HEATER - BOTTOM RIGHT
ТЗ	DHTL	—	DEFROST HEATER - TOP LEFT
RЗ	DHTR	—	DEFROST HEATER - TOP RIGHT
M15	DL	—	DEFROST LIGHT (OPTION)
R3	DPH		DRAIN PAN HEATER
J20	DPT		DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DTS		DEFROST TEMPERATURE SENSOR DUAL VOLTAGE MODULE (OPTIONAL)
D1 E1	DVM DVR		DUAL VOLTAGE RECEPTACLE (OPTIONAL)
H7	EB		EMERGENCY (CONTROLLER) BYPASS SWITCH
L12,M11,P6	EF	—	EVAPORATOR FAN CONTACTOR (HIGH SPEED)
G11,H11,T6,T9	EM	_	EVAPORATOR FAN MOTOR
M12,R6	ES	—	EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18	F	_	FUSE
	FLA	_	FULL LOAD AMPS
H5	HPS		HIGH PRESSURE SWITCH
M13,P2	HR		HEATER CONTACTOR
F20	HS		HUMIDITY SENSOR (OPTION)
F13 M20	НТТ IC		HEAT TERMINATION THERMOSTAT INTERROGATOR CONNECTOR (OPTION)
E5,F11,H10,H11	IP		INTERNAL PROTECTOR
M14	IRL		IN-RANGE LIGHT (OPTION)
B16	KP		KEYPAD CONNECTOR
E16	MDS	_	MANUAL DEFROST SWITCH
D20,L20,M20,P20	PR	—	PROBE RECEPTACLE (USDA OPTION)
L6,L14,L16	RM	_	REMOTE MONITORING RECEPTACLE (OPTION)
K20	RRS	—	RETURN RECORDER SENSOR (OPTION)
B20	RTS	—	RETURN TEMPERATURE SENSOR
E20	SMV		SUCTION MODULATION VALVE
H20	SPT		SUCTION PRESSURE TRANSDUCER (OPTION)
K20	SRS		SUPPLY RECORDER SENSOR (OPTION)
H15	SSV		SUCTION SOLENOID VALVE Start-stop switch
K4 A20	ST STS		SUPPLY TEMPERATURE SENSOR
K5	TC		CONTROLLER RELAY (COOLING)
K8	TD		CONTROLLER RELAY (LOW SPEED COMPRESSOR)
K11	TE		CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
K13	ТН		CONTROLLER RELAY (HEATING)
K16	ΤI	_	INRANGE RELAY
K14	TF	_	DEFROST RELAY
K10	ΤN	—	CONTROLLER RELAY (CONDENSER FAN)
D17,F15,G10,J7,	TP	_	TEST POINT
J10, J11, J13, M16			
M3	TR		TRANSFORMER
D1 E5,F5	TRC		TRANSFORMER AUTO 230/460 (OPTION)
E15	TS		TRANSFRESH REAR CONNECTOR (OPTION) CONTROLLER RELAY (SUCTION SOLENOID VALVE)
K9	TT		CONTROLLER RELAT (SOCTION SOLENOID VALVE)
K12	ΤV		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E10	WP		WATER PRESSURE SWITCH (OPTION)

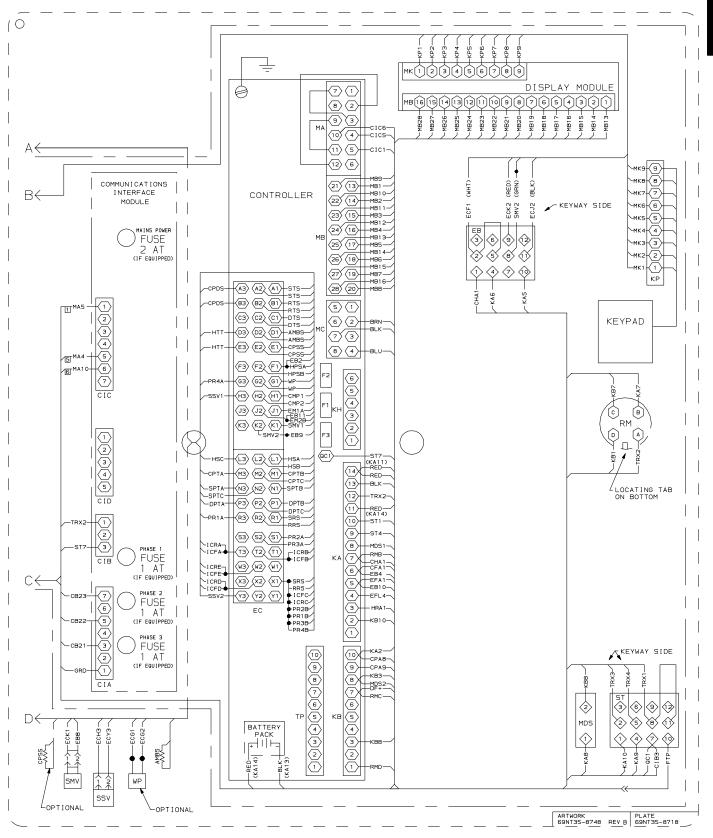
Figure 7-13. Electrical Schematic - See Model Chart (Sheet 1 of 2)

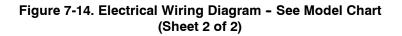








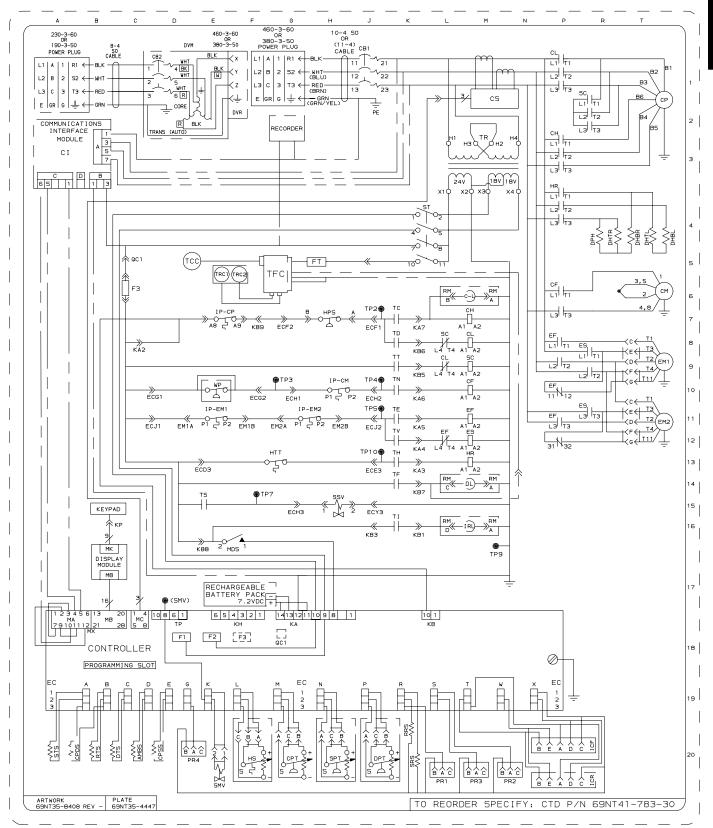


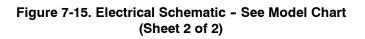


LEGEND

			LEGEND
ZONE S	YMBOL		DESCRIPTION
		-	
C19	AMBS		AMBIENT SENSOR
J1	CB1	_	CIRCUIT BREAKER 460V
D1	CB2	_	CIRCUIT BREAKER 230V (AUTO TRANS OPTION)
M9,P6	CF	—	CONDENSER FAN CONTACTOR
AB	CI	—	COMMUNICATIONS INTERFACE MODULE (OPTION)
M7, P1	СН	—	COMPRESSOR CONTACTOR (HIGH SPEED)
Мб	C-L	_	COOL LIGHT (OPTION)
L9,M8,P3	CL		COMPRESSOR CONTACTOR (LOW SPEED)
Н10,Т6	СМ		CONDENSER FAN MOTOR
E7,T1	CP		COMPRESSOR MOTOR
A20	CPDS		COMPRESSOR DISCHARGE SENSOR (TEMP.)
C20	CPSS		
			COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT		CONDENSER PRESSURE TRANSDUCER
M1	CS		CURRENT SENSOR
Τ4	DHBL		DEFROST HEATER - BOTTOM LEFT
Τ4	DHBR	—	DEFROST HEATER - BOTTOM RIGHT
Τ4	DHTL	—	DEFROST HEATER - TOP LEFT
R4	DHTR	—	DEFROST HEATER - TOP RIGHT
M15	DL	—	DEFROST LIGHT (OPTION)
R4	DPH	_	DRAIN PAN HEATER
J20	DPT	_	DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DTS		DEFROST TEMPERATURE SENSOR
D1	DVM		DUAL VOLTAGE MODULE (OPTIONAL)
E1	DVR		DUAL VOLTAGE RECEPTACLE (OPTIONAL)
L12,M11,P8	EF		
			EVAPORATOR FAN CONTACTOR (HIGH SPEED) EVAPORATOR FAN MOTOR
G11,H11,T9,T11	EM		
M12,R9	ES		EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18,G5	F		FUSE
	FLA	—	FULL LOAD AMPS
H7	HPS	—	HIGH PRESSURE SWITCH
M13,P4	HR	—	HEATER CONTACTOR
F20	HS	—	HUMIDITY SENSOR
F13	НТТ	_	HEAT TERMINATION THERMOSTAT
M20	IC		INTERROGATOR CONNECTOR (OPTION)
E7,F11,H10,H11	ΙP		INTERNAL PROTECTOR
M14	IRL		IN-RANGE LIGHT (OPTION)
B16	KP		KEYPAD CONNECTOR
E16	MDS		
			MANUAL DEFROST SWITCH
D20,L20,M20,P20	PR		PROBE RECEPTACLE (USDA OPTION)
L6,L14,L16	RM		REMOTE MONITORING RECEPTACLE (OPTION)
K20	RRS	_	RETURN RECORDER SENSOR (OPTION)
B20	RTS	—	RETURN TEMPERATURE SENSOR
L9,R2	SC	_	COMPRESSOR CONTACTOR (SHORTING)
E20	SMV	—	SUCTION MODULATION VALVE
H20	SPT	—	SUCTION PRESSURE TRANSDUCER (OPTION)
К20	SRS	_	SUPPLY RECORDER SENSOR (OPTION)
H15	SSV	_	SUCTION SOLENOID VALVE
K4	ST		START-STOP SWITCH
A20	STS		SUPPLY TEMPERATURE SENSOR
K7	тс		CONTROLLER RELAY (COOLING)
D5	TCC		TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)
K8	TD		CONTROLLER RELAY (LOW SPEED COMPRESSOR)
K11	TE		CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
G5	TFC		TRANSFRESH CONTROLLER (OPTION)
K13	ТН		CONTROLLER RELAY (HEATING)
K16	ΤI	—	INRANGE RELAY
K14	TF	_	DEFROST RELAY
К10	ΤN	—	CONTROLLER RELAY (CONDENSER FAN)
D17,F15,G10,J7,`	↓ TP		TECT DOINT
J10,J11,J13,M16,	(IP	_	TEST POINT
МЗ	TR	_	TRANSFORMER
D1		_	TRANSFORMER AUTO 230/460 (OPTION)
E5,F5	TRC		TRANSFRESH REAR CONNECTOR (OPTION)
E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
K9	TT		CONTROLLER RELAY (COMPRESSOR SHORTING)
	TV		
K12			CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E10	WP	_	WATER PRESSURE SWITCH (OPTION)

Figure 7-15. Electrical Schematic - See Model Chart (Sheet 1 of 2)





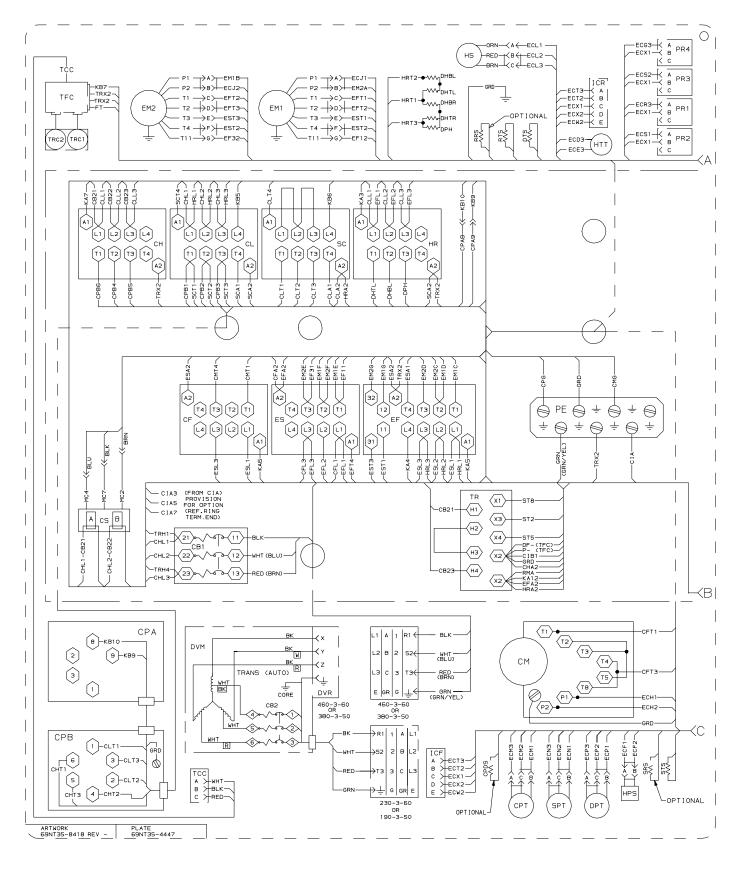


Figure 7-16. Electrical Wiring Diagram – See Model Chart (Sheet 1 of 2)

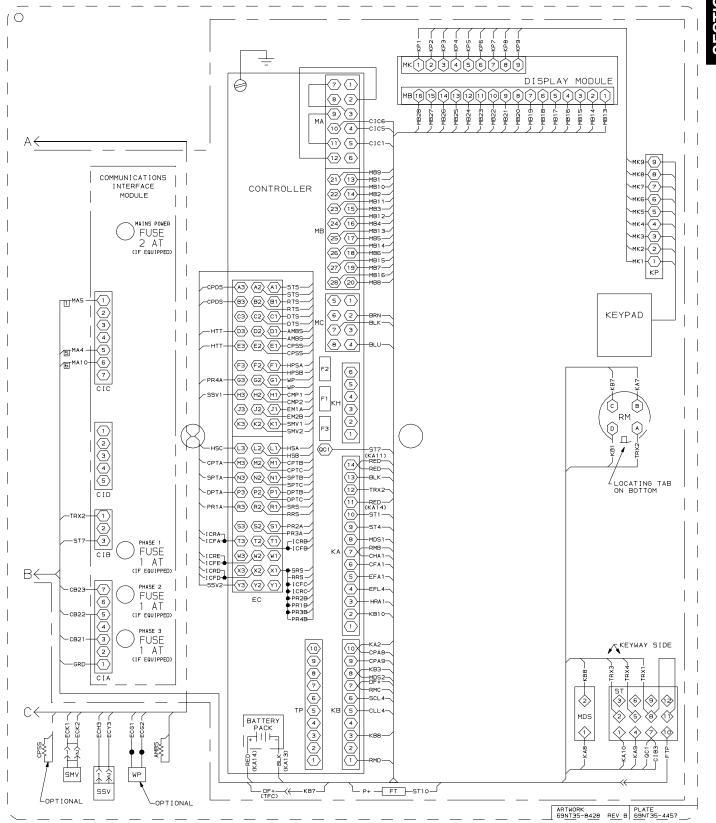
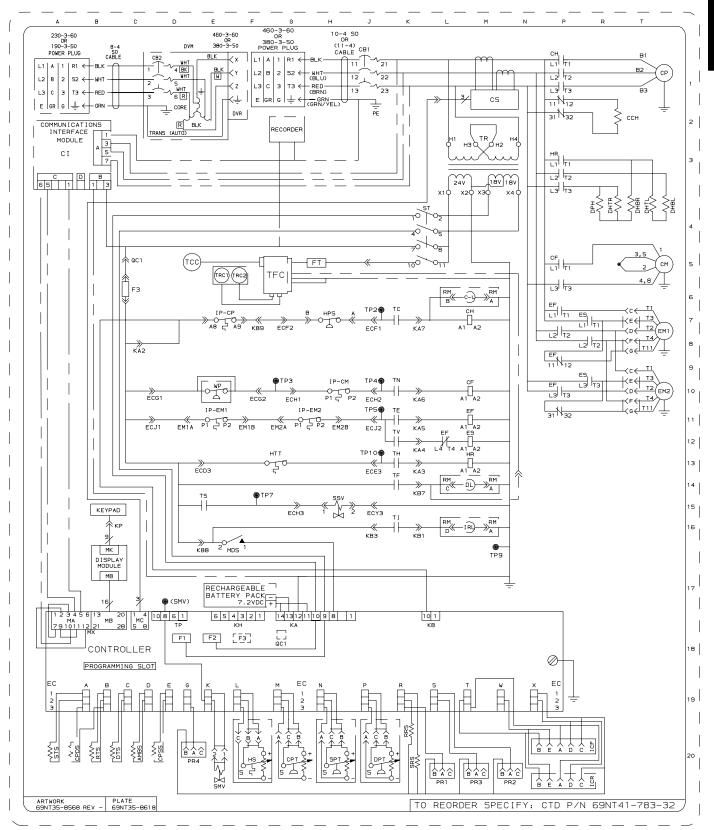
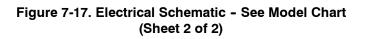


Figure 7-16. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

LEGEND				
ZONE S	YMBOL	_	DESCRIPTION	
C19			AMBIENT SENSOR	
J1	CB1		CIRCUIT BREAKER 460V	
D1 R2	СВ2 ССН		CIRCUIT BREAKER 230V (AUTO TRANS OPTION)	
K∠ M9,P5	CF		COMPRESSOR CRANKCASE HEATER CONDENSER FAN CONTACTOR	
A3	CI		COMMUNICATIONS INTERFACE MODULE (OPTION)	
M7,P1	СН		COMPRESSOR CONTACTOR	
MG	C-L		COOL LIGHT (OPTION)	
H10,T5	СМ	—	CONDENSER FAN MOTOR	
E7,T1	CP	—	COMPRESSOR MOTOR	
A20	CPDS		COMPRESSOR DISCHARGE SENSOR (TEMP.)	
C20	CPSS		COMPRESSOR SUCTION SENSOR (TEMP.)	
G20	CPT		CONDENSER PRESSURE TRANSDUCER	
M1 T4	CS		CURRENT SENSOR DEFROST HEATER – BOTTOM LEFT	
T4			DEFROST HEATER - BOTTOM RIGHT	
Τ4			DEFROST HEATER - TOP LEFT	
R4			DEFROST HEATER - TOP RIGHT	
M15	DL	_	DEFROST LIGHT (OPTION)	
R4	DPH	—	DRAIN PAN HEATER	
J20	DPT	—	DISCHARGE PRESSURE TRANSDUCER (OPTION)	
C20	DTS		DEFROST TEMPERATURE SENSOR	
D1 E1	DVM		DUAL VOLTAGE MODULE (OPTIONAL) DUAL VOLTAGE RECEPTACLE (OPTIONAL)	
L12,M11,P7	DVR EF		EVAPORATOR FAN CONTACTOR (HIGH SPEED)	
G11,H11,T7,T10			EVAPORATOR FAN CONTACTOR (HIGH SPEED)	
M12,R7	ES		EVAPORATOR FAN CONTACTOR (LOW SPEED)	
, C6,D18,E18,G5	F	_	FUSE	
	FLA	_	FULL LOAD AMPS	
H7	HPS	—	HIGH PRESSURE SWITCH	
M13,P3	HR	—	HEATER CONTACTOR	
F20	HS		HUMIDITY SENSOR	
F13	HTT		HEAT TERMINATION THERMOSTAT	
M20 E7,F11,H10,H11	IC IP		INTERROGATOR CONNECTOR (OPTION) INTERNAL PROTECTOR	
M14	IRL		INTERNAL PROTECTOR IN-RANGE LIGHT (OPTION)	
B16	KP		KEYPAD CONNECTOR	
E16	MDS		MANUAL DEFROST SWITCH	
D20,L20,M20,P20) PR	_	PROBE RECEPTACLE (USDA OPTION)	
L6,L14,L16	RM	—	REMOTE MONITORING RECEPTACLE (OPTION)	
K20	RRS		RETURN RECORDER SENSOR (OPTION)	
B20	RTS		RETURN TEMPERATURE SENSOR	
E20	SMV		SUCTION MODULATION VALVE	
H20 K20	SPT SRS		SUCTION PRESSURE TRANSDUCER (OPTION) SUPPLY RECORDER SENSOR (OPTION)	
H15	SSV		SUCTION SOLENOID VALVE	
K4	ST		START-STOP SWITCH	
A20	STS		SUPPLY TEMPERATURE SENSOR	
К7	ТС		CONTROLLER RELAY (COOLING)	
D5	TCC	—	TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)	
K8	TD		CONTROLLER RELAY (LOW SPEED COMPRESSOR)	
K11	ΤE		CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)	
G5	TFC		TRANSFRESH CONTROLLER (OPTION)	
K13 K16	ТН ТІ		CONTROLLER RELAY (HEATING) INRANGE RELAY	
K14	TF		DEFROST RELAY	
K10	ΤN		CONTROLLER RELAY (CONDENSER FAN)	
D17,F15,G10,J7 J10,J11,J13,M1	ÈTP ≸	_	TEST POINT	
MЗ	TR		TRANSFORMER	
D1			TRANSFORMER AUTO 230/460 (OPTION)	
E5,F5 E15	TRC TS		TRANSFRESH REAR CONNECTOR (OPTION)	
K9	TT		CONTROLLER RELAY (SUCTION SOLENOID VALVE) CONTROLLER RELAY (COMPRESSOR SHORTING)	
KJ K12	ΤV		CONTROLLER RELAY (COMPRESSOR SHORTING)	
E10	WP		WATER PRESSURE SWITCH (OPTION)	

Figure 7-17. Electrical Schematic - See Model Chart (Sheet 1 of 2)





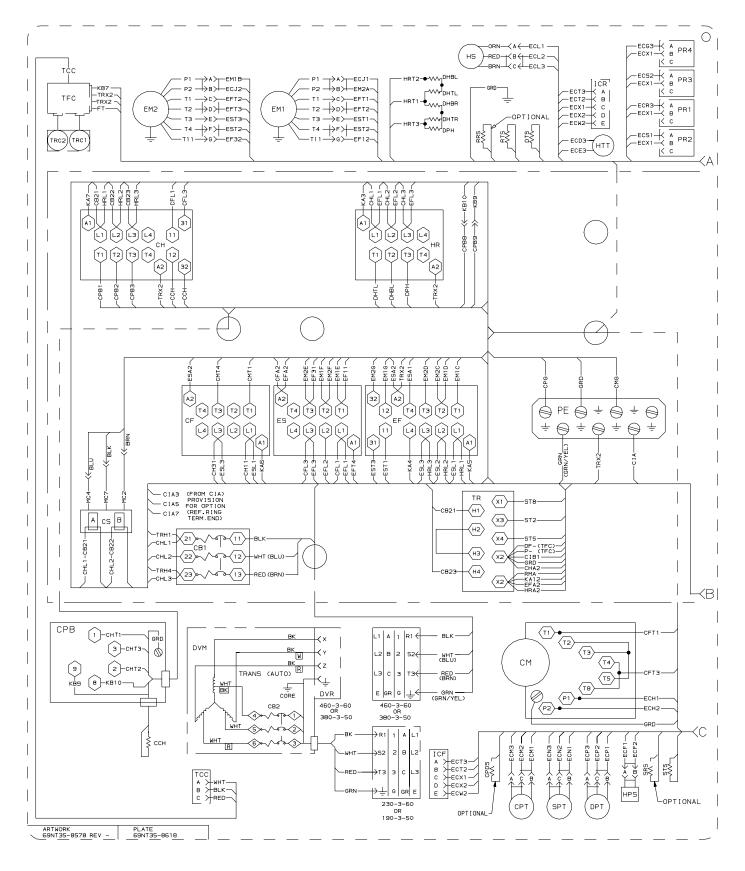


Figure 7-18. Electrical Wiring Diagram – See Model Chart (Sheet 1 of 2)

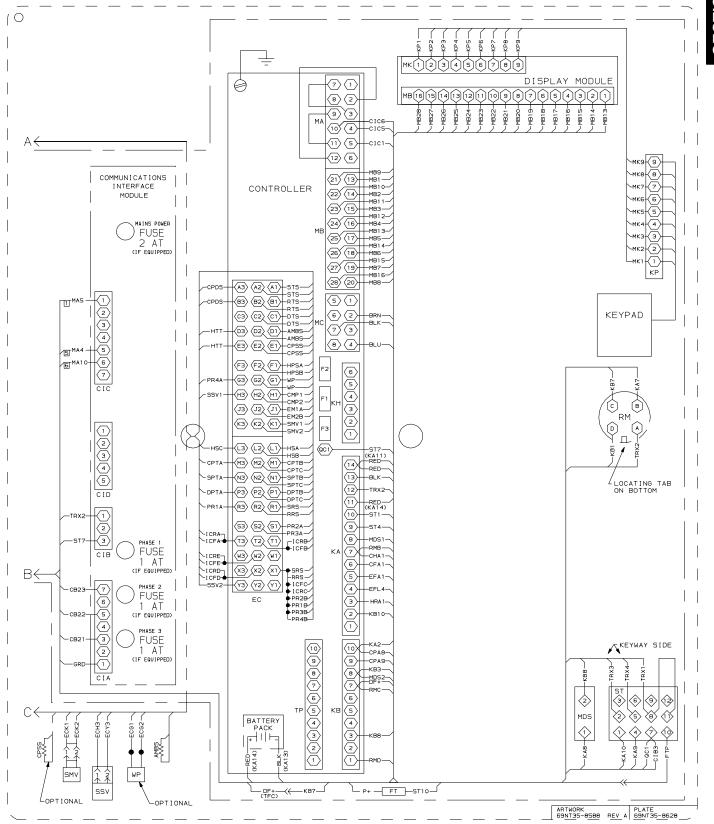
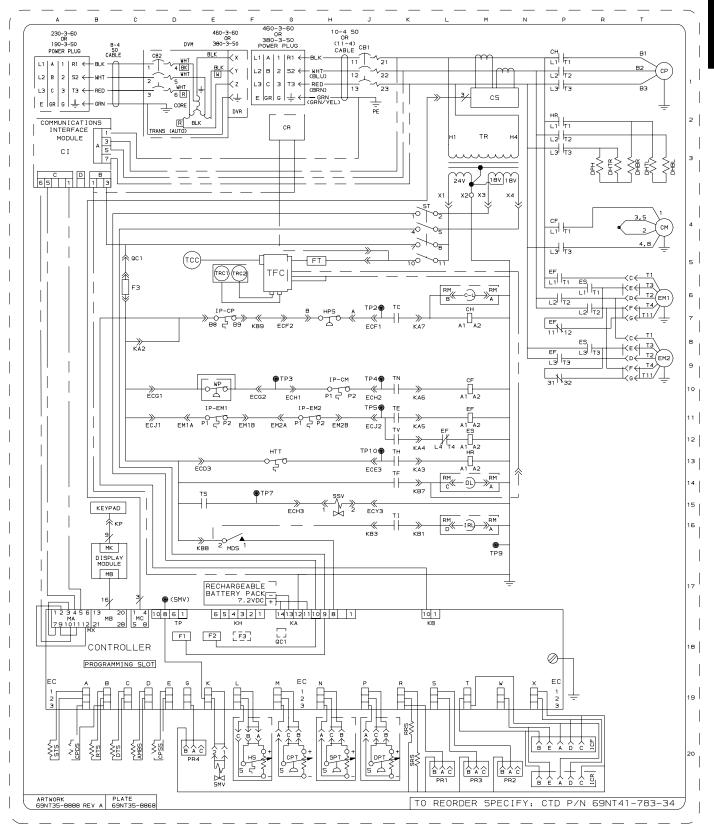
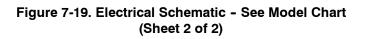


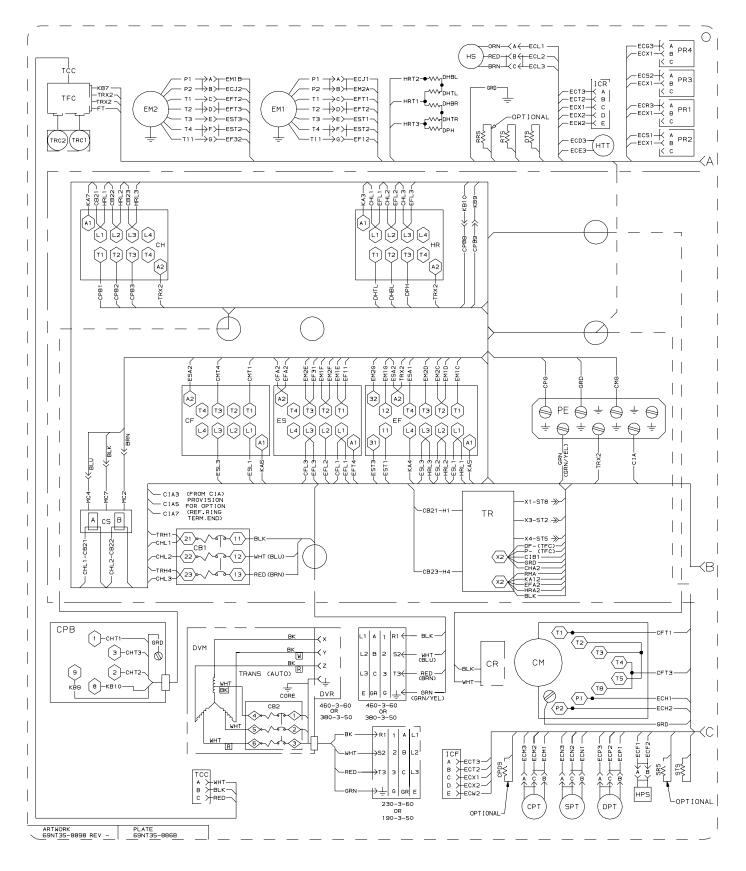
Figure 7-18. Electrical Wiring Diagram – See Model Chart (Sheet 2 of 2)

ZONE	5YMBOL		LEGEND DESCRIPTION
<u>2011</u>	AMBS	-	AMBIENT SENSOR
J1	CB1		CIRCUIT BREAKER 460V
D1	CB2		OPTIONAL CIRCUIT BREAKER 230V (DVM OPTION)
			TERMINAL BLOCK WHEN CB2 NOT PRESENT
M9,P4	CF	_	CONDENSER FAN CONTACTOR
AЭ	CI	—	COMMUNICATIONS INTERFACE MODULE (OPTION)
M7,P1	СН	—	COMPRESSOR CONTACTOR
MG	C-L	—	COOL LIGHT (OPTION)
H10,T4	СМ		CONDENSER FAN MOTOR
E7,T1	CP		COMPRESSOR MOTOR
A20 C20	CPDS CPSS		COMPRESSOR DISCHARGE SENSOR (TEMP.) COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPJJ		CONDENSER PRESSURE TRANSDUCER
G2	CR		CHART RECORDER (OPTION)
M1	CS		CURRENT SENSOR
ТЗ	DHBL	_	DEFROST HEATER - BOTTOM LEFT
ТЭ	DHBR	—	DEFROST HEATER - BOTTOM RIGHT
ТЗ	DHTL	—	DEFROST HEATER - TOP LEFT
RЗ	DHTR	—	DEFROST HEATER - TOP RIGHT
M15	DL		DEFROST LIGHT (OPTION)
R3	DPH		DRAIN PAN HEATER
J20	DPT		DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20 D1	DTS DVM		DEFROST TEMPERATURE SENSOR DUAL VOLTAGE MODULE (OPTIONAL)
E1	DVR		DUAL VOLTAGE RECEPTACLE (OPTIONAL)
L12,M11,P6	EF	_	EVAPORATOR FAN CONTACTOR (HIGH SPEED)
G11,H11,T6,T9	EM	—	EVAPORATOR FAN MOTOR
M12,R6	ES	—	EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18,G5	F	—	FUSE
	FLA		FULL LOAD AMPS
H7	HPS		HIGH PRESSURE SWITCH
M13,P2	HR		HEATER CONTACTOR
F20 F13	HS HTT		HUMIDITY SENSOR HEAT TERMINATION THERMOSTAT
M20	IC		INTERROGATOR CONNECTOR (OPTION)
E7,F11,H10,H11	ΙP		INTERNAL PROTECTOR
M14	IRL	_	IN-RANGE LIGHT (OPTION)
B16	KP	—	KEYPAD CONNECTOR
E16	MDS		MANUAL DEFROST SWITCH
D20,L20,M20,P20			PROBE RECEPTACLE (USDA OPTION)
L6,L14,L16	RM		REMOTE MONITORING RECEPTACLE (OPTION)
K20	RRS		RETURN RECORDER SENSOR (OPTION) RETURN TEMPERATURE SENSOR
B20 E20	RTS SMV	_	SUCTION MODULATION VALVE
H20	SPT	_	SUCTION PRESSURE TRANSDUCER (OPTION)
K20	SRS		SUPPLY RECORDER SENSOR (OPTION)
H15	SSV	_	SUCTION SOLENOID VALVE
K4	ST	—	START-STOP SWITCH
A20	STS		SUPPLY TEMPERATURE SENSOR
K7	ТС		CONTROLLER RELAY (COOLING)
D5	TCC		TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)
K8 K11	TD TE		CONTROLLER RELAY (LOW SPEED COMPRESSOR) CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
G5	TFC		TRANSFRESH CONTROLLER (OPTION)
K13	тн		CONTROLLER RELAY (HEATING)
K16	ΤI		INRANGE RELAY
K14	TF	_	DEFROST RELAY
K10	ΤN	—	CONTROLLER RELAY (CONDENSER FAN)
D17,F15,G10,J7,		_	TEST POINT
J10,J11,J13,M16 M3	TR	_	TRANSFORMER
D1			TRANSFORMER AUTO 230/460 (OPTION)
E5,F5	TRC		TRANSFRESH REAR CONNECTOR (OPTION)
E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
К9	ΤТ	_	CONTROLLER RELAY (COMPRESSOR SHORTING)
K12	ΤV		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E10	WP	_	WATER PRESSURE SWITCH (OPTION)

