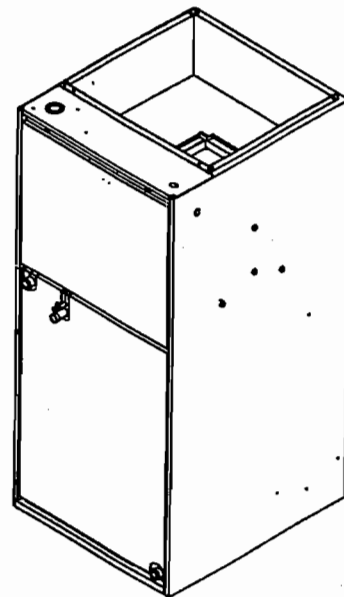
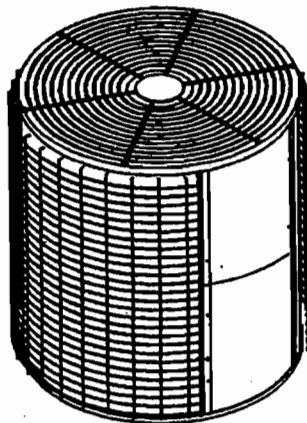
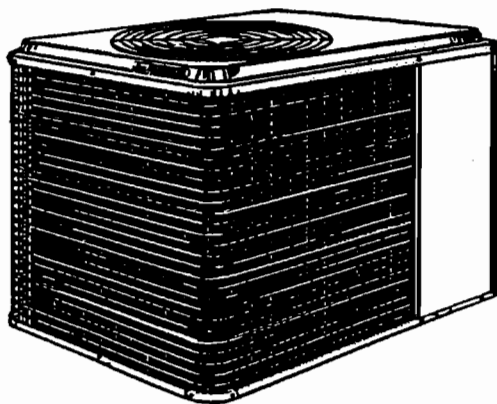


Amana

ZRCF, SRCF, ARCF, VRCF, MODEL REMOTE CONDENSING UNITS



SERVICE INSTRUCTIONS

AMANA REFRIGERATION, INC., AMANA, IOWA 52204

MANUFACTURING NUMBERS
COVERED IN THIS MANUAL

SEE MODEL AND MANUFACTURING NUMBERS ON PAGE 3.

Amana
A Raytheon Company

INDEX

PRODUCT IDENTIFICATION	4 - 6
SPECIFICATIONS	
ZRCF Models	7
SRCF Models	8 - 10
ARCF Models	11 - 14
VRCF Models	15 - 17
Air Handlers	18 - 22
Evaporator Coils	23 - 24
PRODUCT DESIGN	25
SYSTEM OPERATION	
Refrigeration Cycle	26
Sequence of Operation	27
Electric Heaters	28
BLOWER PERFORMANCE DATA	29 - 30
"A" COIL PRESSURE DROP DATA	31 - 32
COOLING PERFORMANCE DATA	
ZRCF Models	33 - 38
SRCF Models	39 - 54
ARCF Models	55 - 64
VRCF Models	65 - 71
Performance Test	72
SCHEDULED MAINTENANCE	73
SERVICING	74 - 95
WIRING DIAGRAMS & SCHEMATICS	
Condensing Units	96 - 112
Blower Coils & Cabinets	113 - 119
Electric Heater Kits	120 - 130

This manual, RA610001, replaces R0204058, R0204059, R0204060, & R0204061.

IMPORTANT INFORMATION

Great pride and workmanship go into every product to provide our Customers with the highest possible quality. We realize, however, that during its lifetime the product may require service. The information contained in this manual is intended for use by a qualified service technician who is familiar with the safety procedures required in the repair and who is equipped with the proper tools and testing instruments.

WARNING

REPAIRS COVERED IN THIS MANUAL THAT ARE MADE BY UNQUALIFIED PERSONS CAN RESULT IN HAZARDS DUE TO IMPROPER ASSEMBLY OR ADJUSTMENTS SUBJECTING INEXPERIENCED PERSONS MAKING SUCH REPAIRS TO THE RISK OF INJURY OR ELECTRICAL SHOCK WHICH CAN BE SERIOUS OR EVEN FATAL.

IMPORTANT NOTE TO CONSUMER

CAUTION

IF YOU PERFORM SERVICE ON YOUR OWN PRODUCT, YOU MUST ASSUME RESPONSIBILITY FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE WHICH MAY RESULT. AMANA WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SERVICE AND/OR SERVICE PROCEDURES.

In order to locate an authorized service agency, please consult your telephone book or the dealer from whom you purchased this product. If you require further assistance, please contact:

CUSTOMER RELATIONS DEPT.
AMANA, IOWA 52204

OR 1-319-622-5511
CALL and ask for the
Customer Relations Department

Users of the products outside of the United States and Canada should contact:

EXPORT CUSTOMER RELATIONS DEPARTMENT
AMANA REFRIGERATION, INC.
AMANA, IOWA 52204, USA
TELEX: 4330076 AMANA
CABLE: "AMANA", AMANA, IOWA, USA

RECOGNIZE SAFETY SYMBOLS, WORDS AND LABELS

DANGER - Immediate hazards which WILL result in severe personal injury or death.

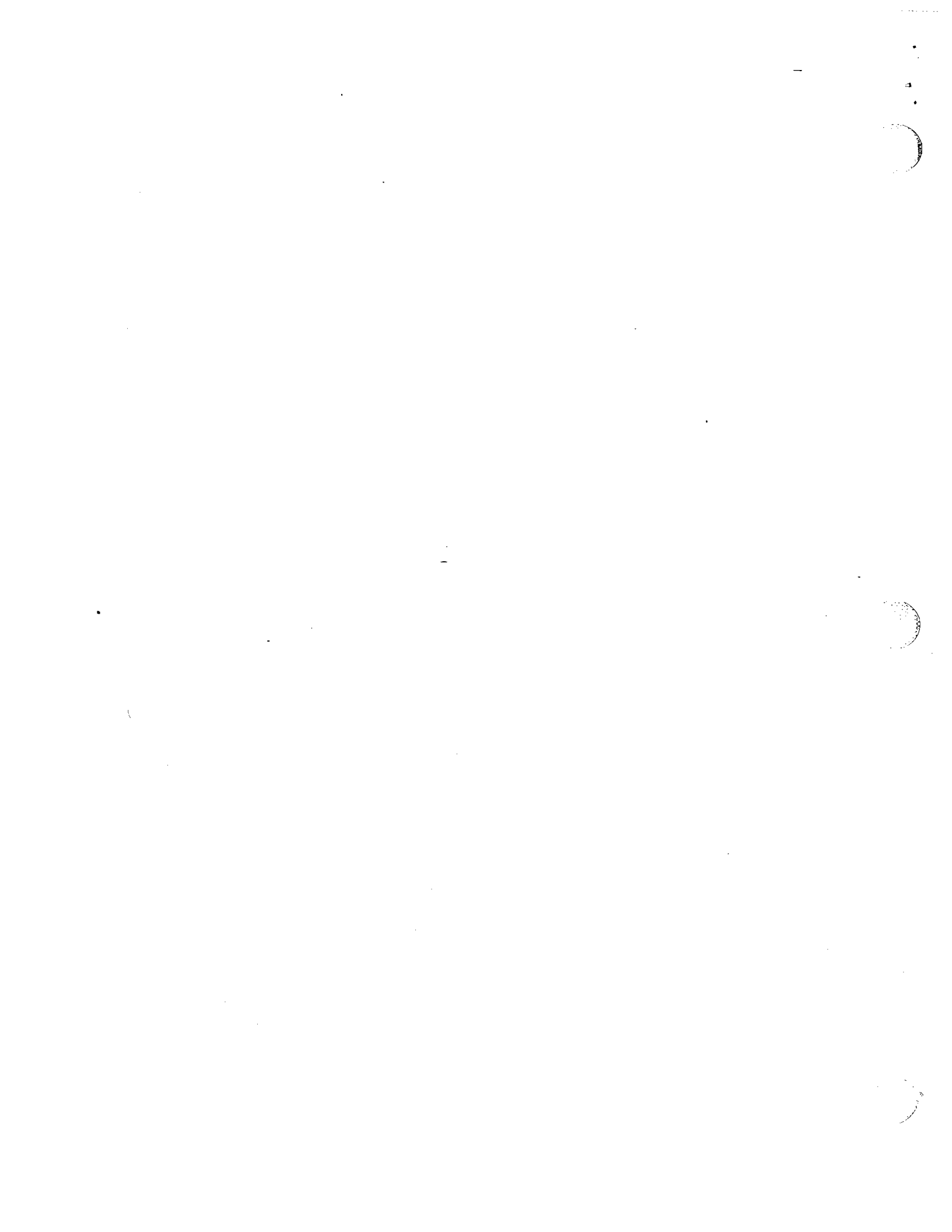


WARNING - Hazards or unsafe practices which COULD result in severe personal injury or death.



CAUTION - Hazards or unsafe practices which COULD result in minor personal injury or product or property damage.





IMPORTANT INFORMATION



SYSTEM CONTAMINANTS, IMPROPER SERVICE PROCEDURE AND/OR PHYSICAL ABUSE AFFECTING HERMETIC COMPRESSOR ELECTRICAL TERMINALS MAY CAUSE DANGEROUS SYSTEM VENTING.

System contaminants, improper Service Procedure and/or physical abuse affecting hermetic compressor electrical terminals may cause dangerous system venting.

The successful development of hermetically sealed refrigeration compressors has completely sealed the compressor's moving parts and electric motor inside a common housing, minimizing refrigerant leaks and the hazards sometimes associated with moving belts, pulleys, or couplings.

Fundamental to the design of hermetic compressors is a method whereby electrical current is transmitted to the compressor motor through terminal conductors which pass through the compressor housing wall. These terminals are sealed in a dielectric material which insulates them from the housing and maintains the pressure tight integrity of the hermetic compressor. The terminals and their dielectric embedment are strongly constructed, but are vulnerable to careless compressor installation or maintenance procedures and equally vulnerable to internal electrical short circuits caused by excessive system contaminants.

In either of these instances, an electrical short between the terminal and the compressor housing may result in the loss of integrity between the terminal and its dielectric embedment. This loss may cause the terminals to be expelled, thereby venting the vaporous and liquid contents of the compressor housing and system.

A venting compressor terminal normally presents no danger to anyone providing the terminal protective cover is properly in place.

If, however, the terminal protective cover is not properly in place, a venting terminal may discharge a combination of

- (a) hot lubricating oil and refrigerant
- (b) flammable mixture (if system is contaminated with air)

in a stream of spray which may be dangerous to anyone in the vicinity. Death or serious bodily injury could occur.

Under no circumstances is a hermetic compressor to be electrically energized and/or operated without having the terminal protective cover properly in place.

See Service Section S-17 for proper servicing.

PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. At which time engineering and manufacturing changes take place where interchangeability of components are affected, the manufacturing number will change.

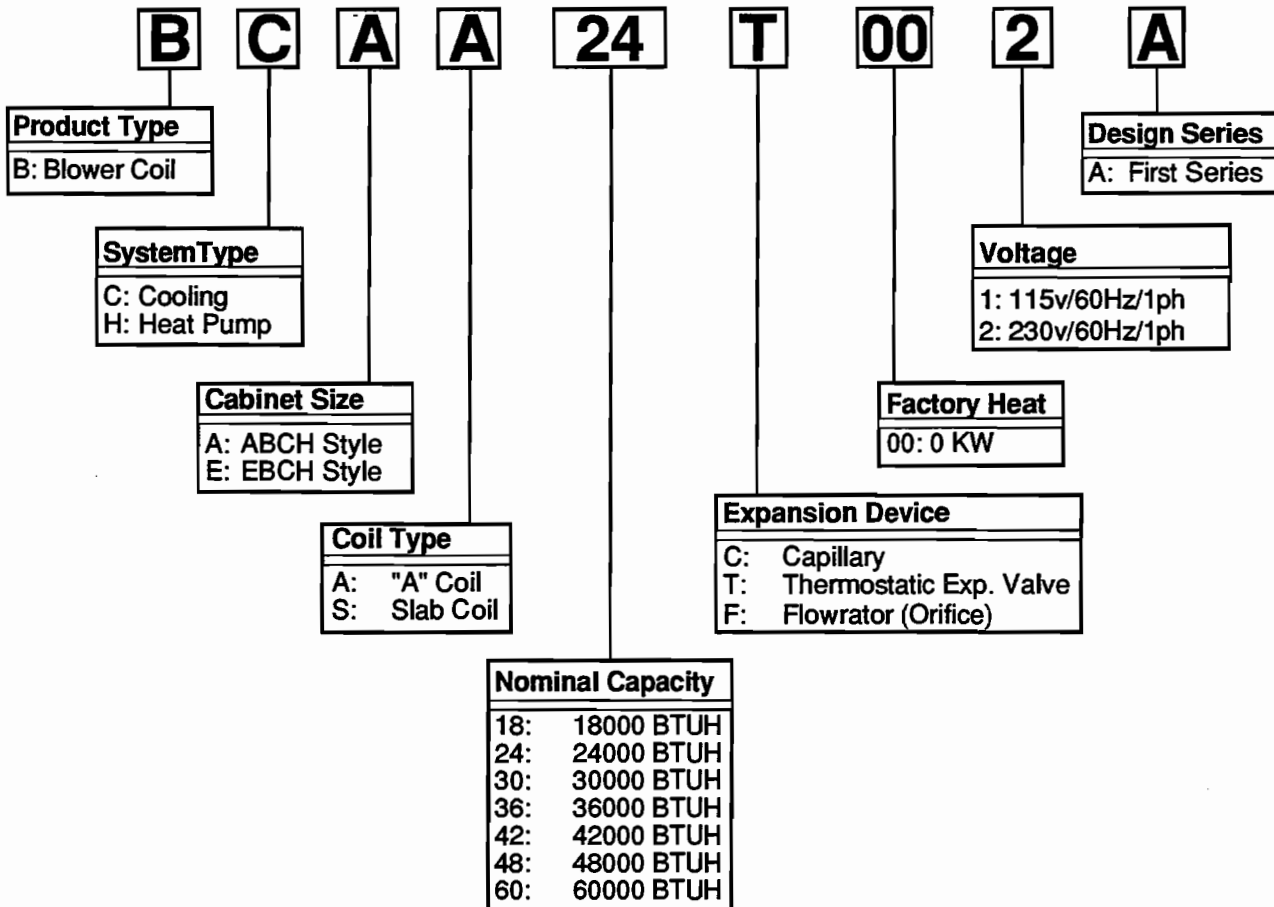
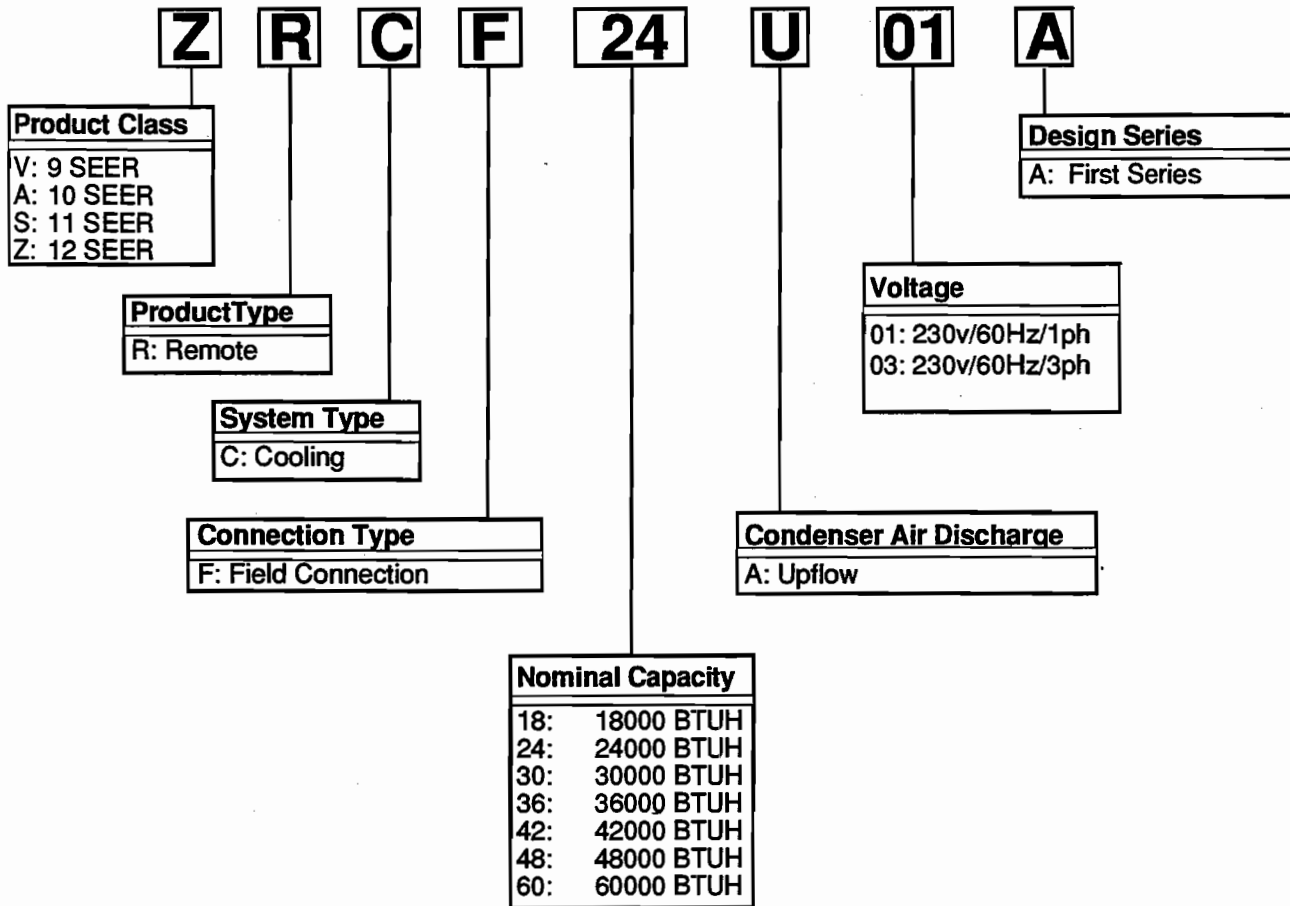
It is very important to use the model and manufacturing numbers at all times when requesting service or parts information.

<u>MODEL</u>	<u>M/N</u>	<u>MODEL</u>	<u>M/N</u>	<u>MODEL</u>	<u>M/N</u>
ARCF18U01A	P6932701C	ARCF36U01BC	P9917931C	ARCF48U01E	P9885219C
ARCF18U01A	P9917905C	ARCF36U01D	P9885204C	ARCF48U03E	P9885220C
ARCF18U01BC	P9917928C	ARCF36U01E	P9885221C	ARCF48U04D	P9885222C
ARCF18U01D	P9885201C	ARCF42U01A	P9917901C	ARCF60U01A	P9917904C
ARCF24U01A	P6932702C	ARCF42U01A	P9917917C	ARCF60U01B	P9917919C
ARCF24U01A	P9917906C	ARCF42U01BC	P9917932C	ARCF60U03B	P9917921C
ARCF24U01BC	P9917929C	ARCF42U01D	P9885205C	ARCF60U01C	P9917941C
ARCF24U01D	P9885202C	ARCF48U01A	P9917902C	ARCF60U03C	P9917942C
ARCF30U01A	P6932703C	ARCF48U01A	P9917918C	ARCF60U01CC	P9917943C
ARCF30U01A	P9917907C	ARCF48U01BC	P9917933C	ARCF60U03CC	P9917944C
ARCF30U01BC	P9917930C	ARCF48U03B	P9917920C	ARCF60U01D	P9885208C
ARCF30U01D	P9885203C	ARCF48U03BC	P9917934C	ARCF60U03D	P9885209C
ARCF36U01A	P6932704C	ARCF48U01D	P9885206C	ARCF60U01E	P1128001C
ARCF36U01A	P9917908C	ARCF48U03D	P9885207C	ARCF60U04D	P9885223C
SRCF18U01A	P6917202C	SRCF36U01B	P6904407C	SRCF48U01D	P1100005C
SRCF18U01A	P6917204C	SRCF36U01D	P1100003C	SRCF48U03D	P1100006C
SRCF24U01A	P6917203C	SRCF42U01A	P6904402C	SRCF48U01E	P1100011C
SRCF24U01A	P6917205C	SRCF42U01B	P6904408C	SRCF48U03E	P1100012C
SRCF24U01C	P6917207C	SRCF42U01D	P1100004C	SRCF60U01A	P6904405C
SRCF24U01D	P1100001C	SRCF42U01E	P1100010C	SRCF60U03A	P6904406C
SRCF30U01A	P6917201C	SRCF42U01F	P1100013C	SRCF60U01B	P6904411C
SRCF30U01B	P6917206C	SRCF48U01A	P6904403C	SRCF60U03B	P6904412C
SRCF30U01C	P6917208C	SRCF48U03A	P6904404C	SRCF60U01D	P1100007C
SRCF30U01D	P1100002C	SRCF48U01B	P6904409C	SRCF60U03D	P1100008C
SRCF36U01A	P6904401C	SRCF48U03B	P6904410C		
VRCF18U01A	P6921002C	VRCF30U01A	P6921004C	VRCF48U01A	P9917946C
VRCF18U01A	P9917909C	VRCF30U01A	P9917911C	VRCF48U03A	P9917947C
VRCF18U01C	P9885210C	VRCF30U01C	P9885212C	VRCF48U01B	P9885215C
VRCF18U01D	P1106801C	VRCF30U01D	P1106803C	VRCF48U03B	P9885216C
VRCF24U01A	P6921003C	VRCF36U01A	P9917912C	VRCF60U01A	P9917948C
VRCF24U01A	P9917910C	VRCF36U01C	P9885213C	VRCF60U03A	P9917949C
VRCF24U01C	P9885211C	VRCF36U01D	P1106804C	VRCF60U01B	P9885217C
VRCF24U01D	P1106802C	VRCF42U01A	P9917945C	VRCF60U03B	P9885218C
		VRCF42U01B	P9885214C		
ZRCF24U01D	P1104301C	ZRCF36U01D	P1104303C	ZRCF48U01A	P1163001C
ZRCF30U01D	P1104302C	ZRCF36U01E	P1104306C	ZRCF60U01A	P1163002C
		ZRCF42U01D	P1104304C		
AHK05A	P1135301C	BHK01A	P1101601C	BHK01C	P1101701C
AHK07A	P1135302C	BHK02A	P1101602C	BHK02C	P1101702C
AHK10A	P1135303C	BHK03A	P1101603C	BHK03C	P1101703C
AHK15A	P1135304C	BHK04A	P1101604C	BHK04C	P1101704C
AHK20A	P1135305C	BHK05A	P1101605C	BHK05C	P1101705C
		BHK06A	P1101606C	BHK06C	P1101706C

PRODUCT IDENTIFICATION

<u>MODEL</u>	<u>M/N</u>	<u>MODEL</u>	<u>M/N</u>	<u>MODEL</u>	<u>M/N</u>
EBCU2410MD	P6752111C	EBCU4810MD	P6866501C		
EBCU3610MD	P6752112C	EBCU6010MD	P6866502C		
EBCC2400MA	P6752105C	EBCC2400MBM	P9846201C	EBCC4200MBM	P9999504C
EBCC2400MA	P6752113C	EBCC2400MDM	P9846204C	EBCC4200MDM	P9999507C
EBCC3600MA	P6752106C	EBCC3000MBM	P9846202C	EBCC4800MBM	P9999505C
EBCC3600MA	P6752114C	EBCC3000MDM	P9846205C	EBCC4800MDM	P9999508C
EBCC4800MA	P6752107C	EBCC3600MBM	P9846203C	EBCC6000MBM	P9999506C
EBCC6000MA	P6752108C	EBCC3600MDM	P9846206C	EBCC6000MDM	P9999509C
BCAA18C002A	P1102001C	BCAA24T001A	P1102008C	BCEA24T001A	P9846207C
BCAA18C002B	P1135101C	BCAA30T001A	P1102009C	BCEA30T001A	P9846208C
BCAA24C002A	P1102002C	BCAA36T001A	P1102010C	BCEA36T001A	P9846209C
BCAA24C002B	P1135102C				
BCAA30C002A	P1102003C	BCAA24T002A	P1102005C	BCEA42T002A	P1101507C
BCAA30C002B	P1135103C	BCAA30T002A	P1102006C	BCEA42T002B	P1135001C
BCAA36C002A	P1102004C	BCAA36T002A	P1102007C	BCEA48T002A	P1101508C
BCAA36C002B	P1135104C			BCEA48T002B	P1135002C
				BCEA60T002A	P1101509C
				BCEA60T002B	P1135003C
ACFC18AOVA	P6932801C	ACFC30AOVA	P6932803C	ACFC42AOVA	P9918001C
ACFC18AOVB	P9968001C	ACFC30AOVB	P9968003C	ACFC42AOVD	P9918004C
ACFC18AOVD	P9968009C	ACFC30AOVD	P9968011C	ACFC48AOVA	P9918002C
ACFC24AOVA	P6932802C	ACFC36AOVA	P6932804C	ACFC48AOVD	P9918005C
ACFC24AOVB	P9968002C	ACFC36AOVB	P9968004C	ACFC60AOVA	P9918003C
ACFC24AOVD	P9968010C	ACFC36AOVD	P9968012C	ACFC60AOVD	P9918006C
VCFC18AOVA	P9968013C	VCFC30AOVA	P9968015C	VCFC42AOVA	P9918007C
VCFC18AOVB	P1108901C	VCFC30AOVB	P1108903C	VCFC48AOVA	P9918008C
VCFC24AOVA	P9968014C	VCFC36AOVA	P9968016C	VCFC60AOVA	P9918009C
VCFC24AOVB	P1108902C	VCFC36AOVB	P1108904C		
SCFC18AOVA	P6917102C	SCFC42AOVA	P6904302C	SCFC42AUMA	P6944901C
SCFC18AOVB	P6917105C	SCFC42AOVB	P6904306C	SCFC42AUMB	P6944904C
SCFC24AOVA	P6917103C	SCFC42AOVD	P6904310C	SCFC42AUMD	P6944907C
SCFC24AOVB	P6917106C	SCFC48AOVA	P6904303C	SCFC48AUMA	P6944902C
SCFC24AOVD	P6917107C	SCFC48AOVB	P6904307C	SCFC48AUMB	P6944905C
SCFC30AOVA	P6917101C	SCFC48AOVD	P6904311C	SCFC48AUMD	P6944908C
SCFC30AOVB	P6917104C	SCFC48AOVE	P6904313C	SCFC60AUMA	P6944903C
SCFC30AOVD	P6917108C	SCFC48AOVF	P6904314C	SCFC60AUMB	P6944906C
SCFC36AOVA	P6904301C	SCFC60AOVA	P6904304C	SCFC60AUMD	P6944909C
SCFC36AOVB	P6904305C	SCFC60AOVB	P6904308C		
SCFC36AOVD	P6904309C	SCFC60AOVD	P6904312C		
ACFC18HOHA	P6859811C	ACFC30HOHA	P9969109C	VCFC18HOHB	P9969105C
ACFC18HOHB	P9969101C	ACFC30HOHA	P6859812C	VCFC24HOHB	P9969106C
ACFC24HOHA	P9969112C	ACFC30HOHB	P9969103C	VCFC30HOHB	P9969107C
ACFC24HOHB	P9969102C	ACFC36HOHA	P6859817C	VCFC36HOHB	P9969108C
ACFC24HOHA	P6859816C	ACFC36HOHA	P9969110C		
		ACFC36HOHB	P9969104C		
SCFC18HOHA	P6859813C	SCFC30HOHD	P1100902C	SCFC48HOHA	P6859808C
SCFC18HOHB	P9920001C	SCFC36HOHA	P6859806C	SCFC48HOHB	P9920006C
SCFC18HOHC	P9920008C	SCFC36HOHB	P9920004C	SCFC48HOHC	P9920013C
SCFC24HOHA	P6859814C	SCFC36HOHC	P9920011C	SCFC48HOHD	P1100905C
SCFC24HOHB	P9920002C	SCFC36HOHD	P1100903C	SCFC60HOHA	P6859809C
SCFC24HOHC	P9920009C	SCFC36HOHE	P1100907C	SCFC60HOHB	P9920007C
SCFC24HOHD	P1100901C	SCFC42HOHA	P6859807C	SCFC60HOHC	P9920014C
SCFC30HOHA	P6859810C	SCFC42HOHB	P9920005C	SCFC60HOHD	P1100906C
SCFC30HOHB	P9920003C	SCFC42HOHC	P9920012C		
SCFC30HOHC	P9920010C	SCFC42HOHD	P1100904C		

PRODUCT IDENTIFICATION



CONDENSING UNIT SPECIFICATIONS

MODEL	ZRCF24 UO1D	ZRCF30 UO1D	ZRCF36 UO1D/E	ZRCF42 UO1D	ZRCF48 UO1A	ZRCF60 UO1A
COOLING CAPACITY, BTUH	24,000	30,000	36,000	42,000	48,000	60,000
COMPRESSOR						
R.L. AMPS	12.9	15.0	20.0	22.0	26.4	32.1
L.R. AMPS	62.5	76.0	90.5	107.0	129.0	169.0
CONDENSER COIL						
FACE AREA, SQ FT	11.5	16.5	16.5	16.5	16.5	20
ROWS DEEP	1 1/2	1 1/2	1 1/2	2	2	2
FINS/INCH	17	17	17D/19E	17	17	17
CONDENSER FAN						
DIAMETER	20	24	24	24	24	24
CFM	2850	3050	3050	3800	4070	4400
CONDENSER FAN MOTOR						
HORSEPOWER	1/4	1/4	1/4	1/4	1/3	1/3
R.L. AMPS	1.5	1.1	1.1	1.5	2	2.3
L.R. AMPS	2.4	2.7	2.7	3	4.85	5.4
LIQUID LINE, INCHES	1/4	3/8	3/8	3/8	3/8	3/8
SUCTION LINE, INCHES	3/4	7/8	7/8	7/8	7/8	1 3/8
REFRIGERANT CHARGE	84.7 oz.	118.1 oz.	107.0 oz.	133.5 oz.	166.0 oz.	166.0 oz.
POWER SUPPLY	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
NUMBER WIRES (AWG)	2 (12)	2 (12)	2 (10)	2 (10)	2 (8)	2 (8)
GROUND AWG	12	10	10	10	10	10
MIN. CIRCUIT AMPACITY	17.6	19.8	26.1	29	35	42.4
MAX OVERCURRENT DEVICE, U.S.A.	25	30	40	45	60	60
ELECT. ENTRANCE SIZE						
POWER SUPPLY	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"
LOW VOLTAGE	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
APPROX. SHIPPING WT	222	253	270	289	314	347

WHILE THIS DATA IS PRESENTED AS A GUIDE, IT IS IMPORTANT TO ELECTRICALLY CONNECT THE UNIT AND PROPERLY SIZE WIRES AND FUSES/CIRCUIT BREAKERS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND/OR LOCAL CODES.

CONDENSING UNIT SPECIFICATIONS

MODEL	SRCF18 UO1A/B	SRCF24 UO1A/B	SRCF24 UO1C	SRCF30 UO1A/B/C	SRCF36 UO1A/B	SRCF42 UO1A/B	SRCF48 UO1A/B	SRCF60 UO1A/B
COOLING CAPACITY, BTUH	18,000	24,000	24,000	30,000	36,000	42,000	48,000	60,000
COMPRESSOR								
R.L. AMPS	7.8	10.3	11.5	15.3/13.5C	17.3	19.8	19.8	30.7
L.R. AMPS	43.0	49.0	56.0	65.0/71.0C	75.8	95.0	108.0	125.0
CONDENSER COIL								
FACE AREA, SQ FT	8.66	11.5	11.5	11.5	16.5	16.5	16.5	16.5
ROWS DEEP	2	1.5	1.5	2	1.5	1.5	2	2
FINS/INCH	17	17	17	17	17	17	17	17
CONDENSER FAN								
DIAMETER	20	20	20	24	24	24	24	24
CFM	2660	2800	2800	3050	3100	3900	4150	4330
CONDENSER FAN MOTOR								
HORSEPOWER	1/4	1/4	1/4	1/4	1/6	1/4	1/3	1/3
R.L. AMPS	1.2	1.5	1.5	1.5	1.1	1.5	2	2.3
L.R. AMPS	2.2	2.4	2.4	3.1	2.1	3.2	4.7	4.7
LIQUID LINE, INCHES	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8
SUCTION LINE, INCHES	5/8	3/4	3/4	3/4	7/8	7/8	7/8	7/8
REFRIGERANT CHARGE	78.7 oz.	85.3 oz.	85.3 oz.	120.3 oz.	120.1 oz.	117.8 oz.	145.6 oz.	173.3 oz.
POWER SUPPLY	208/230/60/1	208/230/60/1	208/230/60/1	208/230/60/1	208/230/60/1	208/230/60/1	208/230/60/1	208/230/60/1
NUMBER WIRES (AWG)	2 (14)	2 (12)	2 (12)	2 (12)	2 (12)	2 (12)	2 (12)	2 (8)
GROUND AWG	14	14	14	12	12	12	12	10
MIN. CIRCUIT AMPACITY	11.1	14.3	15.9	20.6	22.9	27.8	27.8	40.7
MAX OVERCURRENT DEVICE, U.S.A.	15	20	20	30	35	40	40	50
ELECT. ENTRANCE SIZE								
POWER SUPPLY	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"
LOW VOLTAGE	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
APPROX. SHIPPING WT	215	225	225	245	245	274	274	315

WHILE THIS DATA IS PRESENTED AS A GUIDE, IT IS IMPORTANT TO ELECTRICALLY CONNECT THE UNIT AND PROPERLY SIZE WIRES AND FUSES/CIRCUIT BREAKERS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND/OR LOCAL CODES.

CONDENSING UNIT SPECIFICATIONS

MODEL	SRCF24 UO1D	SRCF30 UO1D	SRCF36 UO1D	SRCF42 UO1D	SRCF42 UO1E	SRCF42 UO1F	SRCF48 UO1D	SRCF60 UO1D
COOLING CAPACITY, BTUH	24,000	30,000	36,000	42,000	42,000	42,000	48,000	60,000
COMPRESSOR								
R.L. AMPS	11.4	12.1	15.5	19.9	19.9	18.0	23.9	26.5
L.R. AMPS	49.0	59.0	81.0	83.5	83.5	96.0	95.4	114.0
CONDENSER COIL								
FACE AREA, SQ FT	11.5	16.5	16.5	16.5	16.5	16.5	16.5	20
ROWS DEEP	1 1/2	1 1/2	1 1/2	2	2	2	2	2
FINS/INCH	17	17	17	17	19	17	17	17
CONDENSER FAN								
DIAMETER	20	24	24	24	24	24	24	24
CFM	2850	3050	3050	3800	3800	3800	4070	4400
CONDENSER FAN MOTOR								
HORSEPOWER	1/4	1/4	1/4	1/4	1/4	1/4	1/3	1/3
R.L. AMPS	1.5	1.1	1.1	1.5	1.5	1.5	2	2.3
L.R. AMPS	2.4	2.7	2.7	3.0	3.0	3.0	4.9	5.4
LIQUID LINE, INCHES	1/4	3/8	3/8	3/8	3/8	3/8	3/8	3/8
SUCTION LINE, INCHES	3/4	7/8	7/8	7/8	7/8	7/8	7/8	1 1/8
REFRIGERANT CHARGE	91.7 oz.	127.5 oz.	117.9 oz.	144.1 oz.	144.1 oz.	156.4 oz.	161.3 oz.	205.7 oz.
POWER SUPPLY	208/230/60/1	208/230/60/1	208/230/60/1	208/230/60/1	208/230/60/1	208/230/60/1	208/230/60/1	208/230/60/1
NUMBER WIRES (AWG)	2 (12)	2 (12)	2 (10)	2 (10)	2 (10)	2 (10)	2 (8)	2 (8)
GROUND AWG	12	12	10	10	10	10	10	10
MIN. CIRCUIT AMPACITY	15.8	16.2	20.5	26.4	26.4	24	31.9	35.4
MAX OVERCURRENT DEVICE, U.S.A.	25	25	30	40	40	40	45	50
ELECT. ENTRANCE SIZE								
POWER SUPPLY	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"
LOW VOLTAGE	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
APPROX. SHIPPING WT	225	262	265	282	282	290	282	341

WHILE THIS DATA IS PRESENTED AS A GUIDE, IT IS IMPORTANT TO ELECTRICALLY CONNECT THE UNIT AND PROPERLY SIZE WIRES AND FUSES/CIRCUIT BREAKERS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND/OR LOCAL CODES.

CONDENSING UNIT SPECIFICATIONS

MODEL	SRCF48 U01E	SRCF48 U03A/B	SRCF48 U03D	SRCF48 U03E	SRCF60 U03A/B	SRCF60 U03D
COOLING CAPACITY, BTUH	48,000	48,000	48,000	48,000	60,000	60,000
COMPRESSOR						
R.L. AMPS	20.9	13.4	15.3	14.0	17.9	16.8
L.R. AMPS	102.0	74.0	82.0	91.0	45.0	84.0
CONDENSER COIL						
FACE AREA, SQ FT	16.5	16.5	16.5	16.5	16.5	20
ROWS DEEP	2	2	2	2	2	2
FINS/INCH	17	17	17	17	17	17
CONDENSER FAN						
DIAMETER	24	24	24	24	24	24
CFM	4070	4150	4070	4070	4330	4400
CONDENSER FAN MOTOR						
HORSEPOWER	1/3	1/3	1/3	1/3	1/3	1/3
R.L. AMPS	2.0	2.0	2.0	2.0	2.3	2.3
L.R. AMPS	4.9	4.7	4.9	4.9	4.7	5.4
LIQUID LINE, INCHES	3/8	3/8	3/8	3/8	3/8	3/8
SUCTION LINE, INCHES	7/8	7/8	7/8	7/8	7/8	1 1/8
REFRIGERANT CHARGE	145.6 oz.	145.6 oz.	161.3 oz.	161.3 oz.	173.3 oz.	205.7 oz.
POWER SUPPLY	208/230/60/3	208/230/60/3	208/230/60/3	208/230/60/3	208/230/60/3	208/230/60/3
NUMBER WIRES (AWG)	2 (8)	3 (12)	3 (10)	3 (10)	3 (12)	3 (10)
GROUND AWG	10	12	10	10	12	10
MIN. CIRCUIT AMPACITY	27.5	18.4	21.1	14.5	24.7	23.3
MAX OVERCURRENT DEVICE, U.S.A.	45	25	30	30	20	35
ELECT. ENTRANCE SIZE						
POWER SUPPLY	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"
LOW VOLTAGE	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
APPROX. SHIPPING WT	290	282	282	288	307	341

WHILE THIS DATA IS PRESENTED AS A GUIDE, IT IS IMPORTANT TO ELECTRICALLY CONNECT THE UNIT AND PROPERLY SIZE WIRES AND FUSES/CIRCUIT BREAKERS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND/OR LOCAL CODES.