Figure 7-19. Electrical Schematic - See Model Chart (Sheet 1 of 2)









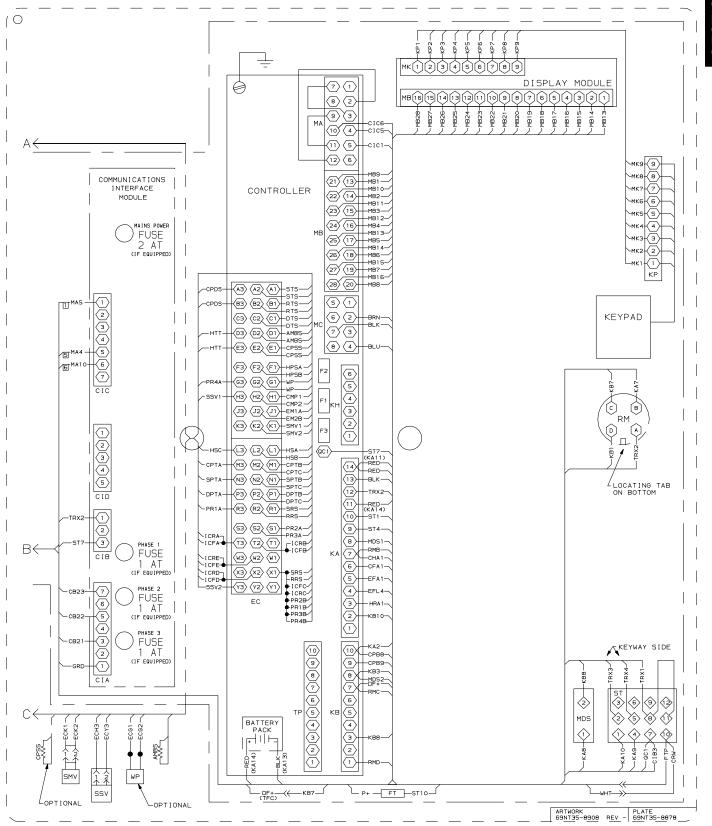
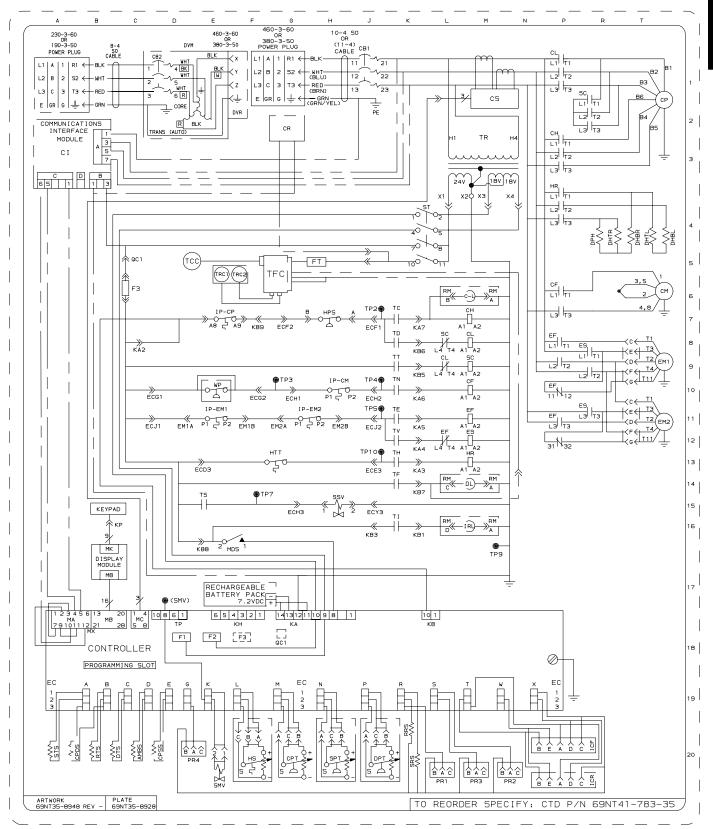


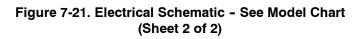
Figure 7-20. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

LEGEND

			LEGEND
ZONE	SYMBOL		DESCRIPTION
C19		-	
J1	CB1		AMBIENT SENSOR
D1			CIRCUIT BREAKER 460V
	CB2	_	OPTIONAL CIRCUIT BREAKER 230V (DVM OPTION)
M9,P6	CF		TERMINAL BLOCK WHEN CB2 NOT PRESENT
A3			CONDENSER FAN CONTACTOR
	CI		COMMUNICATIONS INTERFACE MODULE (OPTION)
M7,P1	СН		COMPRESSOR CONTACTOR (HIGH SPEED)
M6	C-L		COOL LIGHT (OPTION)
L9,M8,P3 H10,T6	CL		COMPRESSOR CONTACTOR (LOW SPEED)
,	CM		CONDENSER FAN MOTOR
E7,T1	CP		COMPRESSOR MOTOR
A20	CPDS		COMPRESSOR DISCHARGE SENSOR (TEMP.)
C20 G20	CPSS CPT		COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CR		CONDENSER PRESSURE TRANSDUCER
62 M1	CS		CHART RECORDER (OPTION) CURRENT SENSOR
Τ4	DHBL		DEFROST HEATER - BOTTOM LEFT
Τ4			DEFROST HEATER - BOTTOM RIGHT
Τ4	DHTL		DEFROST HEATER - TOP LEFT
R4			DEFROST HEATER - TOP RIGHT
M15	DL		DEFROST LIGHT (OPTION)
R4	DPH		DRAIN PAN HEATER
J20	DPT		DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DTS		DEFROST TEMPERATURE SENSOR
D1	DVM		DUAL VOLTAGE MODULE (OPTIONAL)
E1	DVR		DUAL VOLTAGE RECEPTACLE (OPTIONAL)
L12,M11,P8	EF		EVAPORATOR FAN CONTACTOR (HIGH SPEED)
G11,H11,T9,T11	EM		EVAPORATOR FAN MOTOR
M12,R9	ES		EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18,G5	F		FUSE
00,010,210,00	Fla		FULL LOAD AMPS
Н7	HPS		HIGH PRESSURE SWITCH
M13,P4	HR		HEATER CONTACTOR
F20	HS		HUMIDITY SENSOR
F13	HTT		HEAT TERMINATION THERMOSTAT
M20	IC		INTERROGATOR CONNECTOR (OPTION)
E7,F11,H10,H11	IP		INTERNAL PROTECTOR
M14	IRL		IN-RANGE LIGHT (OPTION)
B16	KP		KEYPAD CONNECTOR
E16	MDS	_	MANUAL DEFROST SWITCH
D20,L20,M20,P20	PR		PROBE RECEPTACLE (USDA OPTION)
L6,L14,L16	RM	_	REMOTE MONITORING RECEPTACLE (OPTION)
К20	RRS	_	RETURN RECORDER SENSOR (OPTION)
B20	RTS	_	RETURN TEMPERATURE SENSOR
L9,R2	SC	_	COMPRESSOR CONTACTOR (SHORTING)
E20	SMV	—	SUCTION MODULATION VALVE
H20	SPT	_	SUCTION PRESSURE TRANSDUCER (OPTION)
К20	SRS	—	SUPPLY RECORDER SENSOR (OPTION)
H15	SSV	—	SUCTION SOLENOID VALVE
К4	ST	—	START-STOP SWITCH
A20	STS	_	SUPPLY TEMPERATURE SENSOR
К7	TC	—	CONTROLLER RELAY (COOLING)
D5	TCC	_	TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)
К8	TD	—	CONTROLLER RELAY (LOW SPEED COMPRESSOR)
K11	ΤE	—	CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
G5	TFC	—	TRANSFRESH CONTROLLER (OPTION)
К1З	ТН	—	CONTROLLER RELAY (HEATING)
K16	ΤI	—	INRANGE RELAY
K14	TF	—	DEFROST RELAY
K10	TN	—	CONTROLLER RELAY (CONDENSER FAN)
D17,F15,G10,J7,		_	TEST POINT
J10,J11,J13,M16) ''		
МЗ	TR		TRANSFORMER
D1			TRANSFORMER AUTO 230/460 (OPTION)
E5,F5	TRC		TRANSFRESH REAR CONNECTOR (OPTION)
E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
К9	ΤT		CONTROLLER RELAY (COMPRESSOR SHORTING)
K12	TV		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E10	WP	_	WATER PRESSURE SWITCH (OPTION)

Figure 7-21. Electrical Schematic - See Model Chart (Sheet 1 of 2)





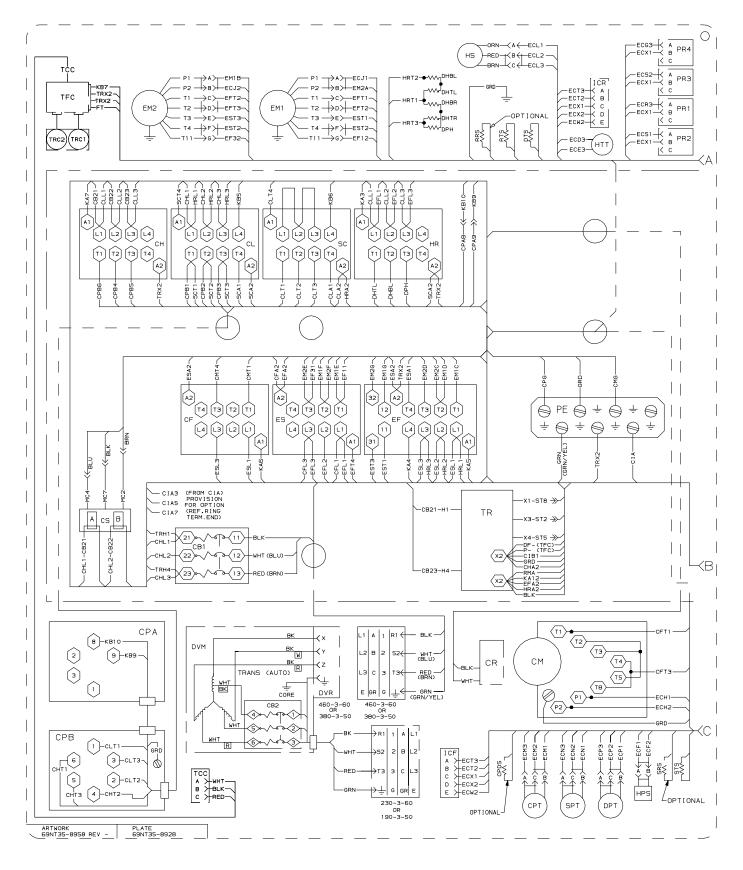


Figure 7-22. Electrical Wiring Diagram - See Model Chart (Sheet 1 of 2)

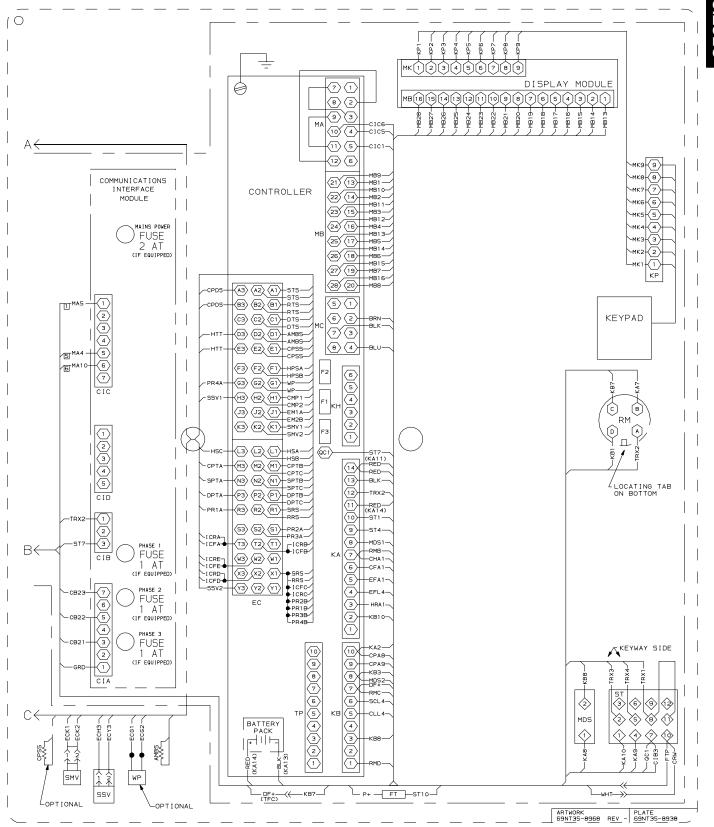


Figure 7-22. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

			LEGEND
ZONE 5	SYMBOL	<u>.</u>	DESCRIPTION
C19	AMBS	—	AMBIENT SENSOR
J1	CB1		CIRCUIT BREAKER 460V
D1	CB2		CIRCUIT BREAKER 230V (AUTO TRANS OPTION)
M9,P4	CF		CONDENSER FAN CONTACTOR
A3	CI		COMMUNICATIONS INTERFACE MODULE (OPTION)
M7,P1	СН		COMPRESSOR CONTACTOR
M6	C-L		COOL LIGHT (OPTION)
H10,T4	CM CP		CONDENSER FAN MOTOR COMPRESSOR MOTOR
E7,T1 A20	CPDS		COMPRESSOR DISCHARGE SENSOR (TEMP.)
C20	CPSS		COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT	_	CONDENSER PRESSURE TRANSDUCER
M1	CS	_	CURRENT SENSOR
тз	DHBL		DEFROST HEATER - BOTTOM LEFT
ТЗ	DHBR		DEFROST HEATER - BOTTOM RIGHT
ТЗ	DHTL		DEFROST HEATER - TOP LEFT
R3	DHTR		DEFROST HEATER - TOP RIGHT
M15	DL	_	DEFROST LIGHT (OPTION)
R3	DPH	_	DRAIN PAN HEATER
J20	DPT	—	DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DTS	—	DEFROST TEMPERATURE SENSOR
D1	DVM	—	DUAL VOLTAGE MODULE (OPTIONAL)
E1	DVR	—	DUAL VOLTAGE RECEPTACLE (OPTIONAL)
L12,M11,P6	EF		EVAPORATOR FAN CONTACTOR (HIGH SPEED)
G11,H11,T6,T9	EM		EVAPORATOR FAN MOTOR
M12,R6	ES		EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18,G5	F		FUSE
	FLA		FULL LOAD AMPS
H7	HPS		HIGH PRESSURE SWITCH
M13,P2	HR		HEATER CONTACTOR
F20	HS		HUMIDITY SENSOR
F13 M20	HTT IC		HEAT TERMINATION THERMOSTAT INTERROGATOR CONNECTOR (OPTION)
E7,F11,H10,H11	IP		INTERNOL PROTECTOR
M14	IRL		IN-RANGE LIGHT (OPTION)
B16	KP		KEYPAD CONNECTOR
E16	MDS		MANUAL DEFROST SWITCH
D20,L20,M20,P20	PR		PROBE RECEPTACLE (USDA OPTION)
L6,L14,L16	RM	_	
K20	RRS	—	RETURN RECORDER SENSOR (OPTION)
B20	RTS	_	RETURN TEMPERATURE SENSOR
E20	SMV	—	SUCTION MODULATION VALVE
H20	SPT	—	SUCTION PRESSURE TRANSDUCER (OPTION)
K20	SRS	—	SUPPLY RECORDER SENSOR (OPTION)
H15	SSV	—	SUCTION SOLENOID VALVE
K4	ST		START-STOP SWITCH
A20	STS		SUPPLY TEMPERATURE SENSOR
K7	TC		CONTROLLER RELAY (COOLING)
D5	TCC		TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)
K8	TD		CONTROLLER RELAY (LOW SPEED COMPRESSOR)
K11 G5	TE TFC		CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS) TRANSFRESH CONTROLLER (OPTION)
K13	тн		CONTROLLER RELAY (HEATING)
K16	ТΙ		INRANGE RELAY
K14	TF		DEFROST RELAY
K10	TN		CONTROLLER RELAY (CONDENSER FAN)
D17,F15,G10,J7,	1		
J10, J11, J13, M16		_	TEST POINT
MЗ	TR	—	TRANSFORMER
D1		—	TRANSFORMER AUTO 230/460 (OPTION)
E5,F5	TRC	—	TRANSFRESH REAR CONNECTOR (OPTION)
E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
К9	TT		CONTROLLER RELAY (COMPRESSOR SHORTING)
K12	TV		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E10	WP	_	WATER PRESSURE SWITCH (OPTION)

Figure 7-23. Electrical Schematic - See Model Chart (Sheet 1 of 2)

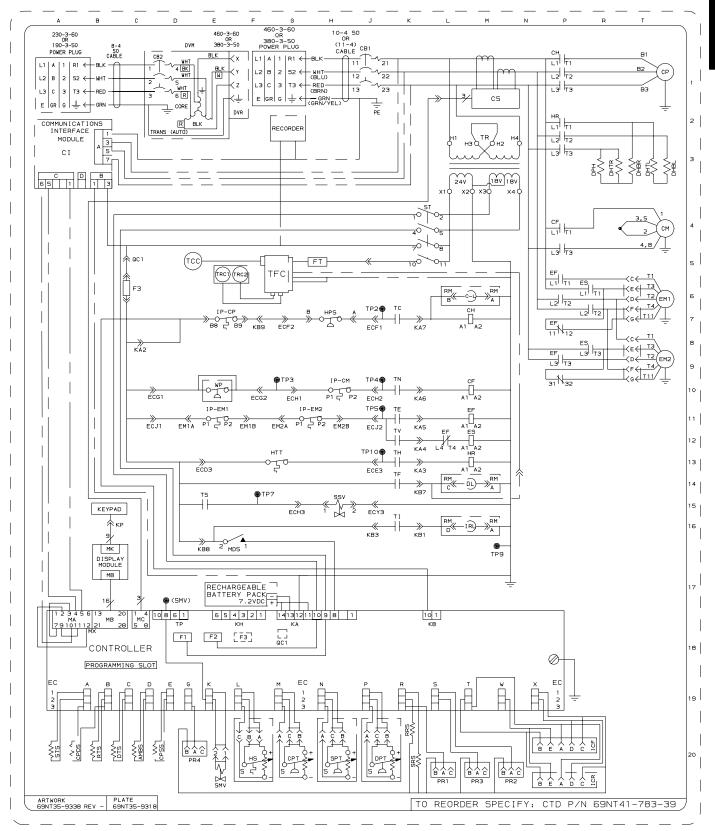
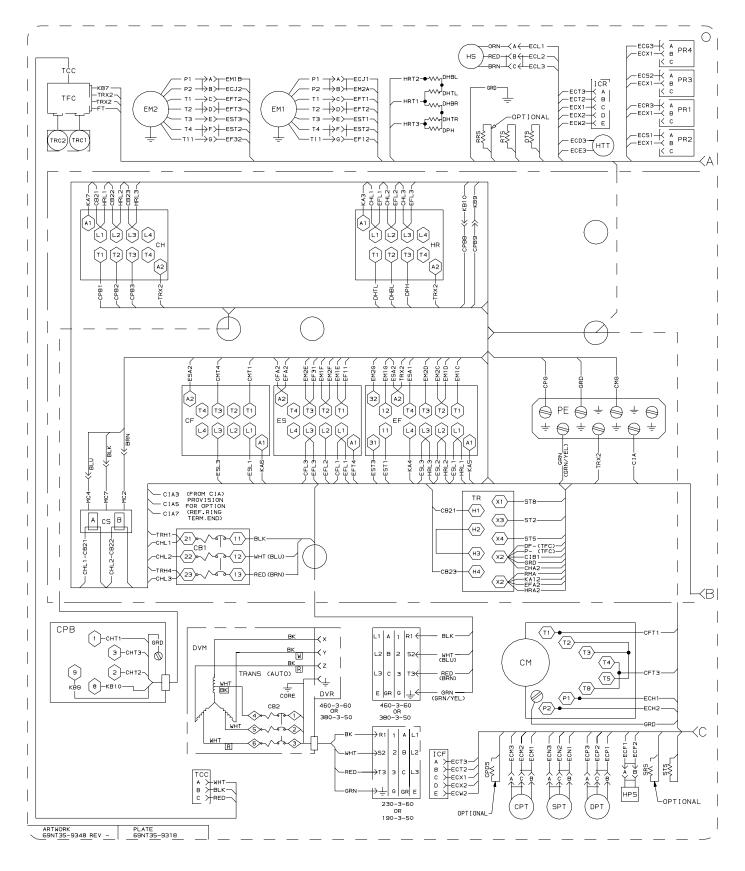
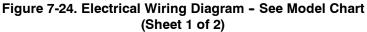


Figure 7-23. Electrical Schematic - See Model Chart (Sheet 2 of 2)





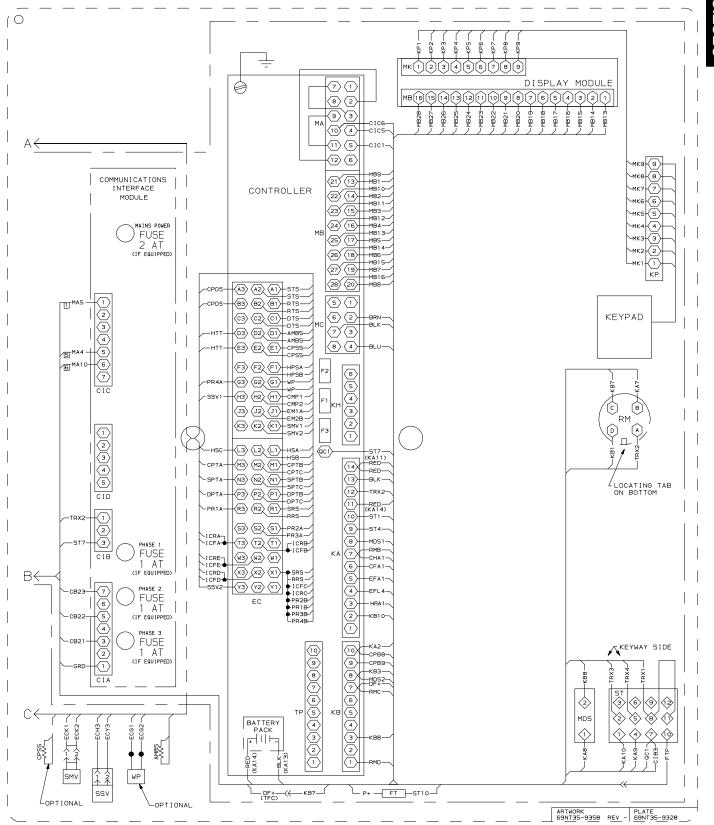
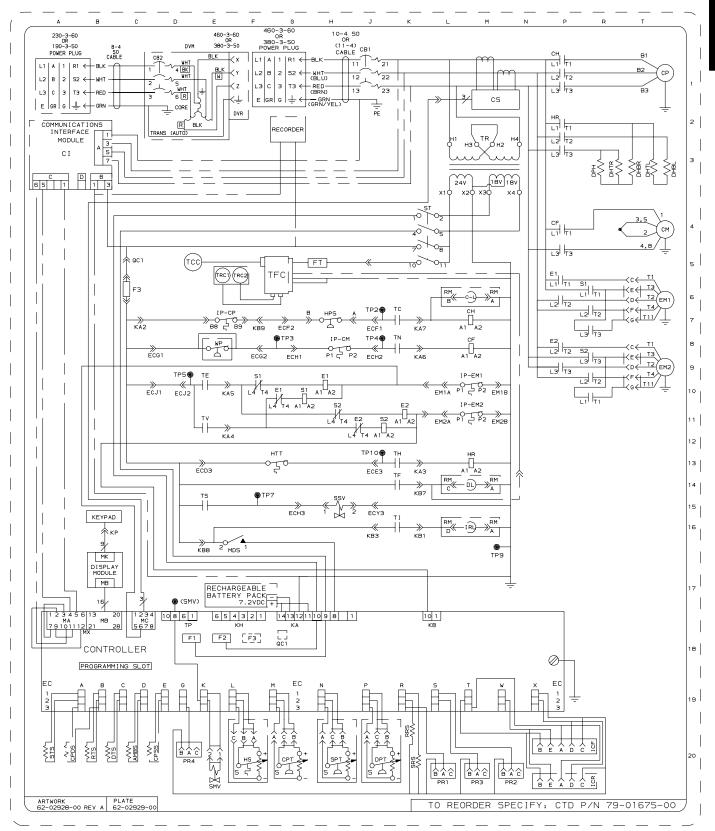
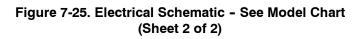


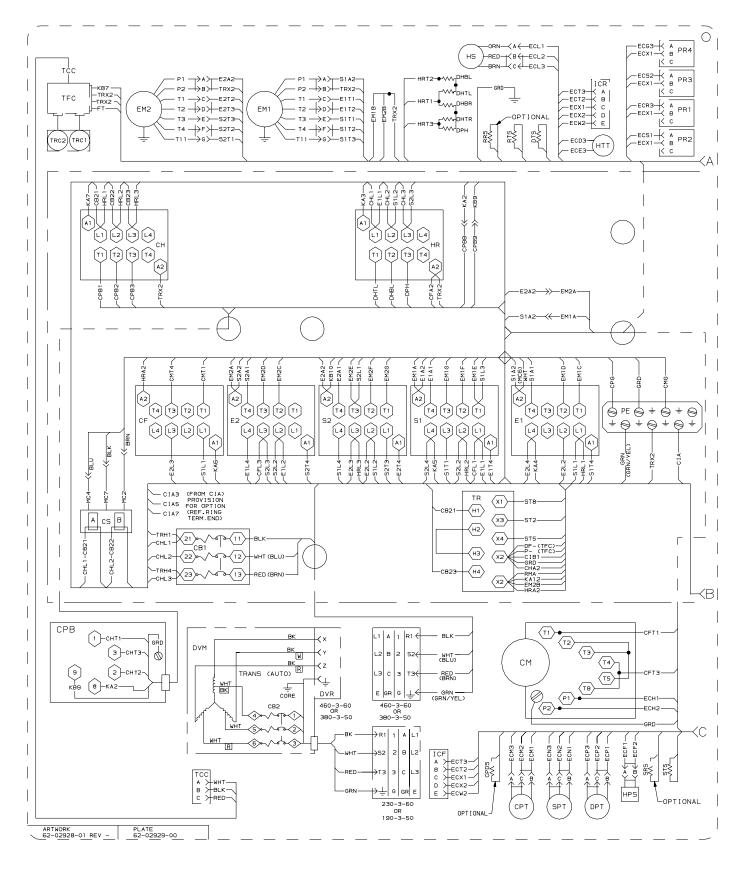
Figure 7-24. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

ZONE	5 Y MBOL		LEGEND DISCRIPTION
	AMBS	_	
C19 J1	CB1	_	AMBIENT SENSOR
D1	CB2	_	CIRCUIT BREAKER 460V CIRCUIT BREAKER 230V (AUTO TRANS OPTION)
M8,P4	CF	_	CONDENSER FAN CONTACTOR
A3	CI	_	COMMUNICATIONS INTERFACE MODULE (OPTION)
M7,P1	СН	_	COMPRESSOR CONTACTOR
M6	C-L		COOL LIGHT (OPTION)
H8,T4	СМ	_	
E7,T1	CP	_	COMPRESSOR MOTOR
A20	CPDS	_	COMPRESSOR DISCHARGE SENSOR (TEMP.)
C20	CPSS	—	COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT	_	CONDENSER PRESSURE TRANSDUCER
M1	CS	—	CURRENT SENSOR
тз	DHBL	—	DEFROST HEATER - BOTTOM LEFT
тз	DHBR	—	DEFROST HEATER - BOTTOM RIGHT
тз	DHTL	—	DEFROST HEATER - TOP LEFT
R3	DHTR	—	DEFROST HEATER - TOP RIGHT
M15	DL	—	DEFROST LIGHT (OPTION)
RЗ	DPH	—	DRAIN PAN HEATER
J20	DPT	_	DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DTS		DEFROST TEMPERATURE SENSOR
D1 E1	DVM DVR	_	DUAL VOLTAGE MODULE (OPTIONAL) DUAL VOLTAGE RECEPTACLE (OPTIONAL)
) DVR	_	DOAL VOLTAGE RECEPTACLE (OPTIONAL)
G10,H10,J11,K11, P6,P9	}e	—	EVAPORATOR FAN CONTACTOR (HIGH SPEED)
м10,м11,т6,т9	EM	_	EVAPORATOR FAN MOTOR
C6,D18,E18,G5	F	_	FUSE
	FLA	_	FULL LOAD AMPS
H7	HPS	_	HIGH PRESSURE SWITCH
M13,P2	HR		HEATER CONTACTOR
F20	HS	_	HUMIDITY SENSOR
F13	HTT	_	HEAT TERMINATION THERMOSTAT
M20	IC	—	INTERROGATOR CONNECTOR (OPTION)
E7,H8,M10,M11	ΙP	—	INTERNAL PROTECTOR
M1 4	IRL	_	IN-RANGE LIGHT (OPTION)
B16	KP	—	KEYPAD CONNECTOR
E16	MDS	—	MANUAL DEFROST SWITCH
D20,L20,M20,P20	PR	_	PROBE RECEPTACLE (USDA OPTION)
L6,L14,L16	RM	—	REMOTE MONITORING RECEPTACLE (OPTION)
K20	RRS	_	RETURN RECORDER SENSOR (OPTION)
B20	RTS	_	RETURN TEMPERATURE SENSOR
F10,G10,H11,J11,	}s	_	EVAPORATOR FAN CONTACTOR (LOW SPEED)
R6,R9	,		
E20	SMV	_	SUCTION MODULATION VALVE
H20 K20	SPT SRS		SUCTION PRESSURE TRANSDUCER (OPTION)
H15	SSV		SUPPLY RECORDER SENSOR (OPTION) SUCTION SOLENOID VALVE
K4	ST		START-STOP SWITCH
A20	STS	_	SUPPLY TEMPERATURE SENSOR
K7	тс	_	CONTROLLER RELAY (COOLING)
D5	тсс		TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)
KB	TD	_	CONTROLLER RELAY (LOW SPEED COMPRESSOR)
E10	TE	_	CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
G5	TFC	_	TRANSFRESH CONTROLLER (OPTION)
K13	тн	_	CONTROLLER RELAY (HEATING)
K16	ТΙ	_	INRANGE RELAY
K14	TF	_	DEFROST RELAY
К8	ΤN	_	CONTROLLER RELAY (CONDENSER FAN)
D9,D17,F15,G10,	} tp	_	TEST POINT
J7,J10,J13,M16)	-	ILJI FUINI
МЗ	TR	_	TRANSFORMER
D1	TRANS	_	TRANSFORMER AUTO 230/460 (OPTION)
E5,F5	TRC	—	TRANSFRESH REAR CONNECTOR (OPTION)
E15	TS	_	CONTROLLER RELAY (SUCTION SOLENOID VALVE)
K9	TT		CONTROLLER RELAY (COMPRESSOR SHORTING)
E11	TV WP	_	CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E8	WF	_	WATER PRESSURE SWITCH (OPTION)

Figure 7-25. Electrical Schematic - See Model Chart (Sheet 1 of 2)









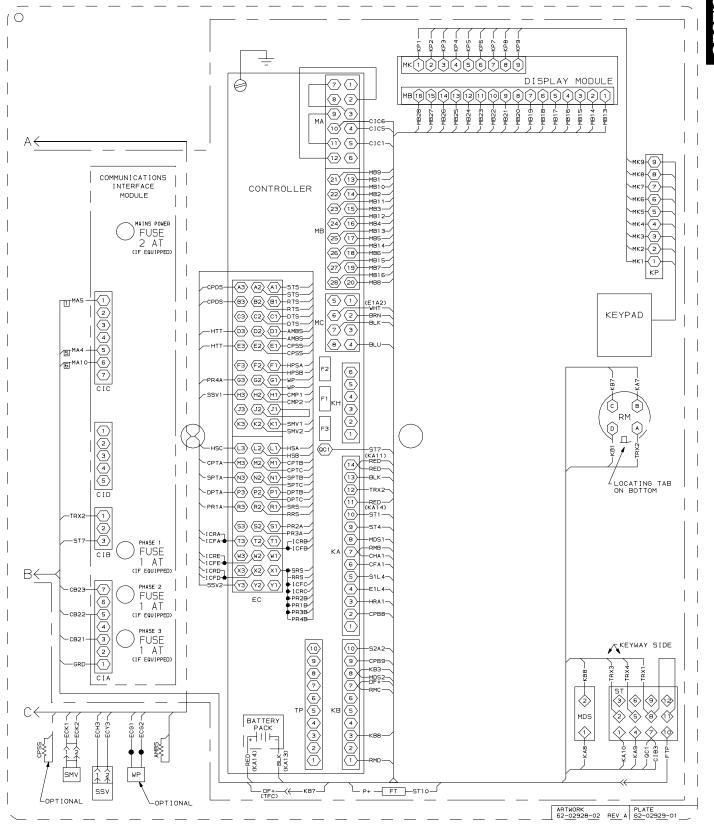
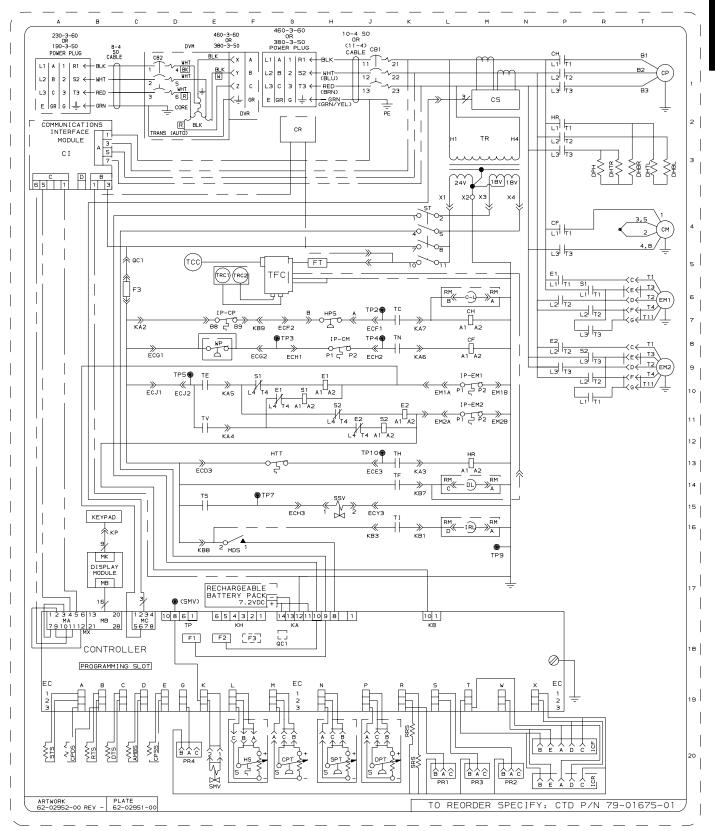
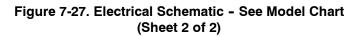