CONDENSING UNIT SPECIFICATIONS

MODEL	ARCF18 UO1A/B	ARCF24 UO1A/B	ARCF30 UO1A/B	ARCF36 UO1A/B	ARCF42 UO1A/B	ARCF48 UO1A/B	ARCF60 UO1A/B/C
COOLING CAPACITY, BTUH	18,000	24,000	30,000	36,000	42,000	48,000	60,000
COMPRESSOR							
R.L. AMPS	8.9	11.7	14.8	16.8	22.5	23.9	30.7
L.R. AMPS	49.0	63.0	77.0	78.0	93.0	95.4	125.0
CONDENSER COIL							
FACE AREA, SQ FT	9.0	12.4	12.4	12.4	12.4	15.7	15.7
ROWS DEEP	1	1	2	2	2	2	2
FINS/INCH	17	17	13	13	17	13	17
CONDENSER FAN							
DIAMETER	20	20	20	20	20	20	20
CFM	2200	2500	3200	3200	3000	4100	4000
CONDENSER FAN MOTOR							
HORSEPOWER	1/8	1/8	1/4	1/4	1/4	1/2	1/2
R.L. AMPS	0.8	0.8	1.2	1.2	1.5	2.8	2.8
L.R. AMPS	1.45	1.45	3.35	3.35	2.90	6.60	6.60
LIQUID LINE, INCHES	1/4	1/4	3/8	3/8	3/8	3/8	3/8
SUCTION LINE, INCHES	5/8	5/8	3/4	3/4	7/8	7/8	7/8
REFRIGERANT CHARGE	59.3 oz.	74.1 oz.	115.8 oz.	126.1 oz.	124.3 oz.	155.0 oz.	162.5 oz.
POWER SUPPLY	208/230/60/1	208/230/60/1	208/230/60/1	208/230/60/1	208/230/60/1	208/230/60/1	208/230/60/1
NUMBER WIRES (AWG)	2 (14)	2 (12)	2 (12)	2 (10)	2 (10)	2 (8)	2 (6)
GROUND AWG	12	12	10	10	12	10	10
MIN. CIRCUIT AMPACITY	12	15.5	19.7	22.1	29.5	32.7	41.2
MAX OVERCURRENT DEVICE, U.S.A.	20	25	30	35	40	45	60
ELECT. ENTRANCE SIZE							
POWER SUPPLY	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"
LOW VOLTAGE	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
APPROX. SHIPPING WT	127	142	165	178	195	208	236

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CONDENSING UNIT SPECIFICATIONS

MODEL	ARCF18 UO1D	ARCF24 UO1D	ARCF30 UO1D	ARCF36 UO1D	ARCF36 UO1E	ARCF42 UO1D	ARCF48 UO1D	ARCF48 UO1E
COOLING CAPACITY, BTUH	18,000	24,000	30,000	36,000	36,000	42,000	48,000	48,000
COMPRESSOR								
R.L. AMPS	8.2	10.2	11.3	15.1	15.3	22.5	23.9	23.9
L.R. AMPS	49.0	49.0	59.0	78.8	81.0	93.0	95.4	102.0
CONDENSER COIL								
FACE AREA, SQ FT	9.0	12.4	12.4	12.4	12.4	12.4	15.7	15.7
ROWS DEEP	1	1	2	2	2	2	2	2
FINS/INCH	17	17	13	17	17	17	17	17
CONDENSER FAN								
DIAMETER	19.5	19.5	19.5	19.5	19.5	19.5	15.7	20.0
CFM	2300	2560	3000	2630	2630	3200	3500	3500
CONDENSER FAN MOTOR								
HORSEPOWER	1/6	1/6	1/4	1/4	1/4	1/4	1/2	1/2
R.L. AMPS	0.8	0.8	1.5	1.5	1.5	1.5	2.5	2.5
L.R. AMPS	1.5	1.5	3.4	3.4	3.4	2.9	6.6	6.6
LIQUID LINE, INCHES	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8
SUCTION LINE, INCHES	5/8	5/8	3/4	7/8	7/8	7/8	7/8	7/8
REFRIGERANT CHARGE	57.1 oz.	80.1 oz.	109.3 oz.	112.3 oz.	114.0 oz.	124.3 oz.	156.4 oz.	166.0 oz.
POWER SUPPLY	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
NUMBER WIRES (AWG)	2 (14)	2 (12)	2 (10)	2 (10)	2 (10)	2 (10)	2 (8)	2 (8)
GROUND AWG	14	12	10	10	10	10	10	10
MIN. CIRCUIT AMPACITY	11.1	13.6	15.6	20.4	20.9	29.6	32.4	32.4
MAX OVERCURRENT DEVICE, U.S.A.	15	20	25	35	30	45	50	45
ELECT. ENTRANCE SIZE								
POWER SUPPLY	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"
LOW VOLTAGE	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
APPROX. SHIPPING WT	144	159	180	210	210	195	230	229

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CONDENSING UNIT SPECIFICATIONS

MODEL	ARCF60 UO1D	ARCF60 UO1E
COOLING CAPACITY, BTUH	60,000	60,000
COMPRESSOR		
R.L. AMPS	30.7	28.8
L.R. AMPS	135.0	169.0
CONDENSER COIL		
FACE AREA, SQ FT	15.7	15.7
ROWS DEEP	2	2
FINS/INCH	17	17
CONDENSER FAN		
DIAMETER	19.5	19.5
CFM	3500	3500
CONDENSER FAN MOTOR		
HORSEPOWER	1/2	1/2
R.L. AMPS	2.5	2.5
L.R. AMPS	6.6	6.6
LIQUID LINE, INCHES	3/8	3/8
SUCTION LINE, INCHES	7/8	7/8
REFRIGERANT CHARGE	168.8 oz.	156.3 oz.
POWER SUPPLY	208/230/60-1	208/230/60-1
NUMBER WIRES (AWG)	2 (6)	2 (8)
GROUND AWG	10	10
MIN. CIRCUIT AMPACITY	40.9	38.5
MAX OVERCURRENT DEVICE, U.S.A.	60	60
ELECT. ENTRANCE SIZE		
POWER SUPPLY	1/2" or 3/4"	1/2" or 3/4"
LOW VOLTAGE	7/8"	7/8"
APPROX. SHIPPING WT	243	243

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CONDENSING UNIT SPECIFICATIONS

MODEL	ARCF48 UO3A/B	ARCF48 UO3D	ARCF48 UO3E	ARCF60 UO3A/B/C	ARCF60 UO3D	ARCF48 UO4D	ARCF60 UO4D
COOLING CAPACITY, BTUH	48,000	48,000	48,000	60,000	60,000	48,000	60,000
COMPRESSOR							
R.L. AMPS	15.3	15.3	15.3	17.9	19.6	6.4	10.4
L.R. AMPS	82.0	82.0	91.0	90.0	105.0	42.0	55.0
CONDENSER COIL							
FACE AREA, SQ FT	15.7	15.7	15.7	15.7	15.7	15.7	15.7
ROWS DEEP	2	2	2	2	2	2	2
FINS/INCH	13	17	17	17	17	17	17
CONDENSER FAN							
DIAMETER	20.0	19.5	20.0	20.0	19.5	19.5	19.5
CFM	4100	3500	3500	4000	3500	3500	3500
CONDENSER FAN MOTOR							
HORSEPOWER	1/2	1/2	1/2	1/2	1/2	1/3	1/3
R.L. AMPS	2.8	2.5	2.5	2.8	2.5	1.25	1.25
L.R. AMPS	6.6	6.6	6.6	6.6	6.6	3.75	3.75
LIQUID LINE, INCHES	3/8	3/8	3/8	3/8	3/8	3/8	3/8
SUCTION LINE, INCHES	7/8	7/8	7/8	7/8	7/8	7/8	7/8
REFRIGERANT CHARGE	155.0 oz.	156.4 oz.	166.0 oz.	162.5 oz.	168.8 oz.	166.0 oz.	168.0 oz.
POWER SUPPLY	208/230/60-3	208/230/60-3	208/230/60-3	208/230/60-3	208/230/60-3	460-60-3	460-60-3
NUMBER WIRES (AWG)	3 (12)	3 (10)	3 (10)	3 (10)	3 (10)	3 (14)	3 (12)
GROUND AWG	10	10	10	10	10	14	12
MIN. CIRCUIT AMPACITY	21.9	21.6	21.6	25.2	27.0	9.3	14.3
MAX OVERCURRENT DEVICE, U.S.A.	40	30	30	35	45	15	20
ELECT. ENTRANCE SIZE							
POWER SUPPLY	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"
LOW VOLTAGE	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
APPROX. SHIPPING WT	208	230	229	236	236	229	243

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CONDENSING UNIT SPECIFICATIONS

MODEL	VRCF18 UO1A/B	VRCF24 UO1A/B	VRCF30 UO1A/B	VRCF36 UO1A/B	VRCF42 UO1A	VRCF48 UO1A	VRCF60 UO1A
COOLING CAPACITY, BTUH	18,000	24,000	30,000	36,000	42,000	48,000	48,000
COMPRESSOR							
R.L. AMPS	8.9	11.7	14.8	16.8	22.5	23.9	15.3
L.R. AMPS	49.0	63.0	77.0	78.0	93.0	95.4	82.0
CONDENSER COIL							
FACE AREA, SQ FT	9	12.4	12.4	12.4	12.4	15.7	15.7
ROWS DEEP	1	1	2	2	2	2	2
FINS/INCH	17	17	13	13	17	13	13
CONDENSER FAN							
DIAMETER	20	20	20	20	20	20	20
CFM	1900	2700	3000	3150	3200	3900	3900
CONDENSER FAN MOTOR							
HORSEPOWER	1/6	1/6	1/4	1/4	1/4	1/2	1/2
R.L. AMPS	0.80	0.80	1.20	1.20	1.50	2.80	2.80
L.R. AMPS	1.45	1.45	3.35	3.35	2.90	6.60	6.60
LIQUID LINE, INCHES	5/8	5/8	3/4	3/4	7/8	7/8	7/8
SUCTION LINE, INCHES	1/4	3/8	3/8	3/8	3/8	3/8	3/8
REFRIGERANT CHARGE	59.3 oz.	74.1 oz.	115.8 oz.	126.1 oz.	124.3 oz.	155.0 oz.	155.0 oz.
POWER SUPPLY	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
NUMBER WIRES (AWG)	2 (14)	2 (12)	2 (12)	2 (10)	2 (10)	2 (8)	3 (12)
GROUND AWG	12	12	10	10	12	10	10
MIN. CIRCUIT AMPACITY	12	15.5	19.7	22.1	29.5	32.7	21.9
MAX OVERCURRENT DEVICE, U.S.A.	20	25	30	35	40	45	30
ELECT. ENTRANCE SIZE							
POWER SUPPLY	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"
LOW VOLTAGE	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
APPROX. SHIPPING WT	144	158	180	190	195	208	208

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CONDENSING UNIT SPECIFICATIONS

MODEL	VRCF18 UO1C	VRCF24 UO1C	VRCF30 UO1C	VRCF36 UO1C	VRCF42 UO1B	VRCF48 UO1B	VRCF60 UO1B
COOLING CAPACITY, BTUH	18,000	24,000	30,000	36,000	42,000	48,000	48,000
COMPRESSOR							
R.L. AMPS	9.1	11.7	14.8	16.8	22.5	23.9	15.3
L.R. AMPS	49.0	63.0	77.0	78.0	93.0	95.4	82.0
CONDENSER COIL							
FACE AREA, SQ FT	9	12.4	12.4	12.4	12.4	15.7	15.7
ROWS DEEP	1	1	2	2	2	2	2
FINS/INCH	17	17	13	13	17	13	13
CONDENSER FAN							
DIAMETER	20	20	20	20	19.5	19.5	19.5
CFM	1900	2700	3200	3150	2900	3900	3900
CONDENSER FAN MOTOR							
HORSEPOWER	1/8	1/8	1/4	1/4	1/4	1/2	1/2
R.L. AMPS	0.80	0.80	1.20	1.20	1.50	2.80	2.80
L.R. AMPS	1.45	1.45	3.35	3.35	2.90	6.60	6.60
LIQUID LINE, INCHES	5/8	5/8	3/4	3/4	7/8	7/8	7/8
SUCTION LINE, INCHES	1/4	3/8	3/8	3/8	3/8	3/8	3/8
REFRIGERANT CHARGE	51.3 oz.	74.1 oz.	115.8 oz.	126.1 oz.	124.3 oz.	155.0 oz.	155.0 oz.
POWER SUPPLY	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
NUMBER WIRES (AWG)	2 (14)	2 (12)	2 (12)	2 (10)	2 (10)	2 (8)	3 (12)
GROUND AWG	12	12	10	10	10	10	10
MIN. CIRCUIT AMPACITY	12	15.5	20	22.5	29.6	32.4	21.6
MAX OVERCURRENT DEVICE, U.S.A.	20	25	30	35	45	50	30
ELECT. ENTRANCE SIZE							
POWER SUPPLY	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"
LOW VOLTAGE	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
APPROX. SHIPPING WT	144	158	180	190	195	208	208

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CONDENSING UNIT SPECIFICATIONS

MODEL	VRCF18 UO1D	VRCF24 UO1D	VRCF30 UO1D	VRCF36 UO1D	VRCF48 UO3A	VRCF60 UO3A	VRCF48 UO3B	VRCF60 UO3B
COOLING CAPACITY, BTUH	18,000	24,000	30,000	36,000	48,000	60,000	48,000	60,000
COMPRESSOR								
R.L. AMPS	8.5	11.0	13.6	16.8	15.3	17.9	30.7	19.6
L.R. AMPS	43.0	60.0	73.0	78.0	82.0	90.0	135.0	105.0
CONDENSER COIL								
FACE AREA, SQ FT	9	12.4	12.4	12.4	15.7	15.7	15.7	15.7
ROWS DEEP	1	1	2	2	2	2	2	2
FINS/INCH	17	17	13	13	13	17	13	17
CONDENSER FAN								
DIAMETER	19.5	19.5	19.5	19.5	20	20	19.5	19.5
CFM	2200	2500	3000	3000	3900	3600	3900	3600
CONDENSER FAN MOTOR								
HORSEPOWER	1/6	1/6	1/4	1/4	1/2	1/2	1/2	1/2
R.L. AMPS	0.8	0.8	1.5	1.5	6.6	6.6	6.6	6.6
L.R. AMPS	1.45	1.45	3.35	3.35	2.80	2.80	2.80	2.80
LIQUID LINE, INCHES	1/4	1/4	3/8	3/8	7/8	7/8	7/8	7/8
SUCTION LINE, INCHES	5/8	5/8	3/4	3/4	3/8	3/8	3/8	3/8
REFRIGERANT CHARGE	60.8 oz.	77.9 oz.	123.4 oz.	126.1 oz.	155.0 oz.	162.5 oz.	155.0 oz.	162.5 oz.
POWER SUPPLY	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-3	208/230-60-3	208/230-60-3	208/230-60-3
NUMBER WIRES (AWG)	2 (12)	2 (10)	2 (10)	2 (10)	3 (12)	3 (10)	3 (12)	3 (10)
GROUND AWG	12	10	10	10	10	10	10	10
MIN. CIRCUIT AMPACITY	11.9	15.3	19.4	22.5	21.9	25.2	21.6	27
MAX OVERCURRENT DEVICE, U.S.A.	20	25	30	35	30	35	30	45
ELECT. ENTRANCE SIZE								
POWER SUPPLY	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"
LOW VOLTAGE	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
APPROX. SHIPPING WT	144	158	180	190	208	235	208	235

WHILE THIS DATA IS PRESENTED AS A GUIDE, IT IS IMPORTANT TO ELECTRICALLY CONNECT THE UNIT AND PROPERLY SIZE WIRES AND FUSES/CIRCUIT BREAKERS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND/OR LOCAL CODES.

BLOWER COIL SPECIFICATIONS

MODEL	BCAA24 T001A	BCAA30 T001A	BCAA36 T001A	BCAA18 C002A/B	BCAA24 C002A/B	BCAA24 T002A/B	BCAA30 C/T002A/B	BCAA36 C/T002A/B
COOLING CAPACITY, BTUH	24,000	30,000	36,000	18,000	24,000	24,000	30,000	36,000
EVAPORATOR COIL								
FACE AREA, SQ FT	3.63	4.35	4.83	3.63	4.35	3.63	4.35	4.83
ROWS DEEP	3	3	3	3	3	3	3	3
FINS/INCH	12	12	14	14	14	12	14	14
BLOWER WHEEL WxD	10 x 7	10 x 7	10 x 7	9 x 6	9 x 6	10 x 7	10 x 7	10 x 7
BLOWER MOTOR								
HORSEPOWER	1/3 (2)	1/3 (2)	1/3 (2)	1/4 (2)	1/4 (2)	1/3 (2)	1/3 (2)	1/3 (2)
R.L. AMPS	4.7	4.7	6.3	1.5	1.5	2.3	2.3	2.3
L.R. AMPS	6.6	6.6	10.2	2.9	2.9	2.9	4.9	4.9
COOLING SPEED	LOW	LOW	HIGH	LOW	HIGH	LOW	LOW	HIGH
RATED CFM	840	900	1275	600	875	875	900	1275
EXT.STATIC PRESS (WC)	.10 to .30	.15 to .30	.15 to .30	.10 to .30	.10 to .30	.10 to .30	.15 to .30	.15 to .30
DRAIN LINE SIZE	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT
LIQUID LINE, INCHES	1/4	3/8	3/8	1/4	1/4	1/4	3/8	3/8
SUCTION LINE, INCHES	3/4	7/8	7/8	5/8	5/8	3/8	3/4" C. 7/8" T.	7/8
POWER SUPPLY	115-60-1	115-60-1	115-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
WIRE & (GRD) SIZE AWG								
0 KW	14 (14)	14 (14)	14 (14)	14 (14)	14 (14)	14 (14)	14 (14)	14 (14)
AHK05A 4.8 KW	NA	NA	NA	10 (10)	10 (10)	10 (10)	10 (10)	10 (10)
AHK07A 7.3 KW	NA	NA	NA	8 (10)	8 (10)	8 (10)	8 (10)	6 (10)
AHK10A 9.6 KW	NA	NA	NA	6 (10)	6 (10)	6 (10)	6 (10)	6 (10)
AHK15A 14.4 KW	NA	NA	NA	3* (8)	3* (8)	3* (8)	3* (8)	3* (8)
AHK20A 19.2 KW	NA	NA	NA	NA	NA	1* (6)	1* (6)	1* (6)
MIN. CIRCUIT AMPACITY MAX. OVERCURRENT PROTECTION								
0 KW	7.8 15	7.8 15	7.8 15	1.9 15	1.9 15	2.9 15	2.9 15	29. 15
AHK05A 4.8 KW	NA	NA	NA	26.9 30	26.9 30	27.9 30	27.9 30	27.9 30
AHK07A 7.3 KW	NA	NA	NA	39.9 40	39.9 40	40.9 45	40.9 45	40.9 45
AHK10A 9.6 KW	NA	NA	NA	51.9 60	51.9 60	52.9 60	52.9 60	52.9 60
AHK15A 14.4 KW	NA	NA	NA	76.9 80	76.9 80	77.9 80	77.9 80	77.9 90
AHK20A 19.2 KW	NA	NA	NA	NA	NA	102.9 110	102.9 110	102.9 110
ELECT. ENTRANCE SIZE								
POWER SUPPLY	1 3/32"	1 3/32"	1 3/32"	1 3/32"	1 3/32"	1 3/32"	1 3/32"	1 3/32"
LOW VOLTAGE	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
APPROX. SHIPPING WT	144	148	154	127	135	144	148	154

BLOWER COIL SPECIFICATIONS

MODEL	BCEA24T 001A	BCEA30T 001A	BCEA36T 001A	BCEA42 T002A/B	BCEA48 T002A/B	BCEA60 T002A/B
COOLING CAPACITY, BTUH	24,000	30,000	36,000	42,000	48,000	60,000
EVAPORATOR COIL						
FACE AREA, SQ FT	3.63	4.35	4.83	4.94	6.18	6.18
ROWS DEEP	3	3	3	4	4	4
FINS/INCH	12	14	14	12	12	12
BLOWER WHEEL WxD	9 x 6	10 x 7	10 x 7	10 x 8	10 x 8	11 x 9
BLOWER MOTOR						
HORSEPOWER	1/6	1/3	1/3	1/2	1/2	3/4
R.L. AMPS	3.0	4.7	6.0	2.0	2.0	2.0
L.R. AMPS	4.3	6.3	11.0	4.1	4.1	5.2
COOLING SPEED	HIGH	LOW	HIGH	LOW	HIGH	HIGH
RATED CFM	800	1100	1250	1550	1725	2000
EXT.STATIC PRESS (WC)	.10 to .30	.15 to .30	.15 to .30	.15 to .60	.20 to .60	.20 to .60
DRAIN LINE SIZE	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT
LIQUID LINE, INCHES	1/4	3/8	3/8	3/8	3/8	3/8
SUCTION LINE, INCHES	3/4	7/8	7/8	7/8	7/8	7/8
POWER SUPPLY	115-60-1	115-60-1	115-60-1	208/230-60-1	208/230-60-1	208/230-60-1
WIRE & (GRD) SIZE AWG						
0 KW	14 (14)	14 (14)	14 (14)	14 (14)	14 (14)	14 (14)
BHK01A 4.8 KW	NA	NA	NA	8 (10)	8 (10)	8 (10)
BHK02A 9.6 KW	NA	NA	NA	6 (10)	6 (10)	6 (10)
BHK03A 14.4 KW	NA	NA	NA	4 (8)	4 (8)	4 (8)
BHK04A 19.2 KW	NA	NA	NA	2 (6)	2 (6)	2 (6)
BHK05A 24.0 KW	NA	NA	NA	1/0 (6)	1/0 (6)	1/0 (6)
BHK06A 28.8 KW	NA	NA	NA	00 (6)	00 (6)	00 (6)
MIN. CIRCUIT AMPACITY MAX. OVERCURRENT PROTECTION						
0 KW	7.8 15	7.5 15	7.5 15	5.1 15	5.1 15	6.5 15
BHK01A 4.8 KW	NA	NA	NA	30.1 35	30.1 35	31.5 35
BHK02A 9.6 KW	NA	NA	NA	55.1 60	55.1 60	56.5 60
BHK03A 14.4 KW	NA	NA	NA	80.1 90	80.1 90	81.9 90
BHK04A 19.2 KW	NA	NA	NA	105.1 110	105.1 110	106.5 110
BHK05A 24.0 KW	NA	NA	NA	130.0 150	130.0 150	131.5 150
BHK06A 28.8 KW	NA	NA	NA	155.1 175	155.1 175	156.5 150
ELECT. ENTRANCE SIZE						
POWER SUPPLY	1 3/32"	1 3/32"	1 3/32"	1 3/32"	1 3/32"	1 3/32"
LOW VOLTAGE	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
APPROX. SHIPPING WT	136	147	155	141	141	146

BLOWER COIL SPECIFICATIONS

MODEL	EBCC2400 MBM/MDM	EBCC3000 MBM/MDM	EBCC3600 MBM/MDM
COOLING CAPACITY, BTUH	24,000	30,000	36,000
EVAPORATOR COIL			
FACE AREA, SQ FT	3.63	4.35	4.83
ROWS DEEP	3	3	3
FINS/INCH	12	14	14
BLOWER WHEEL WxD	9 x 6	10 x 7	10 x 7
BLOWER MOTOR			
HORSEPOWER	1/6 (2)	1/3 (2)	1/3 (2)
R.L. AMPS	2.3	4.7	6.0
L.R. AMPS	4.3	6.3	11.0
COOLING SPEED	HIGH	HIGH	HIGH
RATED CFM	800	1100	1250
EXT.STATIC PRESS (WC)	.15 to .40	.15 to .40	.15 to .40
DRAIN LINE SIZE	3/4 FPT	3/4 FPT	3/4 FPT
LIQUID LINE, INCHES	1/4	3/8	3/8
SUCTION LINE, INCHES	3/4	7/8	7/8
POWER SUPPLY	115/60/1	115/60/1	115/60/1
WIRE & (GRD) SIZE AWG			
0 KW	14 (14)	14 (14)	14 (14)
AHK05A 4.8 KW	10 (10)	10 (10)	10 (10)
AHK07A 7.3 KW	8 (10)	8 (10)	6 (10)
AHK10A 9.6 KW	6 (10)	6 (10)	6 (10)
AHK15A 14.4 KW	3" (8)	3" (8)	3" (8)
AHK20A 19.2 KW	NA	1" (6)	1" (6)
MIN. CIRCUIT AMPACITY MAX. OVERCURRENT PROTECTION			
0 KW	2.9 15	2.9 15	7.5 15
AHK05A 4.8 KW	26.9 30	27.9 30	27.9 30
AHK07A 7.3 KW	39.9 40	40.9 45	40.9 45
AHK10A 9.6 KW	51.9 60	52.9 60	52.9 60
AHK15A 14.4 KW	76.9 80	77.9 80	77.9 90
AHK20A 19.2 KW	NA	102.9 110	102.9 110
ELECT. ENTRANCE SIZE			
POWER SUPPLY	1 3/32"	1 3/32"	1 3/32"
LOW VOLTAGE	7/8"	7/8"	7/8"
APPROX. SHIPPING WT	140	140	140

BLOWER COIL SPECIFICATIONS

MODEL	EBCC2400 M-A	EBCC3600 M-A	EBCC4800 M-A	EBCC6000 M-A	EBCC4200 MBM/MDM	EBCC4800 MBM/MDM	EBCC6000 MBM/MDM
COOLING CAPACITY, BTUH	18000-24000	30000-36000	42000-48000	60,000	42,000	48,000	60,000
EVAPORATOR COIL							
FACE AREA, SQ FT					4.94	6.18	6.18
ROWS DEEP					4	4	4
FINS/INCH					12	12	12
BLOWER WHEEL WxD	6 x 9	10 x 7	10 x 8	10 x 9	10 x 8	10 x 8	11 x 9
BLOWER MOTOR							
HORSEPOWER	1/6	1/3	1/2	3/4	1/2 (2)	1/2 (2)	3/4 (2)
R.L. AMPS	2.3	6.0	4.0	5.0	2.0	2.0	2.0
L.R. AMPS					4.1	4.1	5.2
COOLING SPEED	LOW/HIGH	LOW/HIGH	LOW/HIGH	-	HIGH	HIGH	HIGH
RATED CFM	700/900	1125/1300	1575/1800	2000	1490	1630	1850
EXT.STATIC PRESS (WC)	.10 to .40	.10 to .40	.15 to .40	.15 to .40	.15 to .60	.20 to .60	.20 to .60
DRAIN LINE SIZE					3/4 FPT	3/4 FPT	3/4 FPT
LIQUID LINE, INCHES					3/8	3/8	3/8
SUCTION LINE, INCHES					7/8	7/8	7/8
POWER SUPPLY	115/60/1	115/60/1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
WIRE & (GRD) SIZE AWG							
0 KW	14 (14)	14 (14)	14 (14)	14 (14)	14 (14)	14 (14)	14 (14)
BHK01A 4.8 KW					8 (10)	8 (10)	8 (10)
BHK02A 9.6 KW					6 (10)	6 (10)	6 (10)
BHK03A 14.4 KW					4 (8)	4 (8)	4 (8)
BHK04A 19.2 KW					2 (6)	2 (6)	2 (6)
BHK05A 24.0 KW					1/0 (6)	1/0 (6)	1/0 (6)
BHK06A 28.8 KW					00 (6)	00 (6)	00 (6)
MIN. CIRCUIT AMPACITY MAX. OVERCURRENT PROTECTION							
0 KW	2.9 15	7.5 15	5.0 15	6.3 15	5.1 15	5.1 15	6.5 15
BHK01A 4.8 KW					30.1 35	30.1 35	31.5 35
BHK02A 9.6 KW					55.1 60	55.1 60	56.6 60
BHK03A 14.4 KW					80.1 90	80.1 90	81.9 90
BHK04A 19.2 KW					105.1 110	105.1 110	106.5 110
BHK05A 24.0 KW					130.1 150	130.1 150	131.5 150
BHK06A 28.8 KW					155.1 175	155.1 175	156.5 150
ELECT. ENTRANCE SIZE							
POWER SUPPLY	1 3/32"	1 3/32"	1 3/32"	1 3/32"	1 3/32"	1 3/32"	1 3/32"
LOW VOLTAGE	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
APPROX. SHIPPING WT					141	141	146

BLOWER COIL SPECIFICATIONS

MODEL	EBCU2410M-D	EBCU3610M-D	EBCU4810M-D	EBCU6010M-D
NOMINAL HEATING @ 9.6KW	35,000	35,000	35,000	35,000
BLOWER WHEEL WxD	6 x 9	7 x 10	8 x 10	9 x 10
BLOWER MOTOR				
HORSEPOWER	1/5	1/3	1/2	3/4
R.L. AMPS	1.37	2.30	4.00	5.00
RATED CFM (HEATING)	710	1100	1800	2000
EXT.STATIC PRESS (WC)	.10 to .40	.15 to .40	.15 to .40	.15 to .40
POWER SUPPLY	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
WIRE & (GRD) SIZE AWG				
9.6 KW	6 (10)	6 (10)	6 (8)	4 (8)
14.4 KW	3 (8)	3 (8)	3 (8)	4 (8)
19.2 KW	NA	2 (6)	1 - 75°C (6)	1 - 75°C (6)
24.0 KW	NA	NA	1 - 75°C (6)	0 - 75°C (6)
28.8 KW	NA	NA	00 - 75°C (6)	00 - 75°C (6)
MIN. CIRCUIT AMPICITY				
MAX. OVERCURRENT				
PROTECTION				
9.6 KW	51.5	53.1	55.0 60	56.3 60
14.4 KW	76.5	77.9	80.0 90	81.3 90
19.2 KW	NA	102.9	105.0 125	106.3 125
24.0 KW	NA	NA	130.0 150	131.3 150
28.8 KW	NA	NA	155.0 175	156.3 175
ELECT. ENTRANCE SIZE				
POWER SUPPLY	1 3/32"	1 3/32"	1 3/32"	1 3/32"
LOW VOLTAGE	7/8"	7/8"	7/8"	7/8"
APPROX. SHIPPING WT				

COIL SPECIFICATIONS

MODEL NUMBER	SCFC24 A0V	SCFC30 A0V	SCFC36 A0V	SCFC42 A0V	SCFC42 AUM	SCFC48,60 A0V/AUM
COIL FACE AREA, SQUARE FEET	3.63	4.35	4.83	5.32	4.83	6.29
FINS PER INCH/ROWS DEEP	12/3	14/3	14/3	12/4	12/4	12/4
LIQUID LINE CONNECTION	1/4	3/8	3/8	3/8	3/8	3/8
SUCTION LINE CONNECTION	3/4	7/8	7/8	7/8	7/8	7/8
DRAIN LINE CONNECTION	34" FPT	34" FPT	34" FPT	34" FPT	34" FPT	34" FPT
EXPANSION DEVICE	TEV	TEV	TEV	TEV	TEV	TEV
APPROX. SHIPPING WEIGHT	41	45	53	51	53	75

*SCFC 60 is rated with 1 1/8" suction line. Installer should supply 7/8" to 1 1/8" adapter.

MODEL NUMBER	ACFC18 VCFC18-24 A0V	ACFC24 A0V	ACFC30-36 VCFC30-36 A0V	ACFC36 A0VD	ACFC42-48 ACFC42-48 A0V	ACFC60 VCFC60 A0V
COIL FACE AREA, SQUARE FEET	3.63	4.35	4.35	4.83	5.32	6.29
FINS PER INCH/ROWS DEEP	14/3	14/3	14/3	14/3	12/4	12/4
LIQUID LINE CONNECTION	1/4	1/4	3/8	3/8	3/8	3/8
SUCTION LINE CONNECTION	5/8	5/8	3/4	7/8	7/8	7/8
DRAIN LINE CONNECTION	34" FPT	34" FPT	34" FPT	34" FPT	34" FPT	34" FPT
EXPANSION DEVICE	CAP. TUBE	CAP. TUBE	CAP. TUBE	TEV	CAP. TUBE*	TEV
APPROX. SHIPPING WEIGHT	33	38	37	42	60	75

*ACFC48A0VD uses a TEV type expansion device.

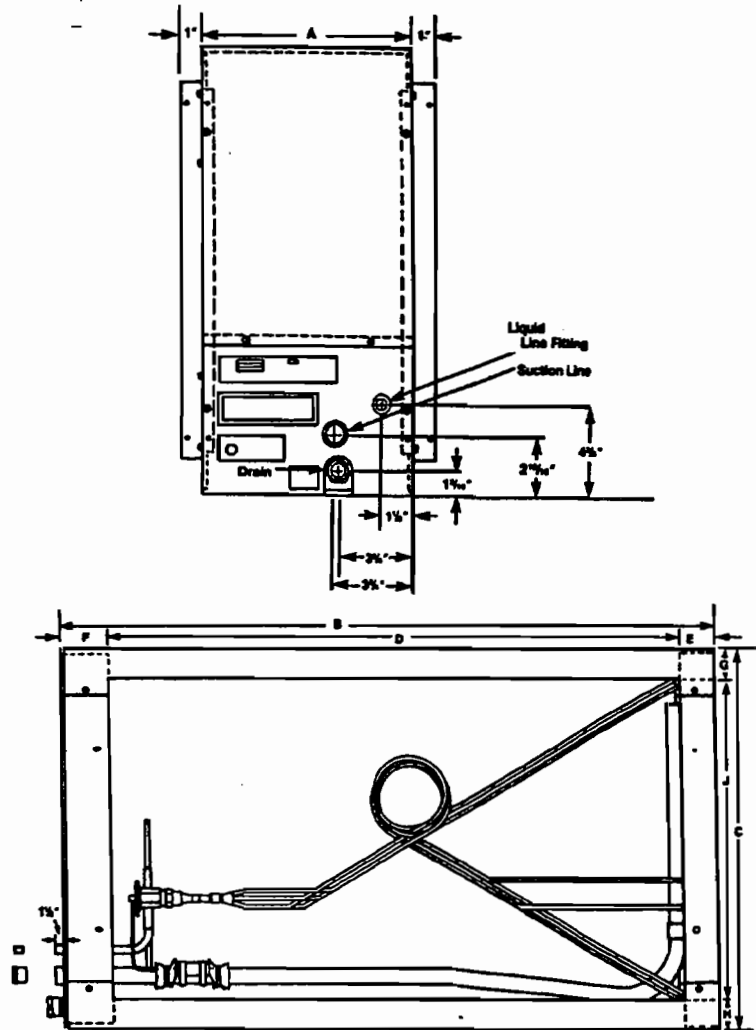
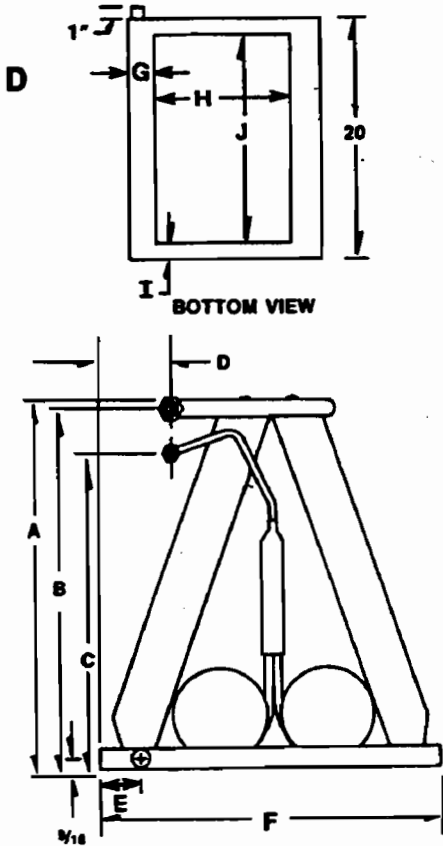
MODEL NUMBER	SCFC24 HOH	SCFC30 HOH	SCFC36 HOH	SCFC42 HOH	SCFC48 HOH	SCFC60 HOH
COIL FACE AREA, SQUARE FEET	3.2	3.2	4.6	5.5	5.5	5.5
FINS PER INCH/ROWS DEEP	14/3	12/4	14/3	14/3	14/4	14/4
LIQUID LINE CONNECTION	1/4	3/8	3/8	3/8	3/8	3/8
SUCTION LINE CONNECTION	3/4	7/8	7/8	7/8	7/8	7/8*
DRAIN LINE CONNECTION	34" FPT	34" FPT	34" FPT	34" FPT	34" FPT	34" FPT
EXPANSION DEVICE	TEV	TEV	TEV	TEV	TEV	TEV
APPROX. SHIPPING WEIGHT	58	62	66	69	75	75

*SCFC48A0VD uses a TEV type expansion device.

MODEL NUMBER	ACFC18-24 VCFC18-24 HOH	ACFC30-36 VCFC30-36 HOH
COIL FACE AREA, SQUARE FEET	3.2	3.2
FINS PER INCH/ROWS DEEP	14/3	12/4
LIQUID LINE CONNECTION	1/4	1/4
SUCTION LINE CONNECTION	5/8	5/8
DRAIN LINE CONNECTION	34" FPT	34" FPT
EXPANSION DEVICE	CAP. TUBE	CAP. TUBE
APPROX. SHIPPING WEIGHT	50	54

COIL SPECIFICATIONS

MODEL	A	B	C	D	E	F	G	H	I	J
SCFC24A0V	15	9 1/2	7 3/16	1 5/16	1 1/4	14 3/8	2 21/32	9 1/16	1 1/4	17 13/32
SCFC30A0V	18	9 1/2	7 3/16	1 5/16	1 1/4	14 3/8	2 21/32	9 1/16	1 1/4	17 13/32
SCFC36A0V	19 5/8	16 13/16	14 1/2	3 5/16	3 1/4	18 3/8	3 1/32	12 5/16	1 3/8	17 9/32
SCFC42A0V	22 3/4	15 1/2	13 1/2	1 7/8	1 1/4	22 3/8	3 13/16	14 3/4	1 1/4	17 13/32
SCFC48,60A0V	25 5/8	15 1/2	13 1/2	1 7/8	1 1/4	22 3/8	3 13/16	14 3/4	1 1/4	17 13/32
SCFC42,48AUM	18	15 9/16	13 1/4	2 3/16	3 1/4	20 1/4	3 7/8	12 1/2	2 1/4	22 1/4
SCFC60AUM	20 3/8	15 9/16	13 1/4	2 3/16	3 1/4	20 1/4	3 7/8	12 1/2	2 1/4	22 1/4
ACFC18, VCFC18,24A0V	15	14 5/8	12 5/16	1 9/16	1 1/4	14 3/8	2 21/32	9 1/16	1 1/4	17 13/32
ACFC24,30, VCFC30,36A0V	18	17 1/2	15 3/16	1 9/16	1 1/4	14 3/8	2 21/32	9 1/16	1 1/4	17 13/32
ACFC36A0V	19 17/32	19 1/16	16 1/8	3 3/8	3 1/4	18 3/8	3 1/32	12 5/16	1 3/8	17 9/32
ACFC42, VCFC42, 48A0V	21 9/32	20 27/32	19 9/16	6 3/32	1 1/4	22 3/8	3 13/16	14 3/4	1 1/4	17 13/32
ACFC48, VCFC60A0V	21 9/32	15 1/2	13 3/16	1 7/8	1 1/4	22 3/8	3 13/16	14 3/4	1 1/4	17 13/32
ACFC60A0V	25 13/16	15 1/2	13 3/16	1 7/8	1 1/4	22 3/8	3 13/16	14 3/4	1 1/4	17 13/32
SCFC24,30HOH	10	26 1/2	21 1/8	22	2	2 1/2	1 5/8	1 5/8	-	17 7/8
SCFC36HOH	10	36 1/2	21 1/8	32	2	2 1/2	1 5/8	1 5/8	-	17 7/8
SCFC42,48,60HOH	10	36 1/2	25 1/8	32	2	2 1/2	1 5/8	1 5/8	-	21 7/8
ACFC/VCFC18,24,30,36HOH	10	26 1/2	21 1/8	22	2	2 1/2	1 5/8	1 5/8	-	17 7/8



PRODUCT DESIGN

CONDENSING UNIT

The ZRCF Remote Condensing Units are made in 2 through 5 ton sizes. They are all designed for dual voltage single phase application.

The SRCF, ARCF and VRCF Remote Condensing Units are made in 1.5 through 5 ton sizes. They are designed for dual voltage single phase applications. The 4 and 5 ton models are also available for 3 phase applications.