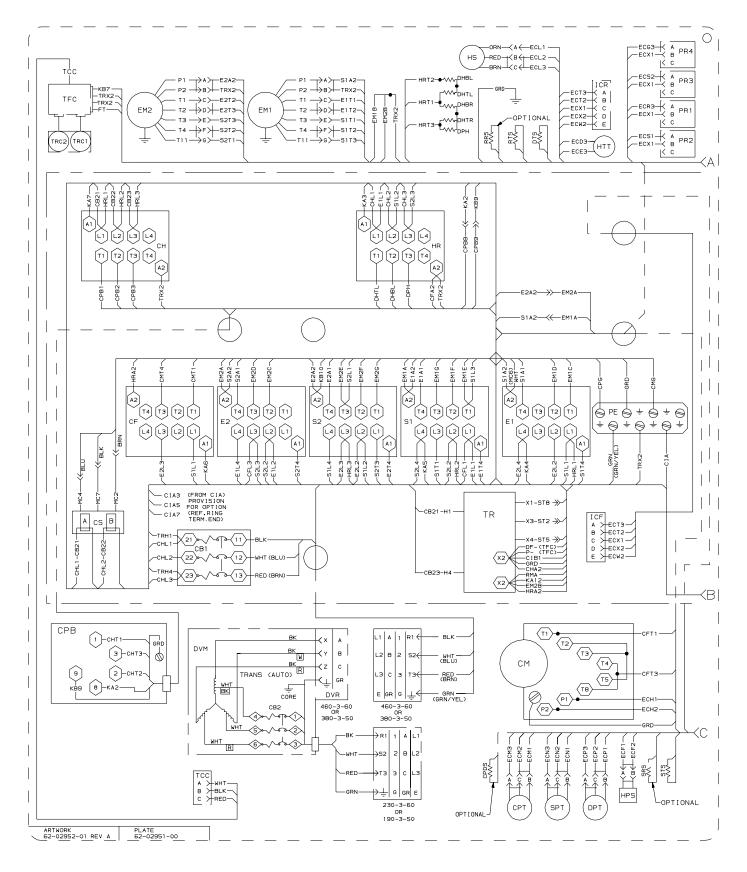
Figure 7-26. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

			LEGEND
ZONE	SYMBOL	_	DISCRIPTION
C19	AMBS	—	AMBIENT SENSOR
J1 D1	CB1 CB2	—	CIRCUIT BREAKER 460V
M8,P4	CE2 CF	_	CIRCUIT BREAKER 230V (AUTO TRANS OPTION) CONDENSER FAN CONTACTOR
AB	CI	_	COMMUNICATIONS INTERFACE MODULE (OPTION)
M7,P1	СН	—	COMPRESSOR CONTACTOR
MG	C-L	—	COOL LIGHT (OPTION)
H8,T4 E7,T1	CM CP	_	CONDENSER FAN MOTOR
A20	CPDS	_	COMPRESSOR MOTOR COMPRESSOR DISCHARGE SENSOR (TEMP.)
C20	CPSS	_	COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT	—	CONDENSER PRESSURE TRANSDUCER
G2	CR	_	CHART RECORDER (OPTIONAL)
M1 T3	CS DHBL	_	CURRENT SENSOR DEFROST HEATER - BOTTOM LEFT
ТЗ	DHBR	_	DEFROST HEATER - BOTTOM RIGHT
ТЭ	DHTL	—	DEFROST HEATER - TOP LEFT
R3	DHTR	—	DEFROST HEATER - TOP RIGHT
M15 R3	DL DPH	_	DEFROST LIGHT (OPTION) DRAIN PAN HEATER
J20	DPT	_	DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DTS	_	DEFROST TEMPERATURE SENSOR
D1	DVM		DUAL VOLTAGE MODULE (OPTIONAL)
E1 G10,H10,J11,K11,	DVR	_	DUAL VOLTAGE RECEPTACLE (OPTIONAL)
P6,P9	'}E	-	EVAPORATOR FAN CONTACTOR (HIGH SPEED)
M10,M11,T6,T9	EM		EVAPORATOR FAN MOTOR
C6,D18,E18,G5	F FLA		FUSE FULL LOAD AMPS
H7	HPS	_	HIGH PRESSURE SWITCH
M13,P2	HR	_	HEATER CONTACTOR
F20	HS	—	HUMIDITY SENSOR
F13 M20	HTT IC	_	HEAT TERMINATION THERMOSTAT
E7,H8,M10,M11	IP	_	INTERROGATOR CONNECTOR (OPTION) INTERNAL PROTECTOR
M14	IRL	_	IN-RANGE LIGHT (OPTION)
B16	KP	—	KEYPAD CONNECTOR
E16	MDS PR	_	MANUAL DEFROST SWITCH
D20,L20,M20,P20 L6,L14,L16	RM	_	PROBE RECEPTACLE (USDA OPTION) REMOTE MONITORING RECEPTACLE (OPTION)
К20	RRS	_	RETURN RECORDER SENSOR (OPTION)
B20	RTS	—	RETURN TEMPERATURE SENSOR
F10,G10,H11,J11, R6,R9	' }s	—	EVAPORATOR FAN CONTACTOR (LOW SPEED)
E20	SMV	_	SUCTION MODULATION VALVE
H20	SPT	—	SUCTION PRESSURE TRANSDUCER (OPTION)
K20	SRS		SUPPLY RECORDER SENSOR (OPTION)
Н15 К4	SSV ST		SUCTION SOLENOID VALVE START-STOP SWITCH
A20	STS	_	SUPPLY TEMPERATURE SENSOR
К7	TC	—	CONTROLLER RELAY (COOLING)
D5	TCC	—	TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)
К8 E10	TD TE	_	CONTROLLER RELAY (LOW SPEED COMPRESSOR) CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
G5	TFC		TRANSFRESH CONTROLLER (OPTION)
K13	ТН	—	CONTROLLER RELAY (HEATING)
K16	ΤI		INRANGE RELAY
К14 КВ	TF	_	DEFROST RELAY
NB D9,D17,F15,G10,	TN	_	CONTROLLER RELAY (CONDENSER FAN)
J7,J10,J13,M16	} TP	_	TEST POINT
M3 D1	TR TRANS	_	TRANSFORMER TRANSFORMER AUTO 230/460 (OPTION)
E5,F5	TRC		TRANSFORMER AUTO 2307460 (OPTION)
E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
K9	TT	_	CONTROLLER RELAY (COMPRESSOR SHORTING)
E11 E8	TV WP	_	CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS) WATER PRESSURE SWITCH (OPTION)
	**1		MATER TRESSORE SWITCH (OFTION)

Figure 7-27. Electrical Schematic - See Model Chart (Sheet 1 of 2)









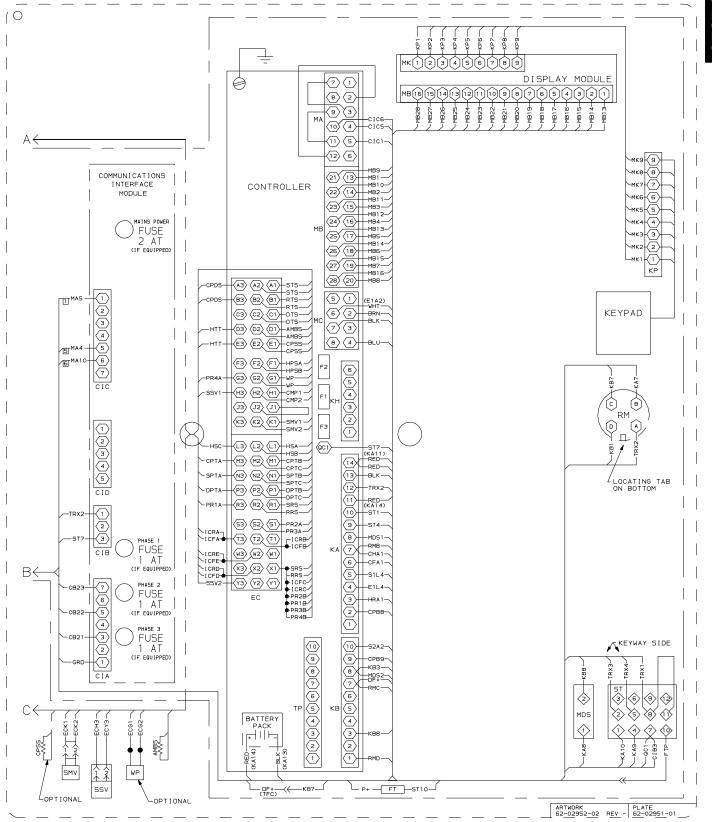


Figure 7-28. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

			LEGEND
ZONE	SYMBOL		DESCRIPTION
C20	AMBS	_	AMBIENT SENSOR
G1	CB1	_	CIRCUIT BREAKER 460V
M11,P5	CF	—	CONDENSER FAN CONTACTOR
M10,P1	СН		COMPRESSOR CONTACTOR
A2	CI		COMMUNICATIONS INTERFACE MODULE (OPTION)
H11,T5	CM		CONDENSER FAN MOTOR
E10,T1	CP		COMPRESSOR MOTOR
A20 C20	CPDS CPSS		COMPRESSOR DISCHARGE SENSOR (TEMP.) COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT		CONDENSER PRESSURE TRANSDUCER
M1	CS		CURRENT SENSOR
ТЗ	DHBL		DEFROST HEATER - BOTTOM LEFT
ТЗ	DHBR		DEFROST HEATER - BOTTOM RIGHT
ТЗ	DHTL	_	DEFROST HEATER - TOP LEFT
R3	DHTR	—	DEFROST HEATER - TOP RIGHT
R3	DPH	—	DRAIN PAN HEATER
J20	DPT	—	DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DTS	—	DEFROST TEMPERATURE SENSOR
M12,P7,P9,P10	EF		EVAPORATOR FAN CONTACTOR (HIGH SPEED)
E12,H12,T8,T10	EM		EVAPORATOR FAN MOTOR
M13,R7,R10	ES	_	EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D5,D18,E6 E18,F18,H4	F	—	FUSE
/	FLA	_	FULL LOAD AMPS
MG	HA	_	HUMIDITY ATOMIZER
D5,M9	HPR	_	HUMIDITY POWER RELAY
H10	HPS	—	HIGH PRESSURE SWITCH
E5	HPT	-	HUMIDITY POWER TRANSFORMER
M14,P2	HR	_	HEATER CONTACTOR
F20	HS		HUMIDITY SENSOR
G14	HTT		HEAT TERMINATION THERMOSTAT
R4	НМН		HUMIDITY WATER HEATER
M5 P20	HWP		HUMIDITY WATER PUMP
E10,E12,H11,H12	IC		INTERROGATOR CONNECTOR (OPTION) INTERNAL PROTECTOR
B16	KP		KEYPAD CONNECTOR
E16	MDS		MANUAL DEFROST SWITCH
J5,M8	PDR		PUMP DIRECTION RELAY
,	PE		PRIMARY EARTH
D20,L20,M20,N20	PR	_	PROBE RECEPTACLE (USDA OPTION)
K20	RRS	_	RETURN RECORDER SENSOR (OPTION)
B20	RTS	—	RETURN TEMPERATURE SENSOR
E20	SMV	—	SUCTION MODULATION VALVE
H20	SPT	_	
K20	SRS	—	SUPPLY RECORDER SENSOR (OPTION)
K16	SSV		SUCTION SOLENOID VALVE
КЗ	ST		START-STOP SWITCH
A20	STS		SUPPLY TEMPERATURE SENSOR
K10 E4	ТС ТСС		CONTROLLER RELAY (COOLING) TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)
K9	TD		CONTROLLER RELAY (WATER PUMP / ATOMIZER)
K12	TE		CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
K15	TF		CONTROLLER RELAY (TRANSFRESH)
G4	TFC		TRANSFRESH CONTROLLER (OPTION)
K14	тн		CONTROLLER RELAY (HEATING)
G8	ΤI	—	CONTROLLER RELAY (WATER PUMP REVERSE)
K11	ΤN	—	CONTROLLER RELAY (CONDENSER FAN)
D7,D17,G11, H16,J10,J11 }	TP	_	TEST POINT
J12, J14, M16			
C7	ΤQ	—	CONTROLLER RELAY (WATER TANK HEATER)
МЗ	TR		TRANSFORMER
F4	TRC		TRANSFRESH REAR CONNECTOR (OPTION)
F16	TS		CONTROLLER RELAY (SSV, BYPASS VALVE)
K13	ΤV		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
M7,P4 H7	WH WHTT		HUMIDITY WATER HEATER CONTACTOR
E11	WHTT WP		WATER HEATER TERMINATION THERMOSTAT WATER PRESSURE SWITCH (OPTION)
- · ·			MALEA PRESSORE SWITCH COPIEDD

Figure 7-29. Electrical Schematic - See Model Chart (Sheet 1 of 2)

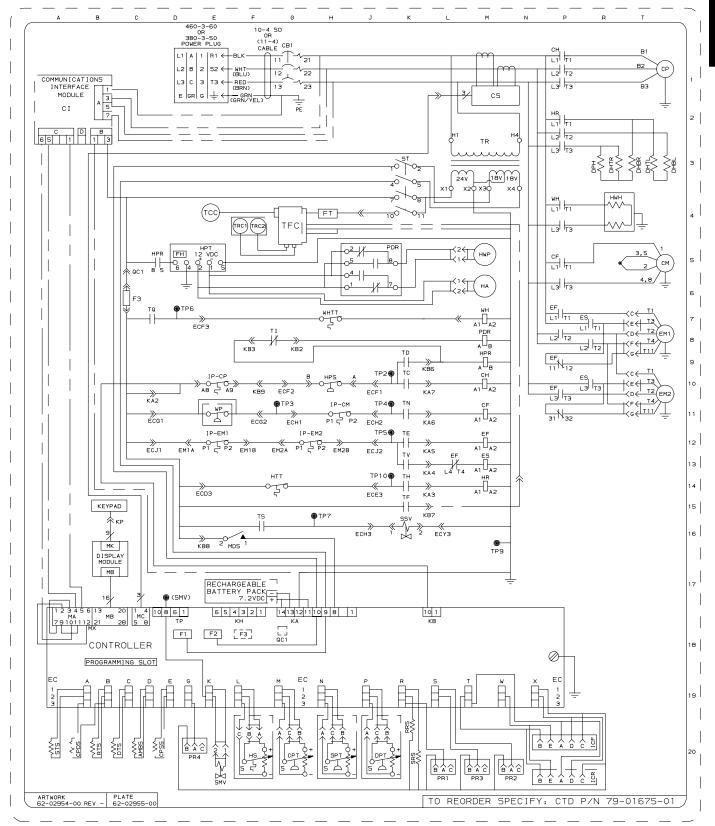


Figure 7-29. Electrical Schematic - See Model Chart (Sheet 2 of 2)

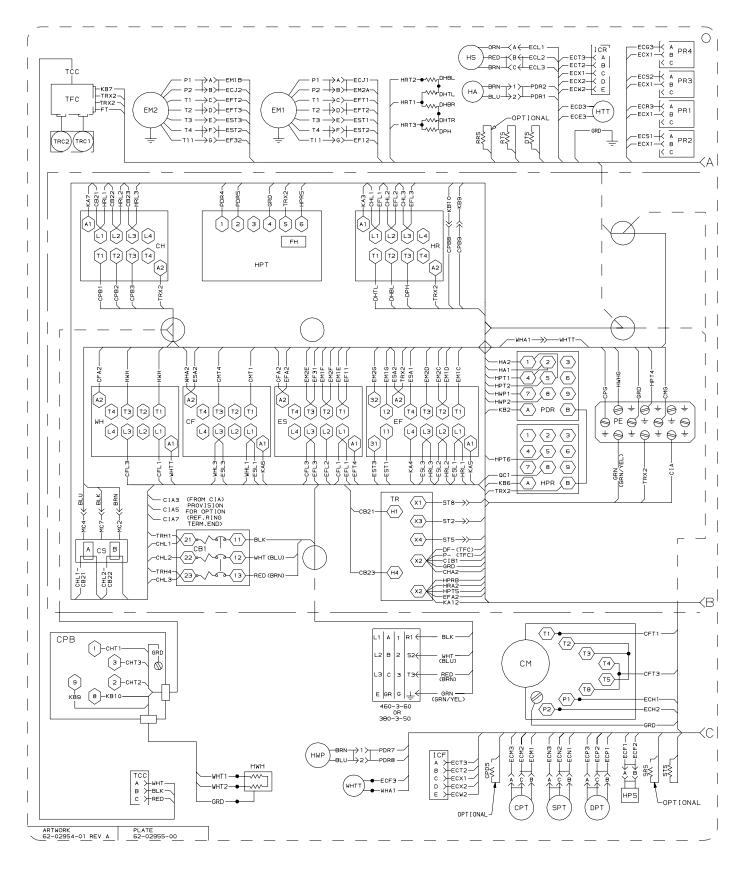


Figure 7-30. Electrical Wiring Diagram - See Model Chart (Sheet 1 of 2)

SECTION 7 -KP7-ΥΡ2. ЧЧ КР4 КР С KP 6. KP.8. Ē 0 0 Ţ $\mathsf{MK}(1)(2)(3)(4)(5)(6)(7)(8)(9)$ DISPLAY MODULE 7 (1)Ó MB16151413121110987654321 8 2 -MB14--MB15-৻৽৾৾৾৻৽৾ MB24-MB19-MB18--MB17--MB16-4B26-MB22--MB13-MB25-MB23-MB20-B28 MB27. MB21 MA CICE 10 4 CICS-(11) (5) -0101 12 6 мкэ (э) мкв (в) COMMUNICATIONS 21 13 INTERFACE MK7 (7) CONTROLLER 22 14 MODULE
 (2)
 (4)
 H82

 (3)
 (5)
 H83

 (3)
 (5)
 H83

 (4)
 (6)
 H84

 (2)
 (7)
 H84

 (2)
 (1)
 H84
 мкб (б) мк5 (5) MAINS POWER мк∠ 4 FUSE 2 AT (IF EQUIPPED) ME мкз (З) мк2 2 мк. ſ KΡ (A3) (A2) (A1) (STS (B3) (B2) (B1) (RTS (C3) (C2) (C1) (DTS (C3) (C2) (C1) (AMBS (C3) (C2) (C1) (AMBS (C3) (C2) (C1) (CPSS 5 1 1 MAS ī ē 6 2 KEYPAD -BLK Ī 7)3) 4 8 4 5^{MA4} 5 CPSS-6 MA10 Kē) 6 F3 F2 F1 HPSA 7 IPSB 5 010 H3 H2 H1 CMP1-CMP2-J3 J2 J1 EM1A EM2B 4 F1 3 K3 K2 K1 SMV1 Ī FЗ 1 2 3 4 5 (KA11) (KA11) (14) RED RED HSA-(C1)
 (12)
 (1)
 HSA

 M3)
 M2
 (1)
 CPTG

 M3)
 M2
 (1)
 SPTB

 (13)
 M2
 (1)
 SPTB

 (13)
 M2
 (1)
 SPTB

 (13)
 M2
 (1)
 SPTB

 (14)
 M2
 (1)
 SPTB

 (15)
 M2
 (1)
(13)--BLK-SPTA (12) -TRX2 DPTA CID 11 RED (KA14) PR1A (R3) (R2) (R1) SRS $\overline{(10)}$ -ST1 53 52 51 PR2A-PR3A-23 9 -ST4 -ICRA-ً -MDS1 PHASE LICRET (W3) (W4) LICRET (X3) (X2) (X1) LICRD (X3) (X2) (X1) LICRD (X3) (X2) (X1) SSV2 (Y3) (Y2) (Y1) FUSE 7 KA -СНА 1 CIB 1 AT 6 SRS -RRS ICFC ICFC PR2B PR3B PR3B PR4B -CFA1-5 -EFA1-76 PHASE 2 4 -EFL4 FUSE 1 AT (3) HRA1 5 2 CB22 CIF EQUIPPED -KB10- $\overline{4}$ $\overline{1}$ PHASE 3 3 FUSE KA2 KEYWAY SIDE 1 ΑT -СРВ8-CIF EQUIPPED ť 9 -СРВ9-Jexa--RX4-TRX1 8 7 -MDS2-BB CIA -DF+ ST 3 $\langle \rangle$ -квз 6

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-ЕСНЗ-

ssv

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SMV

LOPTIONAL

-ECG1 -

WP

AMBS

-OPTIONAL

Figure 7-30. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

-HPRA

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BATTERY

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DF+-(TFC)

-RED-

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ARTWORK 62-02954-02 REV - 62-02955-01

 $\langle 1 \rangle \langle 4 \rangle \langle 7 \rangle$

MDS

 $\langle \rangle$

ZONE	SYMBOL		DESCRIPTION
<u> </u>	AMBS		AMBIENT SENSOR
J1	CB1		CIRCUIT BREAKER 460V
M10,P4	CF		CONDENSER FAN CONTACTOR
L10	CFS		CONDENSER FAN SWITCH
M7,P1	СН		COMPRESSOR CONTACTOR
A3	CI		COMMUNICATIONS INTERFACE MODULE
H10,T4	СМ		CONDENSER FAN MOTOR
E7,T1	CP		COMPRESSOR MOTOR
B20	CPDS		COMPRESSOR DISCHARGE SENSOR (TEMP.)
D20	CPSS		COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT		CONDENSER PRESSURE TRANSDUCER
M1	CS		CURRENT SENSOR
ТЗ	DHBL		DEFROST HEATER - BOTTOM LEFT
ТЗ	DHBR		DEFROST HEATER - BOTTOM RIGHT
T3	DHTL		DEFROST HEATER - TOP LEFT
R3	DHTR		DEFROST HEATER - TOP RIGHT
R3	DPH		DRAIN PAN HEATER
C20	DTS		DEFROST TEMPERATURE SENSOR
L12,M11,P6	EF		EVAPORATOR FAN CONTACTOR (HIGH SPEED)
E11,G11,T6,T9			EVAPORATOR FAN MOTOR
M12,R6	ES		EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18	F		FUSE
. ,	FLA		FULL LOAD AMPS
H7	HPS		HIGH PRESSURE SWITCH
M13,P2	HR		HEATER CONTACTOR
F20	HS		HUMIDITY SENSOR
G13	HTT		HEAT TERMINATION THERMOSTAT
P20	IC	_	INTERROGATOR CONNECTOR
E7,E11,G11,H10	ΙP		INTERNAL PROTECTOR
B16	KP	_	KEYPAD CONNECTOR
F16	MDS		MANUAL DEFROST SWITCH
D20,L20,M20,N20	PR	_	PROBE RECEPTACLE (USDA OPTION)
K20	RRS		RETURN RECORDER SENSOR
B20	RTS		RETURN TEMPERATURE SENSOR
E20	SMV	_	SUCTION MODULATION VALVE
K20	SRS		SUPPLY RECORDER SENSOR
H15	SSV		SUCTION SOLENOID VALVE
K4	ST		START-STOP SWITCH
A20	STS	_	SUPPLY TEMPERATURE SENSOR
К7	ТС		CONTROLLER RELAY (COOLING)
K11	ΤE	_	CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
K13	ТН	—	CONTROLLER RELAY (HEATING)
K10	ΤN	_	CONTROLLER RELAY (CONDENSER FAN)
D17,F15,G10,J7,∖ J10,J11,J13,M16∫	> TP	_	TEST POINT
M3	TR		TRANSFORMER
E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
K12	ΤV		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
	· •		SUMMOLEN NEEM (EVM SIELD EVALONATION FAND)

Figure 7-31. Electrical Schematic - See Model Chart

(Sheet 1 of 2)

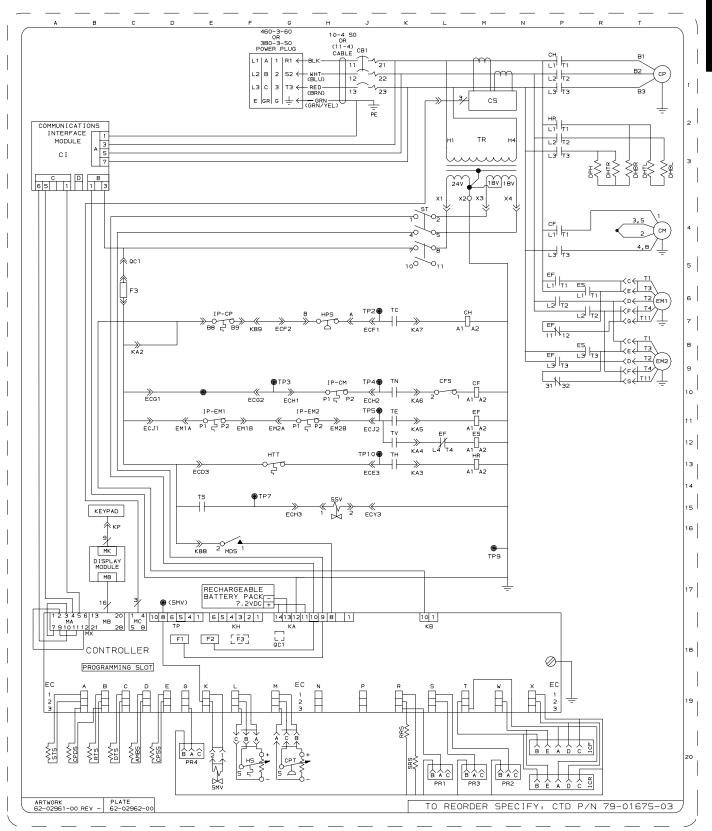
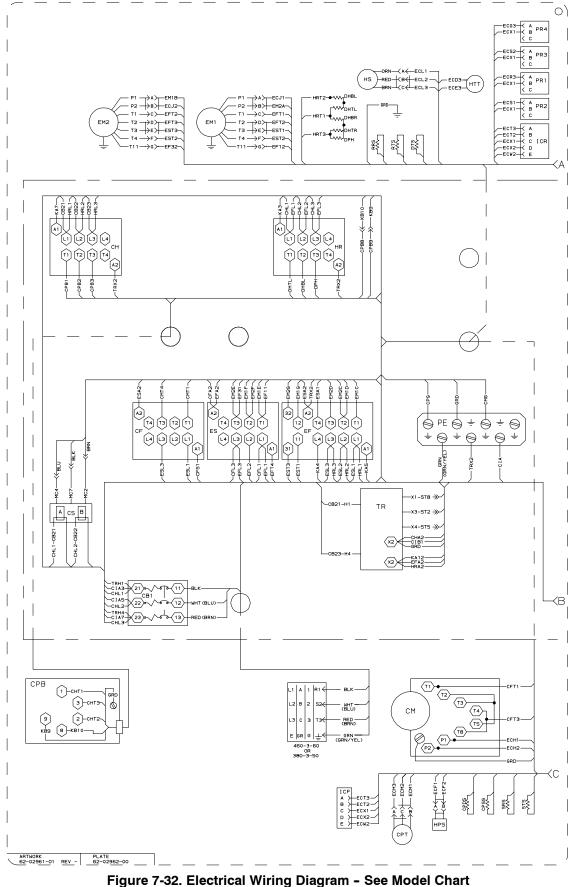


Figure 7-31. Electrical Schematic - See Model Chart (Sheet 2 of 2)



(Sheet 1 of 2)

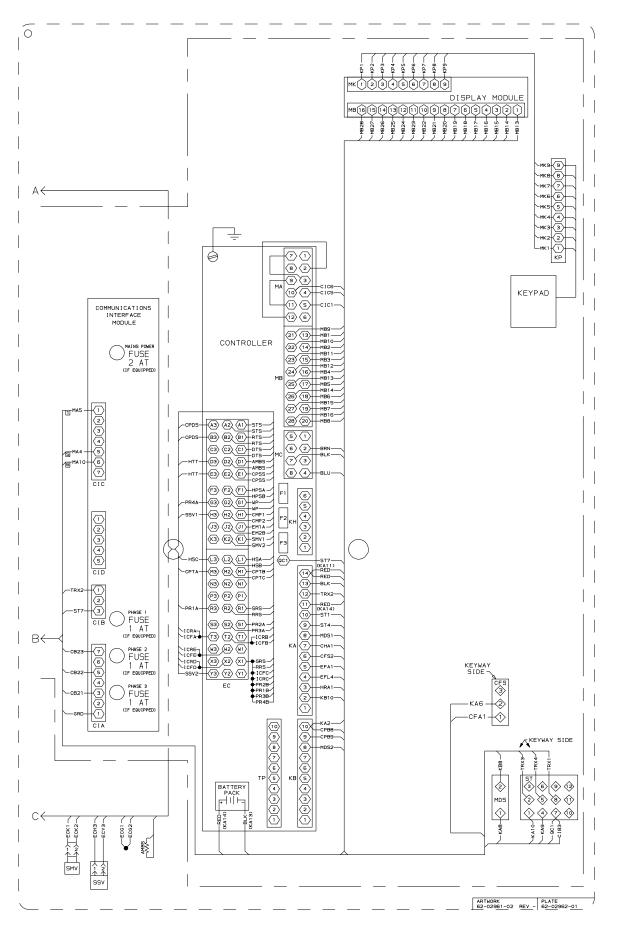
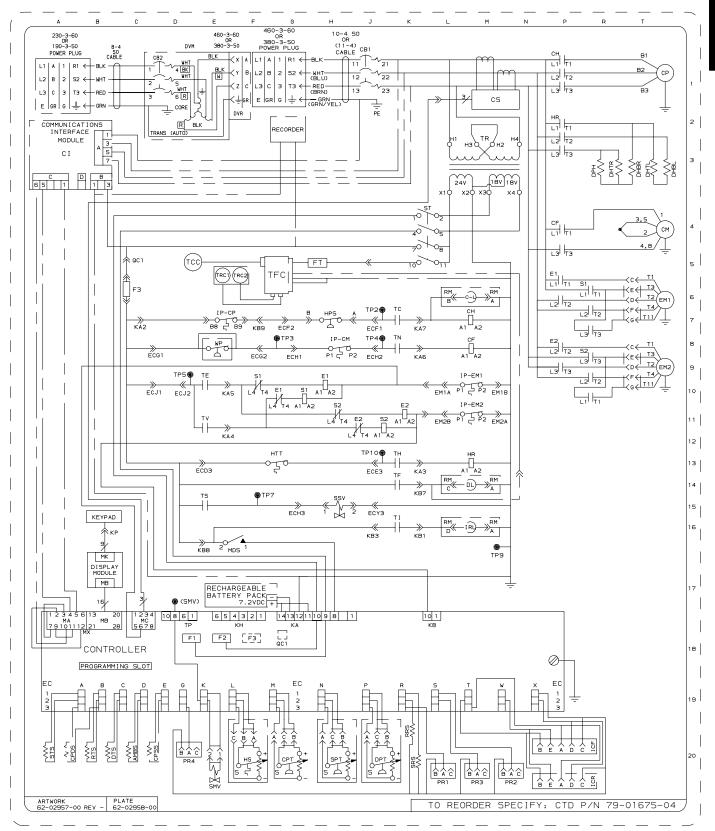
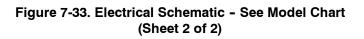


Figure 7-32. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

2011			
	SYMBOL	-	DISCRIPTION
C19	AMBS	_	AMBIENT SENSOR
J1 D1	CB1 CB2	_	CIRCUIT BREAKER 460V
M8,P4	CF		CIRCUIT BREAKER 230V (AUTO TRANS OPTION)
A3	CI		CONDENSER FAN CONTACTOR COMMUNICATIONS INTERFACE MODULE (OPTION)
M7,P1	СН		COMPRESSOR CONTACTOR
M6	C-L		COOL LIGHT (OPTION)
Н8,Т4	CM	_	CONDENSER FAN MOTOR
E7,T1	CP	_	COMPRESSOR MOTOR
A20	CPDS	_	COMPRESSOR DISCHARGE SENSOR (TEMP.)
C20	CPSS	_	COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT	—	CONDENSER PRESSURE TRANSDUCER
M1	CS	—	CURRENT SENSOR
ТЗ	DHBL	—	DEFROST HEATER - BOTTOM LEFT
ТЗ	DHBR	—	DEFROST HEATER - BOTTOM RIGHT
ТЗ	DHTL	—	DEFROST HEATER - TOP LEFT
R3	DHTR	_	DEFROST HEATER - TOP RIGHT
M15	DL	_	DEFROST LIGHT (OPTION)
R3	DPH	—	DRAIN PAN HEATER
J20	DPT		DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DTS		DEFROST TEMPERATURE SENSOR
D1 E1	DVM DVR		DUAL VOLTAGE MODULE (OPTIONAL) DUAL VOLTAGE RECEPTACLE (OPTIONAL)
		_	DUAL VOLTAGE RECEPTACLE (OPTIONAL)
G10,H10,J11,K11, P6,P9) E	_	EVAPORATOR FAN CONTACTOR (HIGH SPEED)
M10,M11,T6,T9	EM		EVAPORATOR FAN MOTOR FUSE
C6,D18,E18,G5	F		
	FLA HPS	_	FULL LOAD AMPS
H7		_	HIGH PRESSURE SWITCH
M13,P2 F20	HR HS		HEATER CONTACTOR
F20	HTT	_	HUMIDITY SENSOR HEAT TERMINATION THERMOSTAT
M20	IC	_	INTERROGATOR CONNECTOR (OPTION)
E7,H8,M10,M11	IP	_	INTERNAL PROTECTOR
M14	IRL	_	IN-RANGE LIGHT (OPTION)
B16	KP	_	KEYPAD CONNECTOR
E16	MDS	_	MANUAL DEFROST SWITCH
D20,L20,M20,P20	PR	_	PROBE RECEPTACLE (USDA OPTION)
L6,L14,L16	RM	—	REMOTE MONITORING RECEPTACLE (OPTION)
K20	RRS	—	RETURN RECORDER SENSOR (OPTION)
B20	RTS	—	RETURN TEMPERATURE SENSOR
F10,G10,H11,J11, R6,R9	}s	_	EVAPORATOR FAN CONTACTOR (LOW SPEED)
E20	SMV	_	SUCTION MODULATION VALVE
H20	SPT	_	SUCTION PRESSURE TRANSDUCER (OPTION)
К20	SRS	_	SUPPLY RECORDER SENSOR (OPTION)
H15	SSV	—	SUCTION SOLENOID VALVE
K4	ST	—	START-STOP SWITCH
A20	STS	—	SUPPLY TEMPERATURE SENSOR
K7	тс	—	CONTROLLER RELAY (COOLING)
D5	тсс	_	TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)
E10	TE	_	CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
G5	TFC		TRANSFRESH CONTROLLER (OPTION)
K13	тн		CONTROLLER RELAY (HEATING)
K16	TI		INRANGE RELAY
К14 К8	TF TN		DEFROST RELAY
D9,D17,F15,G10,) TP		CONTROLLER RELAY (CONDENSER FAN)
J7,J10,J13,M16 M3	J TR	_	TRANSFORMER
D1	TRANS	—	TRANSFORMER AUTO 230/460 (OPTION)
E5,F5	TRC	—	TRANSFRESH REAR CONNECTOR (OPTION)
E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
E11	TV	_	CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E8	WP	_	WATER PRESSURE SWITCH (OPTION)

Figure 7-33. Electrical Schematic - See Model Chart (Sheet 1 of 2)





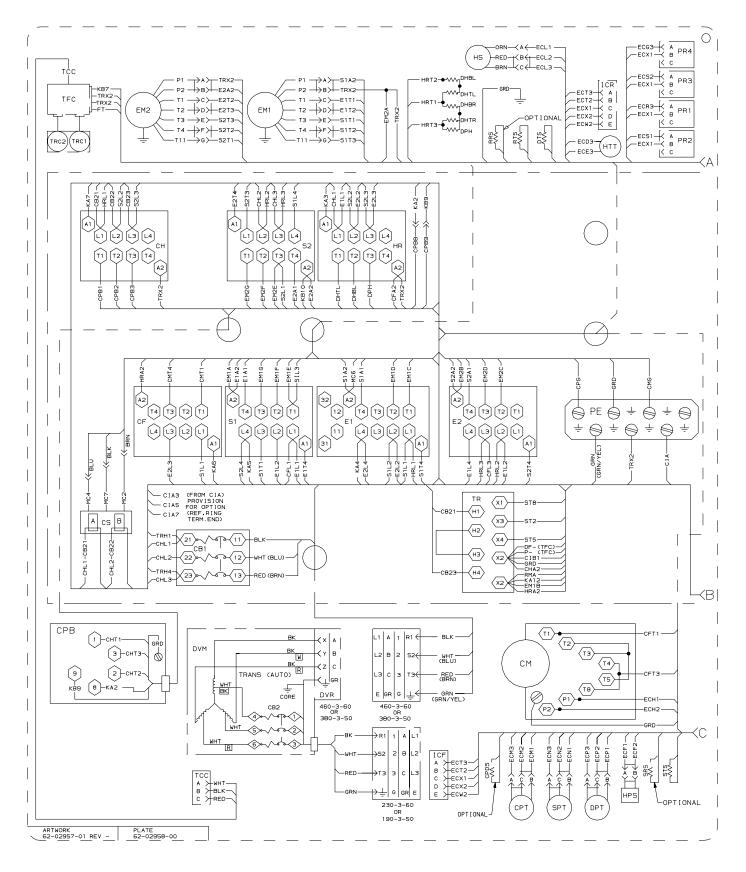


Figure 7-34. Electrical Wiring Diagram - See Model Chart (Sheet 1 of 2)

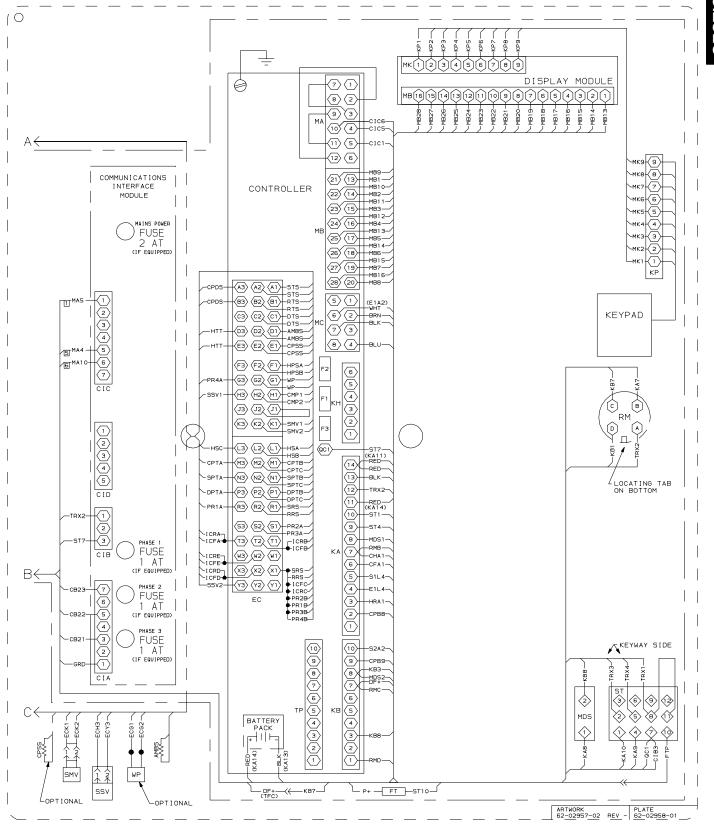
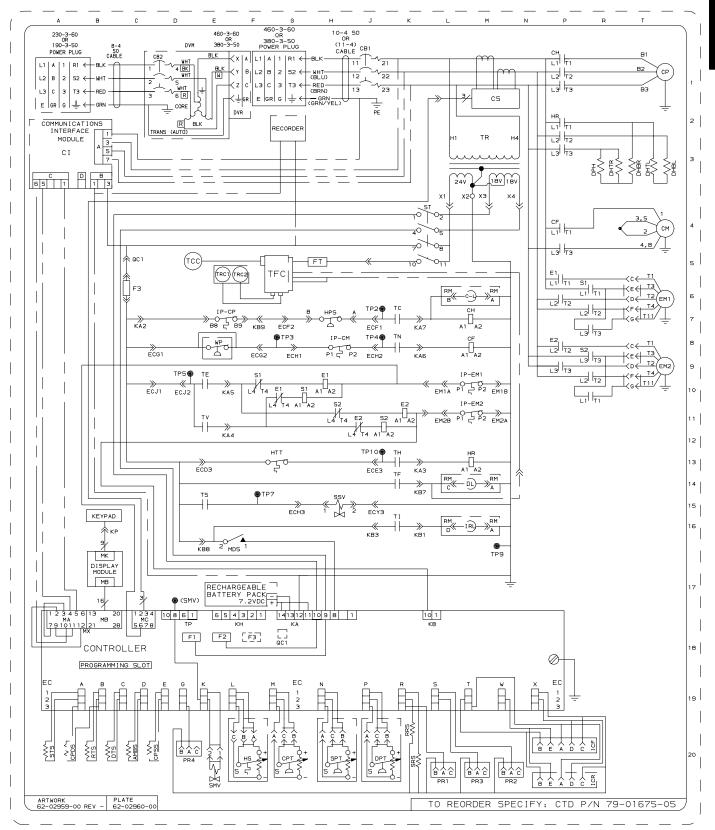
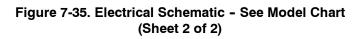


Figure 7-34. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

2011			
	SYMBOL	-	DISCRIPTION
C19	AMBS	_	AMBIENT SENSOR
J1 D1	CB1 CB2	_	CIRCUIT BREAKER 460V
M8,P4	CF		CIRCUIT BREAKER 230V (AUTO TRANS OPTION)
A3	CI		CONDENSER FAN CONTACTOR COMMUNICATIONS INTERFACE MODULE (OPTION)
M7,P1	СН		COMPRESSOR CONTACTOR
M6	C-L		COOL LIGHT (OPTION)
Н8,Т4	CM	_	CONDENSER FAN MOTOR
E7,T1	CP	_	COMPRESSOR MOTOR
A20	CPDS	_	COMPRESSOR DISCHARGE SENSOR (TEMP.)
C20	CPSS	_	COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT	—	CONDENSER PRESSURE TRANSDUCER
M1	CS	—	CURRENT SENSOR
ТЗ	DHBL	—	DEFROST HEATER - BOTTOM LEFT
ТЗ	DHBR	—	DEFROST HEATER - BOTTOM RIGHT
ТЗ	DHTL	—	DEFROST HEATER - TOP LEFT
R3	DHTR	_	DEFROST HEATER - TOP RIGHT
M15	DL	_	DEFROST LIGHT (OPTION)
R3	DPH	—	DRAIN PAN HEATER
J20	DPT		DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DTS		DEFROST TEMPERATURE SENSOR
D1 E1	DVM DVR		DUAL VOLTAGE MODULE (OPTIONAL) DUAL VOLTAGE RECEPTACLE (OPTIONAL)
G10,H10,J11,K11,		_	DUAL VOLTAGE RECEPTACLE (OPTIONAL)
P6,P9) e	_	EVAPORATOR FAN CONTACTOR (HIGH SPEED)
M10,M11,T6,T9	EM		EVAPORATOR FAN MOTOR FUSE
C6,D18,E18,G5	F		
	FLA HPS	_	FULL LOAD AMPS
H7		_	HIGH PRESSURE SWITCH
M13,P2 F20	HR HS		HEATER CONTACTOR
F20	HTT	_	HUMIDITY SENSOR HEAT TERMINATION THERMOSTAT
M20	IC	_	INTERROGATOR CONNECTOR (OPTION)
E7,H8,M10,M11	IP	_	INTERNAL PROTECTOR
M14	IRL	_	IN-RANGE LIGHT (OPTION)
B16	KP	_	KEYPAD CONNECTOR
E16	MDS	_	MANUAL DEFROST SWITCH
D20,L20,M20,P20	PR	_	PROBE RECEPTACLE (USDA OPTION)
L6,L14,L16	RM	—	REMOTE MONITORING RECEPTACLE (OPTION)
K20	RRS	—	RETURN RECORDER SENSOR (OPTION)
B20	RTS	—	RETURN TEMPERATURE SENSOR
F10,G10,H11,J11, R6,R9	}s	_	EVAPORATOR FAN CONTACTOR (LOW SPEED)
E20	SMV	_	SUCTION MODULATION VALVE
H20	SPT	_	SUCTION PRESSURE TRANSDUCER (OPTION)
К20	SRS	_	SUPPLY RECORDER SENSOR (OPTION)
H15	SSV	—	SUCTION SOLENOID VALVE
K4	ST	—	START-STOP SWITCH
A20	STS	—	SUPPLY TEMPERATURE SENSOR
К7	тс	—	CONTROLLER RELAY (COOLING)
D5	тсс	_	TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)
E10	TE	—	CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
G5	TFC		TRANSFRESH CONTROLLER (OPTION)
К1З	TH		CONTROLLER RELAY (HEATING)
K16	ΤI		INRANGE RELAY
K14	TF		DEFROST RELAY
K8	TN	_	CONTROLLER RELAY (CONDENSER FAN)
D9,D17,F15,G10, J7,J10,J13,M16	} TP	—	
M3	TR	—	TRANSFORMER
D1	TRANS	_	
E5,F5 E15	TRC TS	_	TRANSFREEDT REAR CONNECTOR OF FIGHT
EIS EII	TV		CONTROLLER RELAY (SUCTION SOLENOID VALVE) CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E8	WP	_	WATER PRESSURE SWITCH (OPTION)
20			WATER TRESSORE SWITCH (OFTION)

Figure 7-35. Electrical Schematic - See Model Chart (Sheet 1 of 2)





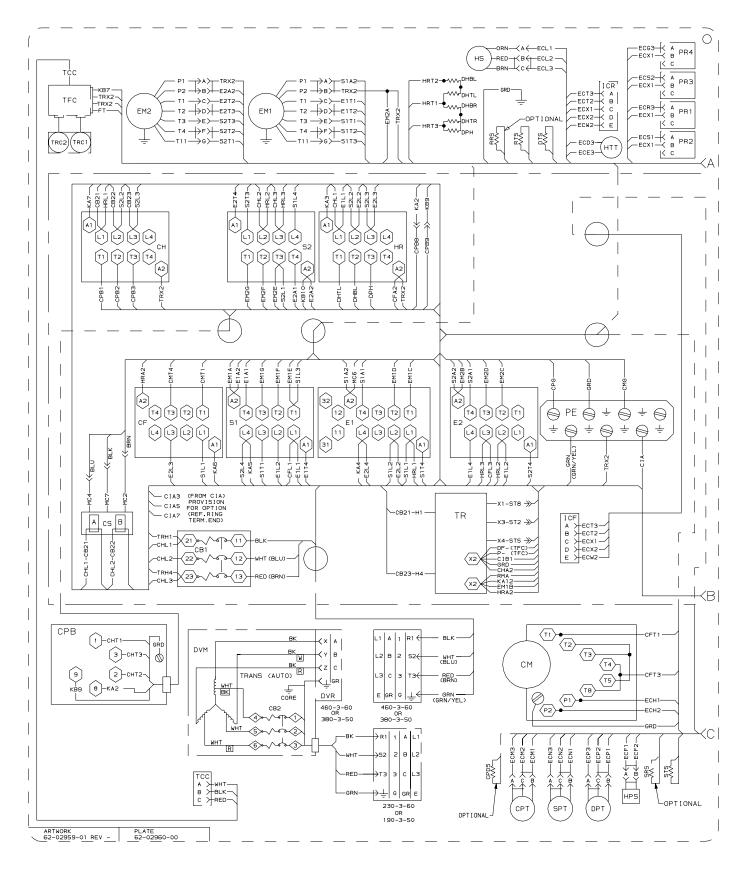


Figure 7-36. Electrical Wiring Diagram - See Model Chart (Sheet 1 of 2)

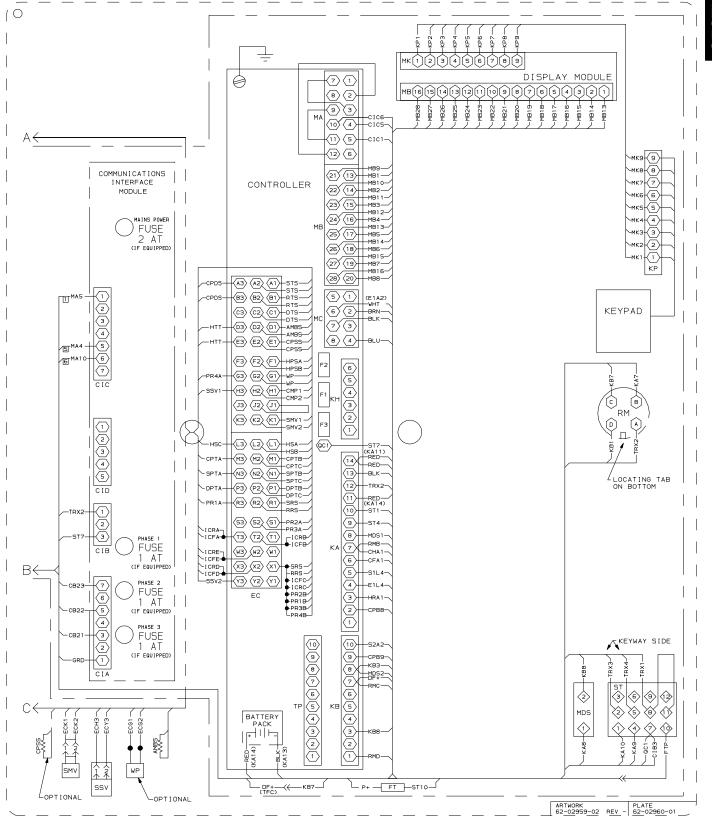


Figure 7-36. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

ZONE S	YMBOL		LEGEND DESCRIPTION
		_	
C18			AMBIENT SENSOR
J1 MO D4	CB1		CIRCUIT BREAKER 460V
M9, P4	CF		CONDENSER FAN CONTACTOR
A3	CI		COMMUNICATIONS INTERFACE MODULE (OPTION)
M7, P1	СН		COMPRESSOR CONTACTOR
Н9,Т4	СМ		CONDENSER FAN MOTOR
E7,T1	СР		COMPRESSOR MOTOR
G18	CPT		CONDENSER PRESSURE TRANSDUCER
M1	CS		CURRENT SENSOR
Т3	DHBL		DEFROST HEATER - BOTTOM LEFT
ТЗ	DHBR		DEFROST HEATER - BOTTOM RIGHT
ТЗ			DEFROST HEATER - TOP LEFT
R3	DHTR	—	DEFROST HEATER - TOP RIGHT
R3	DPH	—	DRAIN PAN HEATER
C18	DTS		DEFROST TEMPERATURE SENSOR
L11,M10,P5,P7	EF	_	EVAPORATOR FAN CONTACTOR (HIGH SPEED)
E10,H10,T6,T8	ЕM		EVAPORATOR FAN MOTOR
M11,R6,R8	ES	_	EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D16,E16	F	—	FUSE
	FLA		FULL LOAD AMPS
M8	НМ		HOUR METER
H7	HPS	_	HIGH PRESSURE SWITCH
M12,P2	HR		HEATER CONTACTOR
F18	HS	_	HUMIDITY SENSOR
G12	НТТ		HEAT TERMINATION THERMOSTAT
P18	ΙC		INTERROGATOR CONNECTOR (OPTION)
E7,E10,H9,H10	IΡ		INTERNAL PROTECTOR
B13	КР		KEYPAD CONNECTOR
E14	MDS	_	MANUAL DEFROST SWITCH
D18,L18,M18,P18	PR	_	PROBE RECEPTACLE (USDA OPTION)
K18	RRS	_	RETURN RECORDER SENSOR (OPTION)
B18	RTS		RETURN TEMPERATURE SENSOR
E18	SMV		SUCTION MODULATION VALVE
K18	SRS		SUPPLY RECORDER SENSOR (OPTION)
Н13	SSV		SUCTION SOLENOID VALVE
Κ4	ST		START-STOP SWITCH
A18	STS		SUPPLY TEMPERATURE SENSOR
K7	тс		CONTROLLER RELAY (COOLING)
K10	TE		CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
K12	тн		CONTROLLER RELAY (HEATING)
	TN		CONTROLLER RELAY (CONDENSER FAN)
D15,F13,G9,J7 J9,J10,J12,H14			TEST POINT
M3	TR		TRANSFORMER
E13	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
K11	ΤV		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E9	WP		WATER PRESSURE SWITCH (OPTION)

Figure 7-37. Electrical Schematic - See Model Chart (Sheet 1 of 2)

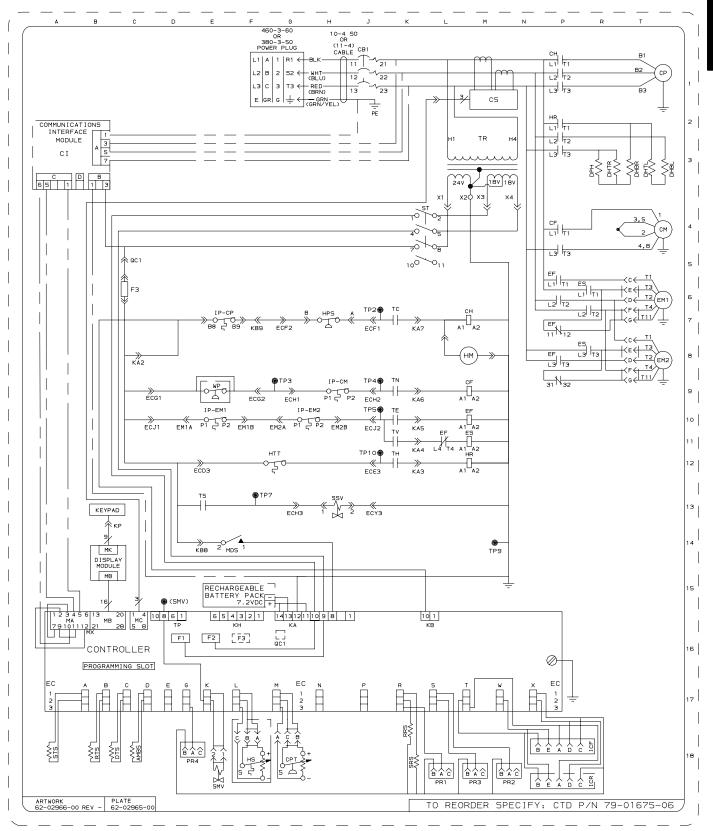
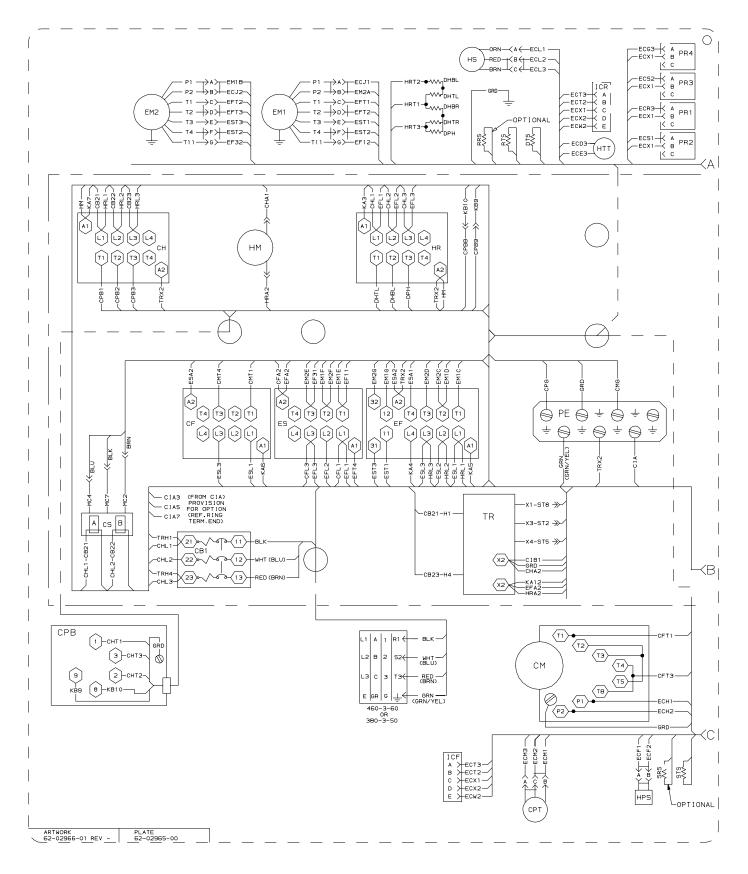


Figure 7-37. Electrical Schematic - See Model Chart (Sheet 2 of 2)





DISPLAY MODULE - MB14 MB15 MB19-MB18--MB17--MB16--MB13мкэ (э) мкв (в) kā MK7

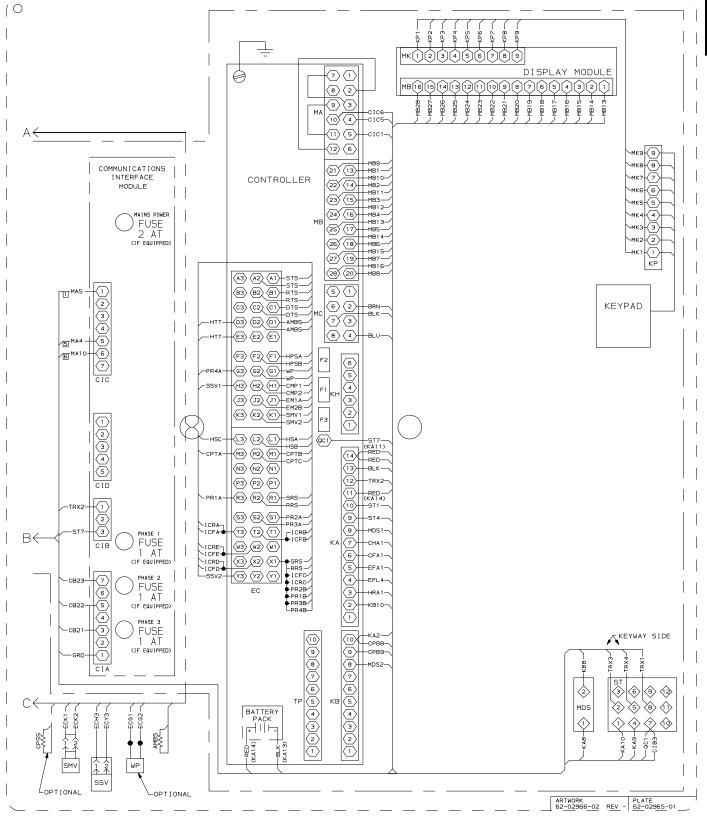
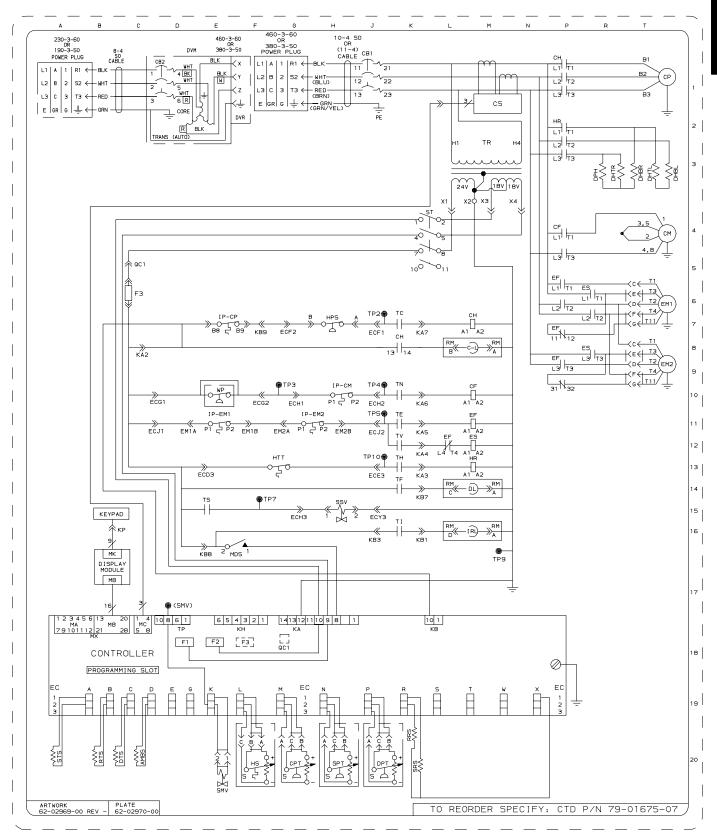
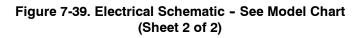


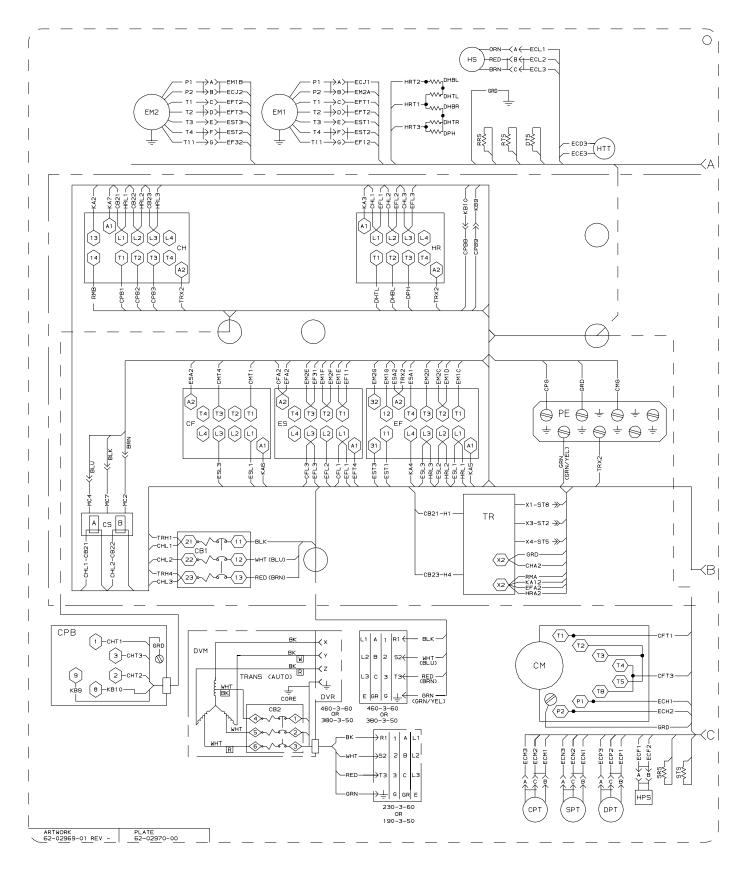
Figure 7-38. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

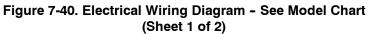
			LEGEND
ZONE S	SYMBOL	<u>.</u>	DESCRIPTION
C19	AMBS	_	AMBIENT SENSOR
J1	CB1	—	CIRCUIT BREAKER 460V
D1	CB2	—	OPTIONAL CIRCUIT BREAKER 230V (DVM OPTION)
			TERMINAL BLOCK WHEN CB2 NOT PRESENT
M9,P4	CF	_	CONDENSER FAN CONTACTOR
M7,P1	СН	_	COMPRESSOR CONTACTOR
M6	C-L	_	COOL LIGHT (OPTION)
H10,T4	СМ	_	CONDENSER FAN MOTOR
E7,T1	СР	_	COMPRESSOR MOTOR
G20	CPT	_	CONDENSER PRESSURE TRANSDUCER
M1	CS	—	CURRENT SENSOR
ТЗ	DHBL	_	DEFROST HEATER - BOTTOM LEFT
ТЗ	DHBR	_	DEFROST HEATER - BOTTOM RIGHT
ТЗ	DHTL	_	DEFROST HEATER - TOP LEFT
RЗ	DHTR	_	DEFROST HEATER - TOP RIGHT
M15	DL	_	DEFROST LIGHT (OPTION)
RЭ	DPH	_	DRAIN PAN HEATER
J20	DPT	_	DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DTS	_	DEFROST TEMPERATURE SENSOR
D1	DVM		DUAL VOLTAGE MODULE (OPTIONAL)
E1	DVR	_	DUAL VOLTAGE RECEPTACLE (OPTIONAL)
L12,M11,P6	EF	_	EVAPORATOR FAN CONTACTOR (HIGH SPEED)
G11,H11,T6,T9	ЕM	_	EVAPORATOR FAN MOTOR
M12,R6	ES	_	EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18	F	_	FUSE
	FLA	_	FULL LOAD AMPS
H7	HPS	—	HIGH PRESSURE SWITCH
M13,P2	HR	_	HEATER CONTACTOR
F20	HS	_	HUMIDITY SENSOR
F13	НТТ	_	HEAT TERMINATION THERMOSTAT
E7,F11,H10,H11	ΙP	_	INTERNAL PROTECTOR
M14	IRL	_	IN-RANGE LIGHT (OPTION)
B16	KP	—	KEYPAD CONNECTOR
E16	MDS	_	MANUAL DEFROST SWITCH
L6,L14,L16	RM	_	REMOTE MONITORING RECEPTACLE (OPTION)
K20	RRS	_	RETURN RECORDER SENSOR
B20	RTS	—	RETURN TEMPERATURE SENSOR
E20	SMV	—	SUCTION MODULATION VALVE
H20	SPT	_	SUCTION PRESSURE TRANSDUCER (OPTION)
K20	SRS	_	SUPPLY RECORDER SENSOR
H15	SSV	_	SUCTION SOLENOID VALVE
K4	ST	_	START-STOP SWITCH
A20	STS	_	SUPPLY TEMPERATURE SENSOR
К7	ТС	_	CONTROLLER RELAY (COOLING)
К8	TD	_	CONTROLLER RELAY (LOW SPEED COMPRESSOR)
K11	ΤE	—	CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
К1З	ТН	_	CONTROLLER RELAY (HEATING)
K16	ΤI	—	INRANGE RELAY
K14	TF	_	DEFROST RELAY
K10	ΤN	_	CONTROLLER RELAY (CONDENSER FAN)
D17,F15,G10,J7,	} _{TP}		
D17,F15,G10,J7, J10,J11,J13,M16	<u></u> ΓΡ	_	TEST POINT
MЗ	TR	—	TRANSFORMER
D1	TRANS	—	TRANSFORMER AUTO 230/460 (OPTION)
E15	TS	—	CONTROLLER RELAY (SUCTION SOLENOID VALVE)
К9	ΤT	—	CONTROLLER RELAY (COMPRESSOR SHORTING)
K12	ΤV	—	CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E10	WP	—	WATER PRESSURE SWITCH (OPTION)

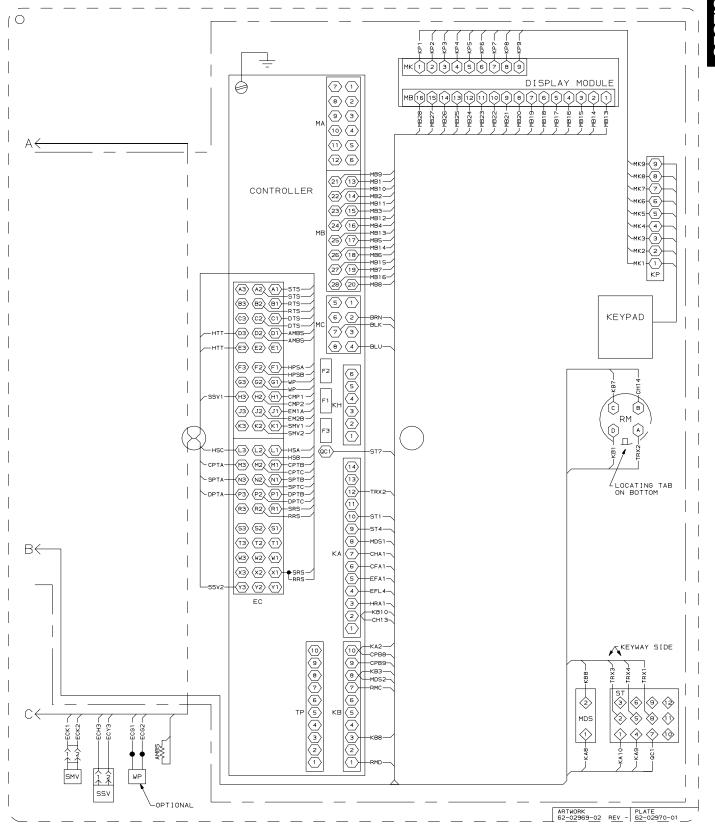
Figure 7-39. Electrical Schematic - See Model Chart (Sheet 1 of 2)