The condenser air is pulled through the condenser coil by a direct drive propeller fan. This condenser air is then discharged out of the top of the cabinet.

These units are designed for free air discharge, so no additional resistance like duct work shall be attached.

The suction and liquid line connections on present models are of the sweat type for field piping with refrigerant type copper. Non-back seating valves are factory installed to accept the field run copper. The total refrigerant charge for a normal installation is factory installed in the condensing unit. This charge is for the matching evaporator coil and a 30 foot refrigerant line set.

ZRCF models, and the ARCF60U01E use the Compliant Scroll compressor, there are a number of design characteristics which are different from the traditional reciprocating compressor.

- Phase 1 Scroll compressors include a discharge thermostat located beneath the compressor top cap.
- Phase 2 Scroll compressors will not have a discharge thermostat.
- Due to their design Scroll compressors are inherently more tolerant of liquid refrigerant. NOTE: Even though the compressor section of a Scroll compressor is more tolerant of liquid refrigerant, continued floodback or flooded start conditions may wash oil from the bearing surfaces causing premature bearing failure.
- These Scroll compressors use white oil which is compatible with 3GS. 3GS oil may be used if additional oil is required.
- The compressor may run backwards (noisy operation) for 1 or 2 seconds at shutdown. This is normal and does not harm the compressor.
- Operating pressures and amp draws may differ from standard reciprocating compressors. This information may be found in the "Cooling Performance Data" section.

The scroll is a simple compression concept first patented in 1905. A scroll is an involute spiral which, when matched with a mating scroll form as shown below, generates a series of crescent shaped gas pockets between the two members. During compression, one scroll remains stationary (fixed scroll) while the other form (orbiting scroll) is allowed to orbit (but not rotate) around the first form. As this motion occurs, the pockets between the two forms are slowly pushed to the center of the two scrolls while simultaneously being reduced in volume. When the pocket reaches the center of the scroll form, the gas, which is now at a high pressure, is discharged out of a port located at the center. During compression, several pockets are being compressed simultaneously, resulting in a very smooth process. Both the suction process (outer portion of the scroll members) and the discharge process (inner portion) are continuous.



EVAPORATOR COILS

The matching evaporator coils are of the expansion valve or capillary tube type and are designed for upflow or counterflow applications using a separate air handler. They come from the factory with a holding charge of dry air or nitrogen.

BLOWER COILS

These blower coils are designed with matching evaporator coils to provide an air handler for cooling only.

The units are designed for upflow, counterflow, or horizontal application, using two speed direct drive motors with the exception of the EBCC60 which is only a single speed.

SYSTEM OPERATION

The refrigerant used in the system is R-22. It is clear, colorless, non-toxic, non-irritating, and non-explosive liquid. The chemical formula is CHClF_2 . The boiling point, at atmospheric pressure is -41.4°F .

A few of the important principles that make the refrigeration cycle possible are: heat always flows from a warmer to a cooler body, under lower pressure a refrigerant will absorb heat and vaporize at a low temperature, the vapors may be drawn off and condensed at a higher pressure and temperature to be used again.

The indoor evaporator coil functions to cool and dehumidify the air conditioned spaces through the evaporative process taking place within the coil tubes.

NOTE: The pressures and temperatures shown are for demonstration purposes only. Actual temperatures and pressures are to be obtained from the "Cooling Performance Chart."

Liquid refrigerant at condensing temperatures and pressure, 270 psig and 122°F . leaves the outdoor condensing coil through the drier and is metered into the indoor coil through the metering device. As the cool low pressure saturated refrigerant enters the tubes of the indoor coil, a portion of the liquid immediately vaporizes. It continues to soak up heat and vaporizes as it proceeds through the coil, cooling the indoor coil down to a 48°F . Temperature.

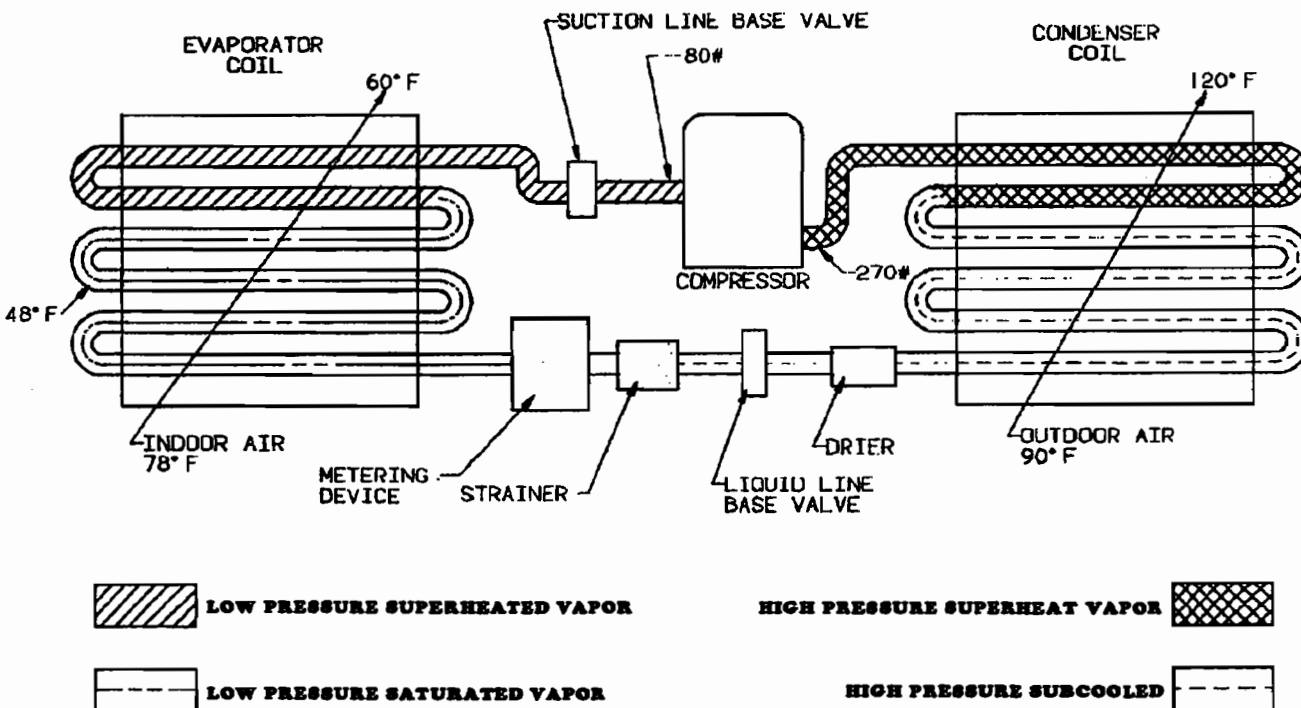
Heat is continually being transferred to the cool fins and tubes of the indoor evaporator coil by the warm system air. This warming process causes the refrigerant to boil. The heat removed from the air is carried off by the vapor.

As the vapor passes through the last tubes of the coil it becomes superheated, that is, it absorbs more heat than is necessary to vaporize it. This is assurance that only dry gas will reach the compressor. Liquid reaching the compressor can weaken or break compressor valves.

The compressor increases the pressure of the gas, thus adding more heat, and discharges hot, high pressure superheated gas into the outdoor condenser coil.

In the condenser coil, the hot refrigerant gas, being warmer than the outdoor air, first loses its superheat by heat transferred from the gas through the tubes and fins of the coil. The refrigerant now becomes saturated, part liquid, part vapor and then continues to give up heat until it condenses to a liquid alone. Once the vapor is fully liquefied, it continues to give up heat which subcools the liquid and it is ready to repeat the cycle.

SCHMATIC OF REFRIGERANT CHARGE.



SYSTEM OPERATION

COOLING CYCLE

The condensing unit is used in conjunction with an air handling device such as coil and blower assembly or coil and furnace, is controlled electrically by a room thermostat.

When the contacts of the room thermostat close making terminals R to Y to G, the low voltage circuit of the transformer is completed. A current now flows through the holding coils of the compressor contactor and fan relay.

This draws in the normally open contact CC₁ which is wired in series with the motors in the line voltage circuit, starting the compressor and condenser fan motors. At the same time thermostat energizes a fan relay which starts the fan motor of the remotely located evaporator unit.

When the thermostat is satisfied, it opens its contacts, breaking the low voltage circuit, causing the compressor contactor and indoor fan relay to open, stopping the system.

If the room thermostat fan selector switch should be set on the "ON" position then the indoor blower would run continuous rather than cycling with the compressor.

HEATING CYCLE

When the remote condensing unit and evaporator coil is used in conjunction with a gas, oil, or electric furnace; consult the manufacturers installation and service instructions for operation and proper room thermostat heat anticipator setting.

Universal Blower Unit for heating only, a single stage heating thermostat would be required. For heating and cooling a standard single stage heat and single stage cooling thermostat may be used.

When using a blower coil with optional field installed electric heat the thermostat calls for heat making terminals R to W₁, the low voltage (24 V.) circuit of the transformer is completed. A current now flows through the first stage heater time delay relay coil. After a predetermined time, the main set of contacts will close energizing the 4.8 KW heating element. Connected in parallel with the heating element is the heating fan relay coil (240 V.) who's contacts will also close starting the indoor blower motor. An auxiliary set of contacts within the Time Delay Relay will now close completing the circuit (24 V) to the second stage time delay relay coil. After a predetermined time the main contacts of the second time delay relay will close energizing the second 4.8KW heating element.

If additional 4.8KW heaters are field installed, they would be energized in the same sequence.

Provisions are made at the low voltage connection board so that outdoor temperature controls may also be field installed. These in turn would limit the number of heaters which could cycle in relation to the outdoor temperature settings. Consult the Specification Section, Wiring Diagrams, etc. for the maximum number of heating elements that may be installed, proper motor speeds for air requirements and room thermostat heat anticipator settings.

SYSTEM OPERATION

ELECTRIC HEATERS

Optional electric heaters may be added, in the quantities shown in the specifications section to provide electric resistance heating. Under no condition shall more heaters than the quantity shown be installed.

The low voltage circuit in the air handler is factory wired and terminates at the location provided for the electric heater(s). A minimum of field wiring is required to complete the installation.

Other components such as a Heating/Cooling Thermostat, Outdoor Thermostat, and Emergency Heat Relays are available to complete the installation.

The system CFM can be determined by measuring the static pressure external to the unit. The installation manual supplied with the blower coil shows the CFM for the static measured.

Alternately, the system CFM can be determined by operating the electric heaters and indoor blower WITHOUT having the compressor in operation. Measure the temperature rise as close to the blower inlet and outlet as possible.

If other than a 240V power supply is used, refer to the **BTUH CAPACITY CORRECTION FACTOR** chart below.

EXAMPLE: Five (5) heaters provide 24.0 KW at the rated 240V. Our actual measured voltage is 220V, and our measured temperature rise is 42°F. Find the actual CFM:

Answer: 24.0KW, 42°F Rise, 240 V = 1800 CFM from the **TEMPERATURE RISE** chart below.

Heating output at 220 V = 24.0 x 3.413 x .84 = 68.8 MBh.

Actual CFM = 1800 x .84 = 1400 CFM.

NOTE: The temperature rise tables is for sea level installations. The temperature rise at a particular KW and CFM will be greater at high altitudes, while the external static pressure at a particular CFM will be less.

FORMULAS:

$$\text{Heating Output} = \text{KW} \times 3413 \times \text{Corr. Factor}$$

$$\text{Actual CFM} = \text{CFM (from table)} \times \text{Corr. Factor}$$

$$\text{BTUH} = \text{KW} \times 3413$$

$$\text{BTUH} = \text{CFM} \times 1.08 \times \text{Temperature Rise } (\Delta T)$$

$$\text{CFM} = \frac{\text{KW} \times 3413}{1.08 \times \Delta T}$$

$$\Delta T = \frac{\text{BTUH}}{\text{CFM} \times 1.08}$$

TEMPERATURE RISE (F°) @ 240V						
CFM	4.8 KW	9.6 KW	14.4 KW	19.2 KW	24.0 KW	28.8 KW
600	25	51	-	-	-	-
700	22	43	-	-	-	-
800	19	38	57	-	-	-
900	17	34	51	-	-	-
1000	15	30	46	-	-	-
1100	14	27	41	55	-	-
1200	13	25	38	50	-	-
1300	12	23	35	46	-	-
1400	11	22	32	43	54	65
1500	10	20	30	40	50	60
1600	9	19	28	38	47	57
1700	9	18	27	36	44	53
1800	8	17	25	34	42	50
1900	8	16	24	32	40	48
2000	8	15	23	30	38	45
2100	7	14	22	29	36	43
2200	7	14	21	27	34	41
2300	7	13	20	26	33	39

BTUH CAPACITY CORRECTION FACTOR				
SUPPLY VOLTAGE	250	230	220	208
MULTIPLICATION FACTOR	1.08	.92	.84	.75

ELECTRIC HEATER CAPACITY BTUH							
HTR KW	4.8 KW	7.3 KW	9.6 KW	14.4 KW	19.2 KW	24.0 KW	28.8 KW
BTUH	16380	24915	32765	49150	65530	81915	98295

BLOWER PERFORMANCE

EXT. S.P. "W.C.	BCAA18C002A/B			BCAA24C002A/B			BCAA24T002A OR 1A		
	LOW SPEED		HIGH*	HIGH SPEED		HIGH*	LOW SPEED		HIGH*
	WET	DRY	DRY	WET	DRY	DRY	WET	DRY	DRY
.10	535	545	875	900	905	900	840	860	1405
.15	545	540	870	905	900	895	850	865	1405
.20	555	545	860	910	895	890	860	870	1400
.25	565	550	850	900	885	885	865	875	1390
.30	575	555	840	895	875	875	870	880	1375
.35	585	565	825	885	865	870	875	880	1365
.40	600	575	815	875	850	855	880	880	1330

EXT. S.P. "W.C.	BCAA30C002A/B BCAA30T002A OR 1A			BCAA36C002A/B BCAA36T002A OR 1A		
	LOW SPEED		HIGH**	HIGH SPEED		HIGH*
	WET	DRY	DRY	WET	DRY	DRY
.10	865	865	1370	1375	1360	1370
.15	875	875	1365	1365	1365	1375
.20	880	880	1365	1350	1370	1375
.25	885	885	1360	1335	1375	1370
.30	890	890	1355	1320	1375	1365
.35	900	900	1350	1300	1370	1360
.40	890	890	1340	1275	1360	1345

*AHK4 HEATER KIT INSTALLED

**AHK5 HEATER KIT INSTALLED

BLOWER PERFORMANCE

MODEL

BCEA24T001A
EBCC2400MBM/MDM

BCEA30/36T001A
EBCC3000/3600MBM/MDM

EXT. S.P. "W.C.	LOW SPEED		HIGH SPEED		LOW SPEED		HIGH SPEED	
	WET	DRY	WET	DRY	WET	DRY	WET	DRY
.15	720	730	915	955	1130	1165	1275	1325
.20	710	725	890	935	1110	1145	1245	1295
.25	700	720	865	910	1090	1130	1215	1270
.30	685	710	835	885	1070	1110	1190	1240
.40	650	685	770	835	1025	1070	1125	1185
.50	590	645	690	775	970	1020	1060	1120
.60	555	615	600	685	900	960	980	1050

MODEL

EBCC4200/4800MBM/MDM

EBCC600MBM/MDM

EXT. S.P. "W.C.	LOW SPEED		HIGH SPEED		HIGH SPEED	
	WET	DRY	WET	DRY	WET	DRY
.15	1610	1665	1735	1770		
.20	1580	1640	1710	1745	1955	2040
.25	1555	1610	1685	1715	1915	2005
.30	1530	1585	1665	1695	1875	1965
.40	1470	1530	1655	1670	1785	1885
.50	1415	1475	1640	1650	1685	1795
.60	1360	1420	1620	1630	1580	1695

EXT. S.P. "W.C.	BECA42T002A/B BCEA48T002A		BCEA48T002B			BCEA60T002A/B	
	COOLING LO SPEED WET COIL or 0-19.2KW	HEATING HI SPEED 19.2-28.8KW	LO SPEED	COOLING HI SPEED WET COIL	HEATING HI SPEED 0-28.8KW	COOLING LOW SPEED WET COIL	HEATING HI SPEED 0-28.8KW
.10	1590	2070	1585	2180	2010	-	2490
.20	1580	2030	1875	2130	1940	2000	2450
.30	1550	1960	1570	2060	1870	2000	2380
.40	1520	1880	1550	2000	1810	1995	2320
.50	1490	1820	1485	1920	1720	1975	2260
.60	1430	1740	1475	1830	1630	1950	2190

"A" COIL PRESSURE DROP DATA

ACFC18AOVB/D 24AOVB
VCFC18/24AOVA/B

STATIC PRESSURE DROP ACROSS COIL	WET COIL CFM	DRY COIL CFM
.05	-	550
.075	380	690
.10	500	820
.125	620	950
.15	750	1060
.175	880	1160

SCFC36AOVB/D ACFC26AOVD

STATIC PRESSURE DROP ACROSS COIL	WET COIL CFM	DRY COIL CFM
.10	-	1230
.125	750	1390
.15	900	1550
.175	1050	1700
.20	1200	1840
.225	1350	1960

SCFC42AUMA/B/D 48AUMA/B
ECFC42/48AUM

STATIC PRESSURE DROP ACROSS COIL	WET COIL CFM	DRY COIL CFM
.05	-	-
.10	-	-
.15	-	1360
.20	1080	1620
.25	1360	1850
.30	1630	2040

SCFC18/24AOVA/B/D

STATIC PRESSURE DROP ACROSS COIL	WET COIL CFM	DRY COIL CFM
.05	370	580
.10	620	880
.15	800	1130
.20	960	1310
.25	-	-
.30	-	-

SCFC42AOVB/D SCFC48AOVB
ACFC42AOVA/D ACFC48AOVA

STATIC PRESSURE DROP ACROSS COIL	WET COIL CFM	DRY COIL CFM
.175	1020	1600
.20	1160	1740
.225	1310	1870
.25	1460	1990
.275	1600	2100
.30	1750	2200

SCFC48AUMD 60AUMA/B/D
ECFC60AUM

STATIC PRESSURE DROP ACROSS COIL	WET COIL CFM	DRY COIL CFM
.05	-	-
.10	-	-
.15	-	1570
.20	1210	1860
.25	1520	2120
.30	1820	2340

SCFC30AOVB/D ACFC24AOVD
ACFC30AOVA/B/DACFC36AOVB
VCFC30/36AOVA/B

STATIC PRESSURE DROP ACROSS COIL	WET COIL CFM	DRY COIL CFM
.10	530	840
.125	660	970
.15	790	1080
.175	920	1190
.20	1050	1290
.225	1180	1380

SCFC42AOVB/D SCFC48AOVB
ACFC42AOVA/D ACFC48AOVA

STATIC PRESSURE DROP ACROSS COIL	WET COIL CFM	DRY COIL CFM
.175	1080	1750
.20	1230	1890
.225	1390	2020
.25	1540	2150
.275	1700	2270
.30	1850	2380

"A" COIL PRESSURE DROP DATA

SCFC18/24HOHC/D
ACFC/VCFC18/24HOHA/B

STATIC PRESSURE DROP ACROSS COIL	WET COIL CFM	DRY COIL CFM
.05	220	560
.10	490	825
.15	735	1050
.20	945	1210
.25	1120	1375
.30	1280	1535

SCFC36HOHE

STATIC PRESSURE DROP ACROSS COIL	WET COIL CFM	DRY COIL CFM
.05	-	-
.10	500	900
.15	740	1200
.20	1080	1460
.25	1370	1700
.30	1630	1900

SCFC30HOHC/D
ACFC/VCFC30/36HOHA/B

STATIC PRESSURE DROP ACROSS COIL	WET COIL CFM	DRY COIL CFM
.05	-	-
.10	550	640
.15	760	870
.20	940	1060
.25	1080	1190
.30	1190	1270

SCFC42HOHC/D 48HOHC

STATIC PRESSURE DROP ACROSS COIL	WET COIL CFM	DRY COIL CFM
.05	-	-
.10	1240	1375
.15	1600	1750
.20	1900	2080
.25	2110	2350
.30	2390	2600

SCFC36HOHC/D

STATIC PRESSURE DROP ACROSS COIL	WET COIL CFM	DRY COIL CFM
.05	-	-
.10	890	1215
.15	1200	1540
.20	1470	1820
.25	1700	2080
.30	1900	2295

SCFC48HOHD 60HOHC/D

STATIC PRESSURE DROP ACROSS COIL	WET COIL CFM	DRY COIL CFM
.05	-	-
.10	1030	1265
.15	1380	1615
.20	1690	1920
.25	1960	2165
.30	2200	2410

COOLING PERFORMANCE DATA

ZRCF24U01D w/ SCFC24AOVD
800 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
2850 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	27	26800	23550	3250	143	75	6.5	1405
	67	21	27050	18450	8600	142	76	6.5	1405
	72	15	27200	13300	13900	143	77	6.5	1410
	77	10	27350	8550	18800	143	77	6.5	1405
65	62	27	26450	23400	3050	154	76	6.8	1475
	67	21	26650	19300	8350	155	77	6.8	1480
	72	15	26800	13150	13650	155	77	6.8	1480
	77	10	26950	8450	18500	155	77	6.8	1480
70	62	27	26050	23250	2800	167	76	7.1	1555
	67	21	26300	18150	8150	167	77	7.1	1555
	72	15	26450	13050	13400	167	78	7.1	1555
	77	10	26550	8350	18200	168	78	7.1	1555
75	62	27	25650	23100	2550	180	77	7.4	1635
	67	21	25900	18000	7900	181	78	7.4	1635
	72	15	26050	12900	13150	181	78	7.4	1635
	77	9	26150	8200	17950	181	78	7.4	1635
80	62	27	25250	22950	2300	194	77	7.7	1715
	67	21	25500	17850	7650	194	78	7.7	1720
	72	15	25650	12800	12850	195	79	7.8	1720
	77	9	25750	8100	17650	195	79	7.8	1725
85	62	26	24850	22800	2050	209	78	8.1	1810
	67	20	25050	17700	7350	209	79	8.1	1810
	72	15	25200	12650	12550	209	79	8.1	1810
	77	9	25350	8000	17350	210	80	8.1	1815
90	62	26	24400	22600	1800	224	79	8.5	1905
	67	20	24650	17550	7100	224	79	8.5	1905
	72	14	24750	12500	12250	225	80	8.5	1910
	77	9	24900	7850	17050	225	80	8.5	1910
95	62	26	24000	22450	1550	240	79	8.9	2005
	67	20	24200	17400	6800	241	80	8.9	2010
	72	14	24300	12350	11950	241	80	8.9	2010
	77	9	24450	7750	16700	241	81	8.9	2010
100	62	26	23500	22250	1250	256	80	9.3	2110
	67	20	23700	17250	6450	257	81	9.3	2110
	72	14	23850	12200	11650	257	81	9.3	2115
	77	9	23950	7600	16350	258	82	9.4	2120
105	62	25	23050	22050	1000	273	81	9.8	2220
	67	20	23250	17050	6200	274	81	9.8	2225
	72	14	23350	12050	11300	274	82	9.8	2225
	77	9	23450	7450	16000	275	82	9.8	2230
110	62	25	22500	21850	650	292	81	10.3	2335
	67	19	22700	16850	5850	292	82	10.3	2340
	72	14	22850	11900	10950	292	83	10.3	2340
	77	8	22950	7350	15600	292	83	10.3	2345
115	62	25	21950	21650	300	310	82	10.8	2455
	67	19	22150	16650	5500	311	83	10.8	2460
	72	14	22300	11700	10600	311	83	10.8	2460
	77	8	22400	7200	15200	311	84	10.8	2465

COOLING PERFORMANCE DATA

ZRCF30U01D w/ SCFC30AOVD

1000 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B

3050 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	29	32950	29700	3250	142	76	8.3	1655
	67	22	33300	23200	10100	142	76	8.3	1655
	72	16	33450	16700	16750	143	77	8.3	1660
	77	10	33650	10700	22950	142	77	8.3	1655
65	62	29	32550	29550	3000	154	76	8.6	1740
	67	22	32850	23050	9800	154	77	8.6	1740
	72	16	33050	16550	16500	154	77	8.6	1740
	77	10	33200	10550	22650	155	78	8.6	1745
70	62	28	32100	29350	2750	167	77	8.9	1830
	67	22	32400	22900	9500	167	77	8.9	1830
	72	16	32600	16400	16200	167	78	8.9	1830
	77	10	32800	10450	22350	167	78	8.9	1830
75	62	28	31650	29200	2450	180	77	9.2	1920
	67	22	31950	22700	9250	180	78	9.2	1920
	72	16	32150	16250	15900	180	78	9.2	1925
	77	10	32300	10300	22000	181	79	9.2	1925
80	62	28	31200	29000	2200	194	78	9.6	2020
	67	22	31500	22550	8950	194	78	9.6	2020
	72	16	31700	16100	15600	194	79	9.6	2020
	77	10	31850	10200	21650	195	79	9.6	2025
85	62	28	30750	28800	1950	208	78	10.0	2120
	67	22	31000	22350	8650	209	79	10.0	2125
	72	15	31200	15950	15250	209	79	10.0	2125
	77	10	31350	10050	21300	209	80	10.0	2125
90	62	28	30250	28600	1650	223	79	10.4	2225
	67	21	30500	22200	8300	224	79	10.4	2230
	72	15	30700	15800	14900	224	80	10.4	2235
	77	10	30850	9900	20950	225	80	10.4	2235
95	62	27	29700	28400	1300	240	79	10.9	2340
	67	21	30000	22000	8000	240	80	10.9	2345
	72	15	30200	15600	14600	240	80	10.9	2345
	77	9	30350	9750	20600	240	81	10.9	2345
100	62	27	29200	28200	1000	256	80	11.4	2460
	67	21	29500	21800	7700	256	81	11.4	2460
	72	15	29650	15450	14200	256	81	11.4	2460
	77	9	29800	9600	20200	257	81	11.4	2465
105	62	27	28700	28000	700	273	81	12.0	2585
	67	21	28950	21650	7300	273	81	12.0	2585
	72	15	29150	15300	13850	274	82	12.0	2590
	77	9	29300	9450	19850	274	82	12.0	2595
110	62	27	28150	27750	400	291	81	12.6	2715
	67	21	28450	21450	7000	291	82	12.6	2715
	72	15	28600	15100	13500	292	82	12.6	2720
	77	9	28750	9300	19450	292	83	12.6	2720
115	62	27	27600	27550	50	310	82	13.2	2850
	67	21	27900	21250	6650	310	82	13.3	2855
	72	14	28050	14950	13100	311	83	13.3	2855
	77	9	28250	9200	19050	310	83	13.3	2855

COOLING PERFORMANCE DATA

ZRCF36U01D w/ SCFC36AOVD
1200 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
3050 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	29	39550	35300	4250	150	70	9.7	2050
	67	22	40000	27600	12400	150	71	9.7	2050
	72	16	40300	19900	20400	151	72	9.6	2050
	77	10	40550	12750	27800	151	72	9.6	2055
65	62	29	38900	35050	3850	162	71	10.0	2130
	67	22	39350	27350	12000	162	72	9.9	2130
	72	16	39650	19650	20000	163	72	9.9	2135
	77	10	39900	12600	27300	163	73	9.9	2135
70	62	28	38300	34800	3500	175	72	10.3	2220
	67	22	38700	27100	11600	176	72	10.3	2225
	72	16	39000	19450	19550	175	73	10.3	2220
	77	10	39250	12400	26850	176	73	10.3	2225
75	62	28	37700	34550	3150	189	72	10.7	2320
	67	22	38050	26900	11150	189	73	10.7	2325
	72	16	38350	19250	19100	190	73	10.7	2325
	77	10	38600	12200	26400	190	74	10.7	2325
80	62	28	37100	34300	2800	202	73	11.2	2425
	67	22	37450	26650	10800	203	73	11.2	2430
	72	16	37700	19050	18650	203	74	11.2	2435
	77	10	37900	12000	25900	204	74	11.2	2440
85	62	28	36500	34050	2450	217	73	11.7	2545
	67	22	36850	26450	10400	218	74	11.7	2550
	72	15	37100	18850	18250	218	74	11.7	2555
	77	10	37300	11850	25450	219	75	11.7	2560
90	62	28	35850	33800	2050	233	74	12.3	2680
	67	21	36200	26200	10000	234	74	12.3	2685
	72	15	36450	18650	17800	234	75	12.3	2685
	77	10	36650	11650	25000	234	75	12.3	2690
95	62	27	35250	33600	1650	250	74	12.9	2825
	67	21	35600	26000	9600	250	75	12.9	2825
	72	15	35800	18450	17350	251	75	12.9	2830
	77	9	36000	11500	24500	251	76	12.9	2835
100	62	27	34650	33350	1300	267	75	13.6	2970
	67	21	35000	25800	9200	267	76	13.6	2975
	72	15	35200	18250	16950	267	76	13.6	2980
	77	9	35400	11300	24100	268	76	13.6	2985
105	62	27	34050	33100	950	284	75	14.3	3130
	67	21	34350	25550	8800	285	76	14.3	3140
	72	15	34550	18050	16500	285	77	14.3	3145
	77	9	34750	11150	23600	285	77	14.3	3150
110	62	27	33450	32850	600	303	76	15.0	3310
	67	21	33700	25350	8350	304	77	15.1	3320
	72	15	33900	17850	16050	304	77	15.1	3320
	77	9	34100	10950	23150	304	78	15.1	3325
115	62	27	32800	32600	200	322	77	15.9	3495
	67	20	33050	25100	7950	322	77	15.9	3500
	72	14	33250	17650	15600	322	78	15.9	3500
	77	9	33400	10800	22600	323	78	15.9	3510

COOLING PERFORMANCE DATA

ZRCF42U01D w/ SCFC42AOVD

1400 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B

3800 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	29	46250	43250	3000	147	71	12.0	2475
	67	23	46650	33750	12900	147	71	12.1	2480
	72	16	46950	24300	22650	147	72	12.1	2485
	77	10	47250	15600	31650	147	72	12.1	2485
65	62	29	45550	42950	2600	159	71	12.4	2560
	67	22	46000	33500	12500	159	72	12.4	2560
	72	16	46250	24050	22200	159	72	12.4	2560
	77	10	46500	15350	31150	160	72	12.4	2560
70	62	29	44850	42650	2200	171	72	12.8	2650
	67	22	45250	33200	12050	172	72	12.9	2655
	72	16	45550	23800	21750	172	73	12.9	2655
	77	10	45750	15150	30600	172	73	12.9	2655
75	62	28	44150	42350	1800	185	72	13.3	2760
	67	22	44500	32950	11550	185	73	13.3	2760
	72	16	44800	23550	21250	185	73	13.3	2760
	77	10	45000	14950	30050	186	73	13.3	2765
80	62	28	43400	42050	1350	199	73	13.8	2880
	67	22	43800	32650	11150	199	73	13.8	2885
	72	16	44050	23300	20750	199	74	13.8	2880
	77	10	44250	14700	29550	200	74	13.9	2885
85	62	28	42700	41750	950	213	73	14.4	3015
	67	22	43050	32400	10650	214	74	14.4	3020
	72	15	43250	23050	20200	214	74	14.4	3025
	77	10	43500	14500	29000	214	75	14.4	3020
90	62	28	41950	41450	500	228	74	15.0	3165
	67	21	42300	32100	10200	229	74	15.0	3170
	72	15	42500	22800	19700	229	75	15.0	3175
	77	10	42700	14250	28450	230	75	15.1	3180
95	62	28	41200	41100	100	245	74	15.7	3335
	67	21	41500	31800	9700	245	75	15.7	3340
	72	15	41700	22550	19150	246	75	15.7	3350
	77	9	41900	14050	27850	245	76	15.7	3345
100	62	27	40400	40400	0	261	75	16.4	3520
	67	21	40700	31500	9200	262	76	16.4	3525
	72	15	40900	22250	18650	262	76	16.5	3530
	77	9	41100	13800	27300	262	76	16.4	3525
105	62	27	39600	39600	0	279	76	17.2	3710
	67	21	39900	31200	8700	279	76	17.2	3715
	72	15	40050	22000	18050	279	77	17.2	3720
	77	9	40250	13550	26700	280	77	17.2	3725
110	62	27	38750	38750	0	296	76	18.0	3915
	67	21	39000	30850	8150	297	77	18.0	3925
	72	15	39200	21700	17500	297	77	18.0	3920
	77	9	39350	13300	26050	298	78	18.0	3920
115	62	27	37850	37850	0	316	77	18.9	4135
	67	20	38100	30550	7550	316	78	18.9	4130
	72	14	38250	21400	16850	316	78	18.9	4130
	77	9	38400	13050	25350	316	78	18.9	4130

COOLING PERFORMANCE DATA

ZRCF48U01A w/ SCFC48AOVE/F
1500 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
4070 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	30	54100	45700	8400	153	75	13.1	2705
	67	23	54550	35950	18600	153	75	13.1	2710
	72	17	54800	26150	28650	153	76	13.1	2715
	77	11	55050	17100	37950	154	76	13.2	2720
65	62	29	53450	45450	8000	166	75	14.0	2895
	67	23	53850	35650	18200	166	76	14.0	2900
	72	17	54100	25900	28200	166	76	14.1	2905
	77	11	54350	16900	37450	166	77	14.1	2905
70	62	29	52700	45150	7550	179	76	15.0	3085
	67	23	53100	35400	17700	179	76	15.0	3095
	72	17	53350	25650	27700	180	77	15.0	3100
	77	11	53550	16650	36900	180	77	15.0	3105
75	62	29	51950	44850	7100	193	76	15.9	3285
	67	23	52300	35100	17200	194	77	16.0	3295
	72	16	52600	25400	27200	193	77	16.0	3290
	77	11	52800	16450	36350	194	78	16.0	3295
80	62	29	51150	44500	6650	208	77	16.9	3485
	67	23	51500	34800	16700	208	77	16.9	3490
	72	16	51800	25150	26650	208	78	16.9	3490
	77	11	52000	16200	35800	208	78	17.0	3490
85	62	29	50350	44200	6150	223	77	17.9	3675
	67	22	50750	34550	16200	223	78	17.9	3685
	72	16	50950	24850	26100	224	78	17.9	3690
	77	10	51150	15950	35200	224	79	18.0	3700
90	62	28	49500	43850	5650	239	78	18.9	3885
	67	22	49900	34200	15700	239	78	18.9	3885
	72	16	50100	24600	25500	240	79	18.9	3895
	77	10	50300	15750	34550	239	79	18.9	3890
95	62	28	48650	43500	5150	255	78	19.8	4085
	67	22	49000	33900	15100	256	79	19.9	4095
	72	16	49250	24300	24950	256	79	19.9	4095
	77	10	49400	15500	33900	257	80	19.9	4105
100	62	28	47800	43150	4650	272	79	20.9	4290
	67	22	48100	33550	14550	274	80	20.9	4305
	72	16	48300	24050	24250	274	80	20.9	4305
	77	10	48550	15250	33300	273	80	20.9	4305
105	62	28	46850	42800	4050	291	80	21.9	4510
	67	22	47200	33250	13950	291	80	22.0	4515
	72	15	47400	23750	23650	292	81	22.0	4520
	77	10	47600	15000	32600	291	81	22.0	4520
110	62	28	45950	42450	3500	309	80	23.0	4720
	67	21	46250	32900	13350	310	81	23.0	4735
	72	15	46500	23450	23050	310	81	23.1	4740
	77	10	46700	14700	32000	310	82	23.1	4740
115	62	27	45050	42100	2950	328	81	24.1	4940
	67	21	45350	32600	12750	329	81	24.1	4960
	72	15	45600	23150	22450	329	82	24.1	4955
	77	9	45800	14500	31300	329	82	24.2	4960

COOLING PERFORMANCE DATA

ZRCF60U01A w/ SCFC60AOVD

1800 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B

4400 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	30	64100	54900	9200	154	71	14.7	3460
	67	23	64700	43150	21550	154	72	14.7	3470
	72	17	65100	31400	33700	155	73	14.7	3475
	77	11	65450	20500	44950	155	73	14.7	3485
65	62	29	63250	54550	8700	167	72	15.3	3635
	67	23	63850	42850	21000	167	73	15.3	3645
	72	17	64250	31100	33150	168	73	15.3	3650
	77	11	64600	20250	44350	168	74	15.3	3655
70	62	29	62350	54200	8150	180	72	15.9	3815
	67	23	62950	42500	20450	180	73	15.9	3825
	72	17	63350	30800	32550	181	74	16.0	3835
	77	11	63700	19950	43750	181	74	16.0	3840
75	62	29	61450	53850	7600	194	73	16.6	4010
	67	23	62050	42200	19850	194	74	16.7	4020
	72	16	62450	30500	31950	194	74	16.6	4020
	77	11	62750	19700	43050	195	75	16.7	4030
80	62	29	60500	53450	7050	208	74	17.4	4220
	67	23	61100	41850	19250	209	74	17.4	4225
	72	16	61450	30200	31250	209	75	17.4	4235
	77	11	61800	19450	42350	209	75	17.4	4235
85	62	29	59500	53050	6450	223	74	18.2	4435
	67	22	60100	41450	18650	224	75	18.2	4440
	72	16	60500	29850	30650	224	75	18.2	4445
	77	10	60750	19150	41600	225	76	18.2	4455
90	62	28	58500	52650	5850	239	75	19.0	4665
	67	22	59050	41100	17950	240	75	19.0	4675
	72	16	59400	29500	29900	240	76	19.0	4675
	77	10	59750	18850	40900	240	76	19.1	4680
95	62	28	57450	52250	5200	255	75	19.9	4900
	67	22	58000	40700	17300	256	76	19.9	4910
	72	16	58350	29150	29200	256	76	19.9	4915
	77	10	58650	18550	40100	257	77	19.9	4920
100	62	28	56400	51800	4600	272	76	20.8	5150
	67	22	56900	40300	16600	273	77	20.8	5165
	72	16	57200	28800	28400	273	77	20.8	5170
	77	10	57500	18200	39300	274	78	20.9	5180
105	62	28	55250	51350	3900	290	77	21.7	5415
	67	22	55700	39850	15850	291	77	21.8	5435
	72	15	56100	28450	27650	291	78	21.8	5435
	77	10	56350	17900	38450	291	78	21.8	5445
110	62	28	54050	50900	3150	308	77	22.8	5700
	67	21	54550	39450	15100	309	78	22.8	5715
	72	15	54850	28050	26800	310	78	22.9	5730
	77	9	55150	17550	37600	309	79	22.9	5730
115	62	27	52800	50400	2400	328	78	23.9	6005
	67	21	53300	39000	14300	328	79	23.9	6015
	72	15	53600	27650	25950	329	79	24.0	6035
	77	9	53900	17200	36700	329	80	24.0	6040

COOLING PERFORMANCE DATA

SRCF24U01D w/ SCFC24AOVD

800 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B

2850 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	28	27600	23550	4050	144	74	6.9	1450
	67	22	27850	18450	9400	145	75	6.9	1445
	72	16	28050	13400	14650	145	75	6.9	1445
	77	10	28250	8650	19600	146	76	7.0	1445
65	62	28	26950	23300	3650	156	75	7.3	1545
	67	22	27200	18200	9000	157	76	7.3	1545
	72	16	27400	13150	14250	157	76	7.3	1545
	77	10	27600	8500	19100	157	77	7.3	1545
70	62	28	26300	23000	3300	169	76	7.6	1640
	67	22	26600	18000	8600	169	77	7.6	1635
	72	16	26750	12950	13800	169	77	7.6	1640
	77	10	26900	8300	18600	170	78	7.7	1640
75	62	27	25650	22800	2850	181	77	8.0	1725
	67	21	25900	17750	8150	182	78	8.0	1730
	72	15	26050	12750	13300	182	78	8.0	1735
	77	10	26200	8100	18100	183	78	8.0	1735
80	62	27	25000	22500	2500	195	78	8.3	1815
	67	21	25200	17500	7700	196	79	8.3	1820
	72	15	25400	12500	12900	196	79	8.3	1820
	77	10	25550	7900	17650	196	79	8.3	1820
85	62	27	24300	22250	2050	210	79	8.7	1895
	67	21	24550	17300	7250	210	79	8.7	1895
	72	15	24700	12300	12400	210	80	8.7	1900
	77	9	24850	7750	17100	210	80	8.7	1900
90	62	27	23650	22000	1650	224	80	9.0	1970
	67	21	23850	17050	6800	225	80	9.0	1975
	72	15	24050	12100	11950	225	81	9.0	1975
	77	9	24150	7550	16600	226	81	9.0	1980
95	62	26	23000	21750	1250	240	81	9.3	2040
	67	20	23200	16800	6400	240	81	9.3	2045
	72	14	23350	11900	11450	241	82	9.3	2050
	77	9	23450	7350	16100	241	82	9.3	2050
100	62	26	22300	21450	850	256	82	9.6	2110
	67	20	22500	16550	5950	256	82	9.6	2115
	72	14	22650	11650	11000	256	83	9.6	2115
	77	9	22800	7200	15600	256	83	9.7	2120
105	62	26	21550	21200	350	272	83	9.9	2180
	67	20	21750	16300	5450	273	83	10.0	2185
	72	14	21900	11450	10450	273	84	10.0	2190
	77	8	22050	7000	15050	273	84	10.0	2190
110	62	25	20850	20850	0	289	84	10.2	2250
	67	19	21050	16050	5000	289	84	10.2	2260
	72	13	21150	11200	9950	290	85	10.3	2265
	77	8	21250	6750	14500	290	85	10.3	2275
115	62	25	20050	20050	0	306	85	10.5	2330
	67	19	20200	15750	4450	307	86	10.5	2345
	72	13	20300	10950	9350	308	86	10.5	2360
	77	8	20400	6550	13850	308	87	10.6	2370

COOLING PERFORMANCE DATA

SRCF24U01D w/ SCFC24HOHD

800 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B

2850 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	28	27050	23100	3950	143	74	6.7	1415
	67	22	27400	18100	9300	144	75	6.7	1405
	72	16	27600	13100	14500	144	75	6.7	1405
	77	10	27800	8450	19350	145	76	6.7	1400
65	62	27	26450	22850	3600	155	75	7.0	1505
	67	21	26800	17900	8900	155	76	7.0	1500
	72	15	27000	12900	14100	156	76	7.0	1500
	77	10	27200	8300	18900	156	77	7.0	1500
70	62	27	25850	22600	3250	168	76	7.3	1600
	67	21	26150	17650	8500	168	77	7.3	1600
	72	15	26350	12700	13650	169	77	7.4	1600
	77	10	26550	8100	18450	169	78	7.4	1600
75	62	27	25200	22400	2800	181	77	7.7	1690
	67	21	25500	17450	8050	182	78	7.7	1695
	72	15	25700	12500	13200	182	78	7.7	1700
	77	9	25900	7950	17950	182	79	7.7	1700
80	62	26	24600	22150	2450	195	78	8.0	1780
	67	21	24850	17200	7650	196	79	8.0	1785
	72	15	25050	12300	12750	195	79	8.0	1785
	77	9	25250	7750	17500	196	79	8.0	1785
85	62	26	23950	21900	2050	209	79	8.3	1865
	67	20	24250	17000	7250	209	79	8.3	1865
	72	14	24400	12100	12300	210	80	8.4	1870
	77	9	24550	7600	16950	210	80	8.4	1875
90	62	26	23350	21650	1700	224	80	8.7	1940
	67	20	23600	16750	6850	225	80	8.7	1945
	72	14	23750	11900	11850	225	81	8.7	1945
	77	9	23900	7400	16500	225	81	8.7	1950
95	62	26	22700	21400	1300	240	81	9.0	2015
	67	20	22950	16550	6400	240	81	9.0	2020
	72	14	23100	11700	11400	241	82	9.0	2025
	77	9	23250	7250	16000	241	82	9.0	2025
100	62	25	22000	21150	850	256	82	9.3	2085
	67	19	22250	16300	5950	256	82	9.3	2090
	72	14	22400	11500	10900	257	83	9.3	2090
	77	8	22550	7050	15500	257	83	9.4	2095
105	62	25	21350	20900	450	273	83	9.6	2155
	67	19	21550	16050	5500	273	83	9.6	2160
	72	13	21700	11250	10450	274	84	9.6	2165
	77	8	21850	6850	15000	274	84	9.7	2170
110	62	25	20650	20650	0	290	84	9.9	2225
	67	19	20850	15850	5000	290	85	9.9	2230
	72	13	21000	11050	9950	291	85	9.9	2240
	77	8	21100	6650	14450	292	85	10.0	2245
115	62	24	19950	19950	0	307	85	10.2	2300
	67	19	20150	15600	4550	308	86	10.2	2315
	72	13	20250	10850	9400	308	86	10.2	2325
	77	8	20350	6450	13900	309	87	10.2	2335

COOLING PERFORMANCE DATA

SRCF24U01D w/ BCEA24T001A, or BCAA24T001A/B, or 2A/B, or EBCC2400MDM
800 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
2850 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	28	27500	23500	4000	144	74	7.0	1755
	67	22	27850	18450	9400	144	75	7.0	1745
	72	16	28050	13350	14700	145	75	7.0	1740
	77	10	28200	8650	19550	145	76	7.0	1745
65	62	28	26900	23250	3650	156	75	7.3	1845
	67	22	27200	18200	9000	156	76	7.3	1840
	72	16	27400	13150	14250	157	76	7.3	1840
	77	10	27600	8500	19100	157	77	7.3	1835
70	62	28	26250	23000	3250	169	76	7.7	1935
	67	22	26550	18000	8550	169	77	7.7	1930
	72	16	26700	12950	13750	169	77	7.7	1935
	77	10	26900	8300	18600	169	78	7.7	1930
75	62	27	25600	22750	2850	182	77	8.0	2020
	67	21	25900	17750	8150	182	78	8.0	2020
	72	15	26050	12750	13300	182	78	8.0	2025
	77	10	26200	8100	18100	182	78	8.0	2025
80	62	27	24950	22500	2450	195	78	8.3	2105
	67	21	25200	17500	7700	196	79	8.3	2110
	72	15	25400	12550	12850	195	79	8.3	2105
	77	10	25500	7900	17600	196	79	8.4	2110
85	62	27	24300	22250	2050	210	79	8.7	2185
	67	21	24550	17250	7300	210	79	8.7	2190
	72	15	24700	12300	12400	210	80	8.7	2190
	77	9	24850	7750	17100	210	80	8.7	2190
90	62	27	23650	22000	1650	224	80	9.0	2260
	67	21	23900	17050	6850	224	80	9.0	2260
	72	15	24050	12100	11950	225	81	9.0	2265
	77	9	24150	7550	16600	225	81	9.0	2270
95	62	26	23000	21750	1250	239	81	9.3	2330
	67	20	23200	16800	6400	240	81	9.3	2335
	72	14	23350	11900	11450	240	82	9.3	2335
	77	9	23500	7350	16150	240	82	9.3	2335
100	62	26	22300	21500	800	256	82	9.6	2400
	67	20	22500	16550	5950	256	82	9.6	2400
	72	14	22650	11650	11000	256	83	9.6	2405
	77	9	22750	7150	15600	256	83	9.7	2405
105	62	26	21600	21200	400	272	83	9.9	2460
	67	20	21800	16300	5500	272	83	9.9	2465
	72	14	21950	11450	10500	272	84	9.9	2470
	77	8	22050	7000	15050	273	84	10.0	2475
110	62	25	20900	20900	0	289	84	10.2	2530
	67	19	21050	16050	5000	289	85	10.2	2540
	72	14	21150	11200	9950	289	85	10.2	2545
	77	8	21250	6800	14450	290	85	10.3	2550
115	62	25	20100	20100	0	307	85	10.5	2605
	67	19	20250	15800	4450	307	86	10.5	2615
	72	13	20350	10950	9400	307	86	10.5	2625
	77	8	20450	6550	13900	307	86	10.5	2630

COOLING PERFORMANCE DATA

SRCF30U01D w/ SCFC30AOVD

1000 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B

3050 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	28	33950	29400	4550	150	74	8.2	1865
	67	22	34300	23050	11250	150	75	8.3	1870
	72	16	34500	16650	17850	150	75	8.3	1875
	77	10	34750	10750	24000	150	76	8.3	1875
65	62	28	33150	29100	4050	162	75	8.7	1965
	67	22	33500	22750	10750	162	76	8.7	1970
	72	16	33750	16400	17350	163	76	8.7	1970
	77	10	33900	10500	23400	163	76	8.7	1975
70	62	28	32350	28800	3550	175	76	9.1	2065
	67	22	32700	22450	10250	175	76	9.1	2065
	72	16	32950	16150	16800	175	77	9.1	2065
	77	10	33100	10300	22800	176	77	9.1	2070
75	62	28	31600	28500	3100	188	77	9.5	2150
	67	21	31900	22150	9750	188	77	9.5	2155
	72	15	32100	15900	16200	189	78	9.5	2160
	77	10	32300	10050	22250	189	78	9.5	2160
80	62	27	30800	28150	2650	202	77	9.9	2240
	67	21	31100	21900	9200	203	78	9.9	2245
	72	15	31300	15600	15700	203	79	9.9	2250
	77	10	31450	9850	21600	203	79	9.9	2250
85	62	27	30000	27850	2150	216	78	10.3	2325
	67	21	30300	21600	8700	217	79	10.3	2330
	72	15	30450	15350	15100	217	80	10.3	2335
	77	9	30650	9600	21050	217	80	10.3	2340
90	62	27	29150	27500	1650	231	79	10.6	2410
	67	21	29450	21300	8150	232	80	10.7	2415
	72	15	29650	15100	14550	232	80	10.7	2420
	77	9	29800	9400	20400	233	81	10.7	2425
95	62	26	28300	27200	1100	247	80	11.0	2495
	67	20	28600	21000	7600	248	81	11.0	2500
	72	14	28800	14850	13950	248	81	11.0	2505
	77	9	28950	9150	19800	248	82	11.1	2510
100	62	26	27450	26850	600	264	81	11.3	2575
	67	20	27750	20700	7050	264	82	11.4	2580
	72	14	27950	14550	13400	264	82	11.4	2585
	77	9	28100	8950	19150	265	83	11.4	2590
105	62	26	26600	26550	50	281	82	11.7	2650
	67	20	26900	20400	6500	281	83	11.7	2655
	72	14	27050	14300	12750	282	83	11.8	2660
	77	8	27200	8700	18500	282	84	11.8	2665
110	62	25	25750	25750	0	298	83	12.0	2720
	67	19	26000	20100	5900	299	84	12.1	2725
	72	14	26150	14000	12150	299	84	12.1	2730
	77	8	26300	8450	17850	299	85	12.1	2735
115	62	25	24900	24900	0	316	84	12.4	2780
	67	19	25100	19800	5300	317	85	12.4	2785
	72	13	25300	13750	11550	317	86	12.5	2790
	77	8	25450	8250	17200	317	86	12.5	2790

COOLING PERFORMANCE DATA

SRCF30U01D w/ SCFC30HOHD
1000 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
3050 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	28	33950	29300	4650	149	74	8.1	1840
	67	22	34300	22950	11350	150	75	8.1	1845
	72	16	34550	16600	17950	150	75	8.1	1845
	77	10	34750	10700	24050	150	76	8.2	1850
65	62	28	33200	29000	4200	161	75	8.6	1940
	67	22	33500	22650	10850	162	76	8.6	1950
	72	16	33750	16350	17400	162	76	8.6	1950
	77	10	33950	10500	23450	163	76	8.6	1950
70	62	28	32400	28700	3700	174	76	9.0	2035
	67	22	32750	22400	10350	175	76	9.0	2040
	72	16	32950	16050	16900	175	77	9.0	2045
	77	10	33150	10250	22900	175	77	9.0	2045
75	62	27	31600	28350	3250	188	77	9.4	2125
	67	21	31900	22100	9800	188	77	9.4	2130
	72	15	32150	15800	16350	189	78	9.4	2135
	77	10	32300	10050	22250	189	78	9.4	2135
80	62	27	30800	28050	2750	202	77	9.8	2215
	67	21	31100	21800	9300	203	78	9.8	2220
	72	15	31300	15550	15750	203	79	9.8	2225
	77	9	31500	9800	21700	203	79	9.8	2225
85	62	27	30000	27750	2250	216	78	10.1	2300
	67	21	30300	21500	8800	217	79	10.2	2305
	72	15	30500	15300	15200	217	80	10.2	2310
	77	9	30700	9600	21100	217	80	10.2	2310
90	62	27	29150	27400	1750	232	79	10.5	2385
	67	21	29450	21200	8250	232	80	10.5	2390
	72	15	29650	15050	14600	232	80	10.5	2395
	77	9	29800	9350	20450	233	81	10.6	2400
95	62	26	28350	27100	1250	247	80	10.9	2465
	67	20	28600	20900	7700	248	81	10.9	2475
	72	14	28800	14800	14000	248	81	10.9	2475
	77	9	29000	9150	19850	248	82	10.9	2480
100	62	26	27500	26750	750	264	81	11.2	2545
	67	20	27750	20600	7150	265	82	11.2	2555
	72	14	27950	14500	13450	265	82	11.3	2560
	77	9	28100	8900	19200	265	83	11.3	2565
105	62	26	26650	26450	200	281	82	11.6	2620
	67	20	26900	20300	6600	281	83	11.6	2630
	72	14	27050	14250	12800	281	83	11.6	2635
	77	8	27250	8650	18600	282	84	11.6	2635
110	62	25	25750	25750	0	298	83	11.9	2690
	67	19	26000	20000	6000	299	84	11.9	2700
	72	14	26200	13950	12250	299	84	12.0	2700
	77	8	26350	8450	17900	300	85	12.0	2705
115	62	25	24900	24900	0	316	84	12.2	2755
	67	19	25150	19700	5450	317	85	12.3	2760
	72	13	25300	13700	11600	317	86	12.3	2765
	77	8	25450	8200	17250	318	86	12.3	2765

COOLING PERFORMANCE DATA

SRCF30U01D w/ BCEA30T001A, or BCAA30T001A/B, or 2A/B, or EBCC3000MDM
1050 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
3050 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	28	33950	29450	4500	150	74	8.2	2250
	67	22	34350	23000	11350	150	75	8.3	2255
	72	16	34550	16500	18050	151	75	8.3	2255
	77	10	34800	10550	24250	151	76	8.3	2255
65	62	28	33200	29150	4050	162	75	8.7	2345
	67	22	33550	22700	10850	162	76	8.7	2350
	72	16	33800	16250	17550	163	76	8.7	2350
	77	10	33950	10300	23650	163	77	8.7	2355
70	62	28	32400	28850	3550	175	76	9.1	2440
	67	22	32750	22400	10350	175	76	9.1	2445
	72	15	33000	16000	17000	175	77	9.1	2445
	77	10	33150	10100	23050	176	77	9.1	2450
75	62	28	31600	28550	3050	188	77	9.5	2530
	67	21	31950	22150	9800	189	77	9.5	2535
	72	15	32150	15750	16400	189	78	9.5	2540
	77	10	32350	9900	22450	189	78	9.5	2540
80	62	27	30800	28200	2600	202	78	9.9	2625
	67	21	31150	21850	9300	202	78	9.9	2625
	72	15	31350	15500	15850	203	79	9.9	2630
	77	9	31500	9650	21850	203	79	9.9	2630
85	62	27	30000	27900	2100	216	78	10.3	2705
	67	21	30300	21600	8700	217	79	10.3	2715
	72	15	30500	15250	15250	217	80	10.3	2720
	77	9	30700	9450	21250	217	80	10.3	2720
90	62	27	29150	27600	1550	232	79	10.6	2795
	67	21	29450	21300	8150	232	80	10.7	2800
	72	14	29650	15000	14650	232	81	10.7	2805
	77	9	29800	9200	20600	233	81	10.7	2810
95	62	26	28300	27300	1000	247	80	11.0	2875
	67	20	28600	21000	7600	248	81	11.0	2880
	72	14	28800	14750	14050	248	81	11.0	2885
	77	9	28950	9000	19950	249	82	11.1	2890
100	62	26	27450	27000	450	264	81	11.3	2955
	67	20	27750	20700	7050	264	82	11.4	2965
	72	14	27950	14500	13450	264	82	11.4	2965
	77	8	28100	8750	19350	265	83	11.4	2970
105	62	26	26600	26600	0	281	82	11.7	3030
	67	20	26900	20400	6500	281	83	11.7	3035
	72	14	27050	14200	12850	281	83	11.8	3045
	77	8	27200	8550	18650	281	84	11.8	3045
110	62	25	25750	25750	0	298	83	12.0	3100
	67	19	26000	20150	5850	298	84	12.1	3105
	72	13	26200	13950	12250	298	84	12.1	3110
	77	8	26300	8300	18000	299	85	12.1	3115
115	62	25	24850	24850	0	316	84	12.4	3160
	67	19	25100	19850	5250	316	85	12.4	3165
	72	13	25300	13700	11600	317	85	12.5	3170
	77	8	25450	8100	17350	317	86	12.5	3170

COOLING PERFORMANCE DATA

SRCF36U01D w/ SCFC36AOVD
1200 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
3050 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	30	43300	36950	6350	159	74	11.1	2440
	67	24	43800	29150	14650	159	75	11.2	2445
	72	17	44100	21250	22850	160	75	11.2	2455
	77	11	44400	13900	30500	160	76	11.2	2460
65	62	30	42250	36550	5700	171	75	11.6	2555
	67	23	42750	28700	14050	172	76	11.7	2565
	72	17	43000	20850	22150	172	76	11.7	2575
	77	11	43250	13600	29650	173	77	11.8	2580
70	62	29	41150	36100	5050	184	76	12.2	2675
	67	23	41650	28300	13350	185	77	12.2	2685
	72	17	41950	20500	21450	185	77	12.2	2690
	77	11	42200	13300	28900	186	78	12.3	2700
75	62	29	40150	35700	4450	198	77	12.7	2785
	67	23	40600	27900	12700	199	78	12.7	2800
	72	16	40850	20150	20700	199	78	12.8	2805
	77	11	41150	13000	28150	199	79	12.8	2810
80	62	29	39100	35250	3850	212	78	13.2	2895
	67	22	39550	27550	12000	212	79	13.2	2905
	72	16	39850	19800	20050	213	79	13.2	2915
	77	10	40050	12650	27400	214	80	13.3	2925
85	62	28	38100	34850	3250	226	79	13.6	3000
	67	22	38500	27150	11350	228	80	13.7	3020
	72	16	38800	19500	19300	227	80	13.7	3020
	77	10	39000	12400	26600	228	80	13.8	3035
90	62	28	37050	34450	2600	242	80	14.1	3110
	67	22	37450	26800	10650	243	81	14.2	3125
	72	15	37700	19100	18600	243	81	14.2	3135
	77	10	37950	12100	25850	244	81	14.2	3140
95	62	28	36050	34050	2000	257	81	14.5	3215
	67	21	36400	26400	10000	258	81	14.6	3230
	72	15	36650	18800	17850	259	82	14.7	3240
	77	10	36850	11800	25050	259	82	14.7	3250
100	62	27	34950	33600	1350	274	82	15.0	3320
	67	21	35350	26000	9350	275	83	15.1	3335
	72	15	35550	18450	17100	275	83	15.1	3345
	77	9	35750	11450	24300	276	83	15.1	3355
105	62	27	33850	33150	700	292	83	15.4	3425
	67	21	34250	25600	8650	292	84	15.5	3440
	72	15	34500	18100	16400	292	84	15.5	3450
	77	9	34650	11150	23500	293	85	15.6	3460
110	62	26	32800	32750	50	308	84	15.9	3525
	67	20	33100	25200	7900	310	85	15.9	3545
	72	14	33300	17750	15550	310	85	16.0	3555
	77	9	33500	10850	22650	311	86	16.0	3565
115	62	26	31600	31600	0	327	85	16.3	3635
	67	20	31950	24800	7150	328	86	16.4	3655
	72	14	32150	17350	14800	328	86	16.4	3665
	77	9	32350	10550	21800	328	87	16.5	3675

COOLING PERFORMANCE DATA

SRCF36U01D w/ SCFC36HOHD

1200 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B

3050 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	30	42950	36650	6300	159	74	11.1	2430
	67	23	43450	28850	14600	160	75	11.2	2440
	72	17	43800	21000	22800	160	75	11.2	2450
	77	11	44100	13750	30350	160	76	11.2	2450
65	62	29	41900	36200	5700	171	75	11.6	2540
	67	23	42350	28450	13900	172	76	11.7	2560
	72	17	42700	20650	22050	173	76	11.7	2565
	77	11	43000	13450	29550	173	77	11.7	2570
70	62	29	40900	35800	5100	184	76	12.1	2655
	67	23	41350	28050	13300	185	77	12.2	2670
	72	17	41650	20300	21350	185	77	12.2	2680
	77	11	41950	13150	28800	186	78	12.2	2685
75	62	29	39800	35350	4450	198	77	12.6	2770
	67	23	40300	27700	12600	198	78	12.7	2785
	72	16	40600	19950	20650	199	78	12.7	2795
	77	10	40850	12850	28000	200	79	12.8	2800
80	62	28	38800	34950	3850	212	78	13.1	2880
	67	22	39250	27300	11950	213	79	13.2	2895
	72	16	39500	19600	19900	214	79	13.2	2905
	77	10	39850	12550	27300	213	80	13.2	2910
85	62	28	37800	34550	3250	227	79	13.6	2990
	67	22	38200	26900	11300	228	80	13.7	3005
	72	16	38500	19300	19200	228	80	13.7	3015
	77	10	38750	12250	26500	229	81	13.7	3025
90	62	28	36750	34150	2600	243	80	14.1	3100
	67	22	37200	26550	10650	243	81	14.1	3110
	72	15	37450	18950	18500	243	81	14.2	3120
	77	10	37700	11950	25750	244	82	14.2	3130
95	62	27	35750	33750	2000	258	81	14.5	3200
	67	21	36150	26150	10000	259	82	14.6	3220
	72	15	36350	18600	17750	260	82	14.6	3230
	77	9	36650	11650	25000	260	83	14.7	3235
100	62	27	34700	33350	1350	275	82	15.0	3305
	67	21	35050	25800	9250	275	83	15.0	3320
	72	15	35300	18250	17050	276	83	15.1	3330
	77	9	35550	11350	24200	276	84	15.1	3340
105	62	27	33600	32900	700	292	83	15.4	3410
	67	21	33950	25400	8550	293	84	15.5	3425
	72	15	34250	17950	16300	292	84	15.5	3435
	77	9	34450	11050	23400	293	85	15.6	3445
110	62	26	32500	32500	0	310	84	15.8	3515
	67	20	32900	25000	7900	310	85	15.9	3530
	72	14	33100	17550	15550	310	85	15.9	3540
	77	9	33300	10750	22550	311	86	16.0	3550
115	62	26	31400	31400	0	327	85	16.2	3615
	67	20	31700	24600	7100	328	86	16.3	3635
	72	14	31950	17200	14750	328	86	16.4	3645
	77	8	32150	10450	21700	329	87	16.4	3655

COOLING PERFORMANCE DATA

SRCF36U01D w/ BCEA36T001A, or BCAA36T001A/B, or 2A/B, or EBCC3600MDM
1250 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
3050 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	30	43350	37000	6350	159	74	11.1	2875
	67	24	43850	29050	14800	159	75	11.2	2890
	72	17	44150	21100	23050	160	75	11.2	2895
	77	11	44450	13700	30750	160	76	11.2	2900
65	62	30	42250	36600	5650	171	75	11.6	2995
	67	23	42750	28650	14100	172	76	11.7	3010
	72	17	43100	20750	22350	172	76	11.7	3010
	77	11	43350	13400	29950	172	77	11.7	3020
70	62	29	41250	36200	5050	184	76	12.1	3110
	67	23	41650	28250	13400	185	77	12.2	3125
	72	16	42000	20400	21600	185	77	12.2	3130
	77	11	42250	13100	29150	186	78	12.3	3135
75	62	29	40200	35750	4450	198	77	12.6	3220
	67	23	40650	27900	12750	198	78	12.7	3235
	72	16	40900	20050	20850	199	78	12.8	3245
	77	10	41200	12800	28400	199	79	12.8	3250
80	62	29	39150	35350	3800	212	78	13.1	3335
	67	22	39550	27500	12050	213	79	13.2	3350
	72	16	39850	19700	20150	213	79	13.2	3355
	77	10	40150	12500	27650	213	80	13.3	3360
85	62	28	38100	34950	3150	226	79	13.6	3440
	67	22	38500	27150	11350	227	80	13.7	3455
	72	16	38800	19350	19450	228	80	13.7	3465
	77	10	39050	12200	26850	228	80	13.7	3470
90	62	28	37050	34550	2500	242	80	14.1	3550
	67	22	37450	26800	10650	243	81	14.2	3565
	72	15	37700	19000	18700	243	81	14.2	3575
	77	10	38000	11900	26100	243	81	14.2	3580
95	62	28	36000	34150	1850	258	81	14.5	3655
	67	21	36400	26400	10000	258	81	14.6	3670
	72	15	36650	18700	17950	259	82	14.7	3680
	77	9	36900	11600	25300	259	82	14.7	3690
100	62	27	34950	33750	1200	274	82	15.0	3760
	67	21	35350	26000	9350	275	83	15.1	3775
	72	15	35600	18350	17250	275	83	15.1	3785
	77	9	35750	11300	24450	276	83	15.2	3795
105	62	27	33850	33300	550	291	83	15.4	3860
	67	21	34250	25650	8600	291	84	15.5	3875
	72	15	34450	18000	16450	292	84	15.6	3890
	77	9	34650	11000	23650	293	85	15.6	3900
110	62	27	32750	32750	0	308	84	15.8	3965
	67	20	33100	25250	7850	309	85	15.9	3985
	72	14	33300	17650	15650	310	85	16.0	3995
	77	9	33500	10700	22800	310	86	16.0	4005
115	62	26	31650	31650	0	326	85	16.3	4070
	67	20	31950	24850	7100	327	86	16.4	4090
	72	14	32100	17300	14800	328	86	16.4	4105
	77	8	32300	10400	21900	328	87	16.5	4115

COOLING PERFORMANCE DATA

SRCF42U01D w/ SCFC42AOVD, AUMD, HOHD, or BCEA42T002A, or EBCC4200MDM
 1400 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
 3800 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	29	48850	42750	6100	146	73	12.3	2695
	67	23	49450	33600	15850	147	73	12.4	2710
	72	17	49800	24400	25400	147	74	12.4	2720
	77	11	50150	15850	34300	148	74	12.5	2730
65	62	29	47650	42250	5400	158	73	12.8	2815
	67	23	48200	33150	15050	159	74	12.9	2830
	72	16	48600	24000	24600	159	75	12.9	2835
	77	11	48950	15500	33450	159	75	12.9	2840
70	62	29	46450	41750	4700	170	74	13.3	2930
	67	22	47000	32700	14300	171	75	13.3	2940
	72	16	47350	23550	23800	171	76	13.3	2950
	77	10	47700	15150	32550	171	76	13.4	2955
75	62	28	45300	41300	4000	183	75	13.7	3040
	67	22	45800	32250	13550	184	76	13.8	3055
	72	16	46150	23200	22950	184	77	13.8	3060
	77	10	46450	14800	31650	184	77	13.8	3065
80	62	28	44100	40800	3300	196	76	14.1	3145
	67	22	44600	31800	12800	197	77	14.2	3165
	72	16	44950	22800	22150	198	78	14.2	3170
	77	10	45250	14450	30800	198	78	14.3	3175
85	62	28	42900	40300	2600	211	77	14.6	3260
	67	21	43400	31350	12050	211	78	14.7	3275
	72	15	43750	22400	21350	211	79	14.7	3280
	77	10	44000	14100	29900	212	79	14.7	3290
90	62	27	41700	39850	1850	225	78	15.1	3370
	67	21	42150	30900	11250	226	79	15.1	3385
	72	15	42500	22000	20500	226	80	15.2	3395
	77	9	42750	13750	29000	227	80	15.2	3405
95	62	27	40400	39350	1050	240	79	15.6	3485
	67	21	40900	30450	10450	241	80	15.6	3500
	72	15	41200	21550	19650	241	81	15.6	3505
	77	9	41450	13400	28050	241	81	15.7	3515
100	62	27	39050	38800	250	256	81	16.1	3595
	67	20	39500	29950	9550	256	81	16.1	3610
	72	14	39750	21100	18650	257	82	16.2	3620
	77	9	40000	13000	27000	257	82	16.2	3630
105	62	26	37550	37550	0	272	82	16.6	3710
	67	20	37900	29350	8550	272	83	16.6	3725
	72	14	38200	20600	17600	272	83	16.7	3735
	77	9	38400	12550	25850	273	84	16.7	3745
110	62	26	35500	35500	0	288	84	17.1	3830
	67	20	35700	28600	7100	288	85	17.2	3840
	72	14	35850	19900	15950	288	85	17.2	3850
	77	8	35950	11900	24050	288	86	17.3	3860
115	62	21	18000	18000	0	365	102	17.3	-39830
	67	15	18000	18000	0	432	103	17.3	-46185
	72	10	18000	14550	3450	481	103	17.3	-50870
	77	5	18000	7350	10650	529	104	17.3	-55460

COOLING PERFORMANCE DATA

SRCF42U01F w/ SCFC42AOVD
1400 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
3800 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	29	47700	43100	4600	143	74	12.3	2465
	67	23	48300	33800	14500	143	75	12.3	2455
	72	16	48650	24450	24200	144	75	12.3	2455
	77	11	49000	15850	33150	144	76	12.3	2450
65	62	29	46650	42650	4000	155	75	13.0	2595
	67	22	47250	33400	13850	155	75	13.0	2590
	72	16	47600	24100	23500	155	76	13.0	2590
	77	10	47900	15500	32400	156	77	13.1	2590
70	62	28	45600	42250	3350	167	76	13.7	2725
	67	22	46150	33000	13150	167	76	13.7	2725
	72	16	46500	23750	22750	168	77	13.7	2730
	77	10	46800	15200	31600	168	77	13.7	2735
75	62	28	44550	41800	2750	179	76	14.3	2855
	67	22	45050	32600	12450	180	77	14.3	2860
	72	16	45400	23400	22000	180	78	14.3	2865
	77	10	45700	14900	30800	180	78	14.3	2865
80	62	28	43450	41350	2100	193	77	14.8	2980
	67	22	43950	32150	11800	194	78	14.9	2995
	72	15	44300	23000	21300	194	79	14.9	2995
	77	10	44550	14550	30000	194	79	14.9	3005
85	62	27	42350	40900	1450	207	78	15.4	3105
	67	21	42800	31750	11050	207	79	15.4	3115
	72	15	43100	22600	20500	208	80	15.5	3125
	77	10	43450	14250	29200	208	80	15.5	3125
90	62	27	41200	40450	750	221	79	15.9	3225
	67	21	41700	31350	10350	221	80	15.9	3230
	72	15	42000	22250	19750	222	81	16.0	3240
	77	9	42250	13900	28350	222	81	16.0	3250
95	62	27	40050	39950	100	236	80	16.3	3335
	67	21	40500	30900	9600	236	81	16.4	3345
	72	15	40850	21850	19000	237	81	16.4	3355
	77	9	41050	13550	27500	238	82	16.5	3365
100	62	26	38950	38950	0	251	81	16.8	3440
	67	20	39350	30450	8900	252	82	16.8	3455
	72	14	39650	21500	18150	252	82	16.9	3465
	77	9	39850	13200	26650	253	83	16.9	3470
105	62	26	37700	37700	0	268	82	17.2	3550
	67	20	38100	30050	8050	269	83	17.3	3560
	72	14	38400	21100	17300	269	84	17.3	3570
	77	9	38600	12850	25750	269	84	17.4	3580
110	62	26	36450	36450	0	285	83	17.7	3650
	67	20	36850	29600	7250	285	84	17.7	3665
	72	14	37150	20700	16450	285	85	17.8	3675
	77	8	37350	12500	24850	286	85	17.8	3685
115	62	25	35200	35200	0	302	84	18.1	3750
	67	20	35600	29150	6450	302	85	18.2	3765
	72	14	35800	20250	15550	303	86	18.3	3785
	77	8	36050	12150	23900	303	86	18.3	3795

COOLING PERFORMANCE DATA

SRCF42U01F w/ SCFC42HOHD

1400 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B

3800 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	29	45950	41050	4900	143	74	12.3	2435
	67	23	46500	32100	14400	144	75	12.3	2430
	72	16	46800	23100	23700	144	75	12.4	2430
	77	10	47100	14800	32300	144	76	12.4	2430
65	62	29	44950	40650	4300	155	75	13.0	2560
	67	22	45450	31700	13750	155	76	13.0	2565
	72	16	45800	22750	23050	156	76	13.0	2565
	77	10	46100	14500	31600	156	77	13.1	2565
70	62	28	43900	40250	3650	167	76	13.7	2695
	67	22	44400	31350	13050	167	76	13.7	2700
	72	16	44750	22450	22300	167	77	13.7	2700
	77	10	45050	14250	30800	168	77	13.7	2705
75	62	28	42850	39800	3050	180	77	14.3	2830
	67	22	43350	30950	12400	180	77	14.3	2830
	72	16	43650	22100	21550	181	78	14.3	2840
	77	10	43950	13950	30000	181	78	14.4	2840
80	62	28	41850	39400	2450	193	77	14.9	2955
	67	22	42300	30600	11700	193	78	14.9	2960
	72	15	42650	21750	20900	194	79	14.9	2965
	77	10	42850	13650	29200	194	79	14.9	2970
85	62	27	40750	39000	1750	207	78	15.4	3075
	67	21	41200	30200	11000	208	79	15.4	3085
	72	15	41500	21400	20100	208	80	15.5	3090
	77	9	41800	13350	28450	208	80	15.5	3095
90	62	27	39700	38550	1150	222	79	15.9	3195
	67	21	40100	29800	10300	222	80	15.9	3205
	72	15	40400	21050	19350	222	81	16.0	3210
	77	9	40650	13000	27650	223	81	16.0	3215
95	62	27	38600	38150	450	236	80	16.4	3305
	67	21	39000	29400	9600	237	81	16.4	3315
	72	15	39300	20700	18600	237	81	16.4	3320
	77	9	39500	12700	26800	238	82	16.5	3330
100	62	27	37450	37450	0	252	81	16.8	3410
	67	20	37850	29000	8850	253	82	16.9	3425
	72	14	38100	20350	17750	253	82	16.9	3430
	77	9	38350	12400	25950	253	83	16.9	3435
105	62	26	36300	36300	0	268	82	17.2	3510
	67	20	36650	28600	8050	269	83	17.3	3525
	72	14	36950	19950	17000	269	84	17.3	3535
	77	9	37150	12100	25050	269	84	17.4	3540
110	62	26	35100	35100	0	285	83	17.7	3615
	67	20	35500	28150	7350	285	84	17.7	3625
	72	14	35700	19600	16100	286	85	17.8	3640
	77	8	35950	11750	24200	286	85	17.9	3650
115	62	26	33900	33900	0	302	84	18.1	3715
	67	20	34250	27750	6500	302	85	18.2	3735
	72	14	34500	19200	15300	303	86	18.3	3745
	77	8	34700	11400	23300	303	86	18.4	3760

COOLING PERFORMANCE DATA

SRCF48U01/3D w/ SCFC48AOVD, AUMD, or HOHD
1600 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
4070 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER			
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	1 PH AMPS	3 PH AMPS	1 PH WATTS	3 PH WATTS
60	62	29	56500	47950	8550	154	73	14.8	10.4	3020	2705
	67	23	57050	37650	19400	155	74	14.8	10.4	3025	2700
	72	17	57350	27350	30000	155	74	14.8	10.4	3025	2700
	77	11	57650	17800	39850	155	74	14.8	10.4	3030	2700
65	62	29	55350	47450	7900	167	74	15.3	10.7	3170	2905
	67	22	55800	37200	18600	167	75	15.4	10.7	3180	2900
	72	16	56100	26950	29150	167	75	15.4	10.7	3180	2900
	77	11	56400	17450	38950	168	75	15.4	10.7	3185	2900
70	62	28	54100	47000	7100	179	75	15.9	11.0	3315	3090
	67	22	54550	36750	17800	180	75	15.9	11.0	3325	3095
	72	16	54900	26550	28350	180	76	15.9	11.0	3335	3095
	77	10	55150	17100	38050	181	76	15.9	11.0	3330	3095
75	62	28	52850	46500	6350	193	76	16.4	11.3	3465	3270
	67	22	53350	36300	17050	193	76	16.5	11.3	3470	3275
	72	16	53650	26150	27500	193	76	16.5	11.3	3475	3275
	77	10	53900	16750	37150	194	77	16.5	11.3	3485	3275
80	62	28	51600	46000	5600	207	76	17.0	11.6	3610	3440
	67	22	52000	35850	16150	208	77	17.0	11.6	3620	3445
	72	16	52300	25700	26600	208	77	17.1	11.7	3630	3445
	77	10	52550	16350	36200	208	78	17.1	11.7	3630	3450
85	62	27	50300	45450	4850	222	77	17.6	11.9	3760	3600
	67	21	50700	35350	15350	222	78	17.6	12.0	3765	3610
	72	15	51000	25300	25700	222	78	17.6	12.0	3770	3605
	77	10	51300	16000	35300	222	78	17.7	12.0	3785	3610
90	62	27	48950	44950	4000	237	78	18.2	12.3	3905	3750
	67	21	49350	34900	14450	237	79	18.2	12.3	3910	3755
	72	15	49650	24850	24800	238	79	18.3	12.3	3920	3765
	77	9	49900	15650	34250	238	79	18.3	12.3	3925	3765
95	62	27	47650	44450	3200	252	79	18.8	12.6	4045	3895
	67	21	48000	34400	13600	253	80	18.9	12.6	4055	3900
	72	15	48200	24400	23800	254	80	18.9	12.6	4065	3900
	77	9	48500	15250	33250	253	80	18.9	12.6	4070	3910
100	62	27	46200	43850	2350	268	80	19.5	12.9	4185	4020
	67	21	46600	33900	12700	269	81	19.6	12.9	4200	4025
	72	14	46850	23950	22900	269	81	19.6	12.9	4205	4040
	77	9	47000	14850	32150	270	81	19.6	12.9	4210	4045
105	62	26	44750	43300	1450	285	81	20.2	13.2	4325	4140
	67	20	45100	33400	11700	285	82	20.2	13.2	4330	4145
	72	14	45350	23500	21850	286	82	20.3	13.2	4340	4155
	77	9	45550	14450	31100	287	82	20.3	13.2	4350	4160
110	62	26	43200	42700	500	303	82	20.9	13.4	4455	4240
	67	20	43550	32850	10700	303	83	20.9	13.4	4460	4255
	72	14	43750	23050	20700	303	83	21.0	13.4	4470	4260
	77	8	43950	14050	29900	304	83	21.0	13.4	4470	4260
115	62	25	41650	41650	0	320	83	21.6	13.6	4575	4330
	67	20	41950	32300	9650	321	84	21.6	13.6	4580	4340
	72	14	42100	22500	19600	321	84	21.7	13.6	4585	4345
	77	8	42300	13600	28700	322	84	21.7	13.6	4590	4350