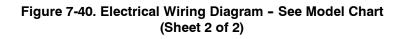












ZONE 5	SYMBOL		LEGEND DESCRIPTION
C19	AMBS	-	AMBIENT SENSOR
J1	CB1		CIRCUIT BREAKER 460V
D1	CB2		OPTIONAL CIRCUIT BREAKER 230V (DVM OPTION)
			TERMINAL BLOCK WHEN CB2 NOT PRESENT
M9,P4	CF	_	CONDENSER FAN CONTACTOR
AЭ	CI	—	COMMUNICATIONS INTERFACE MODULE (OPTION)
M7,P1,K8	СН	—	COMPRESSOR CONTACTOR
MB	C-L	—	COOL LIGHT (OPTION)
H10,T4	СМ		CONDENSER FAN MOTOR
E7,T1	CP		COMPRESSOR MOTOR
A20 C20	CPDS CPSS		COMPRESSOR DISCHARGE SENSOR (TEMP.) COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPJJ		CONDENSER PRESSURE TRANSDUCER
G2	CR		CHART RECORDER (OPTION)
M1	CS		CURRENT SENSOR
ТЗ	DHBL	_	DEFROST HEATER - BOTTOM LEFT
ТЗ	DHBR	—	DEFROST HEATER - BOTTOM RIGHT
ТЗ	DHTL	—	DEFROST HEATER - TOP LEFT
RЗ	DHTR	—	DEFROST HEATER - TOP RIGHT
M15	DL		DEFROST LIGHT (OPTION)
R3	DPH		DRAIN PAN HEATER
J20	DPT		DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20 D1	DTS DVM		DEFROST TEMPERATURE SENSOR DUAL VOLTAGE MODULE (OPTIONAL)
E1	DVR		DUAL VOLTAGE RECEPTACLE (OPTIONAL)
L12,M11,P6	EF	_	EVAPORATOR FAN CONTACTOR (HIGH SPEED)
G11,H11,T6,T9	EM		EVAPORATOR FAN MOTOR
M12,R6	ES	_	EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18,G5	F	—	FUSE
	FLA		FULL LOAD AMPS
H7	HPS		HIGH PRESSURE SWITCH
M13,P2	HR		HEATER CONTACTOR
F20 F13	HS HTT		HUMIDITY SENSOR HEAT TERMINATION THERMOSTAT
M20	IC		INTERROGATOR CONNECTOR (OPTION)
E7,F11,H10,H11	IP		INTERNAL PROTECTOR
M14	IRL		IN-RANGE LIGHT (OPTION)
B16	KP	_	KEYPAD CONNECTOR
E16	MDS	—	MANUAL DEFROST SWITCH
D20,L20,M20,P20	PR	—	PROBE RECEPTACLE (USDA OPTION)
L8,L14,L16	RM		REMOTE MONITORING RECEPTACLE (OPTION)
K20	RRS		RETURN RECORDER SENSOR (OPTION)
B20 E20	RTS SMV	_	RETURN TEMPERATURE SENSOR
H20	SPT		SUCTION MODULATION VALVE SUCTION PRESSURE TRANSDUCER (OPTION)
K20	SRS		SUPPLY RECORDER SENSOR (OPTION)
H15	SSV		SUCTION SOLENOID VALVE
К4	ST	_	START-STOP SWITCH
A20	STS	—	SUPPLY TEMPERATURE SENSOR
K7	ТС	—	CONTROLLER RELAY (COOLING)
D5	TCC		TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)
K8	TD		CONTROLLER RELAY (LOW SPEED COMPRESSOR)
K11	TE		CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
G5 K13	TFC TH		TRANSFRESH CONTROLLER (OPTION) CONTROLLER RELAY (HEATING)
K16	ΤI		INRANGE RELAY
K14	TF		DEFROST RELAY
K10	ΤN		CONTROLLER RELAY (CONDENSER FAN)
D17,F15,G10,J7, J10,J11,J13,M16		_	TEST POINT
МЗ	TR	_	TRANSFORMER
D1			TRANSFORMER AUTO 230/460 (OPTION)
E5,F5	TRC	—	TRANSFRESH REAR CONNECTOR (OPTION)
E15	TS	_	CONTROLLER RELAY (SUCTION SOLENOID VALVE)
К9	ΤT		CONTROLLER RELAY (COMPRESSOR SHORTING)
K12	TV		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E10	WP	_	WATER PRESSURE SWITCH (OPTION)

Figure 7-41. Electrical Schematic - See Model Chart (Sheet 1 of 2)

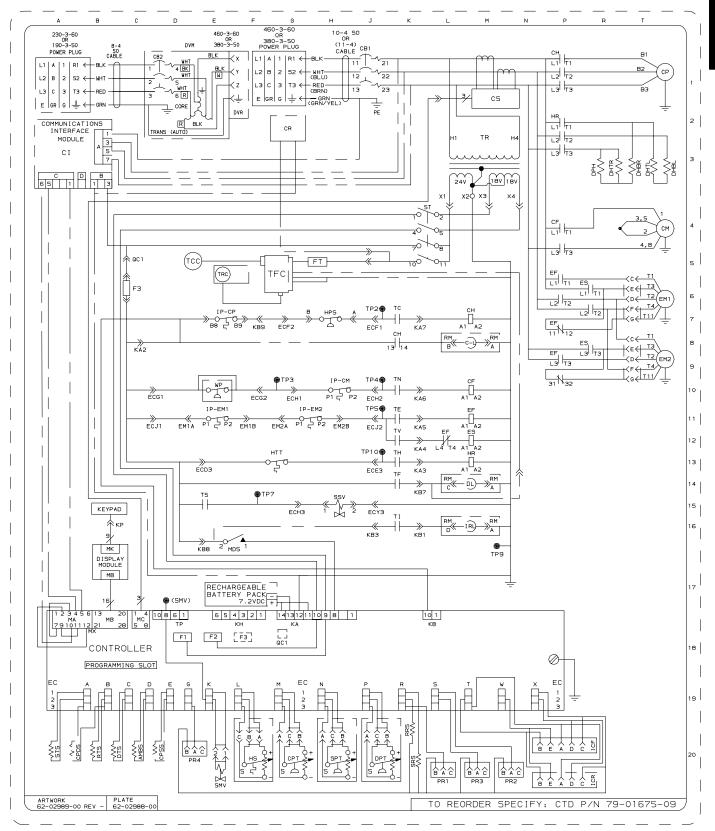
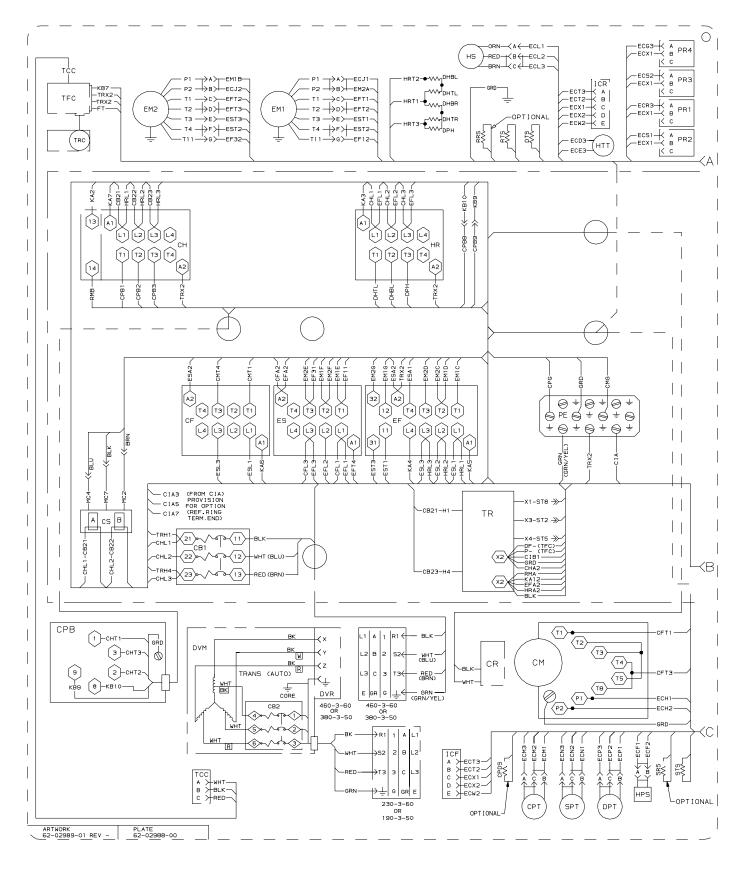


Figure 7-41. Electrical Schematic - See Model Chart (Sheet 2 of 2)





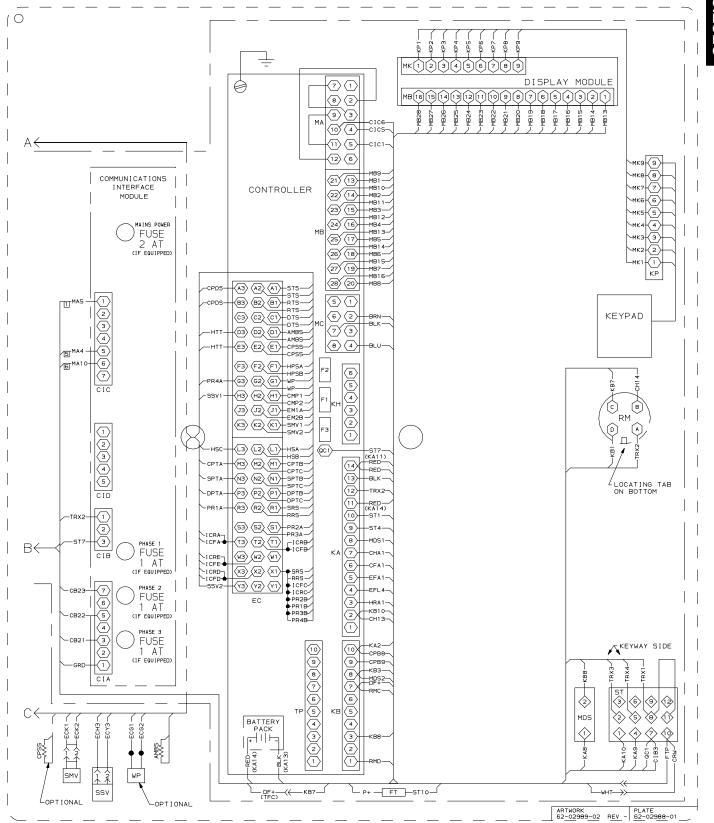
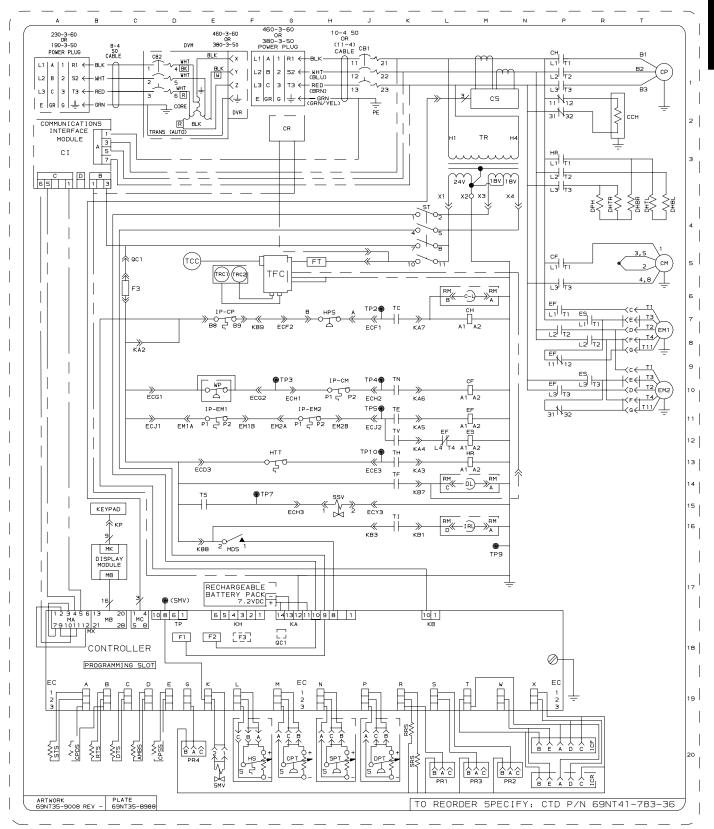
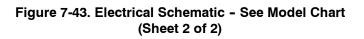


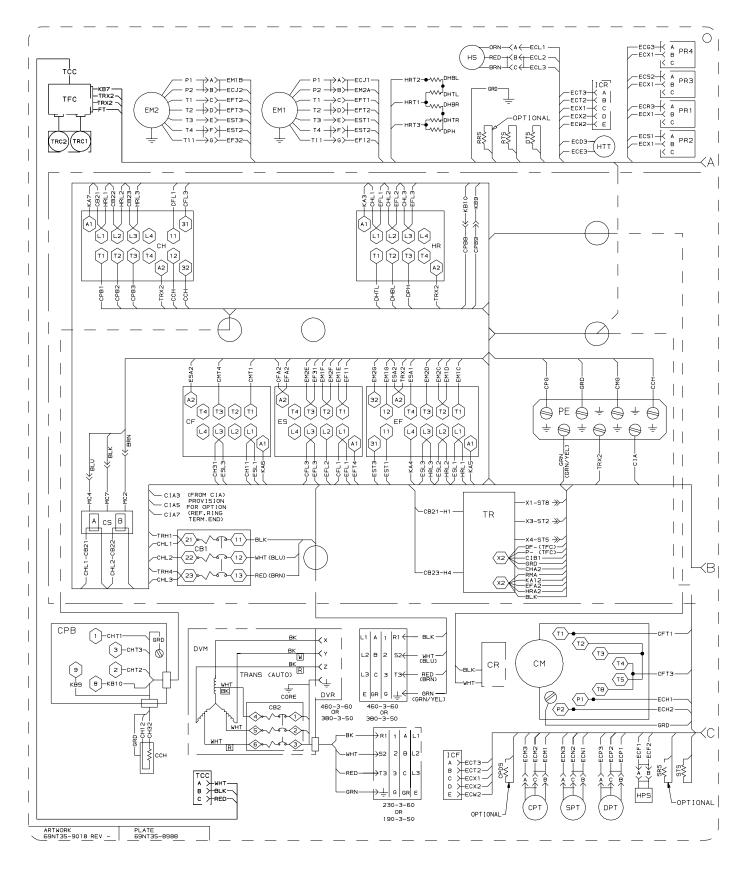
Figure 7-42. Electrical Wiring Diagram – See Model Chart (Sheet 2 of 2)

LEGEND				
ZONE S	YMBOL	-	DESCRIPTION	
C19		_	AMBIENT SENSOR	
J1 D1	CB1 CB2		CIRCUIT BREAKER 460V OPTIONAL CIRCUIT BREAKER 230V (DVM OPTION)	
	CD2		TERMINAL BLOCK WHEN CB2 NOT PRESENT	
R2	ссн	_	COMPRESSOR CRANKCASE HEATER	
M9,P5	CF		CONDENSER FAN CONTACTOR	
AЗ	CI	—	COMMUNICATIONS INTERFACE MODULE (OPTION)	
M7,P1	СН	—	COMPRESSOR CONTACTOR	
MG	C-L		COOL LIGHT (OPTION)	
H10,T5	CM CP		CONDENSER FAN MOTOR	
E7,T1 A20	CPDS		COMPRESSOR MOTOR COMPRESSOR DISCHARGE SENSOR (TEMP.)	
C20	CPSS		COMPRESSOR SUCTION SENSOR (TEMP.)	
G20	CPT		CONDENSER PRESSURE TRANSDUCER	
G2	CR	—	CHART RECORDER (OPTION)	
M1	CS		CURRENT SENSOR	
Τ4	DHBL		DEFROST HEATER - BOTTOM LEFT	
Т4 Т4	DHBR		DEFROST HEATER - BOTTOM RIGHT DEFROST HEATER - TOP LEFT	
R4	DHTR		DEFROST HEATER - TOP RIGHT	
M15	DL		DEFROST LIGHT (OPTION)	
R4	DPH		DRAIN PAN HEATER	
J20	DPT	—	DISCHARGE PRESSURE TRANSDUCER (OPTION)	
C20	DTS		DEFROST TEMPERATURE SENSOR	
D1 E1	DVM DVR		DUAL VOLTAGE MODULE (OPTIONAL) DUAL VOLTAGE RECEPTACLE (OPTIONAL)	
L12.M11.P7	EF		EVAPORATOR FAN CONTACTOR (HIGH SPEED)	
G11,H11,T7,T10			EVAPORATOR FAN MOTOR	
M12,R7	ES	_	EVAPORATOR FAN CONTACTOR (LOW SPEED)	
C6,D18,E18,G5	F	—	FUSE	
	FLA	—	FULL LOAD AMPS	
H7	HPS		HIGH PRESSURE SWITCH	
M13,P3	HR	_	HEATER CONTACTOR	
F20 F13	HS HTT	_	HUMIDITY SENSOR HEAT TERMINATION THERMOSTAT	
M20	IC		INTERROGATOR CONNECTOR (OPTION)	
	IP		INTERNAL PROTECTOR	
M14	IRL	—	IN-RANGE LIGHT (OPTION)	
B16	KP	—	KEYPAD CONNECTOR	
E16	MDS		MANUAL DEFROST SWITCH	
D20,L20,M20,P20			PROBE RECEPTACLE (USDA OPTION)	
L6,L14,L16 K20	RM RRS		REMOTE MONITORING RECEPTACLE (OPTION) RETURN RECORDER SENSOR (OPTION)	
B20	RTS		RETURN TEMPERATURE SENSOR	
E20	SMV		SUCTION MODULATION VALVE	
H20	SPT	—	SUCTION PRESSURE TRANSDUCER (OPTION)	
K20	SRS		SUPPLY RECORDER SENSOR (OPTION)	
H15	SSV		SUCTION SOLENOID VALVE	
K4 A20	ST STS		START-STOP SWITCH Supply temperature sensor	
K7	TC		CONTROLLER RELAY (COOLING)	
D5	тсс		TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)	
К8	TD	_	CONTROLLER RELAY (LOW SPEED COMPRESSOR)	
K11	ΤE	—	CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)	
G5	TFC		TRANSFRESH CONTROLLER (OPTION)	
K13	ТН	_		
K16 K14	T I TF	_	INRANGE RELAY DEFROST RELAY	
K14 K10	TN	_	CONTROLLER RELAY (CONDENSER FAN)	
D17,F15,G10,J7,				
J10,J11,J13,M16		_	TEST POINT	
M3	TR	_	TRANSFORMER	
D1 E5,F5	TRANS TRC		TRANSFORMER AUTO 230/460 (OPTION) TRANSFRESH REAR CONNECTOR (OPTION)	
E5,F5 E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)	
К9	TT		CONTROLLER RELAY (COMPRESSOR SHORTING)	
K12	ΤV		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)	
E10	WP	_	WATER PRESSURE SWITCH (OPTION)	

Figure 7-43. Electrical Schematic - See Model Chart (Sheet 1 of 2)









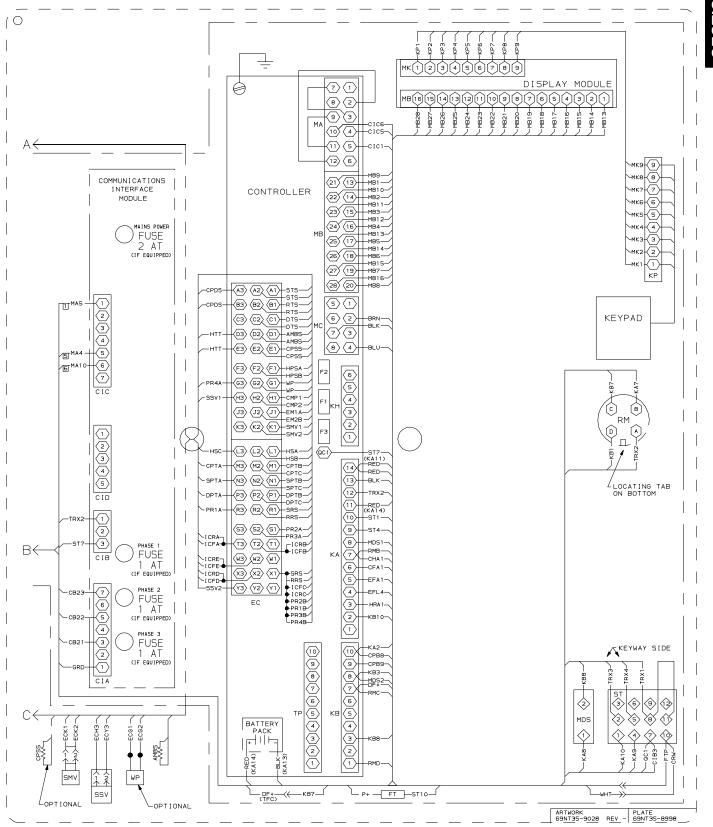
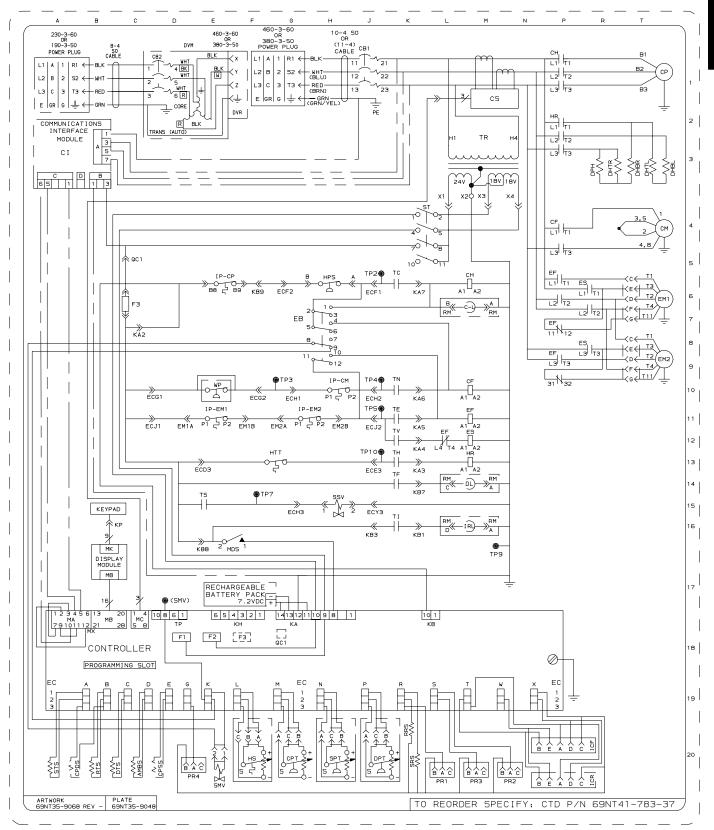
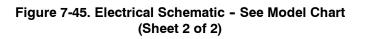


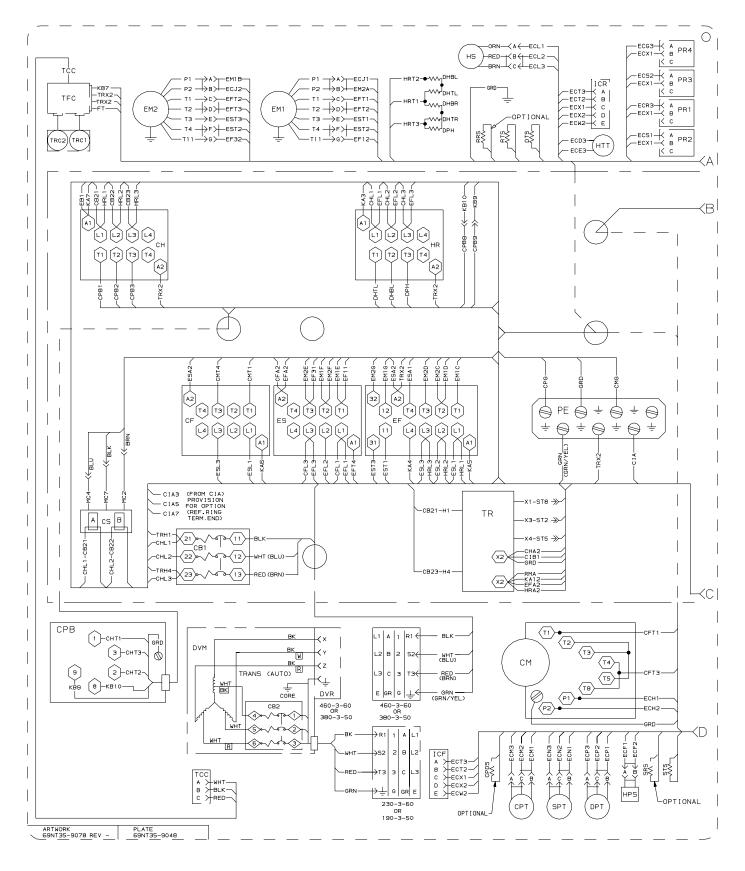
Figure 7-44. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

			LEGEND
ZONE S	SYMBOL	<u> </u>	DESCRIPTION
C19	AMBS	_	AMBIENT SENSOR
J1	CB1		CIRCUIT BREAKER 460V
D1	CB2	_	OPTIONAL CIRCUIT BREAKER 230V (DVM OPTION)
M9.P4	<u>c</u> e		TERMINAL BLOCK WHEN CB2 NOT PRESENT
M9,24 A3	CF CI	_	CONDENSER FAN CONTACTOR COMMUNICATIONS INTERFACE MODULE (OPTION)
M5,P1	СН		COMPRESSOR CONTACTOR
M6	C-L		COOL LIGHT (OPTION)
H10,T4	СМ		CONDENSER FAN MOTOR
E7,T1	CP	_	COMPRESSOR MOTOR
A20	CPDS	—	COMPRESSOR DISCHARGE SENSOR (TEMP.)
C20	CPSS	—	COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT		CONDENSER PRESSURE TRANSDUCER
M1	CS		CURRENT SENSOR
T3	DHBL		DEFROST HEATER - BOTTOM LEFT
T3	DHBR		DEFROST HEATER - BOTTOM RIGHT
T3 R3	DHTL DHTR		DEFROST HEATER - TOP LEFT DEFROST HEATER - TOP RIGHT
M15	DL		DEFROST LIGHT (OPTION)
R3	DPH		DRAIN PAN HEATER
J20	DPT		DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DTS	_	DEFROST TEMPERATURE SENSOR
D1	DVM	_	DUAL VOLTAGE MODULE (OPTIONAL)
E1	DVR		DUAL VOLTAGE RECEPTACLE (OPTIONAL)
H7	EB		EMERGENCY (CONTROLLER) BYPASS SWITCH
L12,M11,P6	EF EM		EVAPORATOR FAN CONTACTOR (HIGH SPEED) EVAPORATOR FAN MOTOR
G11,H11,T6,T9 M12,R6	ES		EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18	F		FUSE
00,010,210	FLA		FULL LOAD AMPS
Н5	HPS		HIGH PRESSURE SWITCH
M13,P2	HR	_	HEATER CONTACTOR
F20	HS	_	HUMIDITY SENSOR (OPTION)
F13	HTT	_	HEAT TERMINATION THERMOSTAT
M20	ΙC		INTERROGATOR CONNECTOR (OPTION)
E5,F11,H10,H11	IΡ		INTERNAL PROTECTOR
M14	IRL		IN-RANGE LIGHT (OPTION)
B16 E16	KP MDS		KEYPAD CONNECTOR Manual defrost switch
D20,L20,M20,P20			PROBE RECEPTACLE (USDA OPTION)
L6,L14,L16	RM		REMOTE MONITORING RECEPTACLE (OPTION)
K20	RRS		RETURN RECORDER SENSOR (OPTION)
B20	RTS		RETURN TEMPERATURE SENSOR
E20	SMV	_	SUCTION MODULATION VALVE
H20	SPT	_	SUCTION PRESSURE TRANSDUCER (OPTION)
K20	SRS	—	SUPPLY RECORDER SENSOR (OPTION)
H15	SSV		SUCTION SOLENOID VALVE
K4	ST		START-STOP SWITCH
A20	STS		SUPPLY TEMPERATURE SENSOR
К5 К8	ТС ТD		CONTROLLER RELAY (COOLING) CONTROLLER RELAY (LOW SPEED COMPRESSOR)
K11	TE		CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
K13	тн		CONTROLLER RELAY (HEATING)
K16	ΤI		INRANGE RELAY
K14	TF		DEFROST RELAY
K10	ΤN	_	CONTROLLER RELAY (CONDENSER FAN)
D17,F15,G10,J7, J10,J11,J13,M16	} _{TP}	_	TEST POINT
M3	TR		TRANSFORMER
D1 E5,F5	TRANS		TRANSFORMER AUTO 230/460 (OPTION) TRANSFRESH REAR CONNECTOR (OPTION)
E3,F3	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
K9	TT		CONTROLLER RELAY (COMPRESSOR SHORTING)
K12	ΤV		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E10	WP	—	WATER PRESSURE SWITCH (OPTION)

Figure 7-45. Electrical Schematic - See Model Chart (Sheet 1 of 2)









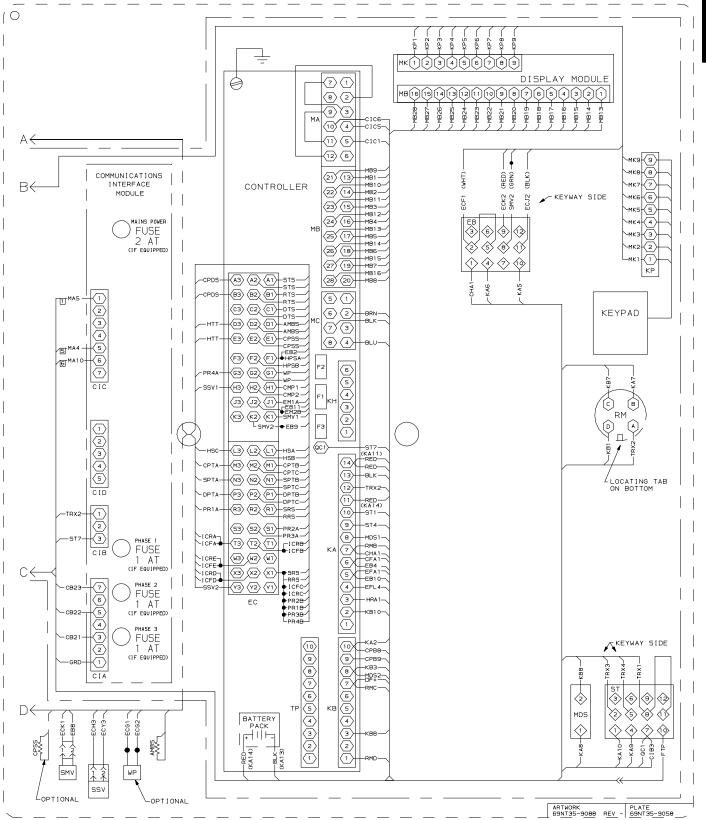


Figure 7-46. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

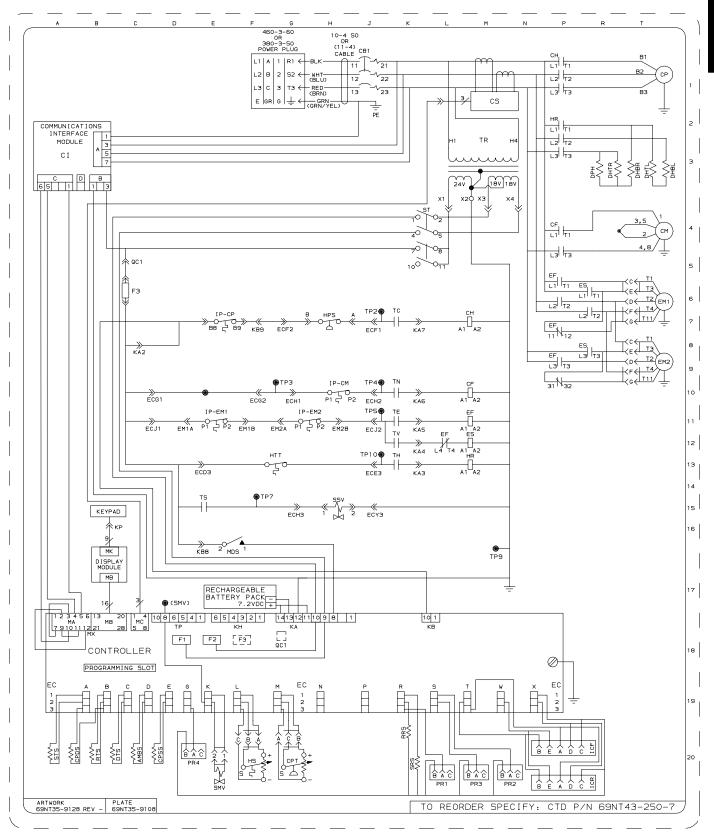
7-93

LEGEND

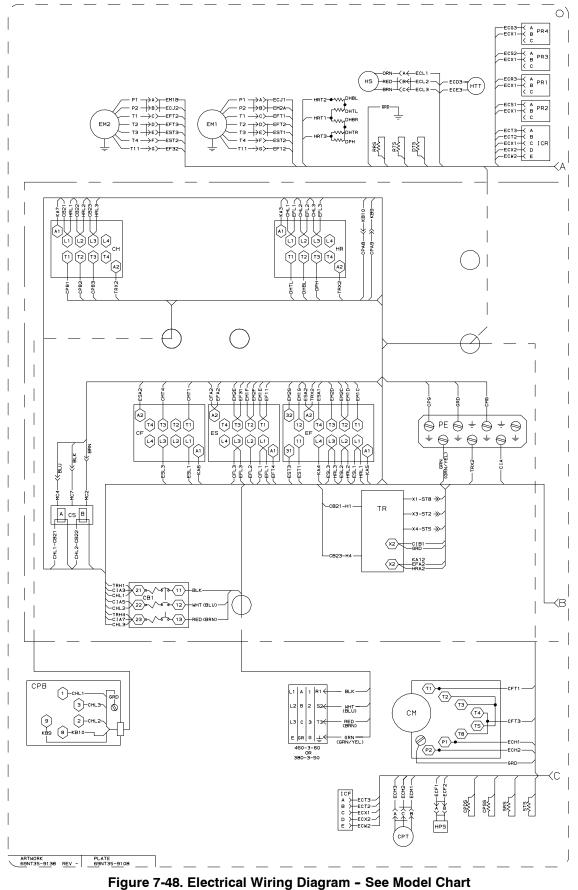
			EGEND
ZONE	SYMBOL		DESCRIPTION
C20	AMBS	—	AMBIENT SENSOR
J 1	CB1	—	CIRCUIT BREAKER 460V
M10,P4	CF	—	CONDENSER FAN CONTACTOR
M7,P1	СН		COMPRESSOR CONTACTOR
AЗ	CI	—	COMMUNICATIONS INTERFACE MODULE
H10,T4	СМ	—	CONDENSER FAN MOTOR
E7,T1	CP	_	COMPRESSOR MOTOR
B20	CPDS	—	COMPRESSOR DISCHARGE SENSOR (TEMP.)
D20	CPSS	—	COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT	—	CONDENSER PRESSURE TRANSDUCER
M1	CS	—	CURRENT SENSOR
ТЗ	DHBL	—	DEFROST HEATER - BOTTOM LEFT
ТЗ	DHBR	—	DEFROST HEATER - BOTTOM RIGHT
ТЗ	DHTL	—	DEFROST HEATER - TOP LEFT
R3	DHTR	_	DEFROST HEATER - TOP RIGHT
R3	DPH	—	drain pan heater
C20	DTS	—	DEFROST TEMPERATURE SENSOR
L12,M11,P6			EVAPORATOR FAN CONTACTOR (HIGH SPEED)
E11,G11,T6,T9			EVAPORATOR FAN MOTOR
M12,R6	ES	_	EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18	F		FUSE
	FLA		FULL LOAD AMPS
H7	HPS		HIGH PRESSURE SWITCH
M13,P2	HR		HEATER CONTACTOR
F20	HS		HUMIDITY SENSOR
G13	HTT	_	HEAT TERMINATION THERMOSTAT
P20	ΙC	—	INTERROGATOR CONNECTOR
E7,E11,G11,H10	ΙP		INTERNAL PROTECTOR
B16	КР		KEYPAD CONNECTOR
F16	MDS		MANUAL DEFROST SWITCH
D20,L20,M20,N20			PROBE RECEPTACLE (USDA OPTION)
K20	RRS		RETURN RECORDER SENSOR
B20	RTS		RETURN TEMPERATURE SENSOR
E20	SMV		SUCTION MODULATION VALVE
K20	SRS		SUPPLY RECORDER SENSOR
H15	SSV		SUCTION SOLENOID VALVE
K4	ST		START-STOP SWITCH
A20	STS		SUPPLY TEMPERATURE SENSOR
K7	TC		CONTROLLER RELAY (COOLING)
K11 K13	ТЕ ТН		CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
K10	TN		CONTROLLER RELAY (HEATING) CONTROLLER RELAY (CONDENSER FAN)
			CUNTRULLER RELAY (CUNDENSER FAN)
D17,F15,G10,J7, J10,J11,J13,M16	TP	_	TEST POINT
МЗ	TR	_	TRANSFORMER
E15	TS	_	CONTROLLER RELAY (SUCTION SOLENOID VALVE)
K12	ΤV	—	CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)