COOLING PERFORMANCE DATA

SRCF48U01/3D w/ BCEA48T002A/B, or EBCC480MDM
1630 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
4070 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER			
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	1 PH AMPS	3 PH AMPS	1 PH WATTS	3 PH WATTS
60	62	29	56600	47800	8800	155	73	15.1	10.4	3855	3770
	67	23	57100	37500	19600	155	74	15.2	10.4	3865	3785
	72	17	57400	27150	30250	156	74	15.2	10.4	3875	3785
	77	11	57750	17600	40150	156	74	15.2	10.4	3875	3795
65	62	29	55350	47350	8000	167	74	15.6	10.7	4000	3920
	67	23	55800	37050	18750	167	74	15.7	10.7	4015	3935
	72	16	56100	26750	29350	168	75	15.7	10.7	4025	3940
	77	10	56400	17250	39150	168	75	15.7	10.7	4030	3945
70	62	28	54050	46800	7250	180	75	16.1	11.0	4150	4075
	67	22	54550	36550	18000	180	75	16.2	11.0	4160	4085
	72	16	54850	26350	28500	180	76	16.2	11.0	4170	4090
	77	10	55100	16900	38200	181	76	16.3	11.0	4180	4095
75	62	28	52750	46300	6450	193	75	16.7	11.3	4295	4215
	67	22	53200	36100	17100	194	76	16.7	11.3	4310	4230
	72	16	53550	25950	27600	194	76	16.7	11.3	4315	4235
	77	10	53850	16550	37300	194	77	16.8	11.3	4320	4240
80	62	28	51450	45800	5650	207	76	17.2	11.6	4440	4365
	67	22	51900	35650	16250	207	77	17.3	11.6	4450	4375
	72	16	52200	25500	26700	208	77	17.3	11.7	4460	4385
	77	10	52500	16150	36350	208	78	17.3	11.7	4465	4390
85	62	28	50150	45300	4850	221	77	17.8	11.9	4580	4500
	67	21	50600	35150	15450	222	78	17.9	12.0	4595	4515
	72	15	50850	25100	25750	222	78	17.9	12.0	4600	4520
	77	10	51100	15800	35300	223	78	18.0	12.0	4610	4535
90	62	27	48750	44750	4000	237	78	18.5	12.3	4725	4640
	67	21	49250	34700	14550	237	79	18.5	12.3	4735	4655
	72	15	49500	24650	24850	237	79	18.5	12.3	4740	4665
	77	9	49750	15400	34350	238	79	18.6	12.3	4755	4680
95	62	27	47450	44250	3200	252	79	19.1	12.6	4860	4785
	67	21	47800	34200	13600	253	80	19.2	12.6	4880	4795
	72	15	48100	24200	23900	253	80	19.2	12.6	4890	4805
	77	9	48350	15050	33300	253	80	19.3	12.6	4895	4820
100	62	27	46000	43700	2300	268	80	19.8	12.9	5005	4920
	67	21	46400	33700	12700	269	81	19.9	12.9	5020	4940
	72	14	46650	23800	22850	269	81	19.9	12.9	5035	4950
	77	9	46900	14650	32250	269	81	20.0	12.9	5045	4960
105	62	26	44550	43150	1400	285	81	20.6	13.2	5160	5065
	67	20	44950	33200	11750	286	82	20.6	13.2	5175	5080
	72	14	45200	23350	21850	286	82	20.7	13.2	5190	5085
	77	9	45400	14250	31150	286	82	20.7	13.2	5200	5100
110	62	26	43100	42600	500	303	82	21.3	13.4	5315	5200
	67	20	43500	32700	10800	303	83	21.3	13.4	5335	5220
	72	14	43750	22900	20850	303	83	21.3	13.4	5350	5235
	77	8	43950	13900	30050	303	83	21.4	13.4	5360	5240
115	62	26	41700	41700	0	320	83	21.9	13.6	5485	5345
	67	20	42050	32200	9850	321	84	22.0	13.6	5510	5360
	72	14	42200	22450	19750	322	84	22.0	13.6	5535	5375
	77	8	42450	13500	28950	322	84	22.0	13.6	5550	5385

COOLING PERFORMANCE DATA

SRCF48U01/3E w/ SCFC48AOVE, or HOHD
1600 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
4070 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER			
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	1 PH AMPS	3 PH AMPS	1 PH WATTS	3 PH WATTS
60	62	29	56800	49050	7750	149	76	14.8	10.4	3025	2705
	67	23	57400	38550	18850	149	77	14.9	10.4	3030	2700
	72	17	57750	28000	29750	149	77	14.9	10.4	3040	2700
	77	11	58150	18300	39850	149	78	14.9	10.4	3035	2700
65	62	29	55550	48550	7000	160	77	15.4	10.8	3170	2905
	67	23	56100	38050	18050	161	78	15.4	10.8	3185	2900
	72	16	56450	27600	28850	161	78	15.4	10.8	3190	2900
	77	11	56800	17900	38900	161	78	15.4	10.8	3190	2900
70	62	29	54250	48000	6250	173	78	15.9	11.1	3320	3090
	67	22	54800	37600	17200	173	78	15.9	11.1	3330	3095
	72	16	55100	27150	27950	173	79	16.0	11.1	3335	3095
	77	10	55450	17500	37950	173	79	16.0	11.2	3340	3095
75	62	28	52950	47450	5500	185	79	16.5	11.4	3465	3270
	67	22	53500	37100	16400	186	79	16.5	11.5	3475	3275
	72	16	53800	26700	27100	186	80	16.5	11.5	3485	3275
	77	10	54100	17150	36950	186	80	16.5	11.5	3490	3275
80	62	28	51600	46900	4700	199	79	17.0	11.8	3615	3440
	67	22	52150	36600	15550	199	80	17.1	11.8	3620	3445
	72	16	52450	26250	26200	200	81	17.1	11.8	3635	3445
	77	10	52700	16750	35950	200	81	17.1	11.8	3640	3450
85	62	28	50250	46400	3850	213	80	17.6	12.1	3755	3600
	67	22	50800	36100	14700	213	81	17.6	12.1	3765	3610
	72	15	51050	25800	25250	214	82	17.7	12.1	3780	3605
	77	10	51350	16350	35000	214	82	17.7	12.1	3785	3610
90	62	27	48950	45850	3100	227	81	18.2	12.4	3900	3750
	67	21	49400	35600	13800	228	82	18.3	12.4	3915	3755
	72	15	49700	25400	24300	228	83	18.3	12.4	3920	3765
	77	10	50000	16000	34000	228	83	18.3	12.4	3930	3765
95	62	27	47550	45300	2250	243	82	18.8	12.7	4045	3895
	67	21	48000	35100	12900	243	83	18.9	12.7	4055	3900
	72	15	48350	24950	23400	243	83	18.9	12.7	4065	3900
	77	9	48600	15600	33000	243	84	19.0	12.7	4075	3910
100	62	27	46200	44750	1450	258	83	19.5	12.9	4185	4020
	67	21	46600	34600	12000	259	84	19.6	13.0	4200	4025
	72	15	46900	24500	22400	259	84	19.6	13.0	4205	4040
	77	9	47150	15200	31950	259	85	19.6	13.0	4215	4045
105	62	26	44800	44200	600	273	84	20.1	13.2	4315	4140
	67	20	45200	34100	11100	275	85	20.2	13.2	4335	4145
	72	14	45500	24050	21450	275	85	20.3	13.3	4345	4155
	77	9	45700	14800	30900	275	86	20.3	13.3	4355	4160
110	62	26	43350	43350	0	291	85	20.9	13.5	4455	4240
	67	20	43800	33600	10200	291	86	20.9	13.5	4465	4255
	72	14	44050	23600	20450	291	86	21.0	13.5	4475	4260
	77	9	44250	14400	29850	292	87	21.0	13.5	4485	4260
115	62	26	41950	41950	0	307	86	21.6	13.7	4575	4330
	67	20	42350	33100	9250	308	87	21.6	13.7	4585	4340
	72	14	42550	23100	19450	309	87	21.7	13.8	4600	4345
	77	8	42800	14000	28800	309	88	21.8	13.8	4605	4350

COOLING PERFORMANCE DATA

SRCF60U01/3D w/ SCFC60AOVD, AUMD, HOHD, or BCEA60T002A/B, or EBCC6000MDM
1800 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
4400 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER			
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	1 PH AMPS	3 PH AMPS	1 PH WATTS	3 PH WATTS
60	62	29	63350	54550	8800	157	75	17.6	12.1	3765	3650
	67	23	63850	42800	21050	158	75	17.6	12.2	3780	3660
	72	17	64250	31050	33200	158	76	17.7	12.2	3785	3675
	77	11	64600	20200	44400	158	76	17.7	12.2	3790	3680
65	62	29	62000	54000	8000	170	75	18.4	12.4	3960	3830
	67	23	62500	42300	20200	170	76	18.4	12.5	3975	3840
	72	17	62900	30650	32250	170	77	18.4	12.5	3980	3845
	77	11	63250	19800	43450	171	77	18.4	12.5	3985	3860
70	62	29	60650	53450	7200	183	76	19.1	12.7	4145	3995
	67	23	61150	41800	19350	183	77	19.2	12.8	4160	4005
	72	16	61500	30150	31350	184	77	19.2	12.8	4170	4015
	77	10	61850	19400	42450	184	78	19.2	12.8	4175	4030
75	62	29	59250	52900	6350	196	77	19.8	13.1	4320	4165
	67	22	59800	41300	18500	197	78	19.9	13.1	4330	4180
	72	16	60100	29700	30400	197	78	19.9	13.1	4345	4185
	77	10	60450	19000	41450	198	79	20.0	13.1	4350	4195
80	62	28	57800	52300	5500	211	78	20.5	13.4	4480	4330
	67	22	58350	40800	17550	211	79	20.6	13.5	4495	4340
	72	16	58700	29250	29450	211	79	20.6	13.5	4505	4350
	77	10	58950	18600	40350	212	80	20.7	13.5	4515	4360
85	62	28	56350	51750	4600	225	79	21.2	13.8	4635	4485
	67	22	56850	40250	16600	226	80	21.3	13.8	4650	4505
	72	16	57200	28750	28450	226	80	21.3	13.9	4660	4510
	77	10	57450	18200	39250	227	80	21.4	13.9	4670	4520
90	62	28	54850	51150	3700	240	80	21.9	14.2	4775	4645
	67	21	55300	39700	15600	241	81	22.0	14.2	4790	4660
	72	15	55650	28250	27400	241	81	22.0	14.2	4800	4670
	77	10	55900	17750	38150	242	81	22.1	14.3	4815	4685
95	62	27	53200	50500	2700	256	81	22.5	14.6	4915	4800
	67	21	53700	39100	14600	257	82	22.6	14.6	4930	4815
	72	15	54050	27750	26300	257	82	22.6	14.6	4940	4825
	77	9	54350	17300	37050	257	82	22.7	14.6	4950	4835
100	62	27	51550	49850	1700	273	82	23.1	14.9	5045	4950
	67	21	52050	38500	13550	273	83	23.2	15.0	5060	4965
	72	15	52350	27200	25150	274	83	23.2	15.0	5070	4975
	77	9	52600	16850	35750	274	83	23.3	15.0	5085	4985
105	62	27	49900	49200	700	289	83	23.6	15.2	5165	5090
	67	20	50350	37900	12450	290	84	23.7	15.3	5185	5110
	72	14	50650	26700	23950	290	84	23.7	15.3	5195	5120
	77	9	50950	16400	34550	290	85	23.8	15.3	5205	5130
110	62	26	48200	48200	0	306	84	24.0	15.5	5285	5235
	67	20	48600	37300	11300	307	85	24.1	15.5	5305	5245
	72	14	48900	26150	22750	307	85	24.1	15.5	5320	5255
	77	9	49200	15900	33300	308	86	24.1	15.5	5330	5265
115	62	26	46450	46450	0	324	85	24.3	15.7	5400	5360
	67	20	46850	36650	10200	325	86	24.3	15.7	5425	5375
	72	14	47200	25600	21600	325	86	24.4	15.6	5440	5385
	77	8	47400	15450	31950	326	87	24.4	15.6	5455	5390

COOLING PERFORMANCE DATA

ARCF18U01D w/ ACFC18AOVD
600 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
2300 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	30	22100	18450	3650	161	76	6.3	1470
	67	23	22250	14550	7700	161	76	6.3	1475
	72	17	22400	10600	11800	161	77	6.3	1475
	77	11	22500	6950	15550	161	77	6.3	1475
65	62	29	21650	18250	3400	173	77	6.5	1520
	67	23	21800	14350	7450	174	77	6.6	1525
	72	17	21900	10450	11450	174	77	6.6	1525
	77	11	22000	6800	15200	174	78	6.6	1525
70	62	29	21150	18050	3100	187	77	6.8	1565
	67	23	21350	14200	7150	186	78	6.8	1565
	72	17	21400	10300	11100	187	78	6.8	1570
	77	11	21500	6700	14800	187	78	6.8	1575
75	62	29	20700	17900	2800	199	78	7.0	1610
	67	23	20850	14000	6850	200	79	7.0	1615
	72	16	20950	10100	10850	200	79	7.0	1620
	77	11	21000	6550	14450	201	79	7.0	1620
80	62	29	20200	17700	2500	214	79	7.2	1660
	67	22	20300	13800	6500	215	80	7.2	1665
	72	16	20400	9950	10450	215	80	7.2	1670
	77	10	20500	6400	14100	215	80	7.2	1670
85	62	28	19700	17500	2200	229	80	7.4	1710
	67	22	19800	13600	6200	230	80	7.4	1720
	72	16	19900	9800	10100	230	81	7.4	1720
	77	10	20000	6250	13750	230	81	7.4	1720
90	62	28	19200	17300	1900	244	81	7.6	1760
	67	22	19300	13450	5850	244	81	7.6	1765
	72	16	19400	9650	9750	245	82	7.6	1770
	77	10	19500	6100	13400	244	82	7.7	1770
95	62	28	18650	17050	1600	260	82	7.8	1810
	67	21	18800	13250	5550	260	82	7.9	1815
	72	15	18900	9450	9450	260	83	7.9	1815
	77	10	18950	5950	13000	260	83	7.9	1820
100	62	27	18150	16850	1300	276	83	8.0	1865
	67	21	18250	13050	5200	277	83	8.1	1870
	72	15	18350	9300	9050	276	84	8.1	1870
	77	9	18400	5800	12600	277	84	8.1	1875
105	62	27	17600	16650	950	293	84	8.3	1915
	67	21	17700	12850	4850	294	84	8.3	1925
	72	15	17800	9100	8700	294	85	8.3	1925
	77	9	17850	5650	12200	294	85	8.3	1930
110	62	26	17000	16400	600	312	85	8.5	1975
	67	20	17150	12650	4500	311	85	8.5	1980
	72	14	17200	8950	8250	312	86	8.5	1985
	77	9	17300	5500	11800	312	86	8.5	1985
115	62	26	16450	16200	250	328	86	8.7	2030
	67	20	16600	12500	4100	328	86	8.7	2035
	72	14	16650	8750	7900	329	87	8.7	2040
	77	9	16700	5350	11350	330	87	8.7	2045

COOLING PERFORMANCE DATA

ARCF18U01D w/ ACFC24HOHA

600 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B

2300 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	30	21700	18150	3550	161	76	6.2	1455
	67	23	21900	14250	7650	161	76	6.3	1460
	72	17	22050	10400	11650	161	77	6.3	1460
	77	11	22100	6800	15300	162	77	6.3	1470
65	62	29	21300	18000	3300	172	76	6.5	1500
	67	23	21400	14100	7300	174	77	6.5	1510
	72	17	21550	10250	11300	174	77	6.5	1510
	77	11	21650	6650	15000	174	78	6.5	1510
70	62	29	20800	17800	3000	186	77	6.7	1550
	67	23	21000	13950	7050	186	78	6.7	1550
	72	17	21050	10100	10950	187	78	6.7	1560
	77	11	21150	6550	14600	187	79	6.7	1560
75	62	29	20350	17600	2750	199	78	6.9	1600
	67	23	20500	13750	6750	200	79	6.9	1600
	72	16	20600	9950	10650	200	79	6.9	1605
	77	10	20650	6400	14250	201	79	6.9	1610
80	62	29	19850	17400	2450	214	79	7.1	1645
	67	22	20000	13600	6400	214	80	7.1	1650
	72	16	20150	9800	10350	214	80	7.1	1650
	77	10	20200	6250	13950	215	80	7.1	1655
85	62	28	19350	17200	2150	228	80	7.3	1695
	67	22	19500	13400	6100	229	80	7.3	1700
	72	16	19600	9600	10000	229	81	7.3	1700
	77	10	19700	6150	13550	229	81	7.4	1705
90	62	28	18850	17000	1850	244	81	7.5	1745
	67	22	19000	13250	5750	244	81	7.5	1750
	72	15	19100	9450	9650	244	82	7.6	1750
	77	10	19200	6000	13200	245	82	7.6	1755
95	62	28	18350	16800	1550	259	82	7.7	1795
	67	21	18500	13050	5450	260	82	7.8	1800
	72	15	18600	9300	9300	260	83	7.8	1800
	77	10	18700	5850	12850	261	83	7.8	1805
100	62	27	17800	16600	1200	276	83	8.0	1845
	67	21	18000	12850	5150	276	83	8.0	1850
	72	15	18050	9150	8900	276	84	8.0	1855
	77	9	18150	5700	12450	277	84	8.0	1855
105	62	27	17300	16400	900	294	84	8.2	1900
	67	21	17400	12650	4750	294	84	8.2	1905
	72	15	17500	8950	8550	294	85	8.2	1910
	77	9	17600	5550	12050	295	85	8.2	1910
110	62	27	16750	16200	550	310	85	8.4	1950
	67	20	16850	12450	4400	312	85	8.4	1960
	72	14	16950	8800	8150	312	86	8.4	1965
	77	9	17000	5400	11600	312	86	8.4	1970
115	62	26	16150	15950	200	329	86	8.6	2010
	67	20	16300	12300	4000	330	86	8.6	2015
	72	14	16400	8600	7800	330	87	8.6	2020
	77	9	16450	5250	11200	329	87	8.6	2025

COOLING PERFORMANCE DATA

ARCF24U01D w/ ACFC24HOHA
800 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
2560 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	1	26200	23000	3200	-7	1	0.0	1490
	67	1	26550	18000	8550	-7	1	0.0	1490
	72	1	26750	12950	13800	-7	1	0.0	1490
	77	1	26950	8300	18650	-7	1	0.0	1485
65	62	1	25600	22800	2800	-7	1	0.0	1585
	67	1	25900	17750	8150	-7	1	0.0	1585
	72	1	26100	12750	13350	-7	1	0.0	1585
	77	0	26250	8150	18100	-7	1	0.0	1585
70	62	1	24950	22550	2400	-7	1	0.0	1670
	67	1	25250	17550	7700	-7	1	0.0	1675
	72	1	25450	12550	12900	-7	1	0.0	1680
	77	0	25600	7950	17650	-7	1	0.0	1680
75	62	1	24350	22300	2050	-7	1	0.0	1760
	67	1	24600	17300	7300	-7	1	0.0	1760
	72	1	24800	12350	12450	-7	1	0.0	1765
	77	0	24950	7750	17200	-7	1	0.0	1765
80	62	1	23700	22050	1650	-7	1	0.0	1840
	67	1	23950	17100	6850	-7	1	0.0	1845
	72	1	24150	12150	12000	-7	1	0.0	1845
	77	0	24300	7600	16700	-7	1	0.0	1845
85	62	1	23050	21800	1250	-7	1	0.0	1915
	67	1	23350	16850	6500	-7	1	0.0	1915
	72	1	23500	11950	11550	-7	1	0.0	1920
	77	0	23650	7400	16250	-7	1	0.0	1925
90	62	1	22450	21550	900	-7	1	0.0	1985
	67	1	22700	16650	6050	-7	1	0.0	1990
	72	1	22800	11750	11050	-7	1	0.0	1995
	77	0	23000	7250	15750	-7	1	0.0	1995
95	62	1	21750	21300	450	-7	1	0.0	2055
	67	1	22000	16400	5600	-7	1	0.0	2060
	72	1	22150	11550	10600	-7	1	0.0	2060
	77	0	22300	7050	15250	-7	1	0.0	2065
100	62	1	21100	21050	50	-7	1	0.0	2120
	67	1	21350	16150	5200	-7	1	0.0	2125
	72	1	21500	11300	10200	-7	1	0.0	2130
	77	0	21600	6850	14750	-7	1	0.0	2135
105	62	1	20450	20450	0	-7	1	0.0	2185
	67	1	20650	15950	4700	-7	1	0.0	2195
	72	1	20800	11100	9700	-7	1	0.0	2200
	77	0	20900	6700	14200	-7	1	0.0	2205
110	62	1	19700	19700	0	-7	1	0.0	2260
	67	1	19850	15650	4200	-7	1	0.0	2275
	72	1	20000	10850	9150	-7	1	0.0	2280
	77	0	20100	6500	13600	-7	1	0.0	2295
115	62	1	18900	18900	0	-7	1	0.0	2345
	67	1	19050	15400	3650	-7	1	0.0	2365
	72	1	19100	10600	8500	-7	1	0.0	2385
	77	0	19250	6250	13000	-7	1	0.0	2395

COOLING PERFORMANCE DATA

ARCF30U01D w/ ACFC30AOVD, or HOHA
 1000 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
 3000 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	29	33300	29300	4000	151	76	8.4	1925
	67	22	33600	22900	10700	152	77	8.5	1935
	72	16	33850	16500	17350	152	77	8.5	1930
	77	10	34000	10600	23400	152	78	8.5	1940
65	62	28	32500	29000	3500	163	77	8.9	2025
	67	22	32850	22650	10200	164	78	8.9	2030
	72	16	33050	16250	16800	164	78	8.9	2035
	77	10	33250	10400	22850	164	79	8.9	2035
70	62	28	31750	28700	3050	176	78	9.3	2120
	67	22	32050	22350	9700	177	79	9.3	2125
	72	16	32300	16000	16300	177	79	9.3	2125
	77	10	32500	10200	22300	177	79	9.3	2125
75	62	28	30950	28350	2600	190	79	9.7	2215
	67	21	31300	22050	9250	190	79	9.7	2215
	72	15	31450	15750	15700	191	80	9.7	2220
	77	10	31650	9950	21700	191	80	9.7	2225
80	62	27	30150	28050	2100	204	80	10.1	2305
	67	21	30450	21800	8650	204	80	10.1	2305
	72	15	30700	15500	15200	204	81	10.1	2310
	77	9	30850	9750	21100	205	81	10.1	2310
85	62	27	29350	27750	1600	219	81	10.4	2390
	67	21	29650	21500	8150	219	81	10.5	2395
	72	15	29850	15250	14600	219	82	10.5	2400
	77	9	30050	9500	20550	219	82	10.5	2400
90	62	27	28550	27450	1100	234	82	10.8	2475
	67	21	28850	21200	7650	234	82	10.8	2480
	72	15	29050	15000	14050	234	83	10.8	2480
	77	9	29200	9250	19950	235	83	10.9	2490
95	62	26	27750	27100	650	249	83	11.1	2555
	67	20	28000	20900	7100	250	83	11.2	2560
	72	14	28200	14700	13500	250	84	11.2	2570
	77	9	28350	9050	19300	250	84	11.2	2570
100	62	26	26950	26800	150	265	84	11.5	2635
	67	20	27150	20600	6550	266	84	11.5	2645
	72	14	27350	14450	12900	266	85	11.6	2645
	77	9	27500	8800	18700	267	85	11.6	2650
105	62	26	26100	26100	0	282	85	11.8	2710
	67	20	26350	20300	6050	283	85	11.9	2720
	72	14	26500	14200	12300	283	86	11.9	2720
	77	8	26650	8600	18050	283	86	11.9	2725
110	62	25	25250	25250	0	300	86	12.2	2780
	67	20	25500	20000	5500	300	86	12.2	2785
	72	14	25600	13950	11650	301	87	12.3	2790
	77	8	25750	8350	17400	301	87	12.3	2795
115	62	25	24350	24350	0	318	87	12.5	2840
	67	19	24600	19700	4900	318	87	12.6	2845
	72	13	24800	13650	11150	318	88	12.6	2850
	77	8	24900	8150	16750	319	88	12.6	2850

COOLING PERFORMANCE DATA

ARCF36U01E w/ ACFC36AOVD

1200 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B

2630 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	30	42350	37200	5150	155	75	11.5	2505
	67	23	42800	29250	13550	156	76	11.6	2520
	72	17	43150	21250	21900	156	77	11.6	2520
	77	11	43400	13850	29550	156	77	11.6	2525
65	62	29	41300	36800	4500	167	76	12.0	2620
	67	23	41800	28850	12950	168	77	12.1	2630
	72	17	42050	20900	21150	168	78	12.1	2640
	77	11	42300	13550	28750	169	78	12.1	2645
70	62	29	40250	36350	3900	181	77	12.5	2740
	67	23	40750	28500	12250	180	78	12.6	2745
	72	16	41000	20550	20450	181	79	12.6	2755
	77	11	41250	13250	28000	182	79	12.7	2765
75	62	29	39250	35950	3300	194	78	13.0	2850
	67	22	39750	28100	11650	194	79	13.1	2860
	72	16	39950	20200	19750	195	80	13.1	2870
	77	10	40250	12950	27300	195	80	13.1	2875
80	62	28	38250	35550	2700	208	79	13.5	2960
	67	22	38700	27700	11000	209	80	13.6	2970
	72	16	38950	19850	19100	209	81	13.6	2980
	77	10	39150	12650	26500	210	81	13.7	2990
85	62	28	37200	35100	2100	223	80	14.0	3070
	67	22	37650	27300	10350	224	81	14.1	3085
	72	16	37900	19500	18400	225	82	14.1	3095
	77	10	38150	12350	25800	225	82	14.1	3100
90	62	28	36250	34700	1550	238	81	14.5	3175
	67	21	36650	26950	9700	239	82	14.5	3190
	72	15	36850	19200	17650	240	83	14.6	3200
	77	10	37100	12050	25050	240	83	14.6	3210
95	62	27	35250	34300	950	254	82	14.9	3280
	67	21	35600	26550	9050	255	83	15.0	3295
	72	15	35800	18850	16950	256	84	15.1	3305
	77	9	36050	11750	24300	256	84	15.1	3315
100	62	27	34200	33900	300	271	83	15.4	3385
	67	21	34500	26150	8350	272	84	15.5	3405
	72	15	34750	18500	16250	272	85	15.5	3410
	77	9	35000	11450	23550	273	85	15.5	3420
105	62	27	33100	33100	0	289	84	15.8	3490
	67	21	33450	25800	7650	289	85	15.9	3505
	72	14	33700	18150	15550	289	86	15.9	3515
	77	9	33900	11150	22750	289	86	16.0	3525
110	62	26	32000	32000	0	306	86	16.3	3595
	67	20	32350	25400	6950	307	86	16.3	3610
	72	14	32600	17800	14800	307	87	16.4	3620
	77	9	32750	10850	21900	308	87	16.4	3635
115	62	26	30900	30900	0	324	87	16.7	3700
	67	20	31250	25000	6250	325	87	16.8	3720
	72	14	31450	17450	14000	325	88	16.8	3730
	77	8	31650	10550	21100	325	88	16.8	3735

COOLING PERFORMANCE DATA

ARCF36U01E w/ ACFC36HOHA

1200 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B

2630 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	30	41600	36300	5300	155	75	11.5	2570
	67	23	42050	28450	13600	156	76	11.6	2585
	72	17	42450	20650	21800	155	77	11.6	2580
	77	11	42700	13450	29250	156	77	11.6	2590
65	62	29	40600	35850	4750	167	76	12.0	2685
	67	23	41050	28100	12950	167	77	12.1	2695
	72	17	41350	20300	21050	169	78	12.1	2710
	77	11	41600	13100	28500	169	78	12.1	2715
70	62	29	39550	35450	4100	181	77	12.6	2810
	67	23	40050	27750	12300	181	78	12.6	2820
	72	16	40300	20000	20300	181	79	12.6	2830
	77	10	40600	12850	27750	182	79	12.7	2835
75	62	29	38550	35050	3500	194	78	13.0	2925
	67	22	39050	27350	11700	194	79	13.1	2935
	72	16	39300	19650	19650	195	80	13.1	2945
	77	10	39550	12550	27000	196	80	13.2	2955
80	62	28	37600	34650	2950	208	79	13.5	3035
	67	22	38000	27000	11000	209	80	13.6	3050
	72	16	38250	19300	18950	210	81	13.6	3065
	77	10	38550	12250	26300	210	81	13.7	3065
85	62	28	36600	34250	2350	223	80	14.0	3150
	67	22	37000	26600	10400	224	81	14.1	3165
	72	15	37300	19000	18300	224	82	14.1	3175
	77	10	37550	11950	25600	224	82	14.1	3180
90	62	28	35550	33850	1700	239	81	14.5	3260
	67	21	36000	26250	9750	239	82	14.5	3275
	72	15	36300	18650	17650	239	83	14.6	3285
	77	10	36500	11650	24850	240	83	14.6	3295
95	62	27	34600	33500	1100	254	82	14.9	3365
	67	21	35000	25900	9100	256	83	15.0	3385
	72	15	35200	18350	16850	256	84	15.1	3395
	77	9	35450	11400	24050	256	84	15.1	3405
100	62	27	33600	33050	550	271	83	15.4	3475
	67	21	33950	25550	8400	272	84	15.5	3490
	72	15	34200	18000	16200	272	85	15.5	3505
	77	9	34400	11100	23300	273	85	15.5	3510
105	62	27	32550	32550	0	289	84	15.8	3585
	67	21	32900	25150	7750	289	85	15.9	3600
	72	14	33150	17700	15450	289	86	15.9	3610
	77	9	33350	10800	22550	289	86	16.0	3615
110	62	26	31500	31500	0	306	85	16.3	3690
	67	20	31850	24800	7050	306	86	16.3	3705
	72	14	32050	17350	14700	307	87	16.4	3720
	77	9	32250	10500	21750	308	87	16.4	3730
115	62	26	30400	30400	0	324	87	16.7	3795
	67	20	30750	24400	6350	324	87	16.8	3815
	72	14	30950	17000	13950	325	88	16.8	3830
	77	8	31100	10200	20900	326	88	16.9	3840

COOLING PERFORMANCE DATA

ARCF42U01D w/ ACFC42AOVD
1485 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
3200 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	29	51100	44700	6400	175	73	18.9	3155
	67	23	51600	35050	16550	176	73	19.0	3165
	72	16	51900	25350	26550	176	74	19.0	3175
	77	11	52150	16400	35750	177	74	19.1	3185
65	62	29	49850	44200	5650	189	74	19.7	3290
	67	22	50300	34550	15750	189	74	19.8	3305
	72	16	50650	24950	25700	189	75	19.8	3305
	77	10	50950	16050	34900	189	75	19.8	3310
70	62	28	48550	43650	4900	203	75	20.5	3425
	67	22	49050	34100	14950	203	75	20.5	3430
	72	16	49400	24550	24850	203	76	20.5	3435
	77	10	49600	15700	33900	204	76	20.6	3445
75	62	28	47350	43200	4150	216	76	21.2	3545
	67	22	47800	33650	14150	217	76	21.2	3555
	72	16	48050	24100	23950	218	77	21.3	3565
	77	10	48350	15300	33050	218	77	21.3	3575
80	62	28	46050	42650	3400	232	76	21.9	3670
	67	21	46500	33150	13350	232	77	22.0	3685
	72	15	46700	23650	23050	233	78	22.0	3695
	77	10	47050	14950	32100	232	78	22.0	3695
85	62	27	44800	42150	2650	246	77	22.6	3790
	67	21	45100	32650	12450	248	78	22.7	3810
	72	15	45400	23250	22150	248	78	22.7	3820
	77	9	45650	14550	31100	249	79	22.8	3825
90	62	27	43450	41650	1800	263	78	23.3	3915
	67	21	43850	32200	11650	264	79	23.3	3930
	72	15	44100	22800	21300	264	79	23.4	3940
	77	9	44300	14200	30100	264	80	23.4	3950
95	62	27	42100	41100	1000	280	79	23.9	4040
	67	21	42500	31750	10750	280	80	24.0	4050
	72	14	42700	22400	20300	281	80	24.1	4065
	77	9	42950	13850	29100	281	81	24.1	4070
100	62	26	40750	40550	200	297	80	24.6	4165
	67	20	41150	31250	9900	297	81	24.7	4180
	72	14	41350	21950	19400	298	81	24.7	4190
	77	9	41500	13450	28050	299	82	24.8	4205
105	62	26	39350	39350	0	315	82	25.2	4290
	67	20	39700	30750	8950	316	82	25.3	4310
	72	14	40000	21550	18450	315	82	25.3	4315
	77	8	40150	13050	27100	316	83	25.4	4330
110	62	26	37950	37950	0	334	83	25.9	4425
	67	20	38300	30250	8050	334	83	26.0	4445
	72	14	38550	21100	17450	334	84	26.0	4455
	77	8	38750	12700	26050	334	84	26.0	4465
115	62	25	36550	36550	0	353	84	26.5	4565
	67	19	36950	29750	7200	353	84	26.6	4585
	72	13	37100	20650	16450	354	85	26.6	4605
	77	8	37300	12300	25000	354	85	26.7	4615

COOLING PERFORMANCE DATA

ARCF48U01/3E w/ SCFC48AOVE, or HOHD
1600 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
3500 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER			
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	1 PH AMPS	3 PH AMPS	1 PH WATTS	3 PH WATTS
60	62	29	55900	49000	6900	161	75	15.3	11.1	3160	2965
	67	23	56300	38450	17850	162	76	15.3	11.2	3170	2960
	72	16	56600	27850	28750	162	76	15.4	11.2	3175	2965
	77	11	56800	18050	38750	163	76	15.4	11.2	3185	2965
65	62	28	54550	48450	6100	174	76	15.8	11.5	3315	3155
	67	22	54950	37900	17050	175	76	15.9	11.5	3325	3155
	72	16	55300	27400	27900	174	77	15.9	11.5	3325	3160
	77	10	55500	17650	37850	175	77	15.9	11.6	3335	3160
70	62	28	53300	47950	5350	187	77	16.4	11.9	3455	3350
	67	22	53650	37450	16200	187	77	16.4	11.9	3470	3350
	72	16	54000	26950	27050	187	78	16.4	11.9	3470	3345
	77	10	54250	17300	36950	187	78	16.4	11.9	3470	3350
75	62	28	51950	47400	4550	201	78	16.9	12.2	3605	3520
	67	22	52350	36950	15400	201	78	16.9	12.2	3615	3525
	72	16	52650	26550	26100	201	79	17.0	12.2	3615	3525
	77	10	52900	16900	36000	201	79	17.0	12.2	3620	3525
80	62	27	50650	46900	3750	215	78	17.5	12.5	3745	3685
	67	21	51050	36450	14600	215	79	17.5	12.5	3755	3690
	72	15	51350	26100	25250	215	79	17.5	12.5	3760	3690
	77	10	51550	16550	35000	216	80	17.5	12.5	3765	3695
85	62	27	49350	46350	3000	229	79	18.0	12.8	3885	3840
	67	21	49700	36000	13700	230	80	18.1	12.8	3900	3845
	72	15	50000	25650	24350	230	80	18.1	12.8	3905	3850
	77	9	50200	16150	34050	230	81	18.1	12.9	3915	3855
90	62	27	48050	45800	2250	244	80	18.6	13.1	4025	3990
	67	21	48400	35500	12900	245	81	18.7	13.1	4040	3995
	72	15	48600	25200	23400	245	81	18.7	13.1	4050	4000
	77	9	48800	15750	33050	246	82	18.7	13.2	4060	4010
95	62	27	46600	45250	1350	261	81	19.3	13.4	4170	4130
	67	21	47000	35000	12000	261	82	19.3	13.4	4180	4135
	72	15	47250	24750	22500	261	82	19.3	13.4	4190	4140
	77	9	47400	15350	32050	262	83	19.4	13.4	4200	4145
100	62	26	45300	44700	600	277	82	19.9	13.6	4305	4245
	67	20	45650	34500	11150	277	83	19.9	13.7	4315	4260
	72	14	45850	24350	21500	278	83	20.0	13.7	4325	4265
	77	9	46000	15000	31000	278	84	20.0	13.7	4335	4275
105	62	26	43900	43900	0	293	83	20.5	13.9	4435	4360
	67	20	44200	34000	10200	294	84	20.6	13.9	4450	4370
	72	14	44450	23900	20550	294	84	20.7	14.0	4460	4380
	77	9	44600	14600	30000	295	84	20.7	14.0	4470	4385
110	62	26	42450	42450	0	312	84	21.3	14.2	4570	4465
	67	20	42750	33450	9300	312	85	21.3	14.2	4580	4475
	72	14	43050	23450	19600	312	85	21.3	14.2	4585	4480
	77	8	43150	14200	28950	313	85	21.4	14.2	4595	4485
115	62	25	41050	41050	0	329	85	21.9	14.4	4685	4545
	67	19	41350	32950	8400	330	86	22.0	14.4	4695	4560
	72	13	41600	23000	18600	330	86	22.0	14.4	4700	4560
	77	8	41750	13800	27950	331	86	22.1	14.5	4705	4570

COOLING PERFORMANCE DATA

ARCF48U04D w/ SCFC48AOVE
1600 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
3500 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	28	54850	48600	6250	153	76	5.8	3820
	67	22	55250	38050	17200	153	76	5.8	3830
	72	16	55550	27500	28050	154	77	5.8	3835
	77	10	55800	17750	38050	154	77	5.8	3850
65	62	28	53800	48150	5650	166	76	6.0	3950
	67	22	54200	37650	16550	166	77	6.0	3965
	72	16	54500	27150	27350	166	77	6.0	3970
	77	10	54750	17450	37300	167	78	6.0	3980
70	62	28	52700	47700	5000	178	77	6.1	4080
	67	22	53100	37250	15850	179	78	6.1	4095
	72	16	53350	26750	26600	180	78	6.1	4105
	77	10	53600	17100	36500	180	78	6.1	4115
75	62	28	51600	47250	4350	192	78	6.2	4215
	67	22	52000	36800	15200	193	78	6.3	4225
	72	15	52250	26400	25850	193	79	6.3	4235
	77	10	52500	16800	35700	194	79	6.3	4245
80	62	27	50400	46800	3600	207	79	6.4	4350
	67	21	50850	36400	14450	207	79	6.4	4355
	72	15	51050	26000	25050	208	80	6.4	4365
	77	10	51350	16450	34900	207	80	6.4	4370
85	62	27	49200	46300	2900	221	79	6.5	4480
	67	21	49600	35950	13650	222	80	6.6	4495
	72	15	49850	25600	24250	222	80	6.6	4500
	77	9	50050	16100	33950	223	81	6.6	4510
90	62	27	48000	45800	2200	237	80	6.7	4615
	67	21	48300	35450	12850	238	81	6.7	4630
	72	15	48550	25200	23350	238	81	6.7	4640
	77	9	48800	15750	33050	238	82	6.7	4645
95	62	27	46650	45250	1400	253	81	6.9	4755
	67	21	47000	35000	12000	253	82	6.9	4765
	72	15	47250	24800	22450	254	82	6.9	4775
	77	9	47450	15400	32050	254	83	6.9	4785
100	62	26	45250	44700	550	269	82	7.0	4900
	67	20	45600	34500	11100	270	83	7.1	4920
	72	14	45850	24350	21500	270	83	7.1	4920
	77	9	46050	15000	31050	271	83	7.1	4935
105	62	26	43750	43750	0	287	83	7.2	5055
	67	20	44100	33950	10150	287	84	7.2	5075
	72	14	44350	23850	20500	287	84	7.2	5080
	77	9	44500	14550	29950	288	85	7.3	5095
110	62	25	42200	42200	0	303	84	7.4	5220
	67	20	42500	33400	9100	304	85	7.4	5240
	72	14	42700	23300	19400	305	85	7.5	5255
	77	8	42900	14150	28750	305	86	7.5	5265
115	62	25	40450	40450	0	321	86	7.6	5405
	67	19	40750	32750	8000	322	86	7.7	5430
	72	13	40950	22800	18150	322	87	7.7	5440
	77	8	41050	13650	27400	323	87	7.7	5460

COOLING PERFORMANCE DATA

ARCF60U01E w/ ACFC60AOVD

1850 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B

3500 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	28	62750	54650	8100	162	69	19.1	3930
	67	22	63350	42750	20600	162	69	19.2	3935
	72	16	63700	30900	32800	163	70	19.2	3950
	77	10	64050	19900	44150	164	70	19.2	3955
65	62	28	61950	54300	7650	175	69	19.8	4095
	67	22	62500	42450	20050	176	70	19.9	4105
	72	16	62800	30600	32200	177	70	19.9	4115
	77	10	63150	19650	43500	177	71	20.0	4120
70	62	28	61000	53950	7050	190	70	20.7	4290
	67	22	61550	42100	19450	191	70	20.7	4300
	72	15	61950	30300	31650	191	71	20.7	4300
	77	10	62250	19400	42850	191	71	20.7	4305
75	62	27	60050	53550	6500	205	70	21.6	4505
	67	21	60600	41800	18800	206	71	21.6	4505
	72	15	60950	30000	30950	206	71	21.7	4515
	77	10	61300	19150	42150	206	72	21.7	4520
80	62	27	59150	53200	5950	221	71	22.6	4730
	67	21	59600	41400	18200	222	71	22.7	4745
	72	15	60000	29700	30300	222	72	22.7	4745
	77	10	60300	18850	41450	222	72	22.7	4755
85	62	27	58200	52800	5400	236	71	23.7	4970
	67	21	58650	41050	17600	237	72	23.7	4990
	72	15	58950	29350	29600	238	72	23.8	5000
	77	10	59300	18600	40700	238	73	23.8	5000
90	62	27	57150	52400	4750	253	72	24.9	5245
	67	21	57600	40700	16900	254	73	24.9	5265
	72	15	57950	29050	28900	254	73	24.9	5265
	77	9	58200	18300	39900	255	73	25.0	5275
95	62	27	56000	51950	4050	272	73	26.2	5550
	67	21	56500	40300	16200	272	73	26.2	5550
	72	15	56750	28650	28100	273	74	26.3	5575
	77	9	57050	18000	39050	273	74	26.3	5575
100	62	26	54850	51500	3350	290	73	27.6	5865
	67	20	55350	39900	15450	290	74	27.6	5865
	72	14	55550	28300	27250	291	74	27.7	5895
	77	9	55900	17650	38250	291	75	27.6	5880
105	62	26	53600	51000	2600	309	74	29.1	6210
	67	20	54050	39450	14600	309	75	29.1	6210
	72	14	54350	27900	26450	309	75	29.1	6215
	77	9	54600	17300	37300	310	76	29.1	6225
110	62	26	52350	50550	1800	328	75	30.6	6550
	67	20	52700	38950	13750	329	76	30.7	6575
	72	14	52950	27450	25500	330	76	30.7	6575
	77	9	53200	16900	36300	330	76	30.7	6590
115	62	26	50900	49950	950	348	76	32.2	6930
	67	20	51300	38450	12850	349	76	32.2	6930
	72	14	51450	27000	24450	350	77	32.4	6955
	77	8	51750	16550	35200	350	77	32.3	6940

COOLING PERFORMANCE DATA

VRCF18U01D w/ VCFC18A0VB
 600 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
 2200 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	30	22000	18700	3300	156	76	6.9	1515
	67	23	22200	14750	7450	155	76	6.9	1510
	72	17	22300	10750	11550	156	77	6.9	1515
	77	11	22400	7050	15350	157	77	6.9	1520
65	62	29	21600	18500	3100	167	77	7.1	1555
	67	23	21750	14550	7200	168	77	7.1	1560
	72	17	21850	10600	11250	168	78	7.1	1560
	77	11	21950	6900	15050	168	78	7.1	1565
70	62	29	21100	18300	2800	180	78	7.3	1605
	67	23	21250	14350	6900	181	78	7.4	1610
	72	16	21350	10400	10950	181	78	7.4	1610
	77	11	21400	6750	14650	181	79	7.4	1615
75	62	29	20600	18100	2500	193	78	7.6	1655
	67	22	20750	14200	6550	193	79	7.6	1655
	72	16	20850	10250	10600	194	79	7.6	1660
	77	10	20950	6600	14350	194	79	7.6	1660
80	62	28	20100	17900	2200	207	79	7.8	1705
	67	22	20250	14000	6250	207	80	7.8	1705
	72	16	20350	10100	10250	207	80	7.8	1710
	77	10	20450	6450	14000	208	80	7.9	1715
85	62	28	19600	17700	1900	222	80	8.1	1760
	67	22	19750	13800	5950	221	81	8.1	1760
	72	16	19850	9900	9950	222	81	8.1	1765
	77	10	19900	6300	13600	222	81	8.1	1770
90	62	28	19100	17500	1600	236	81	8.3	1810
	67	22	19250	13600	5650	236	82	8.3	1815
	72	15	19300	9750	9550	237	82	8.4	1820
	77	10	19400	6200	13200	237	82	8.4	1820
95	62	27	18600	17300	1300	250	82	8.6	1860
	67	21	18700	13450	5250	252	83	8.6	1870
	72	15	18800	9550	9250	253	83	8.6	1875
	77	10	18900	6050	12850	251	83	8.6	1875
100	62	27	18100	17100	1000	266	83	8.8	1915
	67	21	18150	13250	4900	268	83	8.9	1930
	72	15	18250	9400	8850	268	84	8.9	1930
	77	9	18350	5900	12450	268	84	8.9	1930
105	62	27	17550	16900	650	283	84	9.1	1975
	67	21	17600	13050	4550	285	84	9.1	1985
	72	15	17700	9250	8450	284	85	9.1	1985
	77	9	17800	5750	12050	284	85	9.1	1990
110	62	26	17000	16650	350	300	85	9.3	2035
	67	20	17100	12850	4250	301	85	9.4	2040
	72	14	17150	9050	8100	301	86	9.4	2045
	77	9	17250	5600	11650	301	86	9.4	2045
115	62	26	16400	16400	0	318	86	9.6	2095
	67	20	16550	12650	3900	319	87	9.6	2100
	72	14	16600	8900	7700	318	87	9.6	2100
	77	9	16700	5450	11250	318	87	9.6	2105

COOLING PERFORMANCE DATA

VRCF24U01D w/ VCFC24AOVB

800 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B

2500 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	29	27500	23850	3650	162	73	8.7	1855
	67	22	27750	18700	9050	163	74	8.8	1865
	72	16	27950	13550	14400	163	75	8.8	1865
	77	11	28100	8750	19350	163	75	8.8	1865
65	62	28	26900	23650	3250	175	74	9.0	1915
	67	22	27200	18500	8700	175	75	9.1	1920
	72	16	27400	13350	14050	175	75	9.1	1920
	77	10	27500	8600	18900	176	76	9.1	1930
70	62	28	26300	23400	2900	188	75	9.3	1975
	67	22	26550	18300	8250	188	76	9.4	1980
	72	16	26750	13150	13600	188	76	9.4	1985
	77	10	26900	8450	18450	189	77	9.4	1985
75	62	28	25700	23150	2550	202	76	9.7	2035
	67	22	25950	18050	7900	202	77	9.7	2045
	72	16	26100	12950	13150	202	77	9.7	2045
	77	10	26250	8250	18000	203	77	9.7	2050
80	62	27	25100	22900	2200	216	77	10.0	2100
	67	21	25300	17800	7500	216	77	10.0	2105
	72	15	25500	12750	12750	217	78	10.0	2110
	77	10	25650	8100	17550	216	78	10.0	2115
85	62	27	24450	22650	1800	230	78	10.3	2165
	67	21	24700	17600	7100	231	78	10.3	2175
	72	15	24850	12550	12300	232	79	10.4	2180
	77	9	25000	7900	17100	231	79	10.4	2180
90	62	27	23850	22400	1450	245	79	10.6	2230
	67	21	24050	17350	6700	246	79	10.7	2240
	72	15	24200	12350	11850	247	80	10.7	2245
	77	9	24350	7700	16650	247	80	10.7	2250
95	62	27	23200	22150	1050	261	79	10.9	2295
	67	21	23400	17150	6250	262	80	11.0	2310
	72	15	23550	12150	11400	263	81	11.0	2315
	77	9	23700	7550	16150	263	81	11.1	2320
100	62	26	22500	21900	600	278	80	11.3	2370
	67	20	22700	16900	5800	279	81	11.4	2380
	72	14	22850	11900	10950	279	81	11.4	2385
	77	9	23000	7350	15650	279	82	11.4	2390
105	62	26	21850	21650	200	295	81	11.6	2440
	67	20	22050	16650	5400	296	82	11.7	2450
	72	14	22150	11700	10450	297	83	11.7	2460
	77	9	22300	7150	15150	297	83	11.7	2465
110	62	26	21150	21150	0	313	82	12.0	2515
	67	20	21350	16400	4950	314	83	12.0	2525
	72	14	21450	11500	9950	313	83	12.0	2530
	77	8	21550	6950	14600	315	84	12.1	2540
115	62	25	20450	20450	0	331	84	12.3	2585
	67	19	20600	16150	4450	332	84	12.4	2600
	72	13	20750	11250	9500	332	85	12.4	2605
	77	8	20850	6800	14050	332	85	12.4	2610

COOLING PERFORMANCE DATA

VRCF30U01D w/ VCFC30AOVB
1000 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
3000 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	29	34850	29900	4950	152	72	11.0	2415
	67	23	35250	23500	11750	152	73	11.0	2420
	72	16	35500	17050	18450	152	73	11.0	2425
	77	11	35650	11050	24600	153	74	11.0	2430
65	62	29	34150	29650	4500	163	73	11.3	2490
	67	22	34500	23250	11250	164	74	11.3	2495
	72	16	34750	16800	17950	164	74	11.4	2500
	77	11	34900	10850	24050	165	75	11.4	2505
70	62	28	33350	29300	4050	177	74	11.7	2570
	67	22	33700	22950	10750	177	75	11.7	2575
	72	16	33950	16550	17400	177	75	11.7	2580
	77	10	34200	10650	23550	177	75	11.7	2580
75	62	28	32600	29050	3550	190	75	12.0	2645
	67	22	32950	22650	10300	191	75	12.1	2655
	72	16	33200	16300	16900	191	76	12.1	2660
	77	10	33400	10450	22950	191	76	12.1	2665
80	62	28	31900	28750	3150	203	76	12.4	2725
	67	22	32200	22400	9800	204	76	12.5	2740
	72	16	32400	16050	16350	204	77	12.5	2740
	77	10	32600	10200	22400	205	77	12.5	2750
85	62	27	31050	28400	2650	218	77	12.8	2815
	67	21	31400	22100	9300	219	77	12.9	2820
	72	15	31650	15800	15850	219	78	12.9	2825
	77	10	31800	10000	21800	219	78	12.9	2835
90	62	27	30300	28100	2200	233	77	13.2	2900
	67	21	30600	21800	8800	234	78	13.3	2910
	72	15	30850	15550	15300	234	78	13.3	2915
	77	9	31000	9750	21250	234	79	13.3	2925
95	62	27	29500	27800	1700	249	78	13.7	2990
	67	21	29800	21500	8300	250	79	13.7	3000
	72	15	30000	15300	14700	250	79	13.7	3010
	77	9	30200	9550	20650	250	80	13.8	3015
100	62	27	28650	27450	1200	266	79	14.1	3085
	67	21	29000	21250	7750	266	80	14.1	3090
	72	15	29150	15000	14150	266	80	14.2	3100
	77	9	29300	9300	20000	267	81	14.2	3110
105	62	26	27850	27150	700	282	80	14.5	3170
	67	20	28100	20950	7150	283	81	14.6	3190
	72	14	28300	14750	13550	283	81	14.6	3200
	77	9	28500	9100	19400	283	82	14.6	3205
110	62	26	27000	26800	200	299	81	14.9	3270
	67	20	27250	20650	6600	300	82	15.0	3285
	72	14	27400	14450	12950	301	82	15.0	3295
	77	9	27600	8850	18750	301	83	15.1	3305
115	62	26	26100	26100	0	318	82	15.4	3370
	67	20	26350	20300	6050	318	83	15.4	3385
	72	14	26500	14200	12300	319	83	15.5	3395
	77	8	26700	8600	18100	319	84	15.5	3400

COOLING PERFORMANCE DATA

VRCF36U01D w/ VCFC36AOVB

1200 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B

3000 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	27	40850	35700	5150	155	72	10.9	2895
	67	21	41350	28000	13350	156	73	10.9	2910
	72	15	41700	20300	21400	156	74	10.9	2910
	77	10	42000	13150	28850	157	74	11.0	2920
65	62	27	40000	35400	4600	167	73	11.6	3040
	67	21	40500	27700	12800	168	74	11.6	3050
	72	15	40850	20000	20850	169	74	11.7	3055
	77	10	41100	12900	28200	169	75	11.7	3065
70	62	27	39100	35050	4050	181	74	12.3	3185
	67	21	39550	27350	12200	182	75	12.4	3200
	72	15	39950	19700	20250	182	75	12.4	3195
	77	10	40200	12600	27600	182	76	12.4	3205
75	62	26	38200	34650	3550	194	75	13.0	3320
	67	21	38700	27050	11650	195	75	13.0	3330
	72	15	39000	19400	19600	196	76	13.1	3340
	77	9	39300	12350	26950	196	76	13.1	3340
80	62	26	37300	34300	3000	209	76	13.6	3455
	67	20	37750	26700	11050	209	76	13.7	3465
	72	15	38000	19100	18900	210	77	13.7	3475
	77	9	38300	12100	26200	210	77	13.7	3480
85	62	26	36350	33950	2400	223	76	14.2	3585
	67	20	36800	26350	10450	224	77	14.3	3600
	72	14	37050	18800	18250	225	78	14.4	3610
	77	9	37300	11800	25500	225	78	14.4	3615
90	62	26	35350	33550	1800	239	77	14.8	3715
	67	20	35800	26000	9800	239	78	14.9	3725
	72	14	36050	18450	17600	240	79	14.9	3735
	77	9	36300	11550	24750	240	79	15.0	3745
95	62	25	34350	33150	1200	255	78	15.4	3840
	67	20	34800	25650	9150	255	79	15.5	3855
	72	14	35050	18150	16900	256	80	15.5	3860
	77	9	35300	11250	24050	256	80	15.6	3870
100	62	25	33400	32750	650	270	79	15.9	3960
	67	19	33800	25300	8500	271	80	16.0	3975
	72	14	34050	17850	16200	271	81	16.0	3980
	77	8	34250	11000	23250	272	81	16.1	3995
105	62	25	32300	32300	0	288	80	16.5	4085
	67	19	32700	24900	7800	288	81	16.5	4095
	72	13	32950	17500	15450	289	82	16.6	4105
	77	8	33150	10700	22450	290	82	16.6	4120
110	62	24	31300	31300	0	306	82	16.9	4205
	67	19	31650	24550	7100	306	82	17.0	4220
	72	13	31850	17150	14700	306	83	17.0	4230
	77	8	32100	10400	21700	307	83	17.1	4235
115	62	24	30200	30200	0	323	83	17.4	4320
	67	18	30550	24150	6400	324	83	17.4	4335
	72	13	30750	16800	13950	325	84	17.5	4350
	77	8	30950	10100	20850	325	84	17.5	4360

COOLING PERFORMANCE DATA

VRCF42U01B w/ VCFC42AOVA
1485 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
3000 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER	
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	AMPS	WATTS
60	62	29	51100	44700	6400	175	73	18.9	3155
	67	23	51600	35050	16550	176	73	19.0	3165
	72	16	51900	25350	26550	176	74	19.0	3175
	77	11	52150	16400	35750	177	74	19.1	3185
65	62	29	49850	44200	5650	189	74	19.7	3290
	67	22	50300	34550	15750	189	74	19.8	3305
	72	16	50650	24950	25700	189	75	19.8	3305
	77	10	50950	16050	34900	189	75	19.8	3310
70	62	28	48550	43650	4900	203	75	20.5	3425
	67	22	49050	34100	14950	203	75	20.5	3430
	72	16	49400	24550	24850	203	76	20.5	3435
	77	10	49600	15700	33900	204	76	20.6	3445
75	62	28	47350	43200	4150	216	76	21.2	3545
	67	22	47800	33650	14150	217	76	21.2	3555
	72	16	48050	24100	23950	218	77	21.3	3565
	77	10	48350	15300	33050	218	77	21.3	3575
80	62	28	46050	42650	3400	232	76	21.9	3670
	67	21	46500	33150	13350	232	77	22.0	3685
	72	15	46700	23650	23050	233	78	22.0	3695
	77	10	47050	14950	32100	232	78	22.0	3695
85	62	27	44800	42150	2650	246	77	22.6	3790
	67	21	45100	32650	12450	248	78	22.7	3810
	72	15	45400	23250	22150	248	78	22.7	3820
	77	9	45650	14550	31100	249	79	22.8	3825
90	62	27	43450	41650	1800	263	78	23.3	3915
	67	21	43850	32200	11650	264	79	23.3	3930
	72	15	44100	22800	21300	264	79	23.4	3940
	77	9	44300	14200	30100	264	80	23.4	3950
95	62	27	42100	41100	1000	280	79	23.9	4040
	67	21	42500	31750	10750	280	80	24.0	4050
	72	14	42700	22400	20300	281	80	24.1	4065
	77	9	42950	13850	29100	281	81	24.1	4070
100	62	26	40750	40550	200	297	80	24.6	4165
	67	20	41150	31250	9900	297	81	24.7	4180
	72	14	41350	21950	19400	298	81	24.7	4190
	77	9	41500	13450	28050	299	82	24.8	4205
105	62	26	39350	39350	0	315	82	25.2	4290
	67	20	39700	30750	8950	316	82	25.3	4310
	72	14	40000	21550	18450	315	82	25.3	4315
	77	8	40150	13050	27100	316	83	25.4	4330
110	62	26	37950	37950	0	334	83	25.9	4425
	67	20	38300	30250	8050	334	83	26.0	4445
	72	14	38550	21100	17450	334	84	26.0	4455
	77	8	38750	12700	26050	334	84	26.0	4465
115	62	25	36550	36550	0	353	84	26.5	4565
	67	19	36950	29750	7200	353	84	26.6	4585
	72	13	37100	20650	16450	354	85	26.6	4605
	77	8	37300	12300	25000	354	85	26.7	4615

COOLING PERFORMANCE DATA

VRCF48U01/3B w/ VCFC48AOVA

1600 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B

3700 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER			
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	1 PH AMPS	3 PH AMPS	1 PH WATTS	3 PH WATTS
60	62	28	55700	50350	5350	163	76	14.8	10.7	3590	3520
	67	22	56300	39550	16750	163	76	14.9	10.7	3595	3530
	72	16	56600	28650	27950	164	77	14.9	10.7	3605	3540
	77	10	56900	18600	38300	164	77	15.0	10.7	3615	3550
65	62	27	54450	49850	4600	176	77	15.3	11.0	3740	3680
	67	21	55000	39050	15950	176	77	15.3	11.0	3750	3695
	72	15	55300	28200	27100	177	78	15.4	11.0	3765	3705
	77	10	55650	18250	37400	177	78	15.4	11.0	3765	3710
70	62	27	53150	49300	3850	190	78	15.8	11.2	3890	3835
	67	21	53700	38550	15150	190	78	15.8	11.2	3905	3850
	72	15	54000	27750	26250	191	79	15.9	11.2	3910	3850
	77	10	54300	17850	36450	191	79	15.9	11.3	3925	3865
75	62	27	51850	48750	3100	204	78	16.2	11.5	4040	3985
	67	21	52350	38050	14300	205	79	16.3	11.5	4055	3995
	72	15	52750	27350	25400	205	80	16.3	11.5	4060	4005
	77	10	53000	17450	35550	205	80	16.4	11.6	4075	4025
80	62	26	50550	48200	2350	219	79	16.8	11.8	4190	4135
	67	21	51100	37550	13550	219	80	16.8	11.8	4200	4145
	72	15	51400	26900	24500	220	81	16.8	11.8	4215	4160
	77	9	51700	17050	34650	220	81	16.9	11.8	4220	4165
85	62	26	49200	47650	1550	235	80	17.3	12.0	4335	4275
	67	20	49750	37050	12700	235	81	17.3	12.1	4350	4300
	72	14	50000	26400	23600	236	82	17.4	12.1	4365	4305
	77	9	50300	16650	33650	236	82	17.4	12.1	4370	4315
90	62	26	47900	47100	800	251	81	17.8	12.3	4480	4425
	67	20	48350	36500	11850	252	82	17.9	12.4	4495	4440
	72	14	48700	26000	22700	252	82	17.9	12.4	4505	4460
	77	9	49000	16250	32750	252	83	18.0	12.4	4515	4470
95	62	25	46550	46550	0	268	82	18.4	12.6	4625	4570
	67	20	47000	36000	11000	268	83	18.5	12.6	4645	4590
	72	14	47300	25500	21800	269	83	18.6	12.7	4655	4600
	77	9	47550	15850	31700	269	84	18.6	12.7	4665	4610
100	62	25	45150	45150	0	285	83	19.1	12.9	4770	4715
	67	19	45550	35500	10050	286	84	19.1	12.9	4795	4735
	72	14	45850	25050	20800	286	84	19.2	12.9	4805	4745
	77	8	46100	15450	30650	287	85	19.2	12.9	4820	4760
105	62	25	43750	43750	0	302	84	19.7	13.1	4920	4860
	67	19	44150	34950	9200	303	85	19.8	13.2	4950	4885
	72	13	44400	24550	19850	304	86	19.8	13.2	4965	4895
	77	8	44650	15050	29600	305	86	19.9	13.2	4980	4910
110	62	24	42300	42300	0	321	86	20.3	13.3	5085	5005
	67	19	42700	34450	8250	322	86	20.4	13.4	5110	5030
	72	13	42950	24100	18850	322	87	20.4	13.4	5130	5045
	77	8	43150	14600	28550	323	87	20.5	13.4	5155	5050
115	62	24	40900	40900	0	340	87	20.9	13.5	5260	5150
	67	19	41250	33900	7350	341	87	21.0	13.5	5290	5180
	72	13	41500	23600	17900	341	88	21.0	13.5	5315	5195
	77	8	41700	14200	27500	343	88	21.0	13.5	5345	5205

COOLING PERFORMANCE DATA

VRCF60U01/3B w/ VCFC60AOVA
1850 CFM INDOOR AIR @ 80°F D.B. and LISTED W.B
3500 CFM OUTDOOR AIR

OUTDOOR AMBIENT TEMP (DB)	INDOOR WET BULB TEMP (WB)	INDOOR AIR TEMP DROP (ΔT)	UNIT CAPACITY BTUH			PRESSURES		OUTDOOR UNIT POWER			
			TOTAL	SENSIBLE	LATENT	HEAD	SUCTION	1 PH AMPS	3 PH AMPS	1 PH WATTS	3 PH WATTS
60	62	29	66400	56700	9700	166	69	21.4	15.3	4665	4560
	67	22	67100	44600	22500	167	69	21.5	15.3	4680	4565
	72	16	67500	32450	35050	167	70	21.6	15.3	4695	4575
	77	11	67900	21250	46650	168	70	21.6	15.3	4705	4575
65	62	28	65100	56150	8950	179	69	22.4	15.7	4875	4780
	67	22	65700	44100	21600	179	70	22.5	15.8	4895	4805
	72	16	66100	32000	34100	180	70	22.6	15.8	4910	4800
	77	10	66500	20850	45650	181	71	22.6	15.8	4920	4820
70	62	28	63750	55600	8150	192	70	23.4	16.2	5075	5000
	67	22	64350	43600	20750	193	71	23.4	16.3	5095	5015
	72	16	64800	31550	33250	193	71	23.5	16.3	5105	5030
	77	10	65150	20450	44700	193	72	23.5	16.3	5115	5040
75	62	28	62400	55050	7350	205	71	24.2	16.7	5270	5215
	67	22	62950	43050	19900	206	72	24.4	16.7	5295	5220
	72	16	63400	31100	32300	207	72	24.4	16.8	5305	5235
	77	10	63750	20050	43700	207	72	24.5	16.8	5320	5245
80	62	27	60950	54450	6500	220	72	25.2	17.2	5470	5405
	67	21	61550	42550	19000	220	72	25.2	17.2	5490	5430
	72	15	61850	30600	31250	222	73	25.3	17.2	5510	5435
	77	10	62300	19650	42650	221	73	25.4	17.3	5515	5450
85	62	27	59450	53900	5550	235	73	26.0	17.7	5665	5605
	67	21	60050	42000	18050	236	73	26.1	17.7	5690	5630
	72	15	60400	30150	30250	236	74	26.2	17.8	5705	5640
	77	10	60700	19200	41500	237	74	26.3	17.8	5720	5655
90	62	27	58050	53300	4750	250	73	26.8	18.2	5845	5795
	67	21	58600	41500	17100	250	74	26.9	18.2	5870	5815
	72	15	58950	29650	29300	251	74	27.0	18.3	5890	5830
	77	9	59250	18750	40500	252	75	27.1	18.3	5910	5845
95	62	27	56450	52700	3750	266	74	27.7	18.7	6045	5985
	67	21	57000	40900	16100	267	75	27.8	18.8	6075	6005
	72	15	57400	29150	28250	267	75	27.9	18.8	6080	6025
	77	9	57750	18350	39400	267	76	27.9	18.8	6095	6035
100	62	26	54950	52100	2850	282	75	28.5	19.2	6225	6165
	67	20	55400	40350	15050	283	76	28.6	19.3	6255	6185
	72	14	55800	28650	27150	283	76	28.7	19.3	6265	6205
	77	9	56050	17900	38150	284	77	28.8	19.4	6290	6215
105	62	26	53300	51450	1850	299	76	29.3	19.8	6405	6340
	67	20	53800	39750	14050	300	77	29.4	19.9	6430	6375
	72	14	54100	28100	26000	301	77	29.5	19.9	6450	6385
	77	9	54400	17450	36950	301	78	29.6	20.0	6460	6410
110	62	26	51650	50800	850	316	77	30.1	20.4	6575	6520
	67	20	52150	39150	13000	317	78	30.1	20.5	6595	6550
	72	14	52350	27550	24800	318	78	30.2	20.5	6615	6575
	77	9	52650	16950	35700	318	79	30.3	20.6	6625	6590
115	62	25	49900	49900	0	334	78	30.8	21.0	6735	6705
	67	19	50250	38500	11750	335	79	30.9	21.1	6760	6735
	72	14	50550	27000	23550	335	79	30.9	21.1	6765	6755
	77	8	50800	16450	34350	336	80	31.0	21.2	6775	6775

COOLING PERFORMANCE DATA

PERFORMANCE TEST

All data based upon listed indoor dry bulb temperature. .00 inches external static pressure on coil of outdoor section. Indoor air cubic feet per minute (CFM) as listed in the Performance Data Sheets:

If conditions vary from this, results will change as follows:

1. As indoor dry bulb temperatures increase, a slight increase will occur in indoor air temperature drop (ΔT). Low and high side pressures and power will not change.
2. As indoor CFM decreases, a slight increase will occur in indoor temperature drop (ΔT). A slight decrease will occur in low and high side pressures and power.

A properly operating unit should be within plus or minus **3 degrees** of the typical (ΔT) value shown.

A properly operating unit should be within plus or minus **7 PSIG** of the **head pressure** shown.

A properly operating unit should be within plus or minus **3 PSIG** of the **suction pressure** shown.

A properly operating unit should be within plus or minus **3 Amps** of the typical value shown.

SCHEDULED MAINTENANCE

The owner should be made aware of the fact, that, as with any mechanical equipment the remote air conditioner requires regularly scheduled maintenance to preserve high performance standards, prolong the service life of the equipment, and lessen the chances of costly failure.

In many instances the owner may be able to perform some of the maintenance, however, the advantage of a service contract, which places all maintenance in the hands of a trained serviceman, should be pointed out to the owner.



DISCONNECT POWER SUPPLY BEFORE SERVICING

ONCE A MONTH

1. Inspect the return filters of the evaporator unit and clean or change if necessary. **NOTE:** Depending on operation conditions, it may be necessary to clean the filters more often. If permanent type filters are used, they should be washed with warm water, dried and sprayed with an adhesive according to manufacturers recommendations.

2. When operating on the cooling cycle, inspect the condensate line piping from the evaporator coil. Make sure the piping is clear for proper condensate flow.

ONCE A YEAR

Qualified Service Personnel Only

1. Clean the indoor and outdoor coils.
2. Clean the casing of the outdoor unit inside and out .
3. Lightly lubricate (approx. 4 drops) both bearings of the outdoor fan motor and indoor blower motor no more than once per year with SAE 20 or 30 motor oil. **TO AVOID PREMATURE MOTOR FAILURE, DO NOT OVER OIL.**
4. Manually rotate the outdoor fan and indoor blower to be sure they run freely.
5. Inspect the control panel wiring, compressor connections, and all other component wiring to be sure all connections are tight. Inspect wire insulation to be certain that it is good.
6. Check the contacts of the compressor contactor. If they are burned or pitted, replace the contactor.
7. Using a halide or electronic leak detector, check all piping and etc. for refrigerant leaks.
8. Start the system and run a Cooling Performance Test. If the results of the test are not satisfactory, see the "Service Problem Analysis" Chart of the possible cause.

SERVICING

TEST EQUIPMENT

Proper test equipment for accurate diagnosis is as essential as regular hand tools.

The following is a must for every service technician and service shop:

1. Thermocouple type temperature meter - measure dry bulb temperature.
2. Sling psychrometer - measure relative humidity and wet bulb temperature.
3. Amprobe - measure amperage and voltage.
4. Refrigeration test cord - check compressors, motors, and continuity testing.
5. Volt-Ohm meter - testing continuity, capacitors, and motor windings.
6. Accurate Leak Detector - testing for refrigerant leaks.

7. High evacuation pump - evacuation.
8. Electric vacuum gauge, manifold, and high vacuum hoses - to measure and obtain proper vacuum.
9. Accurate charging cylinder or electronic scale - measure proper refrigerant charge.
10. Inclined manometer - measure static pressure and pressure drop across coils.

Other recording type instruments can be essential in solving abnormal problems, however, in many instances they may be rented from local sources.

Proper equipment promotes faster, more efficient service, and accurate repairs with less call backs.

COOLING PERFORMANCE TEST

Before attempting to diagnose an operating fault, run a Cooling Performance Test and apply the results to the Service Problem Analysis Guide.

SERVICING

Complaint	No Cooling							Unsatisfactory Cooling			System Operating Pressures				Test Method Remedy	See Service Procedure Reference		
	SYMPTOM	System will not start	Compressor will not start - fan runs	Compressor and Condenser Fan will not start	Evaporator fan will not start	Condenser fan will not start	Compressor runs - goes off on overload	Compressor cycles on overload	System runs continuously - little cooling	Too cool and then too warm	Not cool enough on warm days	Certain areas to cool others to warm	Compressor is noisy	Low suction pressure			Low head pressure	High suction pressure
Power Failure	●																Test Voltage	S-1
Blown Fuse	●		●	●													Impact Fuse Size & Type	S-4
Loose Connection	●		●	●	●	●											Inspect Connection - Tighten	S-2
Shorted or Broken Wires	●	●	●	●	●	●											Test Circuits With Ohmmeter	S-3
Open Overload	●	●		●	●												Test Continuity of Overloads	S-17A
Faulty Thermostat	●			●				●									Test continuity of Thermostat & Wiring	S-3
Faulty Transformer	●		●														Check control circuit with voltmeter	S-4
Shorted or Open Capacitor		●			●	●											Test Capacitor	S-15
Internal Overload Open	●																Test Continuity of Overload	S-17A
Shorted or Grounded Compressor		●				●											Test Motor Windings	S-17B
Compressor Stuck	●					●											Use Test Cord	S-17C
Faulty Compressor Contactor	●	●			●	●											Test continuity of Coil & Contacts	S-7, S-8
Faulty Fan Relay				●													Test continuity of Coil And Contacts	S-7
Open Control Circuit				●													Test Control Circuit with Voltmeter	S-4
Low Voltage		●				●	●										Test Voltage	S-1
Faulty Evap. Fan Motor				●									●				Repair or Replace	S-16
Shorted or Grounded Fan Motor					●											●	Test Motor Windings	S-16
Improper Cooling Anticipator						●	●	●									Check resistance of Anticipator	S-3
Shortage or Refrigerant							●	●					●	●			Test For Leaks, Add Refrigerant	S-103
Restricted Liquid Line							●	●					●	●			Replace Restricted Part	S-112
Undersized Liquid Line								●	●				●				Replace Line	S-120
Undersized Suction Line													●				Replace Line	S-120
Dirty Air Filter								●	●	●	●		●				Inspect Filter-Clean or Replace	
Dirty Evaporator Coil								●	●	●	●		●				Inspect Coil - Clean	
Not enough air across Evaporator Coil								●	●	●	●		●				Speed Blower, Check Dust Static Pressure	S-200
Too much air across Evaporator Coil															●		Reduce Blower Speed	S-200
Overcharge of Refrigerant						●	●						●		●	●	Release Part of Charge	S-113
Dirty Condenser Coil						●	●		●				●				Inspect Coil - Clean	
Noncondensibles							●	●					●			●	Remove Charge, Evacuate, Recharge	S-114
Recirculation of Condensing Air							●		●				●			●	Remove Obstruction to Air Flow	
Infiltration of Outdoor Air								●	●	●							Check Windows, Doors, Vent Fans, Etc.	
Improperly Located Thermostat						●			●								Relocate Thermostat	
Air Flow Unbalanced									●	●							Readjust Air Volume Dampers	
System Undersized								●	●								Refigure Cooling Load	
Broken Internal Parts													●				Replace Compressor	
Broken Valves													●				Test compressor Efficiency	S-104
Inefficient Compressor								●						●	●		Test Compressor Efficiency	S-104
High Pressure Control Open															●		Reset And Test Control	S-12
Unbalanced Power, 3PH		●				●	●										Test Voltage	
Wrong Type Expansion Valve						●	●		●								Replace Valve	
Expansion Valve Restricted						●	●	●	●				●	●			Replace Valve	
Oversized Expansion Valve													●		●		Replace Valve	
Undersized Expansion Valve						●	●	●	●				●				Replace Valve	
Expansion Valve Bulb Loose													●		●		Tighten Bulb Bracket	
Inoperative Expansion Valve						●	●						●				Check Valve Operation	S-110
Loose Hold-down Bolts													●				Tighten Bolts	

SERVICING

S-1 CHECKING VOLTAGE

Disconnect Electrical Power Supply:

1. Remove outer case, control panel cover, etc. from unit being tested.

With power ON:



WARNING

LINE VOLTAGE NOW PRESENT

2. Using a voltmeter, measure the voltage across terminals L1 and L2 of the contactor for the condensing unit or at the field connections for the air handler or heaters.
3. No reading - indicates open wiring, open fuse(s) no power or etc. from unit to fused disconnect service. Repair as needed.
4. With ample voltage at line voltage connectors, energize the unit.
5. Measure the voltage with the unit starting and operating, and determine the unit Locked Rotor Voltage. NOTE: If checking heaters, be sure all heating elements are energized.

Locked Rotor Voltage is the actual voltage available at the compressor during starting, locked rotor, or a stalled condition. Measured voltage should be above minimum listed in chart below.

To measure Locked Rotor Voltage attach a voltmeter to the run "R" and common "C" terminals of the compressor, or to the T₁ and T₂ terminals of the contactor. Start the unit and allow the compressor to run for several seconds, then shut down the unit. Immediately attempt to restart the unit while measuring the Locked Rotor Voltage.

6. Should read within the voltage tabulation as shown. If the voltage falls below the minimum voltage, check the line wire size. Long runs of undersized wire can cause low voltage. If wire size is adequate, notify the local power company in regards to either low or high voltage.

REMOTE CONDENSING UNITS BLOWER COILS		
VOLTAGE	MIN.	MAX.
208/230	198	253
115	104	127

NOTE: When operating electric heaters on voltages other than 240 volts refer to the System Operation section on electric heaters to calculate temperature rise and air flow. Low voltage may cause insufficient heating.

S-2 CHECKING WIRING

Disconnect Electrical Power Supply:

1. Check wiring visually for signs of overheating, damaged insulation and loose connections.
2. Use an ohmmeter to check continuity of any suspected open wires.
3. If any wires must be replaced, replace with comparable gauge and insulation thickness.

S-3 CHECKING THERMOSTAT, WIRING, AND ANTICIPATOR

S-3A Thermostat and Wiring

With power ON, thermostat calling for cooling

1. Use a voltmeter to check for 24 volts at thermostat wires C and Y in the condensing unit control panel.
2. No voltage indicates trouble in the thermostat, wiring or external transformer source.
3. Check the continuity of the thermostat and wiring. Repair or replace as necessary.

Indoor Blower Motor

With power ON:

1. Set fan selector switch at thermostat to "ON" position.
2. With voltmeter, check for 24 volts at wires C and G.
3. No voltage, indicates the trouble is in the thermostat or wiring.
4. Check the continuity of the thermostat and wiring. Repair or replace as necessary.

Resistance Heaters

1. Set room thermostat to a higher setting than room temperature so both stages call for heat.
2. With voltmeter, check for 24 volts at each heater relay.
3. No voltage, indicates the trouble is in the thermostat or wiring.
4. Check the continuity of the thermostat and wiring. Repair or replace as necessary.

NOTE: Consideration must be given as to how the heaters are wired (O.D.T. and etc.). Also safety devices must be checked for continuity.

SERVICING

S-3B Cooling Anticipator

The cooling anticipator is a small heater (resistor) in the thermostat. During the "off" cycle it heats the bi-metal element helping the thermostat call for the next cooling cycle. This prevents the room temperature from rising too high before the system is restarted. A properly sized anticipator should maintain room temperature within 1 1/2 to 2 degree range.

The anticipator is supplied in the thermostat and is not to be replaced. If the anticipator should fail for any reason, the thermostat must be changed.

S-3 Heating Anticipator

The heating anticipator is a wire wound adjustable heater, which is energized during the "ON" cycle to help prevent overheating of the conditioned space.

The anticipator is a part of the thermostat and if it should fail for any reason, the thermostat must be replaced. See the following tables for recommended heater anticipator setting in accordance to the number of electric heaters installed.

AHKHEATERKITS

NO. OF HEATERS	0	1	2	3	4	5
HEATER KW	0	4.8	7.3	9.6	15	20
FIRST STAGE	.40	.40	.40	.40	.40	.40
SECOND STAGE		.17	.17	.17	.34	.34

BHKHEATERKITS

NO. OF HEATERS	0	1	2	3	4	5	6
HEATER KW	0	4.8	9.6	15	20	25	30
FIRST STAGE	.50	.50	.50	.50	.50	.50	.50
SECOND STAGE		.22	.22	.39	.39	.55	.55

EBCU/EBCH

NO. OF HEATERS	0	1	2	3	4	5	6
HEATER KW	0	4.8	9.6	15	20	25	30
FIRST STAGE	.50	.50	.50	.50	.50	.50	.50
SECOND STAGE		.17	.34	.52	.69	.86	1.0

S-4 CHECKING TRANSFORMER AND CONTROL CIRCUIT

A step-down transformer (208/240 volt primary to 24 volt

secondary) is provided with each indoor unit. This allows ample capacity for use with resistance heaters. The outdoor sections do not contain a transformer.