Figure 7-47. Electrical Schematic - See Model Chart

(Sheet 1 of 2)







(Sheet 1 of 2)

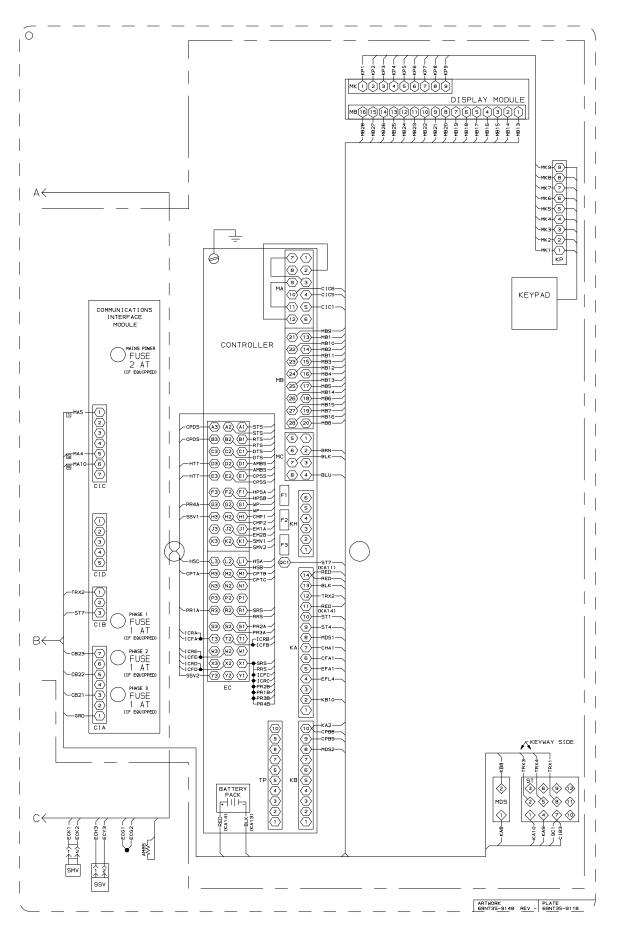
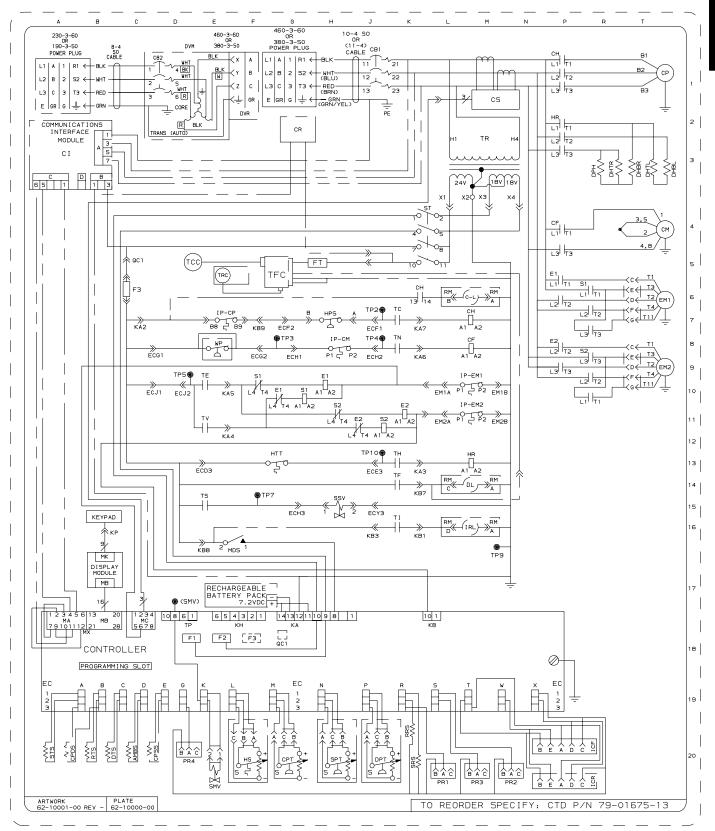
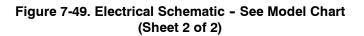


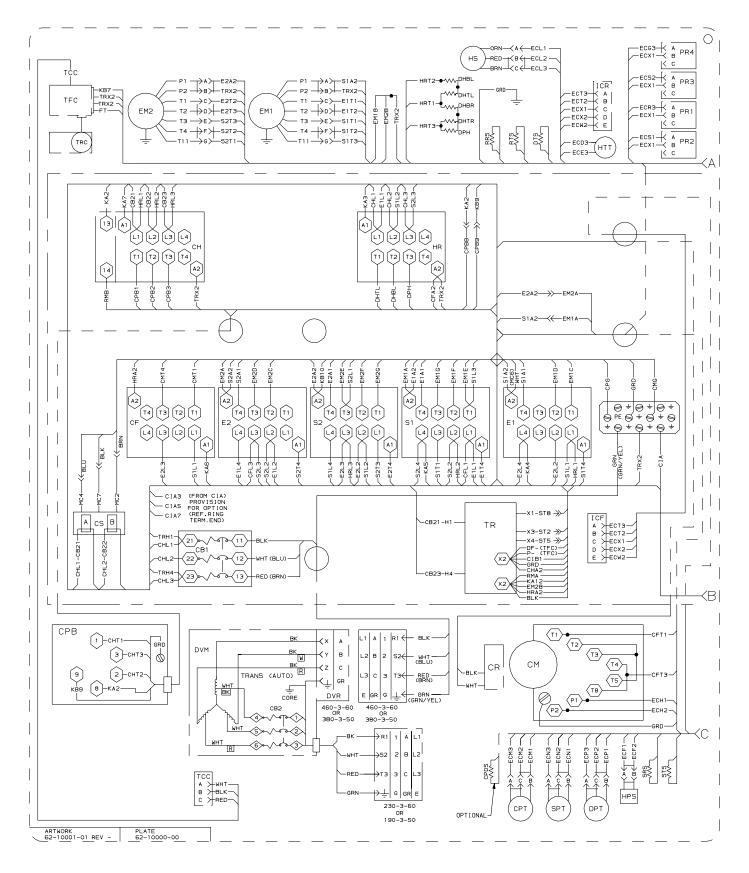
Figure 7-48. Electrical Wiring Diagram – See Model Chart (Sheet 2 of 2)

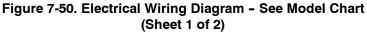
			LEGEND
ZONE	SYMBOL	_	DISCRIPTION
C19	AMBS	—	AMBIENT SENSOR
J1 D1	CB1 CB2	—	CIRCUIT BREAKER 460V
M8,P4	CE2 CF	_	CIRCUIT BREAKER 230V (AUTO TRANS OPTION) CONDENSER FAN CONTACTOR
AG	CI	_	COMMUNICATIONS INTERFACE MODULE (OPTION)
M7,P1,K6	СН	—	COMPRESSOR CONTACTOR
M6	C-L	_	COOL LIGHT (OPTION)
H8,T4 E7.T1	CM CP	_	CONDENSER FAN MOTOR COMPRESSOR MOTOR
A20	CPDS	_	COMPRESSOR DISCHARGE SENSOR (TEMP.)
C20	CPSS	—	COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT	—	CONDENSER PRESSURE TRANSDUCER
G2	CR	_	CHART RECORDER (OPTIONAL)
М1 ТЗ	CS DHBL	_	CURRENT SENSOR DEFROST HEATER - BOTTOM LEFT
ТЗ	DHBR	_	DEFROST HEATER - BOTTOM RIGHT
ТЗ	DHTL	—	DEFROST HEATER - TOP LEFT
R3	DHTR	—	DEFROST HEATER - TOP RIGHT
M15 R3	DL DPH	_	DEFROST LIGHT (OPTION) DRAIN PAN HEATER
R3 J20	DPH	_	DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DTS	_	DEFROST TEMPERATURE SENSOR
D1	DVM		DUAL VOLTAGE MODULE (OPTIONAL)
	DVR	_	DUAL VOLTAGE RECEPTACLE (OPTIONAL)
G10,H10,J11,K11, P6,P9	`}E	-	EVAPORATOR FAN CONTACTOR (HIGH SPEED)
M10,M11,T6,T9	EM		EVAPORATOR FAN MOTOR
C6,D18,E18,G5	F		FUSE
H7	FLA HPS	_	FULL LOAD AMPS HIGH PRESSURE SWITCH
M13,P2	HR	_	HEATER CONTACTOR
F20	HS	_	HUMIDITY SENSOR
F13	HTT	—	HEAT TERMINATION THERMOSTAT
M20	IC IP	_	INTERROGATOR CONNECTOR (OPTION)
E7,H8,M10,M11 M14	IRL	_	INTERNAL PROTECTOR IN-RANGE LIGHT (OPTION)
B16	KP	_	KEYPAD CONNECTOR
E16	MDS	—	MANUAL DEFROST SWITCH
D20,L20,M20,P20	PR	_	PROBE RECEPTACLE (USDA OPTION)
L6,L14,L16 K20	RM RRS	_	REMOTE MONITORING RECEPTACLE (OPTION) RETURN RECORDER SENSOR
B20	RTS	_	RETURN TEMPERATURE SENSOR
F10,G10,H11,J11,	·}s		EVAPORATOR FAN CONTACTOR (LOW SPEED)
R6,R9	J		
E20 H20	SMV SPT	_	SUCTION MODULATION VALVE SUCTION PRESSURE TRANSDUCER (OPTION)
K20	SRS	_	SUPPLY RECORDER SENSOR
H15	SSV	—	SUCTION SOLENOID VALVE
K4	ST	_	START-STOP SWITCH
A20 K7	STS TC	_	SUPPLY TEMPERATURE SENSOR CONTROLLER RELAY (COOLING)
D5	тсс	_	TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)
КВ	TD	_	CONTROLLER RELAY (LOW SPEED COMPRESSOR)
E10	ΤE	—	CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
G5	TFC	_	TRANSFRESH CONTROLLER (OPTION)
K13 K16	ТН ТІ	_	CONTROLLER RELAY (HEATING) INRANGE RELAY
K14	TF	_	DEFROST RELAY
KB	ΤN	—	CONTROLLER RELAY (CONDENSER FAN)
D9,D17,F15,G10, J7,J10,J13,M16	} TP	_	TEST POINT
M3	TR	_	TRANSFORMER
D1	TRANS	_	TRANSFORMER AUTO 230/460 (OPTION)
E5,F5	TRC	_	TRANSFRESH REAR CONNECTOR (OPTION)
E15 K9	TS TT		CONTROLLER RELAY (SUCTION SOLENOID VALVE) CONTROLLER RELAY (COMPRESSOR SHORTING)
E11	ΤV	_	CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E8	WP	_	WATER PRESSURE SWITCH (OPTION)

Figure 7-49. Electrical Schematic - See Model Chart (Sheet 1 of 2)









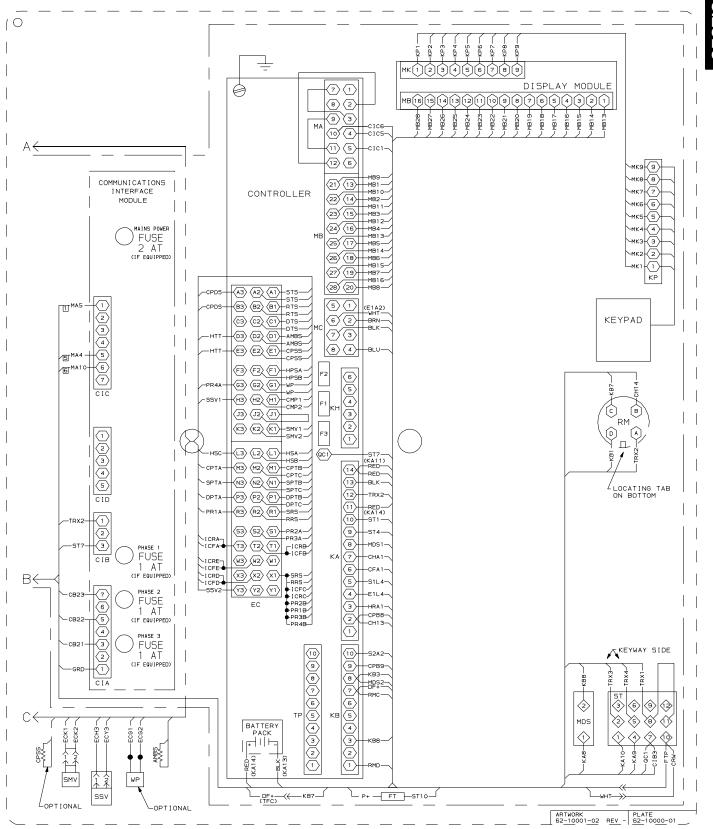
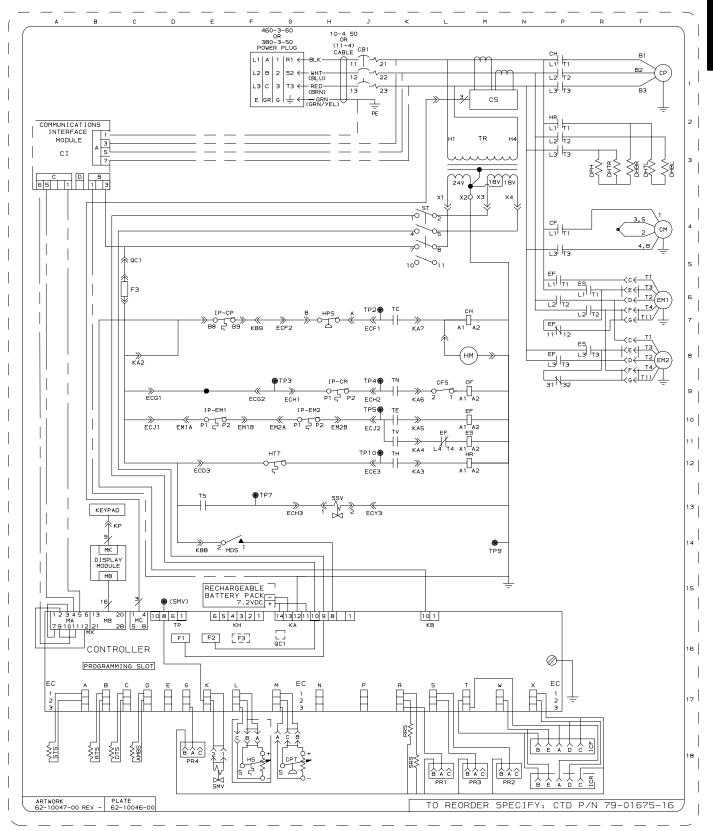
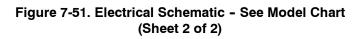


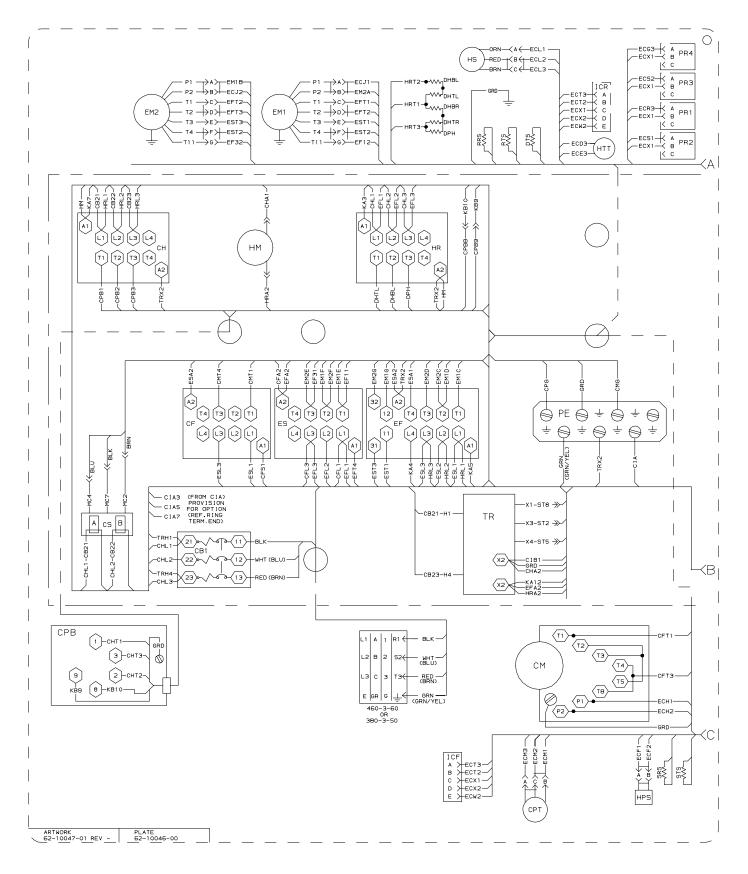
Figure 7-50. Electrical Wiring Diagram – See Model Chart (Sheet 2 of 2)

			LEGEND DESCRIPTION
	SYMBOL	_	
C18			AMBIENT SENSOR
J1	CB1		CIRCUIT BREAKER 460V
M9, P4	CF		CONDENSER FAN CONTACTOR
L9	CFS		CONDENSER FAN SWITCH
M7,P1	СН	—	COMPRESSOR CONTACTOR
AЗ	CI		COMMUNICATIONS INTERFACE MODULE (OPTION)
Н9,Т4	СМ	_	CONDENSER FAN MOTOR
E7,T1	CP		COMPRESSOR MOTOR
G18	CPT		CONDENSER PRESSURE TRANSDUCER
M 1	CS		CURRENT SENSOR
ТЗ	DHBL		DEFROST HEATER – BOTTOM LEFT
ТЗ	DHBR	—	DEFROST HEATER – BOTTOM RIGHT
ТЗ	DHTL		DEFROST HEATER - TOP LEFT
R3	DHTR		DEFROST HEATER – TOP RIGHT
R3	DPH	—	drain pan heater
C18	DTS	—	DEFROST TEMPERATURE SENSOR
	EF		EVAPORATOR FAN CONTACTOR (HIGH SPEED)
			EVAPORATOR FAN MOTOR
M11,R6,R8	ES		EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D16,E16	F		FUSE
	FLA		FULL LOAD AMPS
M8	НМ		HOUR METER
Н7	HPS		HIGH PRESSURE SWITCH
M12,P2	HR		HEATER CONTACTOR
F18	HS		HUMIDITY SENSOR
G12	HTT		HEAT TERMINATION THERMOSTAT
P18	ΙC		INTERROGATOR CONNECTOR (OPTION)
E7,E10,H9,H10	ΙP		INTERNAL PROTECTOR
B13	KP	_	KEYPAD CONNECTOR
E14	MDS	_	MANUAL DEFROST SWITCH
D18,L18,M18,P18	PR	—	PROBE RECEPTACLE (USDA OPTION)
K18	RRS	_	RETURN RECORDER SENSOR (OPTION)
B18	RTS	—	RETURN TEMPERATURE SENSOR
E18	SMV	_	SUCTION MODULATION VALVE
K18	SRS	_	SUPPLY RECORDER SENSOR (OPTION)
H13	SSV	_	SUCTION SOLENOID VALVE
K4	ST	_	START-STOP SWITCH
A18	STS	—	SUPPLY TEMPERATURE SENSOR
К7	ТС	_	CONTROLLER RELAY (COOLING)
K10	ΤE		CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
K12	ТН	—	CONTROLLER RELAY (HEATING)
К9	ΤN		CONTROLLER RELAY (CONDENSER FAN)
D15,F13,G9,J7 J9,J10,J12,H14			TEST POINT
Ј9,Ј10,Ј12,Н14) МЗ			
	TR		TRANSFORMER
E13			CONTROLLER RELAY (SUCTION SOLENOID VALVE)
K11	ΙV		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)

Figure 7-51. Electrical Schematic - See Model Chart (Sheet 1 of 2)









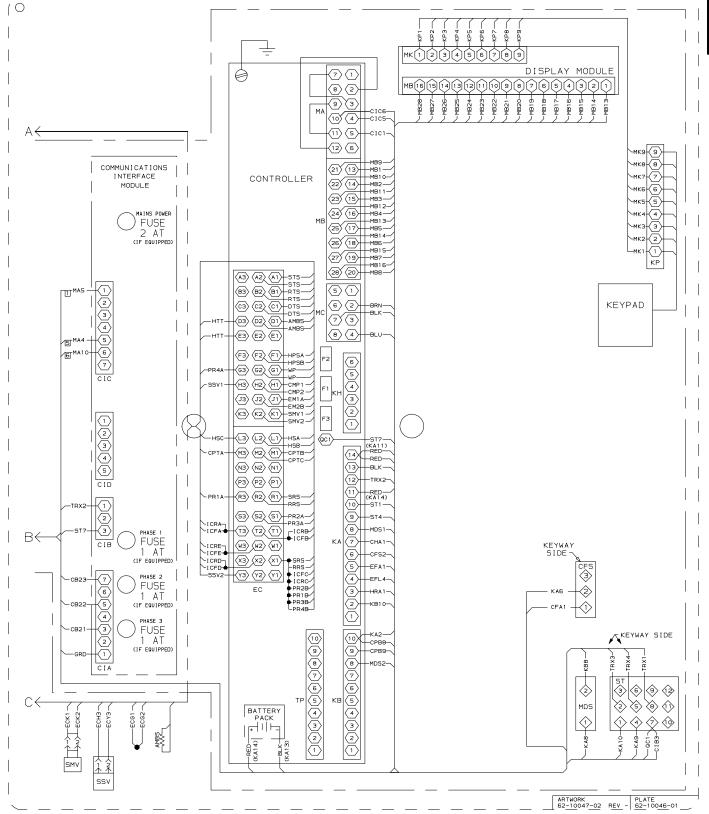
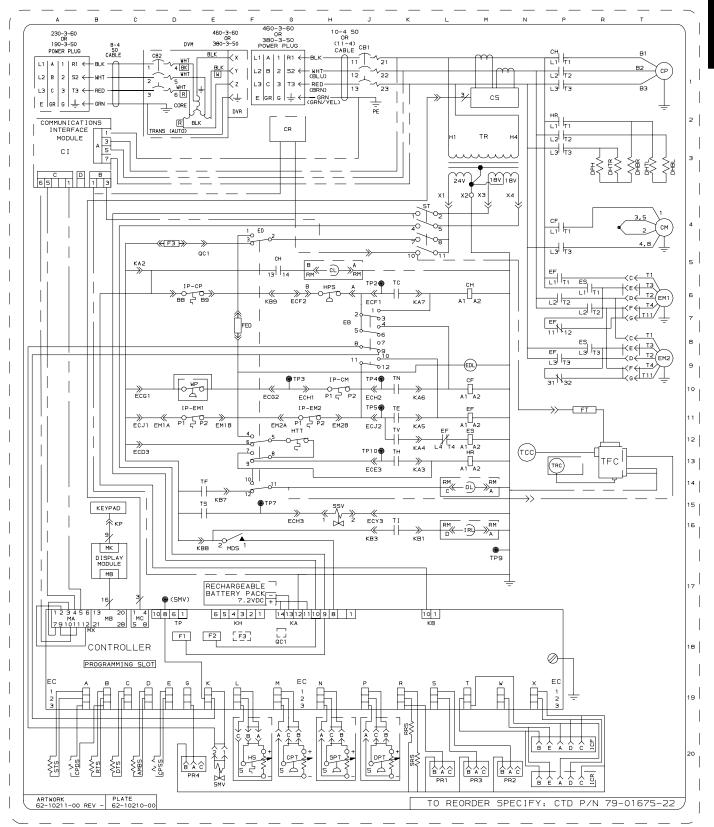
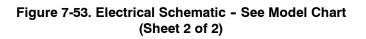


Figure 7-52. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

ZONE S	YMBOL		LEGEND DESCRIPTION
<u>20NL</u> <u> </u>		-	AMBIENT SENSOR
J1	CB1	_	CIRCUIT BREAKER 460V
D1	CB2	—	OPTIONAL CIRCUIT BREAKER 230V (DVM OPTION)
			TERMINAL BLOCK WHEN CB2 NOT PRESENT
M10,P4	CF	—	CONDENSER FAN CONTACTOR
AB	CI		COMMUNICATIONS INTERFACE MODULE (OPTION)
M6,P1,G5	СН		COMPRESSOR CONTACTOR
H5 H10,T4	CL CM		COOL LIGHT (OPTION) CONDENSER FAN MOTOR
D6,T1	CP		COMPRESSOR MOTOR
A20	CPDS		COMPRESSOR DISCHARGE SENSOR (TEMP.)
C20	CPSS		COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT	—	CONDENSER PRESSURE TRANSDUCER
G2	CR		CHART RECORDER (OPTION)
M1	CS		CURRENT SENSOR
T3	DHBL		DEFROST HEATER - BOTTOM LEFT
ТЗ ТЗ	DHBR DHTL		DEFROST HEATER – BOTTOM RIGHT DEFROST HEATER – TOP LEFT
R3	DHTR		DEFROST HEATER - TOP RIGHT
M15	DL		DEFROST LIGHT (OPTION)
R3	DPH		DRAIN PAN HEATER
J20	DPT	—	DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DTS		DEFROST TEMPERATURE SENSOR
D1	DVM		DUAL VOLTAGE MODULE (OPTIONAL)
E1 J7	DVR EB		DUAL VOLTAGE RECEPTACLE (OPTIONAL) EMERGENCY (CONTROLLER) BYPASS SWITCH
F4	ED		EMERGENCY DEFROST SWITCH
M9	EDL	—	EMERGENCY DEFROST LIGHT
L12,M11,P6	EF	—	EVAPORATOR FAN CONTACTOR (HIGH SPEED)
D11,G11,T6,T9	ЕM		EVAPORATOR FAN MOTOR
M12,R6	ES		EVAPORATOR FAN CONTACTOR (LOW SPEED)
D5,D18,E18,R11 F7	F		FUSE EMERGENCY DEFROST FUSE
F7	FED FLA		FULL LOAD AMPS
H6	HPS		HIGH PRESSURE SWITCH
M13,P2	HR		HEATER CONTACTOR
F20	HS		HUMIDITY SENSOR (OPTION)
G12	НТТ	—	HEAT TERMINATION THERMOSTAT
M20	IC		INTERROGATOR CONNECTOR (OPTION)
D6,D11,G11,H10	IP		INTERNAL PROTECTOR
L16	IRL		IN-RANGE LIGHT (OPTION)
B16 E16	KP MDS		KEYPAD CONNECTOR Manual defrost switch
D20,L20,M20,P20		_	PROBE RECEPTACLE (USDA OPTION)
H5,L14,L16	RM	_	REMOTE MONITORING RECEPTACLE (OPTION)
K20	RRS	_	RETURN RECORDER SENSOR (OPTION)
B20	RTS	—	RETURN TEMPERATURE SENSOR
E20	SMV		SUCTION MODULATION VALVE
H20	SPT		SUCTION PRESSURE TRANSDUCER (OPTION)
K20 H15	SRS SSV		SUPPLY RECORDER SENSOR (OPTION) Suction Solenoid Valve
K4	ST		START-STOP SWITCH
A20	STS		SUPPLY TEMPERATURE SENSOR
KG	тс		CONTROLLER RELAY (COOLING)
K11	ΤE		CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
R13	TFC	—	TRANSFRESH CONTROLLER (OPTION)
K13	ТН		CONTROLLER RELAY (HEATING)
K16	TI		INRANGE RELAY
D15	TF		DEFROST RELAY (CONDENSED FAN)
K10 D17,F15,G10,J6,`	TN	_	CONTROLLER RELAY (CONDENSER FAN)
J10, J11, J13, M16	}T₽	—	TEST POINT
МЗ	TR	_	TRANSFORMER
D1	TRANS	_	TRANSFORMER AUTO 230/460 (OPTION)
P13	TRC		TRANSFRESH REAR CONNECTOR (OPTION)
E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
K12	TV WP		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E10	WF.	_	WATER PRESSURE SWITCH (OPTION)

Figure 7-53. Electrical Schematic - See Model Chart (Sheet 1 of 2)





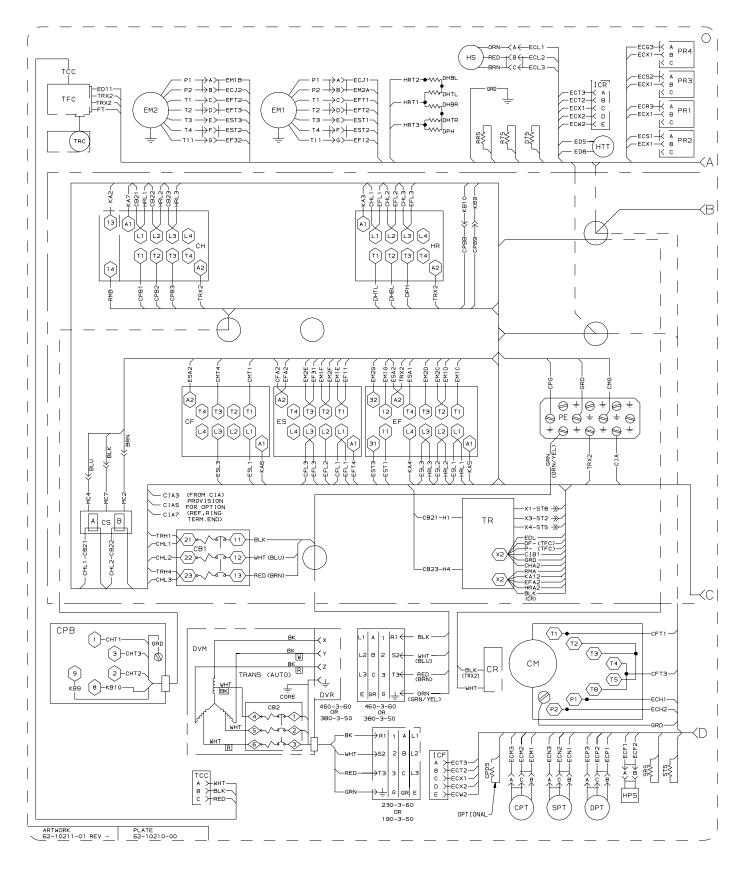
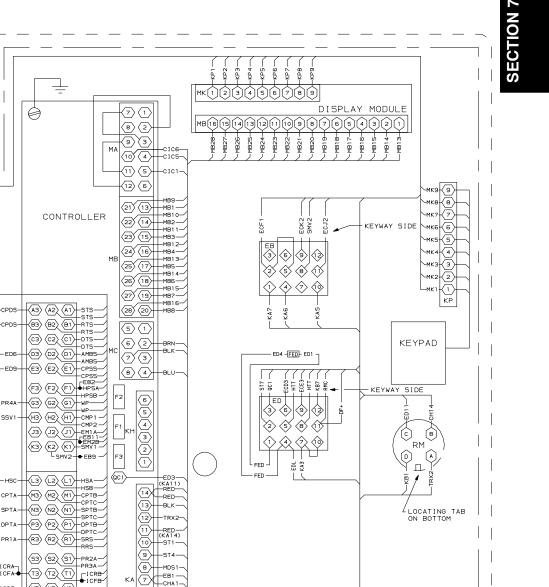
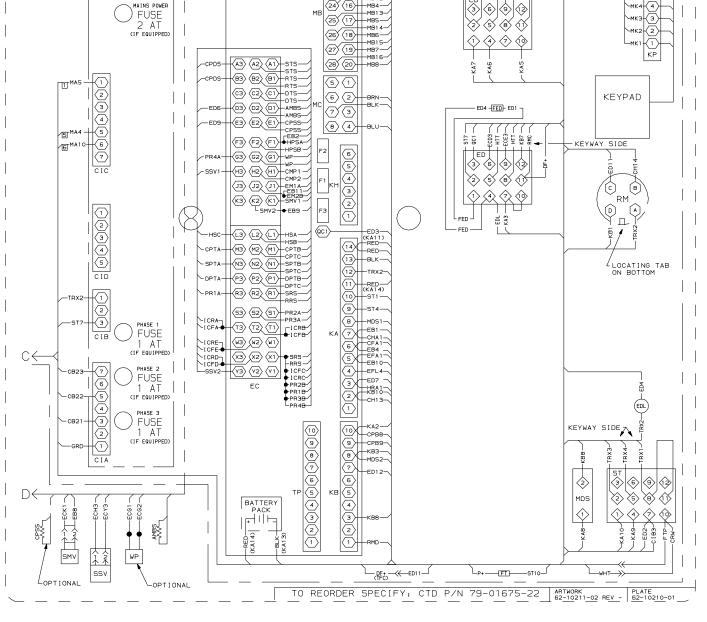