Disconnect Electrical Power Supply:

1. Remove control panel cover or etc. to gain access to transformer.

With power ON:



LINE VOLTAGE NOW PRESENT

2. Using a voltmeter, check voltage across secondary voltage side of transformer (R to C).
3. No voltage indicates faulty transformer, bad wiring, or bad splices.
4. Check transformer primary voltage at incoming line voltage connections and/or splices.
5. If line voltage available at primary voltage side of transformer and wiring and splices good, transformer is inoperative. Replace.

S-5 CHECKING CYCLE PROTECTOR

Some models feature a solid state, delay on make after break time delay relay installed in the low voltage circuit. This control is used to prevent short cycling of the compressor under certain operating conditions.

The component is normally closed (R₁ to Y₁). A power interruption will break circuit (R₁ to Y₁) for approximately three minutes before resetting.

Disconnect Electrical Power Supply:

1. Remove wire from Y₁ terminal.
2. Wait for approximately four (4) minutes if machine was running.

With power ON:



LINE VOLTAGE NOW PRESENT

1. Apply 24 VAC to terminals R₁ and R₂.
2. Should read 24 VAC at terminals Y₁ and Y₂.
3. Remove 24 VAC at terminals R₁ and R₂.

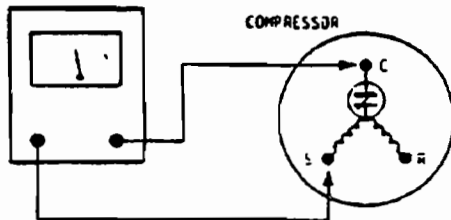
SERVICING

Disconnect Electrical Power Supply:

1. Remove unit wiring from disconnect switch and wire a test cord to the disconnect switch.

NOTE: The wire size of the test cord must equal the line wire size and the fuse must be of the proper size and type.

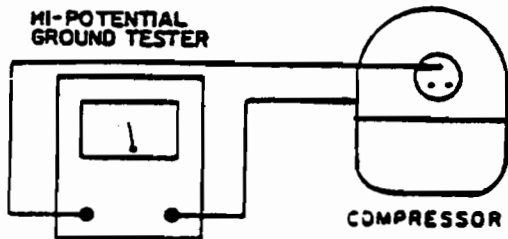
2. With the protective terminal cover in place, use the three leads to the compressor terminals that were disconnected at the nearest point to the compressor and connect the common, start and run clips to the respective leads.



TESTING COMPRESSOR WINDINGS

WARNING

DAMAGE CAN OCCUR TO THE GLASS EMBEDDED TERMINALS AS AT THIS POINT IF THE LEADS ARE NOT PROPERLY REMOVED, WHICH CAN RESULT IN THE TERMINAL VENTING AND HOT OIL DISCHARGING.



COMPRESSOR GROUND TEST

3. Connect good capacitors of the right MFD and voltage rating into the circuit as shown.
4. With power ON, close the switch.

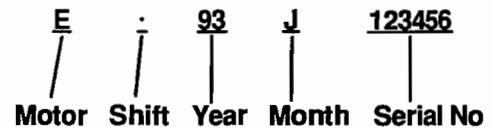
WARNING

LINE VOLTAGE NOW PRESENT

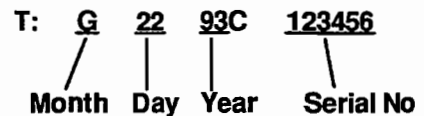
- A. If the compressor starts and continues to run, the cause for failure is somewhere else in the system.
- B. If the compressor fails to start - replace.

Compressor Serial Number Identification

COPELAND COMPRESSOR



TECUMSEH COMPRESSOR



S-18 TESTING CRANKCASE HEATER

The crankcase heater must be energized a minimum of four (4) hours before the condensing unit is operated.

Crankcase heaters are used to prevent migration or accumulation of refrigerant in the compressor crankcase during the off cycles and prevents liquid slugging or oil pumping on start up.

A crankcase heater will not prevent compressor damage due to a floodback or over charge condition.

Disconnect Electrical Power Supply:

1. Disconnect the heater lead in wires.
2. Using an ohmmeter, check heater continuity - should test continuous, if not, replace.

NOTE: The positive temperature coefficient crankcase heater is a 40 watt 265 voltage heater. The cool resistance of the heater will be approximately 1800 ohms. The resistance will become greater as the temperature of the compressor shell increases.

S-50 CHECKING HEATER LIMIT CONTROL(S) (OPTIONAL ELECTRIC HEATERS)

Each individual heater element is protected with an automatic rest limit control connected in series with each element to prevent overheating of components in case of low airflow. This limit control will open its circuit at approximately 150°F. and close at 110°F,

Disconnect Electrical Power Supply:

1. Remove the wiring from the control terminals.

SERVICING

- Using an ohmmeter test for continuity across the normally closed contacts. No reading indicates the control is open - replace if necessary.

IF FOUND OPEN - REPLACE - DO NOT WIRE AROUND.

S-51 CHECKING HEATER FUSE LINK (OPTIONAL ELECTRIC HEATERS)

Each individual heater element is protected with a one time fuse link which is connected in series with the element. The fuse link will open at approximately 333° temperature.

Disconnect Electrical Power Supply:

- Remove heater element assembly so as to expose fuse link.
- Using an ohmmeter, test across the fuse link for continuity - no reading indicates the link is open. Replace as necessary.

NOTE: The link is designed to open at approximately 333°F. DO NOT WIRE AROUND - determine reason for failure.

S-52 CHECKING HEATER ELEMENTS

Disconnect Electrical Power Supply:

- Disassemble and remove the heating element.
- Visually inspect the heater assembly for any breaks in the wire or broken insulators.
- Using an ohmmeter, test the element for continuity - no reading indicates the element is open. Replace as necessary.

S-53 OUTDOOR TEMPERATURE CONTROL (OPTIONAL ITEM)

ATK02 or ODTK01 This kit includes an ambient thermostat mounted in a weatherproof box for installation exterior to the unit. This kit is used for ambient control on all Amana package models and remote cooling models.

ATK04 or ODTK04 This kit is the same as the ATK01 except that the thermostat has a 25° limit. This kit is required when installing 24.0 or 28.8 KW electric heat in the SPHO or PHA48 or 60 models.

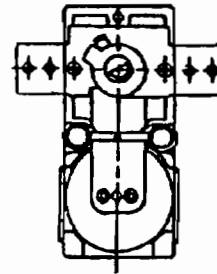
ATK05 or ODTK02 This kit includes an ambient thermostat and mounting bracket. It can be installed on the control boxes of all Amana remote heat pumps. This kit is also used to control additional heaters for all applications, add to the

control box of Amana remote heat pumps; add to the weatherproof box (ATK01, ATK04) of Amana package and remote cooling models.

ATK06 This kit is the same as the ATK05 except that the thermostat has a 25° limit. This kit is required when installing 24.0 or 28.8 KW electric heat with the SRHF42-60 or ERHF42-60 models.

Disconnect Electrical Power Supply:

- Remove field connected low voltage wires from control terminals.
- In ambient temperature below 60°F., set the knob to correspond with the actual temperature of the control.
- Using an ohmmeter, test for continuity between the control terminals. Should not test continuous. The control is designed to open at this point with a manual differential of approximately 4°F.
- In ambient temperature above 60°F., it will be necessary to chill the control.



OUTDOOR TEMPERATURE CONTROL

S-100 REFRIGERATION REPAIR PRACTICE



ALWAYS REMOVE THE REFRIGERANT CHARGE IN A PROPER MANNER BEFORE APPLYING HEAT TO THE SYSTEM.

When repairing the refrigeration system:

- Never open a system that is under vacuum. Air and moisture will be drawn in.
- Plug or cap all openings.
- Remove all burrs and clean the brazing surfaces of the tubing with sand cloth or paper. Brazing materials do not flow well on oxidized or oily surfaces.
- Clean the inside of all new tubing to remove oils and pipe chips.

SERVICING

5. When brazing, sweep the tubing with dry nitrogen to prevent the formation of oxides on the inside surfaces.
6. Complete any repair by replacing the liquid line drier in the system, evacuate and charge.

BRAZING MATERIALS

Copper to Copper Joints - Sil-Fos used without flux (alloy of 15% silver, 80% copper, and 5% phosphorous). Recommended heat 1400°F.

Copper to Steel Joints - Silver Solder used without a flux (alloy of 30% silver, 38% copper, 32% zinc). Recommended heat - 1200°F.

S-101 LEAK TESTING

Refrigerant leaks are best detected with a halide or electronic leak detector.

However, on outdoor installed systems, provisions must be made to shield the copper element of a halide torch from the sun and wind conditions in order to be able to see the element properly.

NOTE: The flame of the halide detector will glow green in the presence of R-22 refrigerant.

For a system that contains a refrigerant charge and is suspected of having a leak, stop the operation and hold the exploring tube of the detector as close to the tube as possible, check all piping and fittings. If a leak is detected, do not attempt to apply more brazing to the joint. Remove and capture the charge, unbrazed the joint, clean and re-braze.

For a system that has been newly repaired and does not contain a charge, connect a cylinder of refrigerant, through a gauge manifold, to the liquid and suction line dill valves and/or liquid line dill valve and compressor process tube.

NOTE: Refrigerant hoses must be equipped with dill valve depressors or special adaptor used. Open the valve on the cylinder and manifold and allow the pressure to build up within the system. Check for and handle leaks, as described above. After the test has been completed, remove and capture the leak test refrigerant.

S-102 EVACUATION


This is the most important part of the entire service procedure. The life and efficiency of the equipment is dependent upon the thoroughness exercised by the serviceman when evacuating air (non-condensables) and moisture from the system.

Air in a system causes high condensing temperature and pressure, resulting in increased power input and reduced performance.

Moisture chemically reacts with the refrigerant and oil to form corrosive hydrofluoric and hydrochloric acids. These attack motor windings and parts, causing breakdown.

The equipment required to thoroughly evacuate the system is a high vacuum pump, capable of producing a vacuum equivalent to 25 microns absolute and a thermocouple vacuum gauge to give a true reading of the vacuum in the system

NOTE: Never use the system compressor as a vacuum pump or run when under a high vacuum. Motor damage could occur.

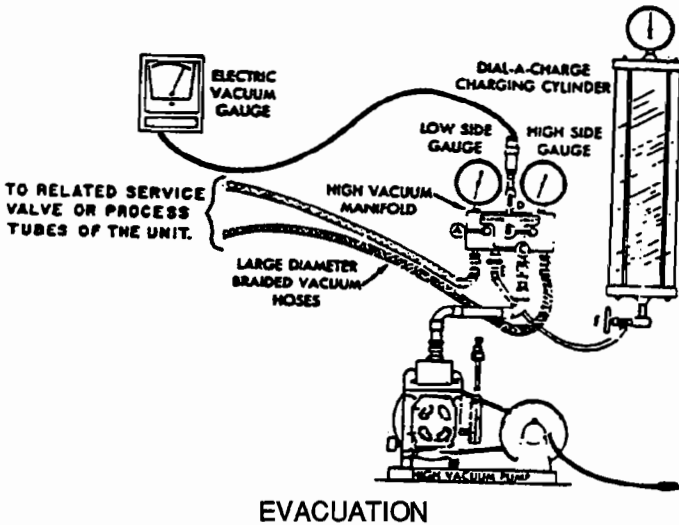
 **WARNING** **SCROLL COMPRESSORS**
DO NOT FRONT SEAT THE SERVICE VALVE(S) WITH THE COMPRESSOR OPERATING IN AN ATTEMPT TO SAVE REFRIGERANT. WITH THE SUCTION LINE OF THE COMPRESSOR CLOSED OR SEVERELY RESTRICTED, THE SCROLL COMPRESSOR CAN AND WILL DRAW A DEEP VACUUM VERY QUICKLY. THIS VACUUM CAN CAUSE INTERNAL ARCING OF THE FUSITE RESULTING IN A DAMAGED OR FAILED COMPRESSOR.

1. Connect the vacuum pump, vacuum tight manifold set with high vacuum hoses, thermocouple vacuum gauge and charging cylinder as shown.
2. If the service schrader valves are to be used for evacuation, it is recommended that a core remover be used to lift the core for greater efficiency.
3. Start the vacuum pump and open the shut off valve to the high vacuum gauge manifold only. After the compound gauge (low side) has dropped to approximately 29 inches of vacuum, open the valve to the vacuum thermocouple gauge. See that the vacuum pump will blank-off to a maximum of 25 microns. A high vacuum pump can only produce a good vacuum if its oil is non-contaminated.
4. If the vacuum pump is working properly, close the valve to the vacuum thermocouple gauge and open the high and low side valves to the high vacuum manifold set. With the valve on the charging cylinder closed, open the manifold valve to the cylinder.
5. Evacuate the system to at least 29 inches gauge before opening valve to thermocouple vacuum gauge.
6. Continue to evacuate to a maximum of 250 microns.

SERVICING

Close valve to vacuum pump and watch rate of rise. If vacuum does not rise above 1500 microns in three to five minutes, system can be considered properly evacuated.

7. If thermocouple vacuum gauge continues to rise and levels off at about 5000 microns, moisture and non-condensables are still present. If gauge continues to rise a leak is present. Repair and re-evacuate.
8. Close valve to thermocouple vacuum gauge and vacuum pump. Shut off pump and prepare to charge.



S-103 CHARGING

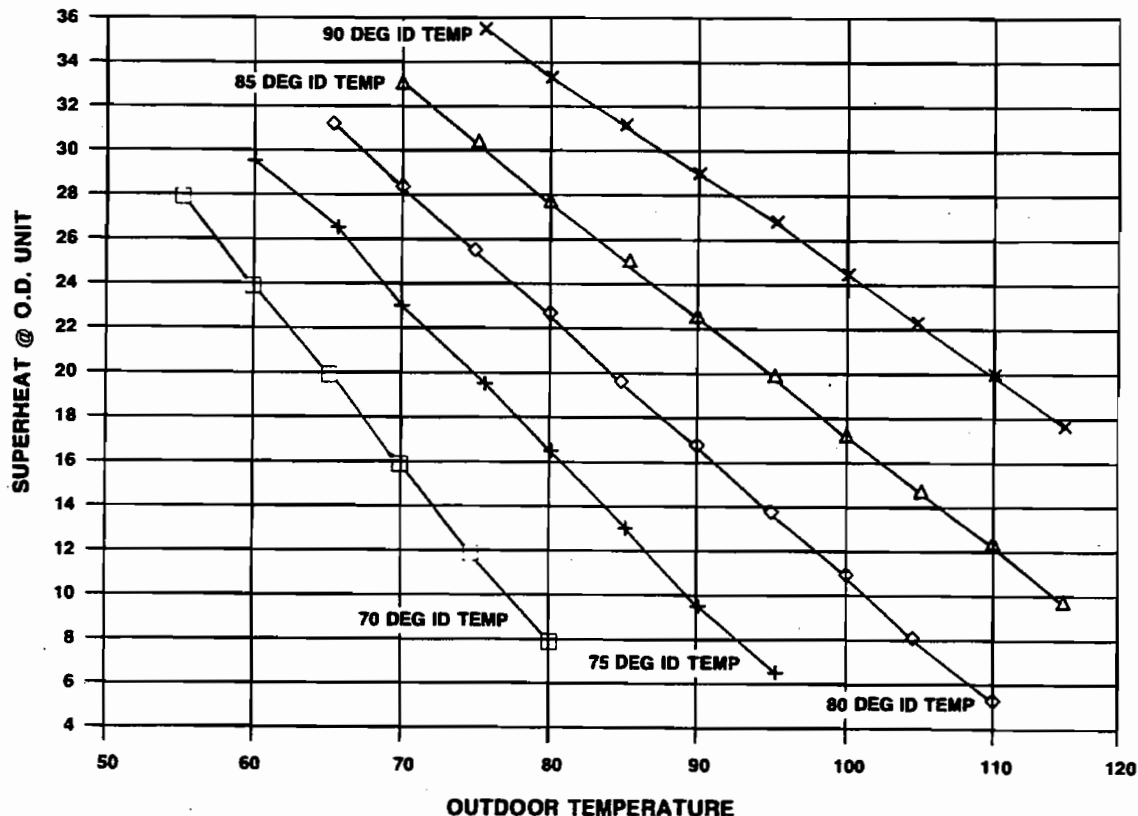
Charge the system with the exact amount of refrigerant.

Refer to the specification section or check the unit nameplates for the correct refrigerant charge.

An inaccurately charged system will cause future problems.

1. When using an ambient compensated calibrated charging cylinder, allow liquid refrigerant only to enter the high side.
2. After the system will take all it will take, close the valve on the high side of the charging manifold.
3. Start the system and charge the balance of the refrigerant through the low side. DO NOT charge in a liquid form.
4. With the system still running, close the valve on the charging cylinder. At this time, you may still have some liquid refrigerant in the charging cylinder hose and will definitely have liquid in the liquid hose. Reseat the liquid line core. Slowly open the high side manifold valve and transfer the liquid refrigerant from the liquid line hose and charging cylinder hose into the suction service valve port. CAREFUL: Watch so that liquid refrigerant does not enter the compressor.

DESIRED SUPERHEAT vs. OUTDOOR TEMP



SERVICING

5. With the system still running, reseal the suction valve core, remove hose and re-install both valve core caps.
6. Check system for leaks.

When charging a remote condensing unit with a non-matching evaporator coil, or a system where the charge quantity is unknown, alternate charging methods must be used. These systems must be charged according to subcooling or superheat.

Coils having capillary tubes or flow control restrictors should be charged to match the Desired Superheat vs. Outdoor Temperature Chart in this section. Coils with thermostatic expansion valves (TEV's) should be charged by subcooling. See "Checking Subcooling and Superheat" sections in this manual.

If a restriction is located, replace the restricted part, replace drier, evacuate and recharge.

S-104 CHECKING COMPRESSOR EFFICIENCY

The reason for compressor inefficiency is broken or damaged suction and/or discharge valves, or scroll flanks on Scroll compressors, reducing the ability of the compressor to pump refrigerant vapor.

The condition of the valves or scroll flanks is checked in the following manner.

1. Attach gauges to the high and low side of the system.
2. Start the system and run a "Cooling Performance Test."

If the test shows:

- a. Below normal high side pressure.
- b. Above normal low side pressure.
- c. Low temperature difference across coil.
- d. Low amp draw at compressor.

and the charge is correct. The compressor is faulty - replace the compressor.

S-105 THERMOSTATIC EXPANSION VALVE

The expansion valve is designed to control the rate of liquid refrigerant flow into an evaporator coil in exact proportion to the rate of evaporation of the refrigerant in the coil. The amount of refrigerant entering the coil is regulated since the valve responds to temperature of the refrigerant gas leaving the coil (feeler bulb contact) and the pressure of the refrigerant in the coil.

This regulation of the flow prevents the return of liquid refrigerant to the compressor.

The three forces which govern the operation of the valve are: (1) the pressure created in the power assembly by the feeler bulb, (2) evaporator pressure, and (3) the equivalent pressure of the super-heat spring in the valve.

0% to 30% bleed type expansion valves are used on the indoor coils. The 0% valve will not allow the system pressures (High and Low side) to equalize during the shut down period. The valve will shut off completely at approximately 100 PSIG Pressure.

The 30% valve will continue to allow some equalization even though the valve has shut-off completely because of the bleed holes within the valve. Good thermal contact between the feeler bulb and the suction line is essential to satisfactory valve control and performance.

The bulb must be securely fastened with two straps to a clean straight section of the suction line. Application of the bulb to a horizontal run of line is preferred. If a vertical installation cannot be avoided the bulb should be mounted so that the capillary tubing comes out at the top.

Hard Start Kits must be used when ever expansion valve "A" coils are installed.

THE VALVES PROVIDED BY AMANA ARE DESIGNED TO MEET THE SPECIFICATION REQUIREMENTS FOR OPTIMUM PRODUCT OPERATION. **DO NOT USE SUBSTITUTES.**

S-106 OVERFEEDING

Overfeeding by the expansion valve results in high suction pressure, cold suction line, and possible liquid slugging of the compressor.

If these symptoms are observed:

1. Check for an overcharged unit by referring to the cooling performance charts in the servicing section.
2. Check the operation of the power element in the valve as explained in S-26 Checking Expansion Valve Operation.
3. Check for restricted or plugged equalizer tube.

S-107 UNDERFEEDING

Underfeeding by the expansion valve results in low system capacity and low suction pressures.

If these symptoms are observed:

1. Check for a restricted liquid line or drier. A restriction will be indicated by a temperature drop across the drier.

SERVICING

2. Check the operation of the power element of the valve as described in S-26 Checking Expansion Valve Operation.

S-108 SUPERHEAT

The expansion valves are factory adjusted to maintain 12 to 18 degrees superheat of the suction gas. Before checking the superheat or replacing the valve, perform all the procedures outlined under Air Flow, Refrigerant Charge, Expansion Valve - Overfeeding, Underfeeding. These are the most common causes for evaporator malfunction.

CHECKING SUPERHEAT

Refrigerant gas is considered superheated whenever its temperature is higher than the saturation temperature corresponding to its pressure. The degree of superheat equals the degrees of temperature increase above the saturation temperature at existing pressure. See Temperature - Pressure Chart.

1. Attach an accurate thermometer or preferably a thermocouple type temperature tester to the suction line at a point at least 6" from the compressor.
2. Install a low side pressure gauge on the suction line service valve at the outdoor unit.
3. Record the gauge pressure and the temperature of the line.
4. Convert the suction pressure gauge reading to temperature by finding the gauge reading in Temperature - Pressure Chart and reading to the left, find the temperature in the °F. Column.
5. The difference between the thermometer reading and pressure to temperature conversion is the amount of superheat.

EXAMPLE:

- a. Suction Pressure = 84
- b. Corresponding Temp. °F. = 50
- c. Thermometer on Suction Line = 63°F.

To obtain the degrees temperature of superheat subtract 50.0 from 63.0°F.

The difference is 13° Superheat. The 13° Superheat would fall in the ± range of allowable superheat.

SUPERHEAT ADJUSTMENT

The expansion valves used on Amana coils are factory set and are not field adjustable. If the superheat setting becomes disturbed, replace the valve.

S-109 CHECKING SUBCOOLING

Refrigerant liquid is considered subcooled whenever its temperature is lower than the saturation temperature corresponding to its pressure. The degree of subcooling equals the degrees of temperature decrease below the saturation temperature at the existing pressure.

1. Attach an accurate thermometer or preferably a thermocouple type temperature tester to the liquid line as it leaves the condensing unit.
2. Install a high side pressure gauge on the high side service valve at the front of the unit.
3. Record the gauge pressure and the temperature of the line.
4. Convert the discharge pressure gauge reading to temperature by finding the gauge reading in Temperature - Pressure Chart and reading to the left, find the temperature in the °F. Column.
5. The difference between the thermometer reading and pressure to temperature conversion is the amount of subcooling.

EXAMPLE:

- a. Discharge Pressure = 260
- b. Corresponding Temp. °F. = 120°
- c. Thermometer on Liquid line = 105°F.

To obtain the amount of subcooling subtract 105 from 120°F.

The difference is 15° subcooling. The normal subcooling range is 14° - 18° subcooling for cooling units.

S-110 CHECKING EXPANSION VALVE OPERATION

1. Remove the remote bulb of the expansion valve from the suction line.
2. Start the system and cool the bulb in a container of ice water, closing the valve. As you cool the bulb the suction pressure should fall and the suction temperature will rise.
3. Next warm the bulb in your hand. As you warm the bulb the suction pressure should rise and the suction temperature will fall.
4. If a temperature or pressure change is noticed, the expansion valve is operating. If no change is noticed, the valve is restricted, the power element is faulty, or the equalizer tube is plugged.
5. Release or remove the charge, replace the valve and drier, evacuate and recharge.

SERVICING

S-111 CAPILLARY TUBES

The capillary tubes used in conjunction with the indoor and outdoor coil, is a predetermined length and bore (I.D.).

It is designed to control the rate of liquid refrigerant flow into an evaporator coil.

The amount of refrigerant that flows through the capillary tubes is regulated by the pressure difference between the high and low sides of the system.

In the cooling cycle when the outdoor air temperature rises, the high side condensing pressure rises. At the same time, the cooling load on the indoor coil increases, causing the low side pressure to rise, but at a slower rate.

Since the high side pressure rises faster when the temperature increases, more refrigerant flows to the evaporator, increasing the cooling capacity of the system.

When the outdoor temperature falls, the reverse takes place. The condensing pressure falls, and the cooling loads on the indoor coil decreases, causing less refrigerant flow.

A strainer is placed on the entering side of the tubes to prevent any foreign material from becoming lodged inside the capillary tubes.

If a restriction should become evident, proceed as follows:

1. Release or remove refrigerant charge.
2. Remove the capillary tubes or tube strainer assy. and replace.
3. Replace liquid line drier, evacuate and recharge.

CHECKING EQUALIZATION TIME

During the "OFF" cycle, the high side pressure bleeds to the low side through the capillary tubes. Check equalization time as follows:

1. Attach a gauge manifold to the suction and liquid line dill valves.
2. Start the system and allow the pressures to stabilize.
3. Stop the system and check the time it takes for the high and low pressure gauge readings to equalize.

If it takes more than seven (7) minutes the capillary tubes are inoperative. Replace, install a liquid line drier, evacuate and recharge.

S-112 CHECKING RESTRICTED LIQUID LINE

TEMPERATURE - PRESSURE (R-22)

Temp. °F.	Gauge Pressure (PSIG) Freon-22	Temp. °F.	Gauge Pressure (PSIG) Freon-22
-40	0.61	60	102.5
-38	1.42	62	106.3
-36	2.27	64	110.2
-34	3.15	65	114.2
-32	4.07	68	118.3
-30	5.02	70	122.5
-28	6.01	72	126.8
-26	7.03	74	131.2
-24	8.09	76	135.7
-22	9.18	78	140.5
-20	10.31	80	145.0
-18	11.48	82	149.5
-16	12.61	84	154.7
-14	13.94	86	159.8
-12	15.24	88	164.9
-10	16.59	90	170.1
-8	17.99	92	175.4
-6	19.44	94	180.9
-4	20.94	96	186.5
-2	22.49	96	192.1
0	24.09	100	197.9
2	25.73	102	203.8
4	27.44	104	209.9
6	29.21	106	216.0
8	31.04	108	222.3
10	32.93	110	228.7
12	34.88	112	235.2
14	36.89	114	241.9
16	38.96	116	248.7
18	41.09	118	255.6
20	43.28	120	262.6
22	45.53	122	269.7
24	47.85	124	276.9
26	50.24	126	284.1
28	52.70	128	291.4
30	55.23	130	298.8
32	57.83	132	306.3
34	60.51	134	314.0
36	63.27	136	321.9
38	66.11	136	329.9
40	69.02	140	338.0
42	71.99	142	346.3
44	75.04	144	355.0
46	78.18	146	364.3
48	81.40	158	374.1
50	84.70	150	384.3
52	88.10	152	392.3
54	91.5	154	401.3
56	95.1	156	411.3
58	98.8	158	421.8
		160	433.3

When the system is operating, the liquid line is warm to the touch. If the liquid line is restricted, a definite temperature drop will be noticed at the point of restriction. In severe cases, frost will form at the restriction and extend down the line in the direction of the flow.

SERVICING

Discharge and suction pressures will be low, giving the appearance of an undercharged unit. However, the unit will have normal to high subcooling.

If a restriction is located, replace the restricted part, replace drier, evacuate and recharge.

S-113 OVERCHARGE OF REFRIGERANT

An overcharge of refrigerant is normally indicated by an excessively high head pressure.

An evaporator coil, using an expansion valve metering device, will basically modulate and control a flooded evaporator and prevent liquid return to the compressor.

An evaporator coil, using a capillary tube metering device, could allow refrigerant to return to the compressor under extreme overcharge conditions. Also with a capillary tube metering device, extreme cases of insufficient indoor air can cause icing of the indoor coil and liquid return to the compressor, but the head pressure would be lower.

There are other causes for high head pressure which may be found in the "Service Problem Analysis Guide."

If other causes check out normal, an overcharge or a system containing non-condensables would be indicated.

If this system is observed:

1. Start the system.
2. Remove small quantities of gas from the suction line dill valve until the head pressure is reduced to normal.
3. Observe the system while running a cooling performance test, if a shortage of refrigerant is indicated, then the system contains non-condensables.

S-114 NON-CONDENSABLES

If non-condensables are suspected shut down the system and allow the pressures to equalize, wait at least 15 minutes. Compare the pressure, to the temperature of the coldest coil sense this is where most of the refrigerant will be. If the pressure indicates a higher temperature than that of the coil temperature, non-condensables are present.

Non-condensables are removed from the system by first removing the refrigerant charge, replacing and/or installing liquid line drier, evacuate and recharging.

S-115 COMPRESSOR BURNOUT

When a compressor burns out, high temperature develops causing the refrigerant, oil and motor insulation to decompose forming acids and sludge.

If a compressor is suspected of being burned-out, attach a refrigerant hose to the liquid line dill valve and properly remove and dispose of the refrigerant.

Now determine if a burn out has actually occurred. Confirm by analyzing an oil sample using a Sporlan Acid Test Kit, AK-3 or its equivalent.

Remove the compressor and obtain an oil sample from the suction stub. If the oil is not acidic, either a burn-out has not occurred or the burn-out is so mild that a complete clean-up is not necessary.

If acid level is unacceptable the system must be cleaned by using the clean-up drier method.



DO NOT ALLOW THE SLUDGE OR OIL TO CONTACT THE SKIN, SEVERE BURNS MAY RESULT.

NOTE: The Flushing Method using R-11 refrigerant is no longer approved by Amana Refrigeration, Inc.

Suction Line Drier Clean-Up Method

Use AMANA part number R0157057 Suction Line Drier Clean-Up Kit (41 cubic inches). This drier should be installed as close to the compressor as possible, either in a vertical or horizontal position. It may be necessary to use new tubing and form as required.

In all applications, the drier inlet must be above the drier outlet to provide proper oil return to the compressor.

NOTE: At least twelve (12) inches of the suction line immediately out of the compressor stub must be discarded due to burned residue and contaminates.

1. On a capillary tube evaporator coil, remove the strainer and capillary tubes.
2. On an expansion valve coil, remove the liquid line drier and expansion valve.
3. Purge all remaining components with dry nitrogen or carbon dioxide until clean.
4. Install new components including liquid liner drier.
5. Install suction line drier.
6. Braze all joints, leak test, evacuate, and recharge system.
7. Start up the unit and record the pressure drop across the clean-up drier.
8. Continue to run the system for a minimum of twelve

SERVICING

(12) hours and recheck the pressure drop across the drier. Pressure drop should not exceed 6 - 8 PSIG.

9. Continue to run the system for several days repeatedly checking pressure drop across the suction line drier. If the pressure drop never exceeds the 6 - 8 PSIG, the drier must be adequate and is trapping the contaminants and it is permissible to leave it in the system.
10. If the pressure drop becomes greater, then it must be replaced and steps 5 through 9 repeated until it does not exceed 6 - 8 PSIG.

NOTICE: Regardless, the cause for burnout must be determined and corrected before the new compressor is started.

S-120 REFRIGERANT PIPING

The piping of a refrigeration system is very important in relation to system capacity, proper oil return to compressor, pumping rate of compressor and cooling performance of the evaporator.

The maximum recommended length of tubing to be used with a remote cooling system is 50 feet; this includes a minimum of turns with a maximum permissible rise of 20 feet for the liquid line.

1. All horizontal suction line runs must be pitched towards the compressor (one inch per ten feet). This aids the return of the oil to the compressor.
2. Avoid long running traps in horizontal suction line.
3. The liquid line must not be attached to an uninsulated suction line.
4. If the liquid line is routed through an area which has an ambient higher than 120°F., then that portion of the liquid line has to be insulated.
5. Suction line sizes should allow for sufficient internal line velocity (approximately 1500 FPM) to return oil to the compressor. An oil trap by the indoor coil is necessary to aid in oil return when the outdoor unit is located above the indoor coil.
6. Special precautions must be taken into consideration for liquid line sizing where the indoor coil is above the outdoor unit to prevent flash gas at the entrance of the metering device. (See Liquid Line size and maximum rise chart).
7. In sizing refrigeration piping determine the number of 90° and 45° elbows required and add their equivalent lengths to the length of straight pipe. Find the equivalent

length of fittings in the following table:

EQUIVALENT LENGTH IN FEET SUCTION LINE ELBOWS

Fitting Size I.D. Inches Sweat, Copper	3/8	1/2	5/8	3/4	7/8	1-1/8
90° Short Radius	1.2	1.4	1.5	1.7	2.0	2.3
90° Long Radius	0.8	0.9	1.0	1.5	1.7	1.6
45°	0.4	0.5	0.6	0.7	0.8	1.0

NOTE: The outdoor unit's refrigerant holding charge is for the indoor coil plus 30 feet of liquid line. If the piping run is longer than 30 feet, additional refrigerant must be added per the Refrigerant Correction Chart.

EXAMPLE: One 7/8" 90° short radius copper sweat ell is equal to the resistance of two foot of 7/8" O.D. straight pipe.

To obtain the total equivalent length, add length of straight pipe to equivalent length of fittings.

REFRIGERANT LINES IN EXCESS OF 50 FEET

It is always best to keep refrigerant lines to 30 feet or less, however this is not always possible. The following information should be used to size refrigerant lines in excess of 50 feet.

1. Sketch the system and determine the number of traps required. Traps are required only if the condensing unit is above the evaporator coil. Traps are only necessary in the suction line.

SUCTION LINE TRAPS CONDENSER UNIT ABOVE EVAPORATOR

VERTICAL LIFT (FEET)	TRAPS REQUIRED
0 - 5	0
6 - 19	1
20 - 39	2
40 - 59	3

The first trap goes at the outlet of the evaporator coil. The remaining traps go halfway up the riser (2 traps total), or 1/3 and 2/3 the way up the riser (3 traps total).

2. Estimate the effective length of pipe. Remember, each trap will have a substantial equivalent length. The suction line effective length could therefore be considerably greater than the liquid line effective length.
3. Size the suction line per the Suction Line Sizing Chart.

SERVICING

SUCTION LINE SIZING

EFFECTIVE LENGTH	50	75	100	125	150
18	5/8	5/8	3/4	3/4	3/4
24	3/4	3/4	3/4	3/4*	-
30	3/4	7/8	7/8	7/8	7/8
36	7/8	7/8	7/8	7/8*	-
42	7/8	7/8	7/8*	-	-
48	7/8	1 1/8	1 1/8	1 1/8	1 1/8
60	1 1/8	1 1/8	1 1/8	1 1/8	-

*Use size shown for vertical portion of run. Use next size larger for horizontal portion of the run.

4. Size the liquid line per the following Liquid Line Sizing charts. If the evaporator coil is above the condensing unit the chart will also show the maximum permissible vertical lift for that unit and liquid line combination. Be sure to use the proper chart.

LIQUID LINE SIZING CONDENSING UNIT ABOVE EVAPORATOR

EFFECTIVE LENGTH	50	75	100	125	150
18	1/4	3/8*	3/8**	3/8	3/8
24	3/8***	3/8	3/8	3/8	3/8
30	3/8	3/8	3/8	3/8	3/8
36	3/8	3/8	3/8	3/8	3/8
42	3/8	3/8	3/8	3/8	3/8
48	3/8	3/8	3/8	3/8	3/8
60	3/8	3/8	3/8	1/2*	1/2***

* If overall drop is 10 feet or more, the next smaller size may be used.

** If overall drop is 20 feet or more, the next smaller size may be used.

*** If overall drop is 30 feet or more, the next smaller size may be used.

ACCUMULATOR SIZING CHART

UNIT SIZE	ACCUMULATOR PART NUMBER	MAX. ADDED REFRIGERANT
18 - 30	D9821801	120 oz.
36	D9821802	150 oz.
42 - 48	D9821804	180 oz.
60	D9821805	225 oz.

If the calculation in step 5 requires you to add more refrigerant than the accumulator referenced above can hold, you must relocate the system components so a shorter or smaller diameter liquid line may be used.

LIQUID LINE SIZING EVAPORATOR ABOVE CONDENSING UNIT MAXIMUM VERTICAL LIFT

EFFECTIVE LENGTH	LINE SIZE	50	75	100	125	150
18	1/4	15	-	-	-	-
18	3/8	47	46	45	45	42
24	3/8	45	42	40	40	35
30	3/8	43	40	37	37	30
36	3/8	40	35	30	30	20
42	3/8	37	31	25	25	12
48	3/8	33	25	17	17	0
48	1/2	47	45	43	43	40
60	3/8	25	12	0	0	-
60	1/2	45	45	40	40	35

The above table is based on a maximum liquid line pressure drop of 25 lbs. Any portions of the liquid line which will pass through a high ambient area must be insulated to prevent loss of subcooling.

5. Determine the amount of additional refrigerant the system will require using the Refrigerant Correction Chart and example shown.

REFRIGERANT CORRECTION CHART

Liquid Line Size, O.D.	Oz. Refrig/Ft Liquid Line
1/4	.20
3/8	.60
1/2	1.30

EXAMPLE: The liquid line to be used with an SRCF48U01D will have a linear length of 65 feet, an effective length of 75 feet, and a vertical lift of 30 feet, with the evaporator above the condensing unit.

The maximum vertical lift for a 4 ton unit with an effective liquid line length of 75 feet is 25 feet of a 3/8" line, or 45 feet for a 1/2" line. Our lift is 30 feet, so a 1/2" liquid line must be used.

Additional refrigerant will be -

65 feet of 1/2" line = 1.3 x 65 feet = 85 oz.

- 30 feet of 3/8" line = 0.6 x 30 feet = 18 oz.*

(*already in condensing unit) = 67 oz.

67 oz. charge will need to be added to the system.

6. Check the system nameplate. An accumulator must be added to the system if-
- you are adding more than 15% to the system charge listed on the nameplate,
 - or more than 125 linear feet of liquid line of the size originally on the unit,
 - or any time a non-matching indoor coil is used.

SERVICING

7. Make the final charge adjustment. Subcooling at the condensing unit must be 14° to 18°F. If the indoor coil has a capillary tube the superheat must also be measured. Adjust charge as explained in section S-103 CHARGING.

S-200 DUCT STATIC PRESSURES AND/OR STATIC PRESSURE DROP ACROSS COIL

This minimum and maximum allowable duct static pressure for the indoor sections are found in the specifications section.

Tables are also provided for each coil, listing quantity of air (CFM) versus static pressure drop across the coil.

Too great of an external static pressure will result in insufficient air that can cause icing of the coil, whereas too much air can cause poor humidity control and condensate to be pulled off the evaporator coil causing condensate leakage. Too much air can also cause motor overloading and in many cases this constitutes a poorly designed system.

To determine proper air movement, proceed as follows:

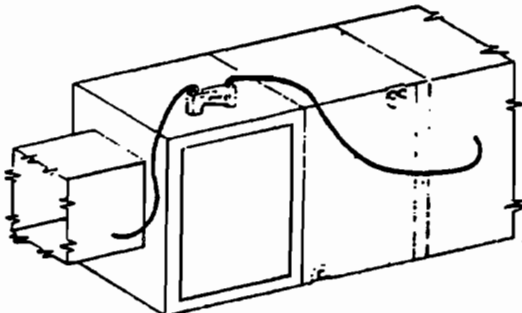
S-201 AIR HANDLER EXTERNAL STATIC

1. Using a draft gauge (inclined manometer) measure the static pressure of the return duct at the inlet of the unit, (Negative Pressure).
2. Measure the static pressure of the supply duct, (Positive Pressure).
3. Add the two readings together.