Figure 7-54. Electrical Wiring Diagram - See Model Chart (Sheet 1 of 2)





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COMMUNICATIONS

INTERFACE

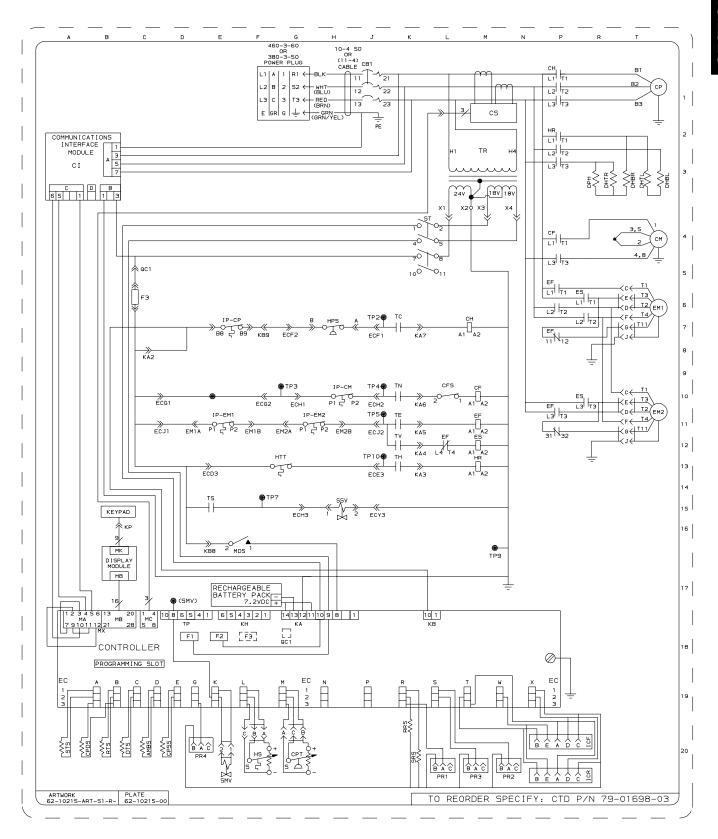
MODULE

Figure 7-54. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

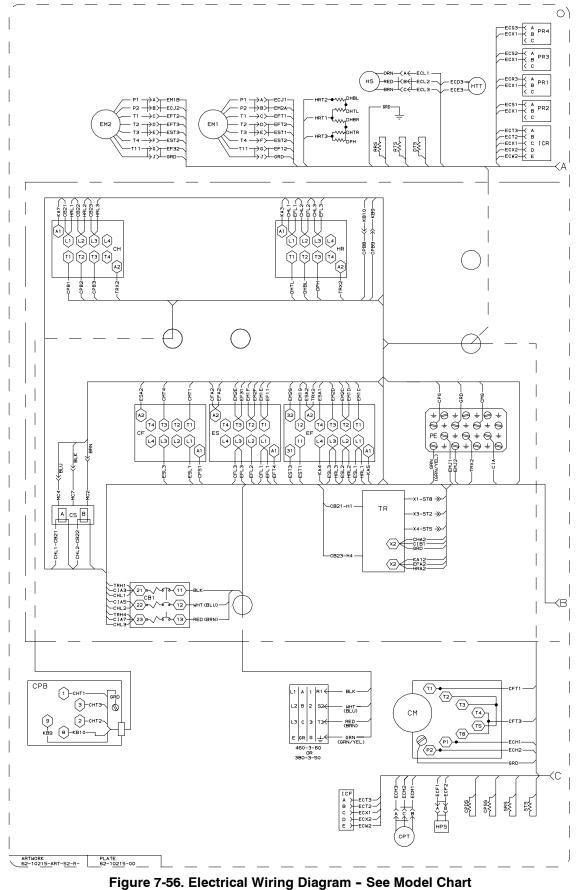
LEGEND

ZONE	SYMBOL		DESCRIPTION
 C20	AMBS ·		AMBIENT SENSOR
J1			CIRCUIT BREAKER 460V
M10,P4			CONDENSER FAN CONTACTOR
L10			CONDENSER FAN SWITCH
M7,P1			COMPRESSOR CONTACTOR
A3			COMMUNICATIONS INTERFACE MODULE
H10,T4			CONDENSER FAN MOTOR
E7,T1			COMPRESSOR MOTOR
B20			COMPRESSOR DISCHARGE SENSOR (TEMP.)
D20			COMPRESSOR SUCTION SENSOR (TEMP.)
G20			CONDENSER PRESSURE TRANSDUCER
M1			CURRENT SENSOR
ТЗ			DEFROST HEATER - BOTTOM LEFT
T3			DEFROST HEATER - BOTTOM RIGHT
T3			DEFROST HEATER - TOP LEFT
R3			DEFROST HEATER - TOP RIGHT
R3			DRAIN PAN HEATER
C20			DEFROST TEMPERATURE SENSOR
L12,M11,P6			EVAPORATOR FAN CONTACTOR (HIGH SPEED)
E11,G11,T6,T11			EVAPORATOR FAN MOTOR
M12,R6			EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18			FUSE
00,010,210			FULL LOAD AMPS
H7			HIGH PRESSURE SWITCH
M13,P2			HEATER CONTACTOR
F20			HUMIDITY SENSOR
G13			HEAT TERMINATION THERMOSTAT
P20			INTERROGATOR CONNECTOR INTERNAL PROTECTOR
E7,E11,G11,H10			KEYPAD CONNECTOR
B16 F16			
			MANUAL DEFROST SWITCH
D20,L20,M20,N20			PROBE RECEPTACLE (USDA OPTION)
K20	RRS	_	RETURN RECORDER SENSOR
B20			RETURN TEMPERATURE SENSOR
E20			SUCTION MODULATION VALVE
K20			SUPPLY RECORDER SENSOR
H15			SUCTION SOLENOID VALVE
K4			START-STOP SWITCH
A20			SUPPLY TEMPERATURE SENSOR
K7			CONTROLLER RELAY (COOLING)
K11			CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
K13			CONTROLLER RELAY (HEATING)
K10		_	CONTROLLER RELAY (CONDENSER FAN)
D17,F15,G10,J7, J10,J11,J13,M16	} TP	—	TEST POINT
МЗ	TR	—	TRANSFORMER
E15	TS	—	CONTROLLER RELAY (SUCTION SOLENOID VALVE)
K12	ΤV	—	CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)

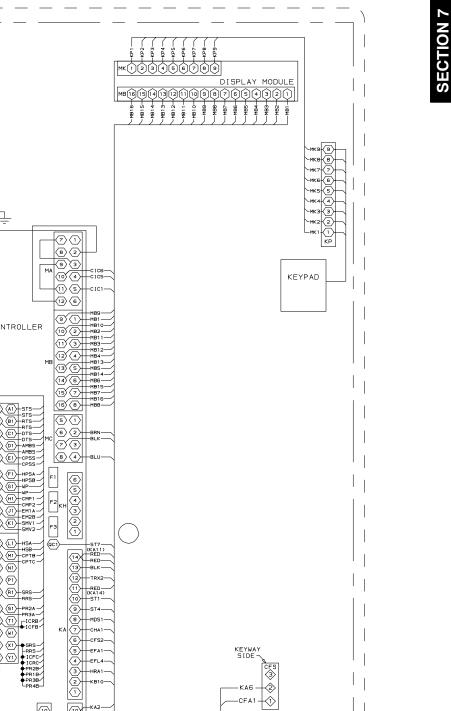
Figure 7-55. Electrical Schematic - See Model Chart (Sheet 1 of 2)

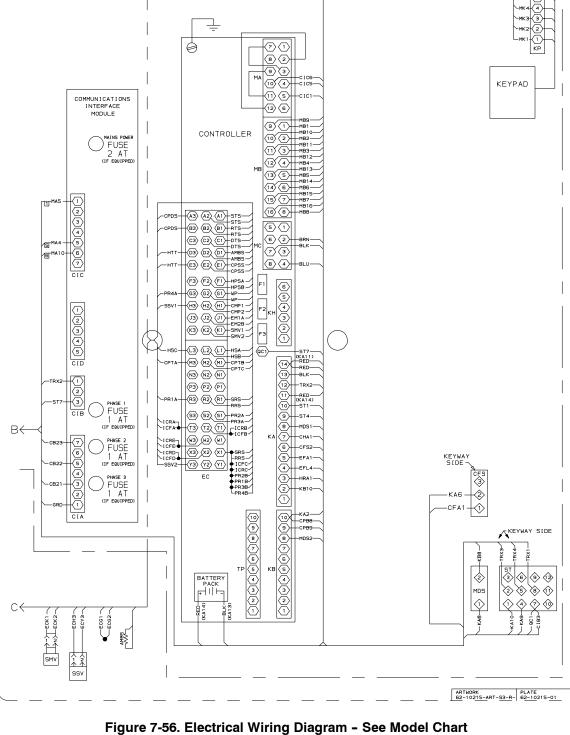






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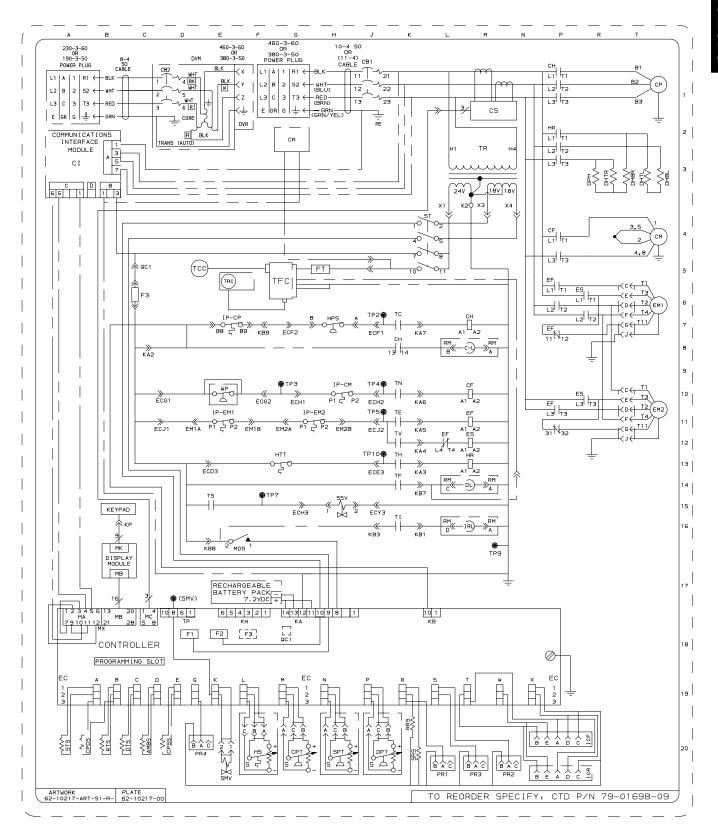
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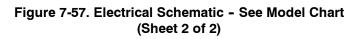
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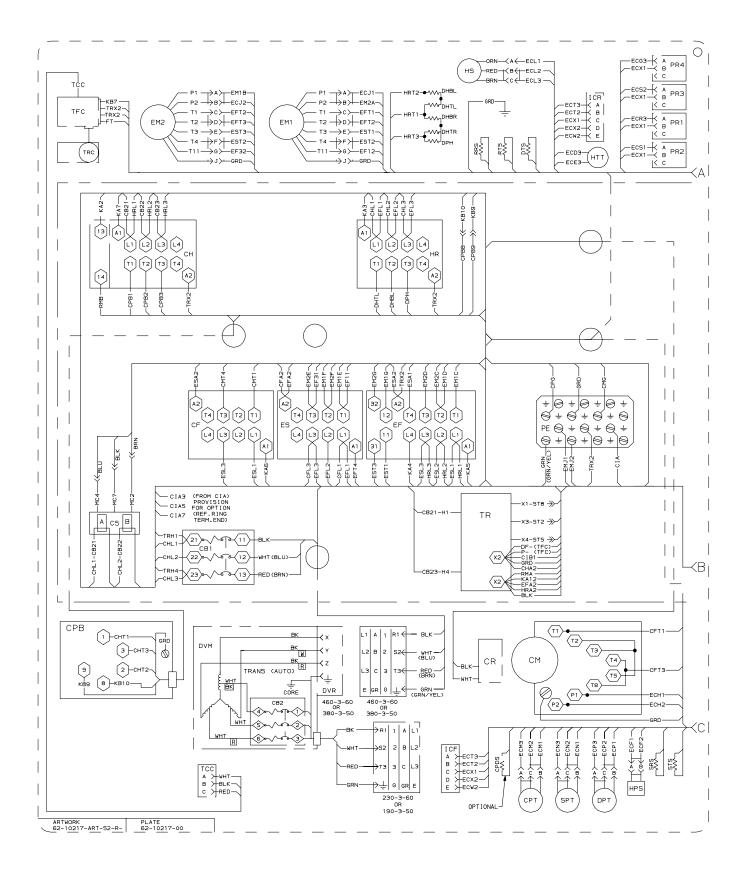
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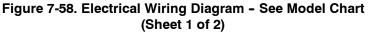
ZONE S	YMBOL		LEGEND DESCRIPTION
C19	AMBS		AMBIENT SENSOR
J1	CB1		CIRCUIT BREAKER 460V
D1	CB2	—	OPTIONAL CIRCUIT BREAKER 230V (DVM OPTION)
			TERMINAL BLOCK WHEN CB2 NOT PRESENT
M9,P4	CF		CONDENSER FAN CONTACTOR
A3	СІ		COMMUNICATIONS INTERFACE MODULE (OPTION)
M7,P1,K8	СН		COMPRESSOR CONTACTOR
M6 H10,T4	C-L CM		COOL LIGHT (OPTION)
E7,T1	CP		CONDENSER FAN MOTOR COMPRESSOR MOTOR
A20	CPDS		COMPRESSOR DISCHARGE SENSOR (TEMP.)
C20	CPSS		COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT		CONDENSER PRESSURE TRANSDUCER
G2	CR	_	CHART RECORDER (OPTION)
M1	CS	—	CURRENT SENSOR
ТЗ	DHBL	—	DEFROST HEATER - BOTTOM LEFT
ТЭ	DHBR	—	DEFROST HEATER - BOTTOM RIGHT
ТЗ	DHTL		DEFROST HEATER - TOP LEFT
RЗ	DHTR		DEFROST HEATER - TOP RIGHT
M15	DL		DEFROST LIGHT (OPTION)
R3	DPH		DRAIN PAN HEATER
J20	DPT		DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20 D1	DTS DVM		DEFROST TEMPERATURE SENSOR DUAL VOLTAGE MODULE (OPTIONAL)
E1	DVR		DUAL VOLTAGE RECEPTACLE (OPTIONAL)
L12,M11,P6	EF		EVAPORATOR FAN CONTACTOR (HIGH SPEED)
G11,H11,T6,T10	EM		EVAPORATOR FAN MOTOR
M12,R6	ES	_	EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18,G5	F	_	FUSE
	FLA	—	FULL LOAD AMPS
H7	HPS	—	HIGH PRESSURE SWITCH
M13,P2	HR	—	HEATER CONTACTOR
F20	HS	—	HUMIDITY SENSOR
F13	HTT		HEAT TERMINATION THERMOSTAT
M20	IC		INTERROGATOR CONNECTOR (OPTION)
E7,F11,H10,H11 M14	IP		INTERNAL PROTECTOR
B16	I RL KP		IN-RANGE LIGHT (OPTION) Keypad connector
E16	MDS		MANUAL DEFROST SWITCH
D20.L20.M20.P20			PROBE RECEPTACLE (USDA OPTION)
L8,L14,L16	RM		REMOTE MONITORING RECEPTACLE (OPTION)
K20	RRS	_	RETURN RECORDER SENSOR (OPTION)
B20	RTS	_	RETURN TEMPERATURE SENSOR
E20	SMV	—	SUCTION MODULATION VALVE
H20	SPT	_	SUCTION PRESSURE TRANSDUCER (OPTION)
K20	SRS		SUPPLY RECORDER SENSOR (OPTION)
H15	SSV		SUCTION SOLENOID VALVE
K4	ST		START-STOP SWITCH
A20	STS		SUPPLY TEMPERATURE SENSOR
K7 D5	ТС ТСС		CONTROLLER RELAY (COOLING) TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)
K8	TD		CONTROLLER RELAY (LOW SPEED COMPRESSOR)
K11	TE		CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
G5	TFC		TRANSFRESH CONTROLLER (OPTION)
К1З	ТН		CONTROLLER RELAY (HEATING)
K16	ТΙ	_	INRANGE RELAY
K14	TF	_	DEFROST RELAY
K10	ΤN	—	CONTROLLER RELAY (CONDENSER FAN)
D17,F15,G10,J7,`	/ I P	_	TEST POINT
J10, J11, J13, M16,	J		
M3	TR		TRANSFORMER
D1 E5,F5	TRANS		TRANSFORMER AUTO 230/460 (OPTION) TRANSFRESH REAR CONNECTOR (OPTION)
E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
K9	TT		CONTROLLER RELAY (COMPRESSOR SHORTING)
K12	τv		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E10	WP		WATER PRESSURE SWITCH (OPTION)

Figure 7-57. Electrical Schematic - See Model Chart (Sheet 1 of 2)









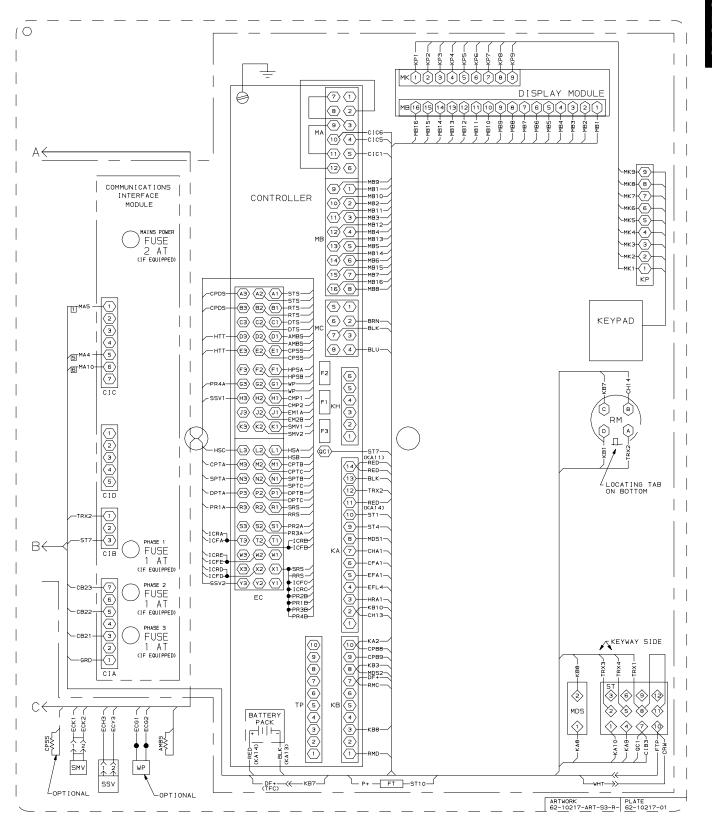
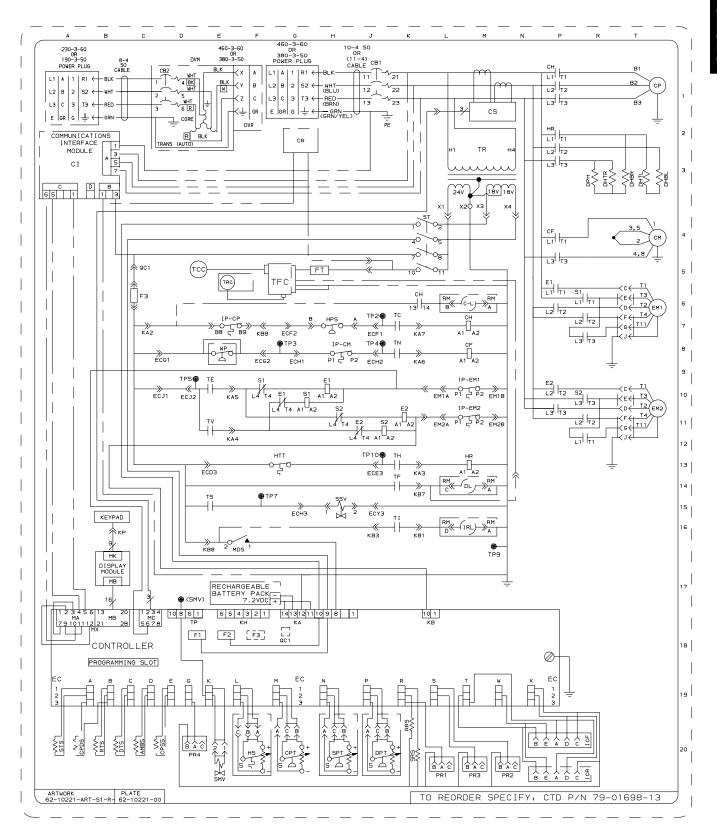
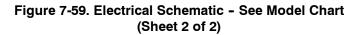


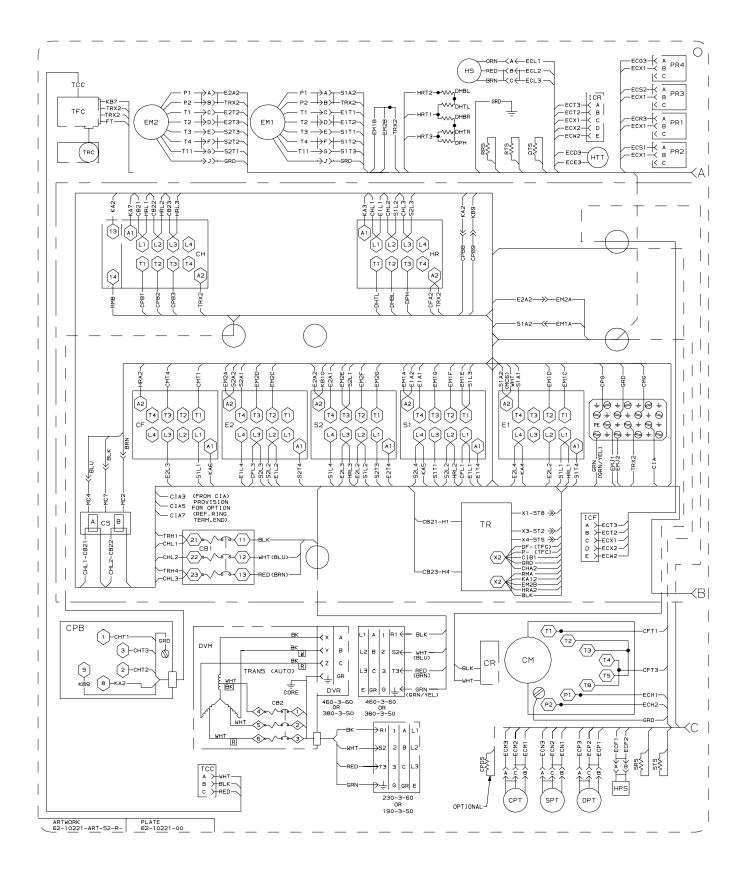
Figure 7-58. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

			LEGEND
ZONE	SYMBOL	_	DISCRIPTION
C19	AMBS	—	AMBIENT SENSOR
J1 D1	CB1 CB2	_	CIRCUIT BREAKER 460V CIRCUIT BREAKER 230V (AUTO TRANS OPTION)
M8,P4	CE2 CF	_	CONDENSER FAN CONTACTOR
AG	CI	_	COMMUNICATIONS INTERFACE MODULE (OPTION)
M7,P1,K6	СН	—	COMPRESSOR CONTACTOR
M6	C-L	—	COOL LIGHT (OPTION)
H8,T4 E7.T1	CM CP	_	CONDENSER FAN MOTOR COMPRESSOR MOTOR
A20	CPDS	_	COMPRESSOR DISCHARGE SENSOR (TEMP.)
C20	CPSS	—	COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT	—	CONDENSER PRESSURE TRANSDUCER
G2	CR CS	_	CHART RECORDER (OPTIONAL) CURRENT SENSOR
М1 ТЗ	DHBL	_	DEFROST HEATER - BOTTOM LEFT
ТЗ	DHBR	_	DEFROST HEATER - BOTTOM RIGHT
ТЗ	DHTL	—	DEFROST HEATER - TOP LEFT
R3	DHTR	—	DEFROST HEATER - TOP RIGHT
M15 R3	DL DPH	_	DEFROST LIGHT (OPTION) DRAIN PAN HEATER
к5 J20	DPH	_	DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DTS	_	DEFROST TEMPERATURE SENSOR
D1	DVM		DUAL VOLTAGE MODULE (OPTIONAL)
	DVR	_	DUAL VOLTAGE RECEPTACLE (OPTIONAL)
G10,H10,J11,K11 P6,P9	'}E	-	EVAPORATOR FAN CONTACTOR (HIGH SPEED)
M10,M11,T6,T10	EM	—	EVAPORATOR FAN MOTOR
C6,D18,E18,G5	F	—	FUSE
H7	FLA HPS	_	FULL LOAD AMPS HIGH PRESSURE SWITCH
M13,P2	HR	_	HEATER CONTACTOR
F20	HS	_	HUMIDITY SENSOR
F13	HTT	_	HEAT TERMINATION THERMOSTAT
M20	IC IP	_	INTERROGATOR CONNECTOR (OPTION)
E7,H8,M10,M11 M14	IRL	_	INTERNAL PROTECTOR IN-RANGE LIGHT (OPTION)
B16	KP	_	KEYPAD CONNECTOR
E16	MDS	—	MANUAL DEFROST SWITCH
D20,L20,M20,P20	PR	—	PROBE RECEPTACLE (USDA OPTION)
L6,L14,L16 K20	RM RRS	_	REMOTE MONITORING RECEPTACLE (OPTION) RETURN RECORDER SENSOR
B20	RTS	_	RETURN TEMPERATURE SENSOR
F10,G10,H11,J11	'}s	_	EVAPORATOR FAN CONTACTOR (LOW SPEED)
R6,R9	J		
E20 H20	SMV SPT	_	SUCTION MODULATION VALVE SUCTION PRESSURE TRANSDUCER (OPTION)
K20	SRS	_	SUPPLY RECORDER SENSOR
H15	SSV	—	SUCTION SOLENOID VALVE
K4	ST	—	START-STOP SWITCH
A20 K7	STS TC	_	SUPPLY TEMPERATURE SENSOR CONTROLLER RELAY (COOLING)
D5	TCC	_	TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)
К8	TD	_	CONTROLLER RELAY (LOW SPEED COMPRESSOR)
E10	TE	—	CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
G5	TFC	—	TRANSFRESH CONTROLLER (OPTION)
K13 K16	ТН ТІ	_	CONTROLLER RELAY (HEATING) INRANGE RELAY
K14	TF	_	DEFROST RELAY
K8	TN	—	CONTROLLER RELAY (CONDENSER FAN)
D9,D17,F15,G10, J7,J10,J13,M16	} TP	—	TEST POINT
M3	TR	_	TRANSFORMER
D1	TRANS	_	TRANSFORMER AUTO 230/460 (OPTION)
E5,F5	TRC	-	TRANSFRESH REAR CONNECTOR (OPTION)
E15 K9	TS TT		CONTROLLER RELAY (SUCTION SOLENOID VALVE) CONTROLLER RELAY (COMPRESSOR SHORTING)
E11	ΤV	_	CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E8	WP	_	WATER PRESSURE SWITCH (OPTION)

Figure 7-59. Electrical Schematic - See Model Chart (Sheet 1 of 2)









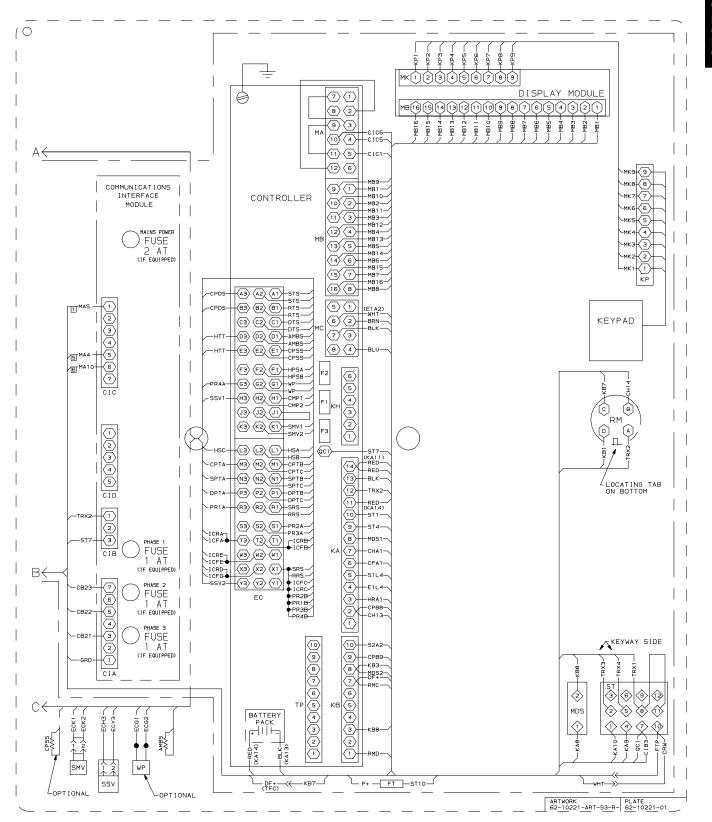


Figure 7-60. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

ZONE S	YMBOL		LEGEND DESCRIPTION
<u>20112</u> <u>2</u> C18		_	
J1	CB1		AMBIENT SENSOR CIRCUIT BREAKER 460V
M9,P4	CF		CONDENSER FAN CONTACTOR
L9	CFS		CONDENSER FAN SWITCH
M7, P1	СН		COMPRESSOR CONTACTOR
A3	CI		COMMUNICATIONS INTERFACE MODULE (OPTION)
H9,T4	СМ		CONDENSER FAN MOTOR
E7,T1	CP		COMPRESSOR MOTOR
G18 M1	CPT		CONDENSER PRESSURE TRANSDUCER
	CS		CURRENT SENSOR
T3			DEFROST HEATER - BOTTOM LEFT
T3			DEFROST HEATER - BOTTOM RIGHT
T3			DEFROST HEATER - TOP LEFT
R3			DEFROST HEATER - TOP RIGHT
R3	DPH		DRAIN PAN HEATER
C18			DEFROST TEMPERATURE SENSOR
	EF		EVAPORATOR FAN CONTACTOR (HIGH SPEED)
			EVAPORATOR FAN MOTOR
			EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D16,E16	F		FUSE
	FLA		FULL LOAD AMPS
M8	НМ		HOUR METER
Н7	HPS	_	HIGH PRESSURE SWITCH
M12,P2	HR		HEATER CONTACTOR
F18	HS	—	HUMIDITY SENSOR
G12	HTT	—	HEAT TERMINATION THERMOSTAT
P18	ΙC		INTERROGATOR CONNECTOR (OPTION)
E7,E10,H9,H10	ΙP		INTERNAL PROTECTOR
B13	KP		KEYPAD CONNECTOR
E14	MDS	_	MANUAL DEFROST SWITCH
D18,L18,M18,P18	PR		PROBE RECEPTACLE (USDA OPTION)
K18	RRS		RETURN RECORDER SENSOR (OPTION)
B18	RTS		RETURN TEMPERATURE SENSOR
E18	SMV		SUCTION MODULATION VALVE
K18	SRS	_	SUPPLY RECORDER SENSOR (OPTION)
H13	SSV	—	SUCTION SOLENOID VALVE
K4	ST		START-STOP SWITCH
A18	STS	—	SUPPLY TEMPERATURE SENSOR
K7	ТС		CONTROLLER RELAY (COOLING)
K10	ΤE		CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
K12	ТН		CONTROLLER RELAY (HEATING)
К9	ΤN		CONTROLLER RELAY (CONDENSER FAN)
D15,F13,G9,J7 J9,J10,J12,H14	TP	_	TEST POINT
MЗ	TR	—	TRANSFORMER
E13	TS	—	CONTROLLER RELAY (SUCTION SOLENOID VALVE)
K11	ΤV	—	CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)

Figure 7-61. Electrical Schematic - See Model Chart (Sheet 1 of 2)

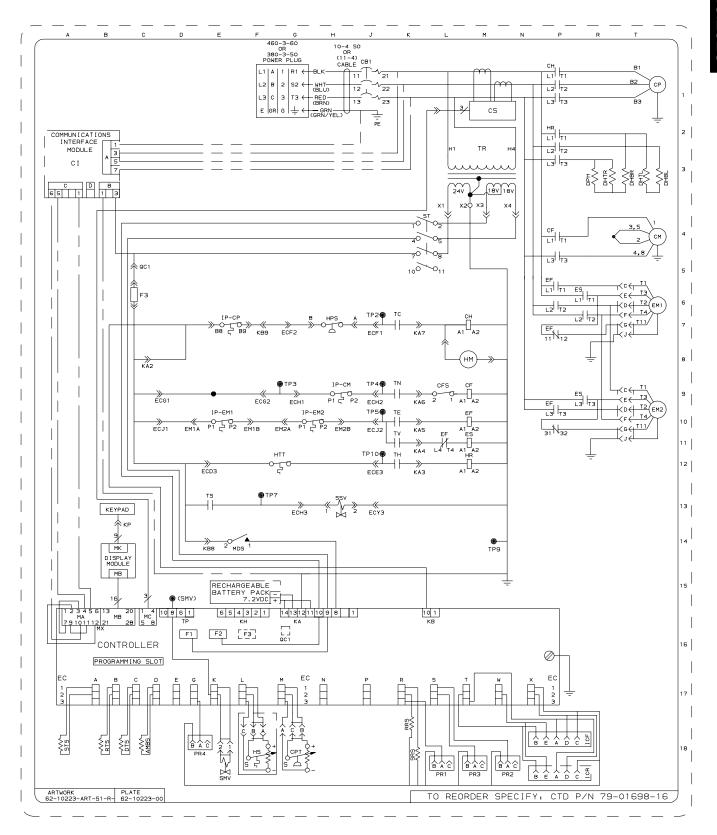
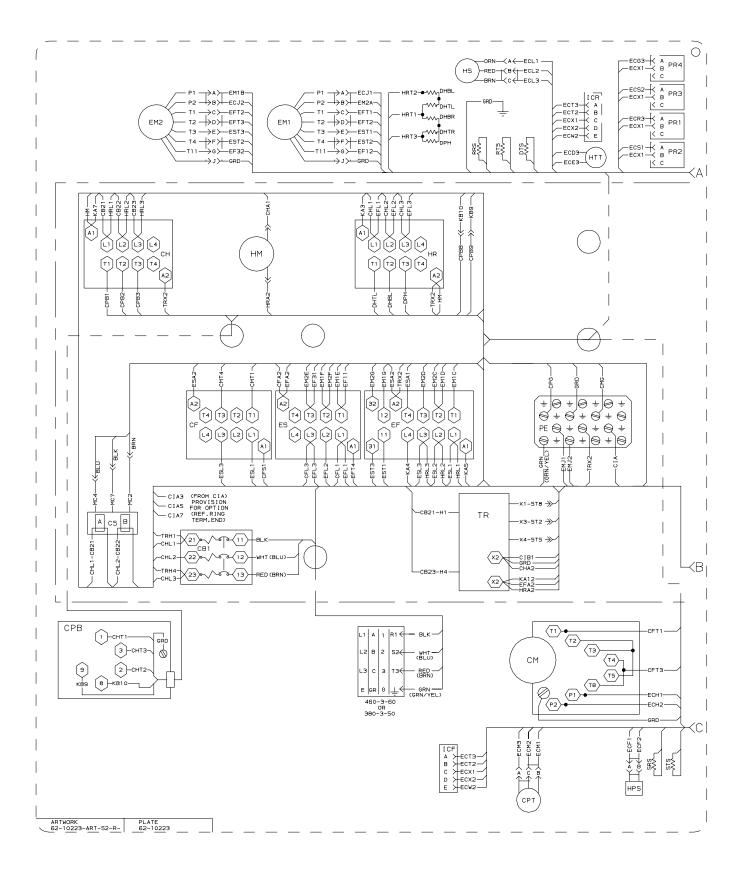


Figure 7-61. Electrical Schematic - See Model Chart (Sheet 2 of 2)

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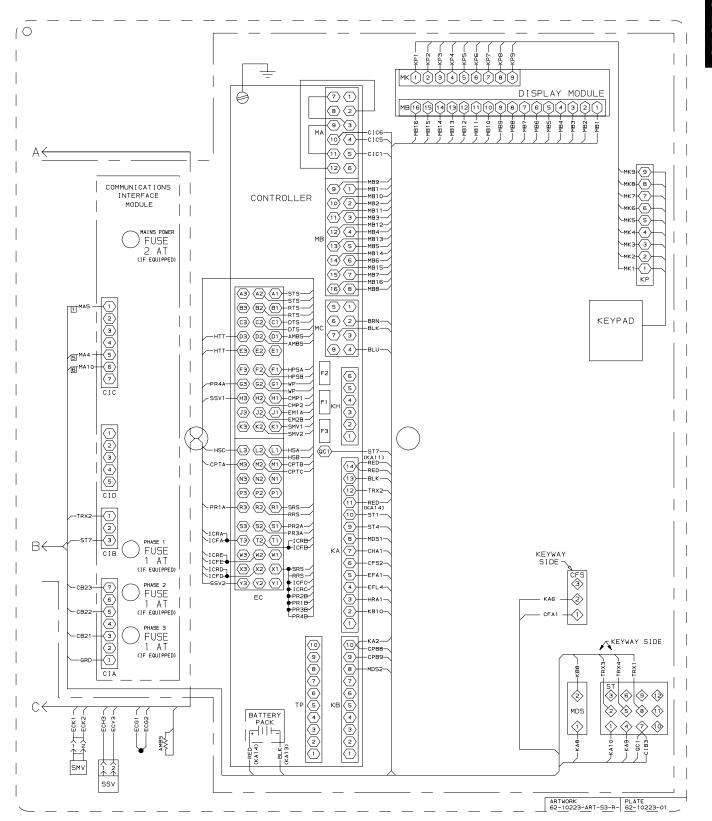


Figure 7-62. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

LEGEND

ZONE	SYMBOL		DESCRIPTION
C20			AMBIENT SENSOR
 J1			CIRCUIT BREAKER 460V
M10,P4			CONDENSER FAN CONTACTOR
M7,P1			COMPRESSOR CONTACTOR
AG			COMMUNICATIONS INTERFACE MODULE
H10,T4			CONDENSER FAN MOTOR
E7,T1			COMPRESSOR MOTOR
B20			COMPRESSOR DISCHARGE SENSOR (TEMP.)
D20			COMPRESSOR SUCTION SENSOR (TEMP.)
G20			CONDENSER PRESSURE TRANSDUCER
м1			CURRENT SENSOR
ТЗ			DEFROST HEATER - BOTTOM LEFT
ТЗ			DEFROST HEATER - BOTTOM RIGHT
ТЗ			DEFROST HEATER - TOP LEFT
R3			DEFROST HEATER - TOP RIGHT
R3			DRAIN PAN HEATER
C20			DEFROST TEMPERATURE SENSOR
L12,M11,P6			EVAPORATOR FAN CONTACTOR (HIGH SPEED)
E11,G11,T6,T10			EVAPORATOR FAN MOTOR
M12,R6			EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18	F -		FUSE
			FULL LOAD AMPS
Н7	HPS -		HIGH PRESSURE SWITCH
M13,P2	HR -		HEATER CONTACTOR
F20	HS -		HUMIDITY SENSOR
G13	нтт -		HEAT TERMINATION THERMOSTAT
P20	IC -		INTERROGATOR CONNECTOR
E7,E11,G11,H10	IP -		INTERNAL PROTECTOR
B16	KP -		KEYPAD CONNECTOR
F16	MDS -		MANUAL DEFROST SWITCH
D20,L20,M20,N20	PR -		PROBE RECEPTACLE (USDA OPTION)
K20	RRS -		RETURN RECORDER SENSOR
B20			RETURN TEMPERATURE SENSOR
E20	SMV	_	SUCTION MODULATION VALVE
K20	SRS -	_	SUPPLY RECORDER SENSOR
H15	SSV ·	_	SUCTION SOLENOID VALVE
K4	ST ·		START-STOP SWITCH
A20	STS -		SUPPLY TEMPERATURE SENSOR
К7	TC ·		CONTROLLER RELAY (COOLING)
K11	TE -	_	CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
K13	тн -	_	CONTROLLER RELAY (HEATING)
K10	TN -		CONTROLLER RELAY (CONDENSER FAN)
D17,F15,G10,J7, J10,J11,J13,M16	TP ·	_	TEST POINT
M3		_	TRANSFORMER
E15			CONTROLLER RELAY (SUCTION SOLENOID VALVE)
K12			CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)

Figure 7-63. Electrical Schematic - See Model Chart

(Sheet 1 of 2)

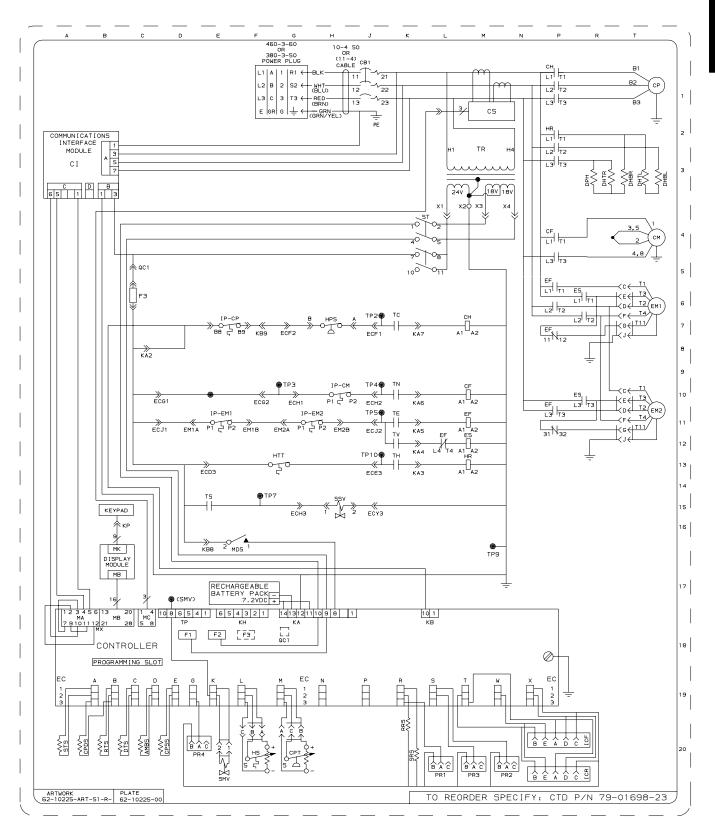
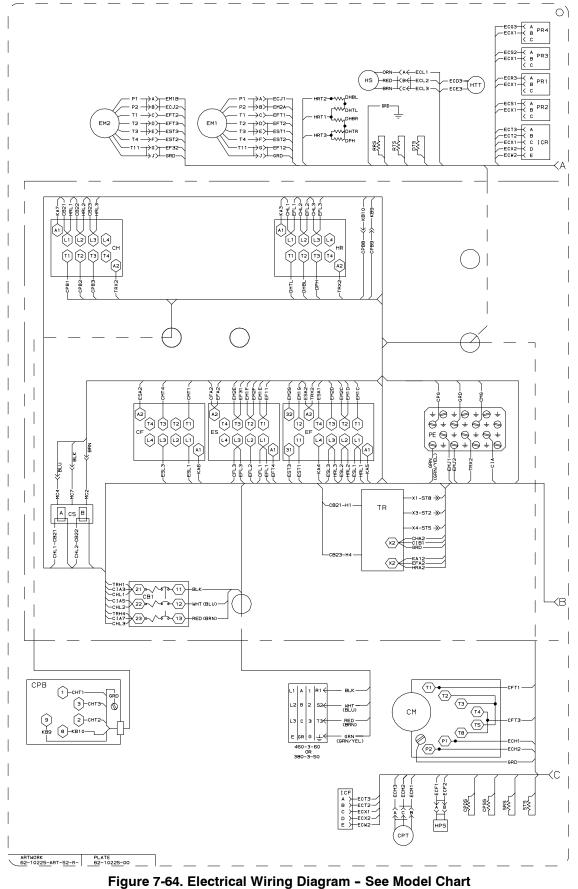


Figure 7-63. Electrical Schematic - See Model Chart (Sheet 2 of 2)

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(Sheet 1 of 2)

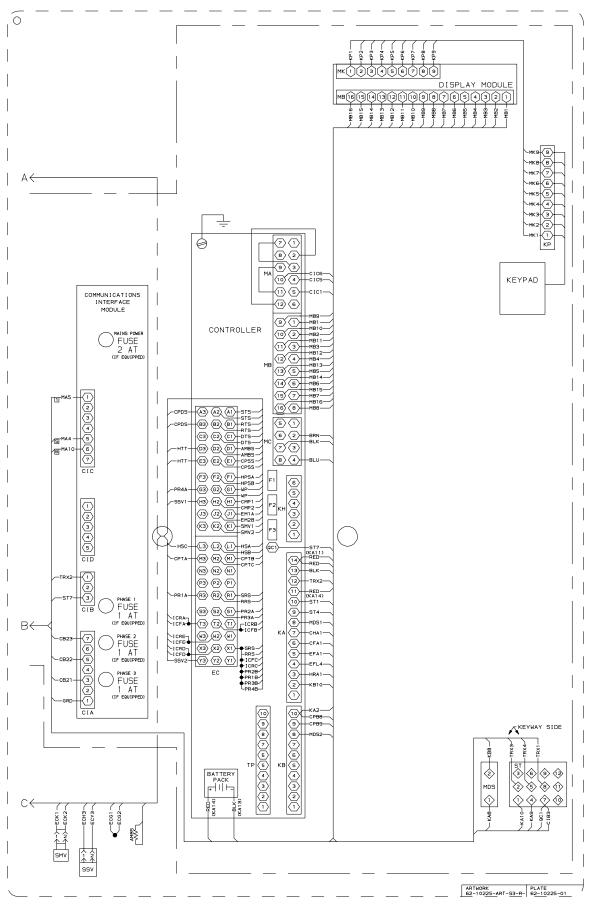
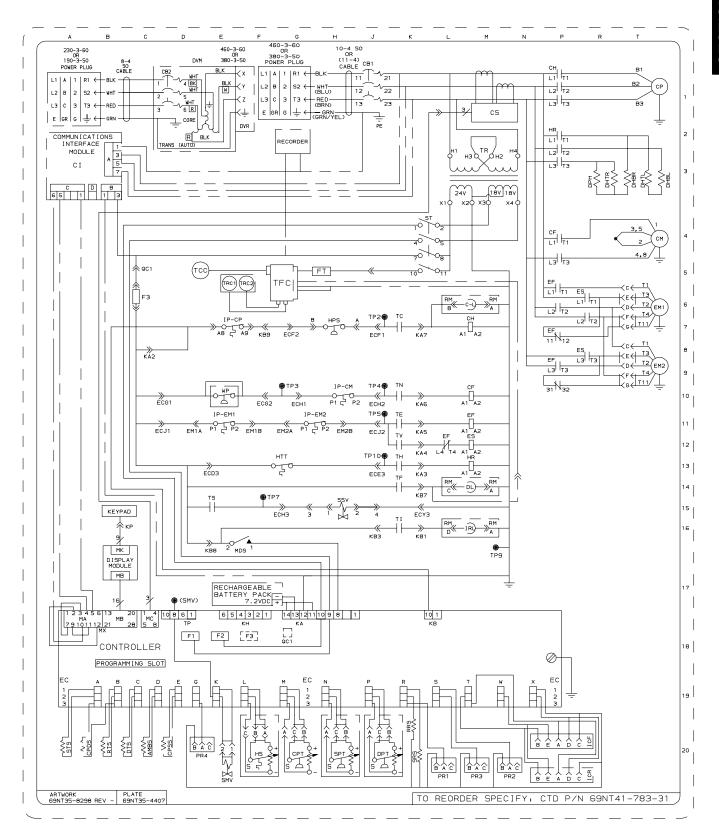


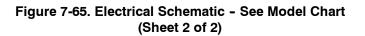
Figure 7-64. Electrical Wiring Diagram – See Model Chart (Sheet 2 of 2)

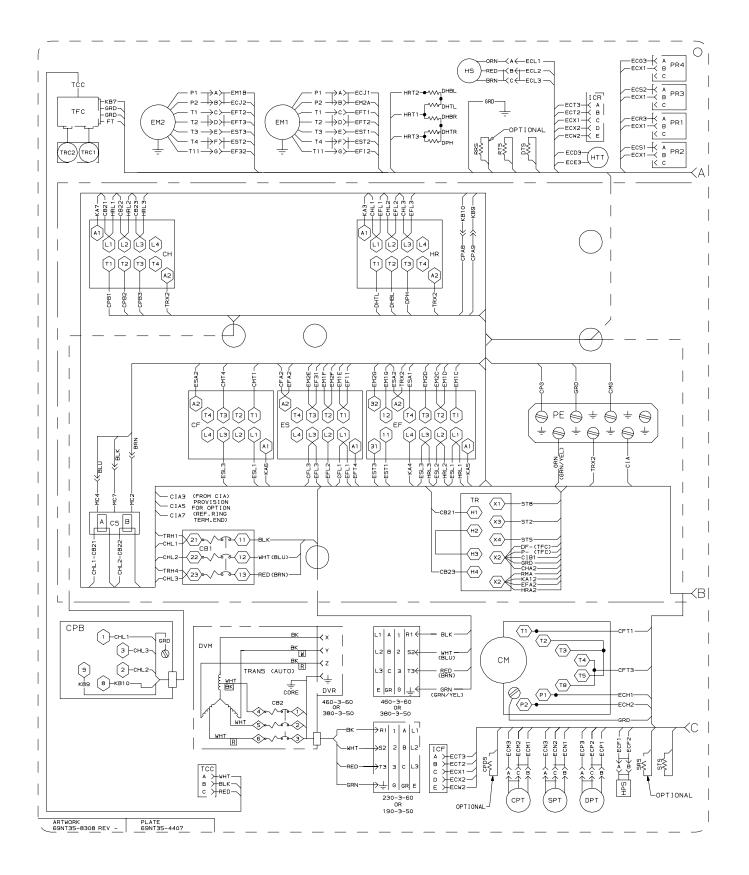
LEGEND

			LEGEND
ZONE S	YMBOL		DESCRIPTION
		_	
C19			AMBIENT SENSOR
J1	CB1	_	CIRCUIT BREAKER 460V
D1	CB2	_	CIRCUIT BREAKER 230V (AUTO TRANS OPTION)
M9,P6	CF	—	CONDENSER FAN CONTACTOR
AЗ	CI	—	COMMUNICATIONS INTERFACE MODULE (OPTION)
M7,P1	СН	—	COMPRESSOR CONTACTOR (HIGH SPEED)
Мб	C-L	_	COOL LIGHT (OPTION)
L9,M8,P3	CL		COMPRESSOR CONTACTOR (LOW SPEED)
H10,T6	СМ		CONDENSER FAN MOTOR
E7,T1	CP		COMPRESSOR MOTOR
A20	CPDS		COMPRESSOR DISCHARGE SENSOR (TEMP.)
C20	CPSS		COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT		
			CONDENSER PRESSURE TRANSDUCER
M1	CS		CURRENT SENSOR
Τ4	DHBL		DEFROST HEATER - BOTTOM LEFT
Τ4	DHBR		DEFROST HEATER - BOTTOM RIGHT
Τ4	DHTL		DEFROST HEATER - TOP LEFT
R4	DHTR	_	DEFROST HEATER - TOP RIGHT
M15	DL	—	DEFROST LIGHT (OPTION)
R4	DPH	—	DRAIN PAN HEATER
J20	DPT	—	DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DTS	_	DEFROST TEMPERATURE SENSOR
D1	DVM		DUAL VOLTAGE MODULE (OPTIONAL)
E1	DVR	_	DUAL VOLTAGE RECEPTACLE (OPTIONAL)
L12,M11,P8	EF	_	EVAPORATOR FAN CONTACTOR (HIGH SPEED)
G11,H11,T9,T11	EM		EVAPORATOR FAN MOTOR
M12,R9	ES		EVAPORATOR FAN CONTACTOR (LOW SPEED)
	F		FUSE
C6,D18,E18,G5			
	FLA		FULL LOAD AMPS
H7	HPS		HIGH PRESSURE SWITCH
M13,P4	HR	_	HEATER CONTACTOR
F20	HS		HUMIDITY SENSOR
F13	HTT	—	HEAT TERMINATION THERMOSTAT
M20	IC	—	INTERROGATOR CONNECTOR (OPTION)
E7,F11,H10,H11	ΙP	—	INTERNAL PROTECTOR
M14	IRL	—	IN-RANGE LIGHT (OPTION)
B16	KP	_	KEYPAD CONNECTOR
E16	MDS	_	MANUAL DEFROST SWITCH
D20.L20.M20.P20	PR		PROBE RECEPTACLE (USDA OPTION)
L6,L14,L16	RM		REMOTE MONITORING RECEPTACLE (OPTION)
K20	RRS		RETURN RECORDER SENSOR (OPTION)
B20	RTS		RETURN TEMPERATURE SENSOR
L9,R2	SC		COMPRESSOR CONTACTOR (SHORTING)
E20	SMV		SUCTION MODULATION VALVE
H20	SPT		SUCTION PRESSURE TRANSDUCER (OPTION)
K20	SRS		SUPPLY RECORDER SENSOR (OPTION)
H15	SSV		SUCTION SOLENOID VALVE
K4	ST	—	START-STOP SWITCH
A20	STS	—	SUPPLY TEMPERATURE SENSOR
К7	TC	—	CONTROLLER RELAY (COOLING)
D5	TCC	—	TRANSFRESH COMMUNICATIONS CONNECTOR (OPTION)
K8	ТD	_	CONTROLLER RELAY (LOW SPEED COMPRESSOR)
K11	ΤE	_	CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
G5	TFC	_	TRANSFRESH CONTROLLER (OPTION)
К13	ТН		CONTROLLER RELAY (HEATING)
К16	ΤI		INRANGE RELAY
K14	TF		DEFROST RELAY
K14 K10	TN	_	
D17,F15,G10,J7,`	า	-	SOM HOLLEN NELAT (CONDENJER TAN)
J10, J11, J13, M16,		—	TEST POINT
M3	TR	_	TRANSFORMER
D1			TRANSFORMER AUTO 230/460 (OPTION)
E5,F5	TRC		TRANSFRESH REAR CONNECTOR (OPTION)
E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
К9	ΤT	—	CONTROLLER RELAY (COMPRESSOR SHORTING)
K12	ΤV	—	CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E10	WP	—	WATER PRESSURE SWITCH (OPTION)

Figure 7-65. Electrical Schematic - See Model Chart (Sheet 1 of 2)









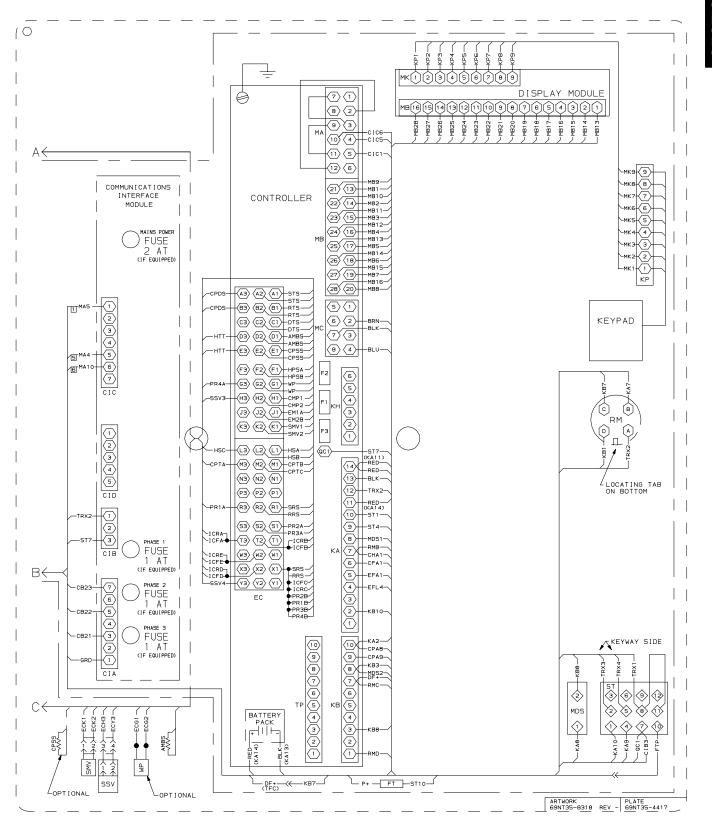
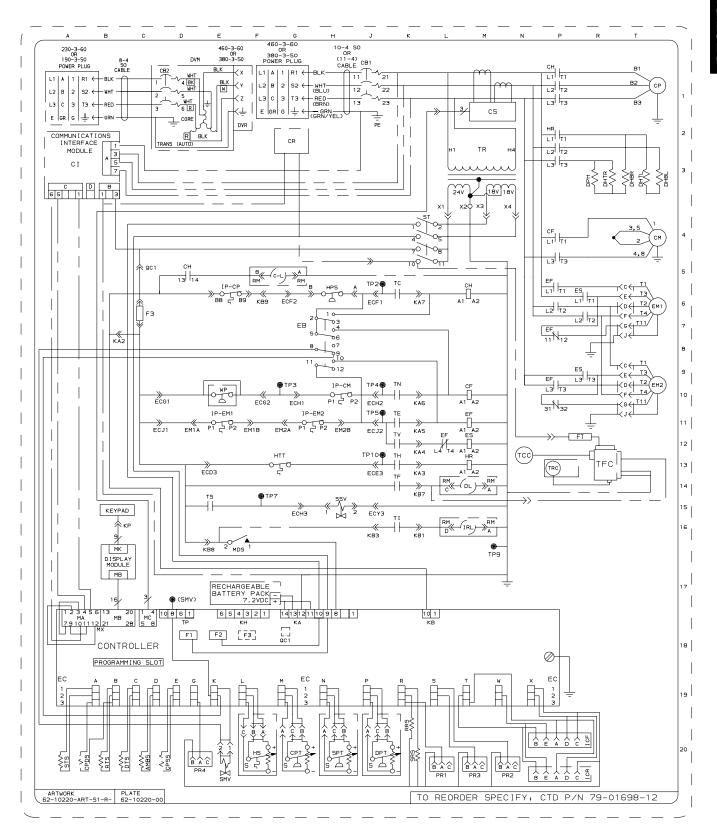
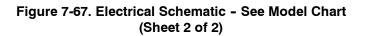


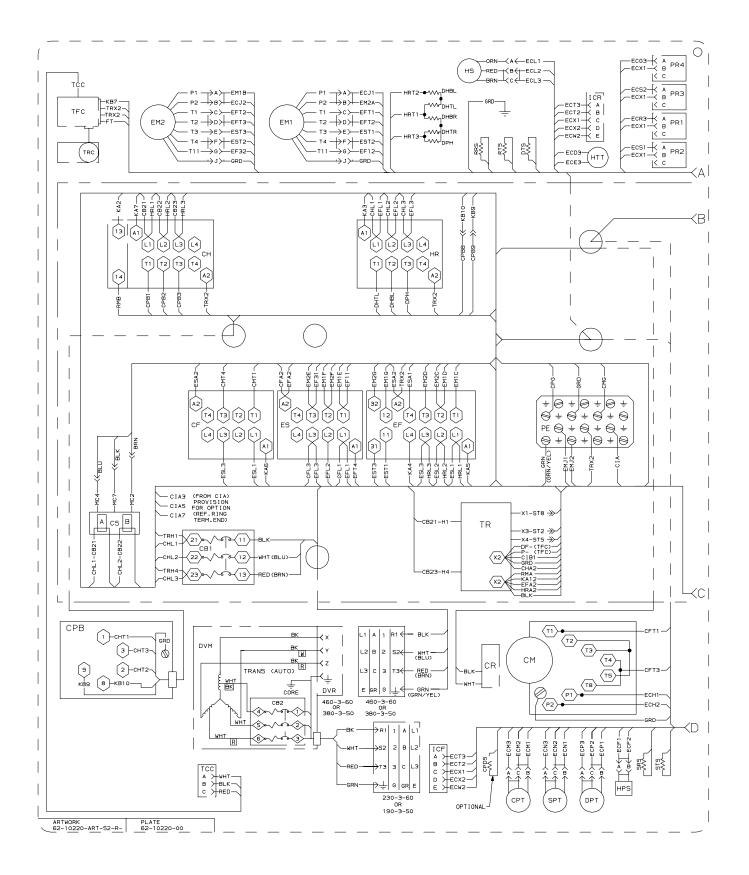
Figure 7-66. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)

ZONE S	YMBOL		LEGEND DESCRIPTION
C19	AMBS	_	AMBIENT SENSOR
J1	CB1	—	
D1	CB2	—	OPTIONAL CIRCUIT BREAKER 230V (DVM OPTION)
			TERMINAL BLOCK WHEN CB2 NOT PRESENT
M9,P4	CF	—	CONDENSER FAN CONTACTOR
AЗ	CI	_	COMMUNICATIONS INTERFACE MODULE (OPTION)
M5,P1,D5	СН	—	COMPRESSOR CONTACTOR
MG	C-L	_	COOL LIGHT (OPTION)
H10,T4	СМ	_	CONDENSER FAN MOTOR
E7,T1	СР		COMPRESSOR MOTOR
A20			COMPRESSOR DISCHARGE SENSOR (TEMP.)
C20	CPSS		COMPRESSOR SUCTION SENSOR (TEMP.)
G20	CPT		CONDENSER PRESSURE TRANSDUCER
G2	CR		CHART RECORDER (OPTION)
M1	CS		CURRENT SENSOR
T3	DHBL		DEFROST HEATER - BOTTOM LEFT
T3	DHBR		DEFROST HEATER - BOTTOM RIGHT
T3			DEFROST HEATER - TOP LEFT
R3 M15	DHTR DL		DEFROST HEATER - TOP RIGHT
R3	DPH		DEFROST LIGHT (OPTION) DRAIN PAN HEATER
J20	DPH		DISCHARGE PRESSURE TRANSDUCER (OPTION)
C20	DEI		DISCHARGE PRESSURE TRANSDUCER (OPTION) DEFROST TEMPERATURE SENSOR
D1	DVM		DUAL VOLTAGE MODULE (OPTIONAL)
E1	DVR		DUAL VOLTAGE RECEPTACLE (OPTIONAL)
H7	EB		EMERGENCY (CONTROLLER) BYPASS SWITCH
L12,M11,P6	EF		EVAPORATOR FAN CONTACTOR (HIGH SPEED)
G11,H11,T6,T10	EM	_	EVAPORATOR FAN MOTOR
M12,R6	ES	_	EVAPORATOR FAN CONTACTOR (LOW SPEED)
C6,D18,E18,R11	F	_	FUSE
	FLA	_	FULL LOAD AMPS
H5	HPS	—	HIGH PRESSURE SWITCH
M13,P2	HR	_	HEATER CONTACTOR
F20	HS	—	HUMIDITY SENSOR (OPTION)
F13	НТТ		HEAT TERMINATION THERMOSTAT
M20	IC	_	INTERROGATOR CONNECTOR (OPTION)
E5,F11,H10,H11	ΙP	—	INTERNAL PROTECTOR
M14	IRL	—	IN-RANGE LIGHT (OPTION)
B16	KP	—	KEYPAD CONNECTOR
E16	MDS	—	MANUAL DEFROST SWITCH
D20,L20,M20,P20	PR	_	PROBE RECEPTACLE (USDA OPTION)
G5,L14,L16	RM	—	REMOTE MONITORING RECEPTACLE (OPTION)
K20	RRS	—	RETURN RECORDER SENSOR
B20	RTS	—	RETURN TEMPERATURE SENSOR
E20	SMV	—	SUCTION MODULATION VALVE
H20	SPT		SUCTION PRESSURE TRANSDUCER (OPTION)
K20	SRS		SUPPLY RECORDER SENSOR
H15	SSV		SUCTION SOLENOID VALVE
K4	ST		START-STOP SWITCH
A20	STS		SUPPLY TEMPERATURE SENSOR
K5	ТС		CONTROLLER RELAY (COOLING)
K8	TD		CONTROLLER RELAY (LOW SPEED COMPRESSOR)
K11	TE		CONTROLLER RELAY (HIGH SPEED EVAPORATOR FANS)
R13	TFC		TRANSFRESH CONTROLLER (OPTION)
K13	тн		CONTROLLER RELAY (HEATING)
K16	TI		INRANGE RELAY
K14 K10	TF TN		DEFROST RELAY (CONDENSED FAN)
		_	CONTROLLER RELAY (CONDENSER FAN)
D17,F15,G10,J7, J10,J11,J13,M16		—	TEST POINT
мз	TR	_	TRANSFORMER
D1			TRANSFORMER AUTO 230/460 (OPTION)
E5,F5	TRC		TRANSFRESH REAR CONNECTOR (OPTION)
E15	TS		CONTROLLER RELAY (SUCTION SOLENOID VALVE)
К9	тт		CONTROLLER RELAY (COMPRESSOR SHORTING)
K12	ΤV		CONTROLLER RELAY (LOW SPEED EVAPORATOR FANS)
E10	WP		WATER PRESSURE SWITCH (OPTION)

Figure 7-67. Electrical Schematic - See Model Chart (Sheet 1 of 2)









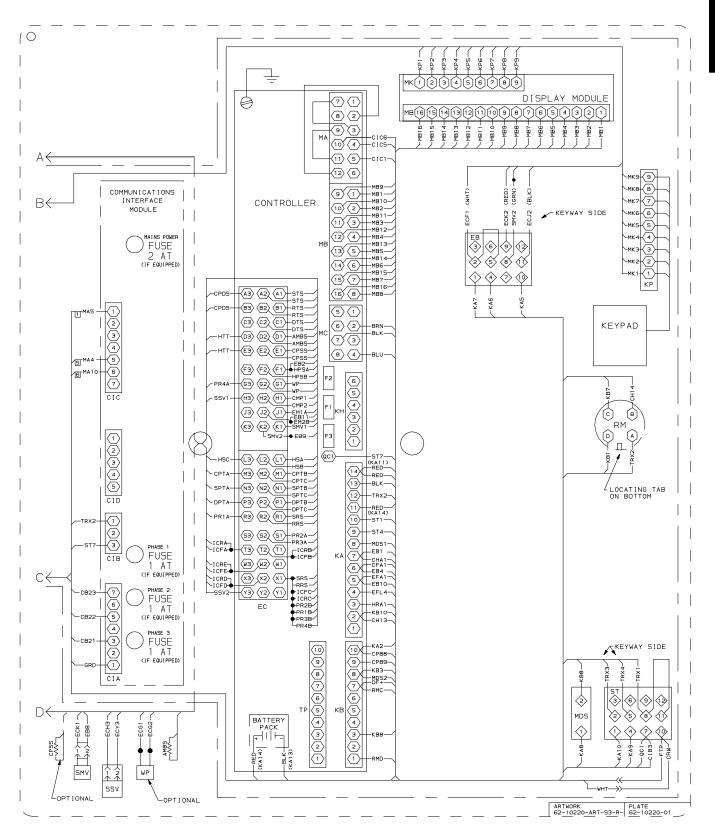


Figure 7-68. Electrical Wiring Diagram - See Model Chart (Sheet 2 of 2)