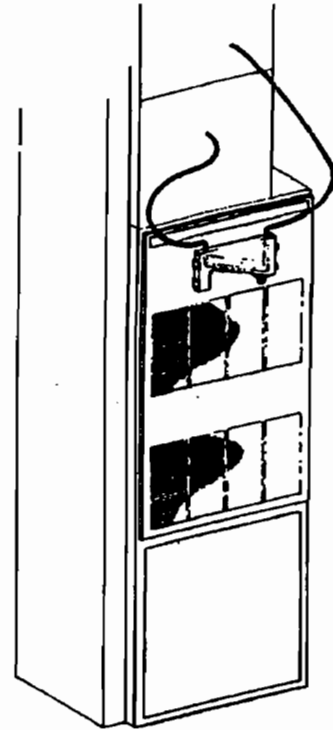
NOTE: Both readings may be taken simultaneously and read directly on the manometer if so desired.

4. Consult proper table for quantity of air.

If external static pressure is being measured on a furnace to determine airflow. Supply static must be taken between the "A" coil and the furnace.



TOTAL EXTERNAL STATIC



STATIC PRESSURE DROP

S-202 COIL STATIC PRESSURE DROP

1. Using a draft gauge (inclined manometer), connect the positive probe underneath the coil and the negative probe above the coil.
2. A direct reading can be taken of the static pressure drop across the coil.
3. Consult proper table for quantity of air.

If the total external static pressure and/or static pressure drop exceeds the maximum or minimum allowable statics, check for closed dampers, dirty filters, undersized or poorly laid out duct work.

S-203 OUTDOOR FAN MOTOR AND/OR FAN BLADE REPLACEMENT

The only precaution necessary when replacing the condenser fan motor or fan blade is to position the top edges of the fan blade flush with the bottom of the bell orifice on all Models except the 24. It's blade should be 1/2" into the orifice.

SERVICING

REFRIGERANT LINE SIZING

Known Factors:

1. SRCF48U01D and matching "A" coil. Evaporator above Condenser.
2. Liquid Line 65 linear feet w/ 8 short radius elbows, and 30 ft vertical lift.
3. Suction Line 65 linear feet w/ 8 long radius elbows.

Determine Suction and Liquid Line sizes:

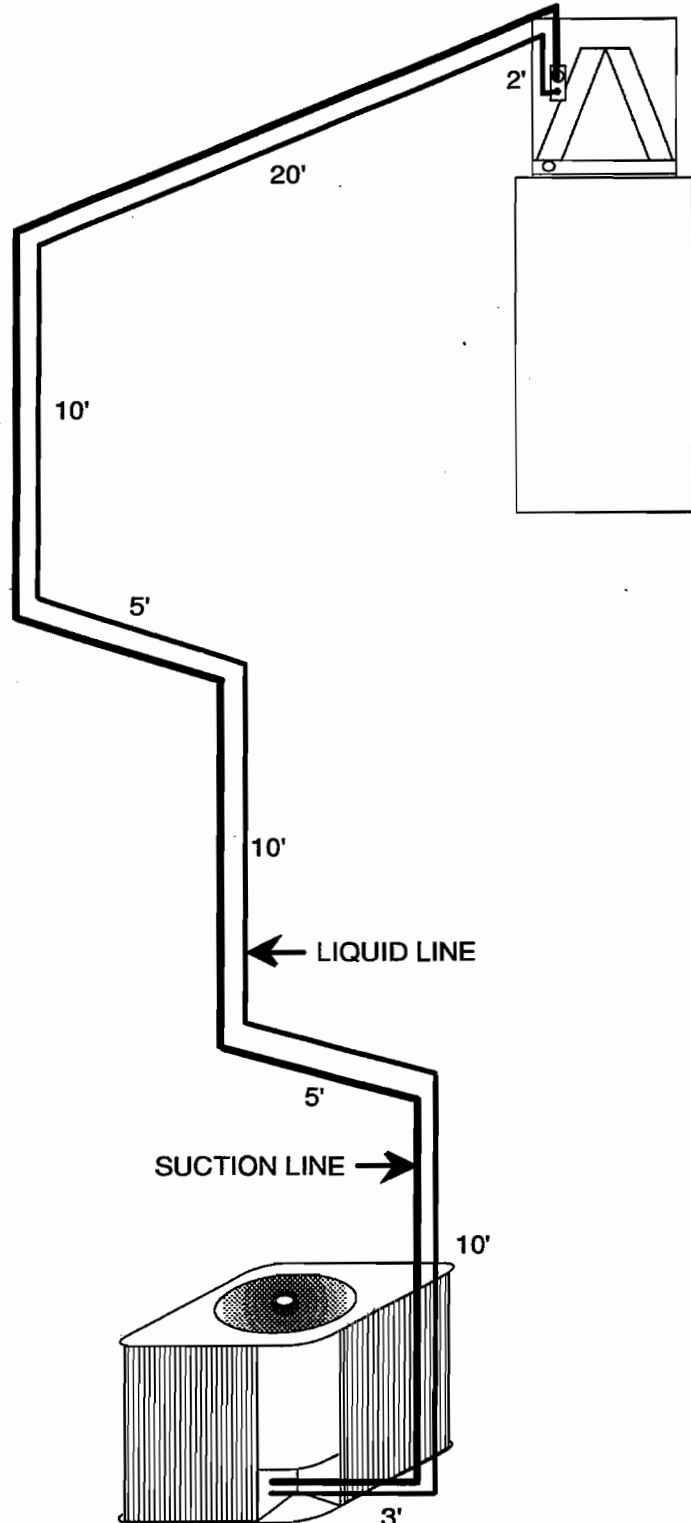
Proceedures:

- A. Measure length of suction line. (65 ft)
- B. Count the number of suction line elbows. (8 long radius)
- C. Calculate the equivalent length of fittings using the Fitting Losses in Equivalent Feet Chart. (Calculate using the recommended suction line size for each unit, and long radius elbows.) $8 \times 1.7 = 13.6$ equivalent feet.
- D. Add suction line length (A) and equalivalent feet of fittings (C). $65 + 13.6 = 78.6$ effective feet.
- E. The total effective length of Suction Line is 78.6 feet. refer to the Suction Line Sizing Chart to determine the actual suction line required. (1 1/8")
- F. Measure liquid line length. (65 ft)
- G. Count the number of liquid line elbows. (8 short radius)
- H. Calculate the equivalent length of fittings using the Suction Line Elbow chart. (Calculate using the recommended liquid line size for each unit.) $8 \times 1.2 = 9.6$ equivalent feet.
- I. Add liquid line length (F), equalivalent feet of fittings (H). $65 + 9.6 = 74.6$ effective feet.
- J. The total effective length of liquid line is 74.6 ft. Refer to the Liquid Line Sizing Chart (Evaporator Above Condensing Unit) to determine the liquid line size. 75 effective feet with 30 ft lift will require a 1/2" liquid line.
- K. To determine the additional charge required, multiply the linear feet of liquid line to the refrigerant correction factor, and subtract the factory charge for the line set.

$$65 \times 1.3 = 84.5$$

$$30 \times .60 = 18.0$$

$$= 66.5 \text{ oz. additional charge}$$



SERVICING

REFRIGERANT LINE SIZING

Known Factors:

1. ZRCF36UO1D and matching "A" coil. Condenser above Evaporator.
2. Liquid Line 72 linear feet w/ 9 long radius elbows
3. Suction Line 72 linear feet, and 43 ft vertical lift.

Determine Suction and Liquid Line sizes:

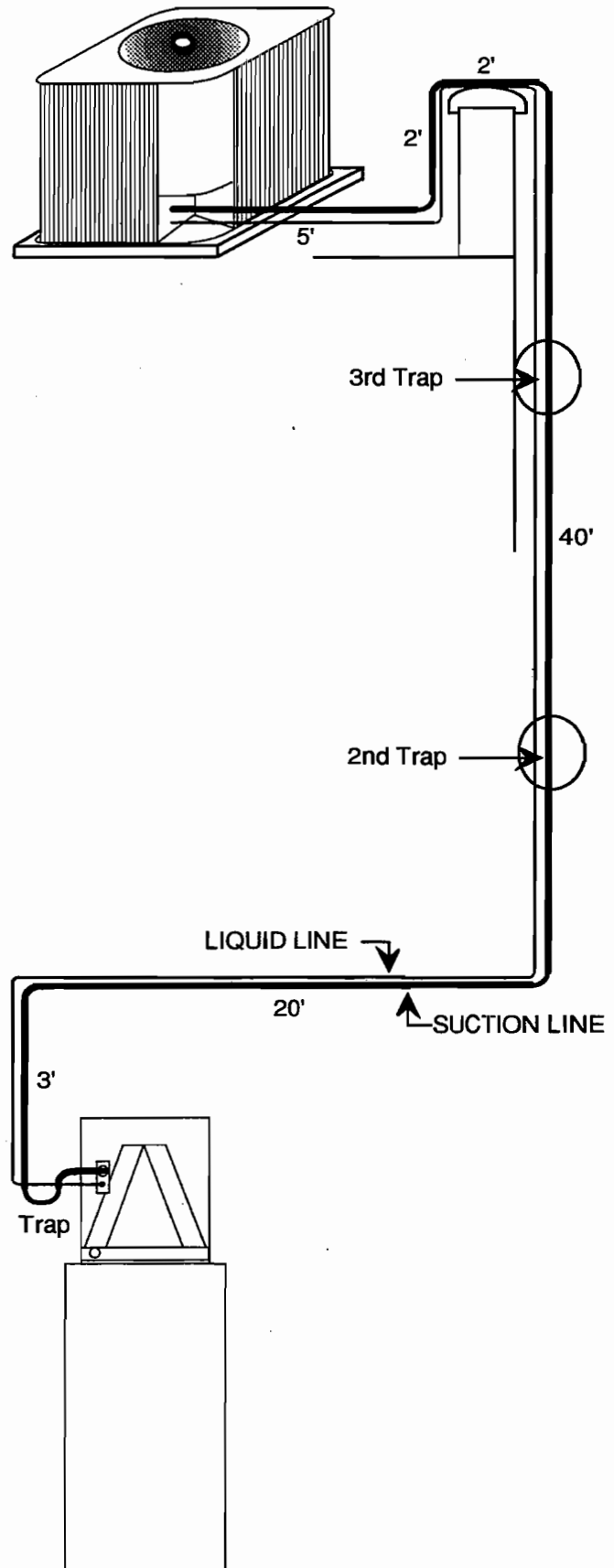
Procedures:

- A. Measure length of suction line. (72 ft)
- B. Measure the vertical lift of the suction line (43'). Using the Suction Line Traps Chart determine the number of traps required in the suction line (3). Count the number of suction line elbows. (12 long radius)
- C. Calculate the equivalent length of fittings using the Fitting Losses in Equivalent Feet Chart. (Calculate using the recommended suction line size for each unit.) $12 \times 1.7 = 20.4$ equivalent feet.
- D. Add suction line length (A) and equivalent feet of fittings (C). $72 + 20.4 = 92.4$ effective feet.
- E. The total equivalent length of Suction Line is 92.4 feet. Refer to the Suction Line Sizing Chart to determine the actual suction line required. (Since 92.4' is greater than 75' but less than 100', use the 100' column). A 7/8" Suction line will be adequate.
- F. Measure liquid line length. (72 ft)
- G. Count the number of liquid line elbows. (9 long radius)
- H. Calculate the equivalent length of fittings using the Fitting Losses in Equivalent Feet Chart. (Calculate using the recommended liquid line size for each unit.) $9 \times .8 = 7.2$ equivalent feet.
- I. Add liquid line length (F) equalivalent feet of fittings (H). $72 + 7.2 = 79.2$ effective feet.
- J. The total effective length of liquid line is 79.2 ft. Refer to the Liquid Line Sizing Chart (Condensing Unit Above Evaporator) to determine the liquid line size. 79.2 effective feet will require a 3/8" liquid line.
- K. To determine the additional charge required, multiply the linear feet of liquid line to the refrigerant correction factor, and subtract the factory charge for the line set.

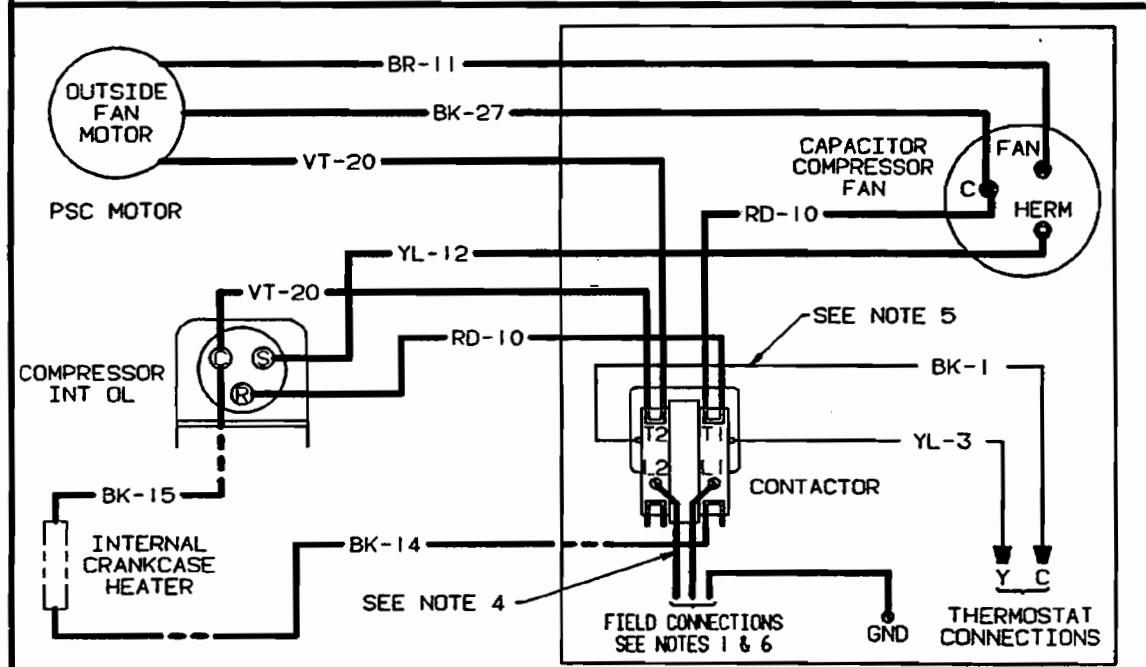
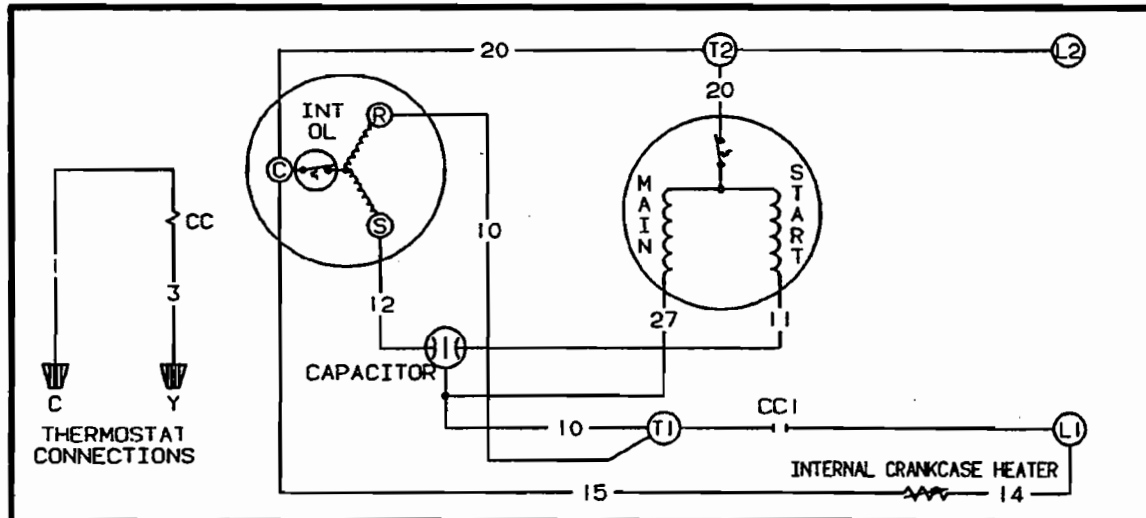
$$72 \times .60 = 43.2$$

$$30 \times .60 = 18.0$$

$$= 25.2 \text{ oz. additional charge}$$



WIRING DIAGRAMS



NOTES:

1. SEE THE ELECTRICAL INFORMATION ON THE UNITS NAMEPLATE FOR THE MAX FUSE OR HACR CKT BRKR SIZE. FIELD CONNECTIONS FOR 1Ø UNITS ARE TO BE MADE AT L1, L2 & GND.
2. FOR THE RECOMMENDED CONNECTION OF BOTH THE SEPARATELY LOCATED FAN RELAY AND THE THERMOSTAT SEE THE INSTALLATION INSTRUCTIONS.
3. TRANSFORMER N.E.C. CLASS 2, 24VAC, 20VA OUTPUT MINIMUM.
CANADIAN REQUIREMENTS:
4. NEUTRAL, IF INPUT POWER DERIVED FROM 240/416 SOURCE.
5. CONTROL CIRCUIT GROUND.
6. 120/240 VAC 3 WIRE/FILS.

FACTORY SUPPLIED WIRING

- LOW VOLTAGE
- HIGH VOLTAGE
- FIELD SUPPLIED WIRING
- LOW VOLTAGE
- HIGH VOLTAGE
- OPTIONAL ACCESSORY

NOTE: IF THIS UNIT IS EQUIPPED WITH A COMPRESSOR CRANKCASE HEATER, DO NOT OPERATE UNIT UNLESS HEATER HAS BEEN ENERGIZED FOR A MINIMUM OF FOUR (4) HOURS.

NOTE: READ THE FOLLOWING NOTES BEFORE OPERATING OR SERVICING THIS UNIT.

1. EXACT REPLACEMENT PARTS MUST BE USED WHEN SERVICING THE CONTROL PANEL.
2. TOTAL SYSTEM CHARGE IS MARKED ON CONDENSER NAMEPLATE WHICH INCLUDES INDOOR SECTION AND 30 FEET OF INTERCONNECTING LIQUID LINE, IF LONGER LIQUID LINE IS USED ADD PER FOLLOWING CHART.
 .250 LIQUID LINE ADD .20 OZ. PER FOOT IN EXCESS OF 30 FEET.
 .375 LIQUID LINE ADD .60 OZ. PER FOOT IN EXCESS OF 30 FEET.
 .500 LIQUID LINE ADD 1.30 OZ. PER FOOT IN EXCESS OF 30 FEET.
 TOTAL CHARGE BLOCK MUST BE STAMPED BY THE DEALER WHO INSTALLS THE UNIT. FOR MORE COMPLETE INSTRUCTIONS SEE INSTALLATION INSTRUCTIONS.
3. APPLICATION EVAPORATOR TEMPERATURE RANGE: +35°F TO 53.3°F.

COLOR CODE

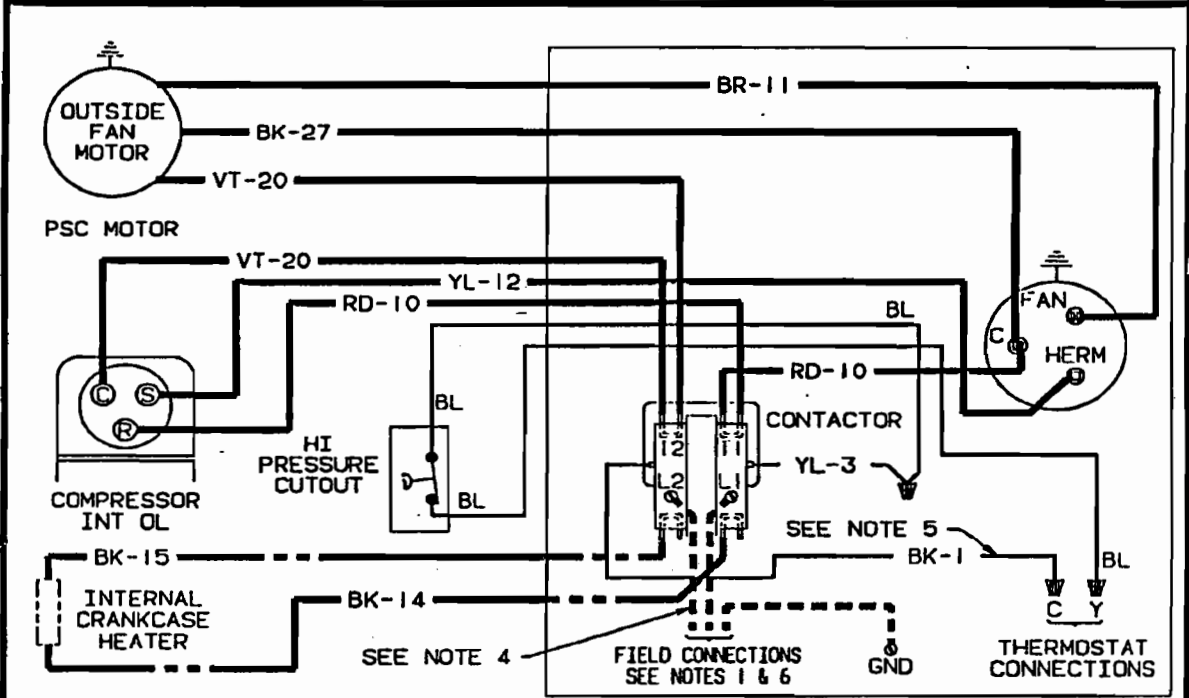
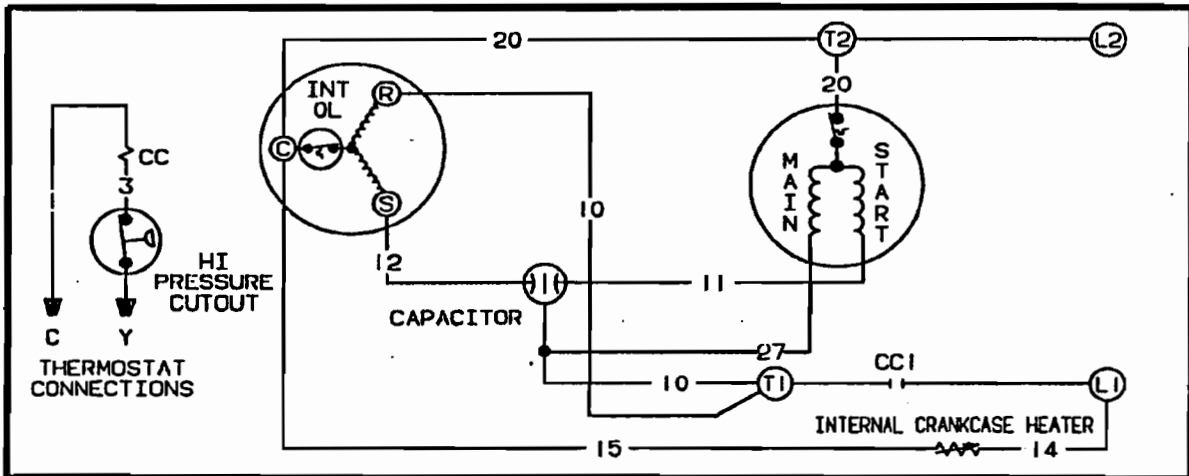
1ST GROUP-COLOR
2ND GROUP-NUMBER

YL-YELLOW	BK-BLACK
VT-VIOLET	BL-BLUE
BR-BROWN	RD-RED
GN-GREEN	

D6937401 REV 2

WARNING
TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



NOTES:

1. SEE THE ELECTRICAL INFORMATION ON THE UNITS NAMEPLATE FOR THE MAX FUSE OR HACR CKT BRKR SIZE. FIELD CONNECTIONS FOR 1st UNITS ARE TO BE MADE AT L1, L2 & GND.
2. FOR THE RECOMMENDED CONNECTION OF BOTH THE SEPARATELY LOCATED FAN RELAY AND THE THERMOSTAT SEE THE INSTALLATION INSTRUCTIONS.
3. TRANSFORMER N.E.C. CLASS 2, 24VAC, 20VA OUTPUT MINIMUM. CANADIAN REQUIREMENTS:
4. NEUTRAL, IF INPUT POWER DERIVED FROM 240/416 SOURCE.
5. CONTROL CIRCUIT GROUND.
6. 120/240 VAC 3 WIRE/FILS.

NOTE: IF THIS UNIT IS EQUIPPED WITH A COMPRESSOR CRANKCASE HEATER, DO NOT OPERATE UNIT UNLESS HEATER HAS BEEN ENERGIZED FOR A MINIMUM OF FOUR (4) HOURS.

NOTE: READ THE FOLLOWING NOTES BEFORE OPERATING OR SERVICING THIS UNIT.

1. EXACT REPLACEMENT PARTS MUST BE USED WHEN SERVICING THE CONTROL PANEL.
2. TOTAL SYSTEM CHARGE IS MARKED ON CONDENSER NAMEPLATE WHICH INCLUDES INDOOR SECTION AND 30 FEET OF INTERCONNECTING LIQUID LINE. IF LONGER LIQUID LINE IS USED ADD PER FOLLOWING CHART.
 .250 LIQUID LINE ADD .20 OZ. PER FOOT IN EXCESS OF 30 FEET.
 .375 LIQUID LINE ADD .60 OZ. PER FOOT IN EXCESS OF 30 FEET.
 .500 LIQUID LINE ADD 1.30 OZ. PER FOOT IN EXCESS OF 30 FEET.
 TOTAL CHARGE BLOCK MUST BE STAMPED BY THE DEALER WHO INSTALLS THE UNIT. FOR MORE COMPLETE INSTRUCTIONS SEE INSTALLATION INSTRUCTIONS.
3. APPLICATION EVAPORATOR TEMPERATURE RANGE: +35°F TO 53.3°F.

FACTORY SUPPLIED WIRING

— LOW VOLTAGE
 — HIGH VOLTAGE

FIELD SUPPLIED WIRING

- - - LOW VOLTAGE
 - - - HIGH VOLTAGE

- - - - - OPTIONAL ACCESSORY

COLOR CODE

1ST GROUP-COLOR
 2ND GROUP-NUMBER

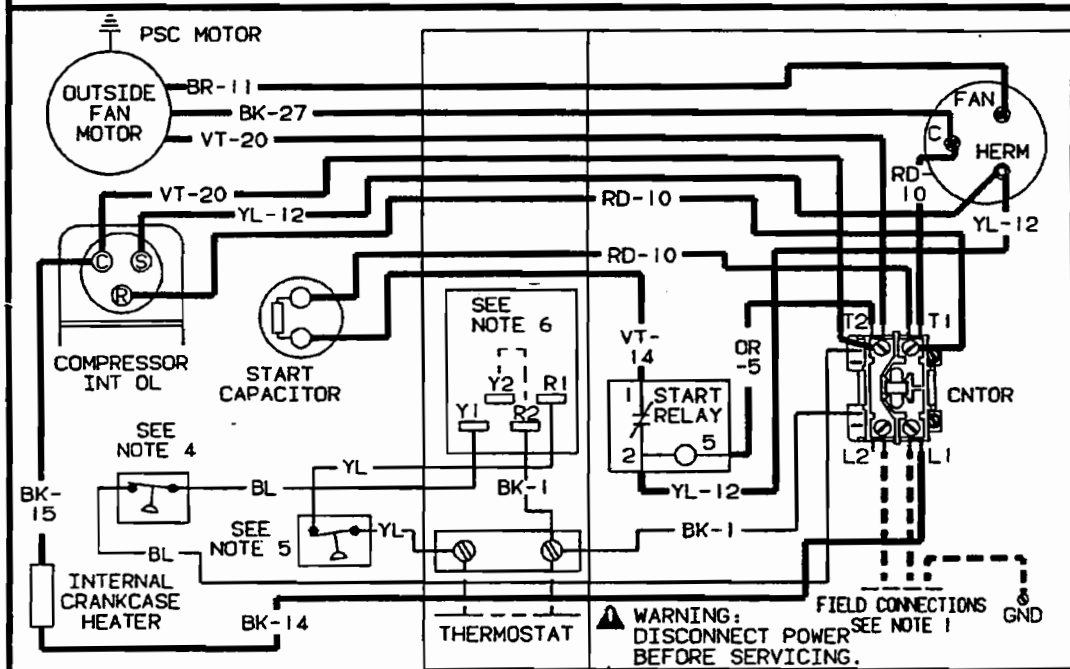
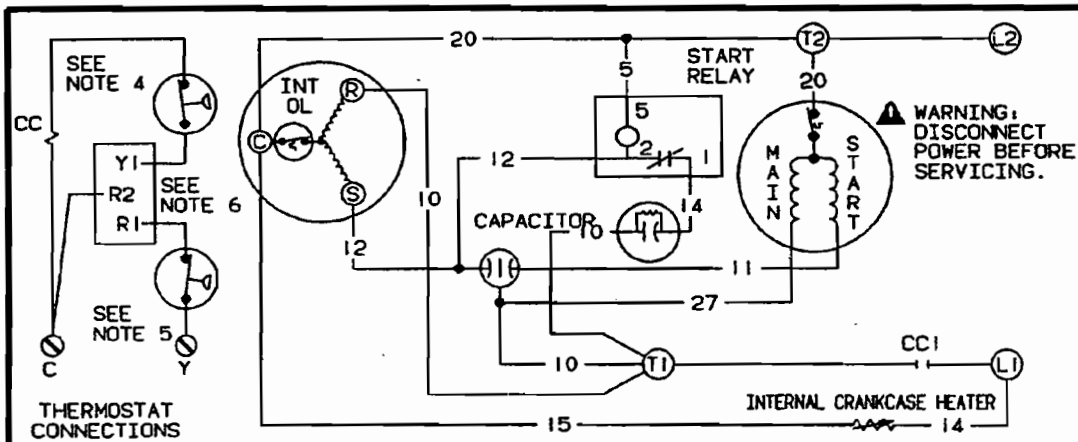
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VT-VIOLET	BL-BLUE
BR-BROWN	RD-RED
GN-GREEN	

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ARCF42-48U01A or B VRCF42-48U01A

WARNING
 TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



NOTES:

1. SEE THE ELECTRICAL INFORMATION ON THE UNITS NAMEPLATE. FIELD CONNECTIONS FOR 10 UNITS ARE TO BE MADE AT L1, L2 & GND. SCREW.
2. FOR THE RECOMMENDED CONNECTION OF BOTH THE SEPARATELY LOCATED FAN RELAY AND THE THERMOSTAT SEE THE INSTALLATION INSTRUCTIONS.
3. TRANSFORMER N.E.C. CLASS 2, 24VAC, 20VA OUTPUT MINIMUM.
4. HI PRESSURE CUTOFF (MANUAL RESET) LOCATED IN DISCHARGE LINE AT COMPRESSOR.
5. LOW PRESSURE CUTOFF (AUTOMATIC RESET) LOCATED IN SUCTION LINE.
6. TIME DELAY RELAY-3 MIN. DELAY ON POWER INTERRUPT.
7. WIRE NUT AND TAPE UNUSED MOTOR LEAD.

NOTE: IF THIS UNIT IS EQUIPPED WITH A COMPRESSOR CRANKCASE HEATER, DO NOT OPERATE UNIT UNLESS HEATER HAS BEEN ENERGIZED FOR A MINIMUM OF FOUR (4) HOURS.

NOTE -READ THE FOLLOWING NOTES BEFORE OPERATING OR SERVICING THIS UNIT.

1. AMANA APPROVED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
2. TOTAL SYSTEM CHARGE IS MARKED ON CONDENSER NAMEPLATE WHICH INCLUDES INDOOR SECTION AND 30 FEET OF INTERCONNECTING LIQUID LINE, IF LONGER LIQUID LINE IS USED ADD PER FOLLOWING CHART.
 .250 LIQUID LINE ADD .20 OZ. PER FOOT IN EXCESS OF 30 FEET.
 .375 LIQUID LINE ADD .60 OZ. PER FOOT IN EXCESS OF 30 FEET.
 .500 LIQUID LINE ADD 1.30 OZ. PER FOOT IN EXCESS OF 30 FEET.
 TOTAL CHARGE BLOCK MUST BE STAMPED BY THE DEALER WHO INSTALLS THE UNIT. FOR MORE COMPLETE INSTRUCTIONS SEE INSTALLATION INSTRUCTIONS.
3. APPLICATION EVAPORATOR TEMPERATURE RANGE: +35°F TO 53.3°F.

FACTORY SUPPLIED WIRING

- LOW VOLTAGE
- HIGH VOLTAGE
- FIELD SUPPLIED WIRING
- LOW VOLTAGE
- HIGH VOLTAGE
- OPTIONAL ACCESSORY

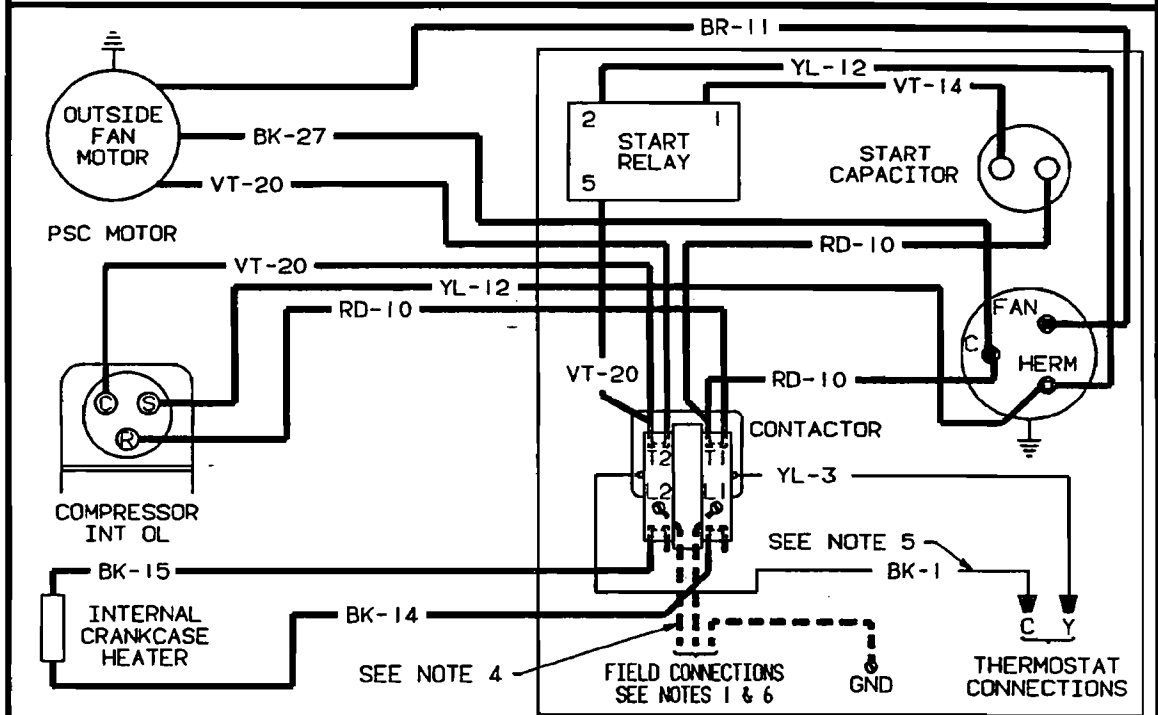
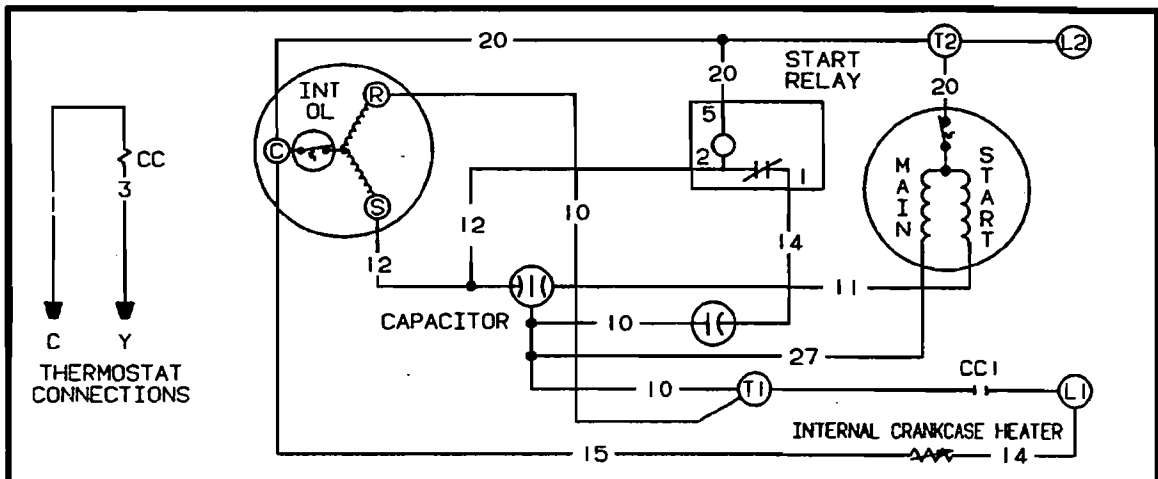
COLOR CODE

- 1ST GROUP-COLOR
2ND GROUP-NUMBER
- YL-YELLOW BK-BLACK
 - VT-VIOLET BL-BLUE
 - BR-BROWN RD-RED
 - GN-GREEN

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WARNING
TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



NOTES:

1. SEE THE ELECTRICAL INFORMATION ON THE UNITS NAMEPLATE FOR THE MAX FUSE OR HACR DXT BRKR SIZE. FIELD CONNECTIONS FOR 10 UNITS ARE TO BE MADE AT L1, L2 & GND.
2. FOR THE RECOMMENDED CONNECTION OF BOTH THE SEPARATELY LOCATED FAN RELAY AND THE THERMOSTAT SEE THE INSTALLATION INSTRUCTIONS.
3. TRANSFORMER N.E.C. CLASS 2, 24VAC, 20VA OUTPUT MINIMUM.
CANADIAN REQUIREMENTS:
4. NEUTRAL, IF INPUT POWER DERIVED FROM 240/416 SOURCE.
5. CONTROL CIRCUIT GROUND.
6. 120/240 VAC 3 WIRE/FILS.

NOTE: IF THIS UNIT IS EQUIPPED WITH A COMPRESSOR CRANKCASE HEATER, DO NOT OPERATE UNIT UNLESS HEATER HAS BEEN ENERGIZED FOR A MINIMUM OF FOUR (4) HOURS.

NOTE: READ THE FOLLOWING NOTES BEFORE OPERATING OR SERVICING THIS UNIT.

1. EXACT REPLACEMENT PARTS MUST BE USED WHEN SERVICING THE CONTROL PANEL.
2. TOTAL SYSTEM CHARGE IS MARKED ON CONDENSER NAMEPLATE WHICH INCLUDES INDOOR SECTION AND 30 FEET OF INTERCONNECTING LIQUID LINE. IF LONGER LIQUID LINE IS USED ADD PER FOLLOWING CHART.
 .250 LIQUID LINE ADD .20 OZ. PER FOOT IN EXCESS OF 30 FEET.
 .375 LIQUID LINE ADD .60 OZ. PER FOOT IN EXCESS OF 30 FEET.
 .500 LIQUID LINE ADD 1.30 OZ. PER FOOT IN EXCESS OF 30 FEET.
 TOTAL CHARGE BLOCK MUST BE STAMPED BY THE DEALER WHO INSTALLS THE UNIT.
 FOR MORE COMPLETE INSTRUCTIONS SEE INSTALLATION INSTRUCTIONS.
3. APPLICATION EVAPORATOR TEMPERATURE RANGE: +35°F TO 53.3°F.

FACTORY SUPPLIED WIRING

- LOW VOLTAGE
- HIGH VOLTAGE
- FIELD SUPPLIED WIRING
- LOW VOLTAGE
- HIGH VOLTAGE

COLOR CODE

1ST GROUP-COLOR
2ND GROUP-NUMBER

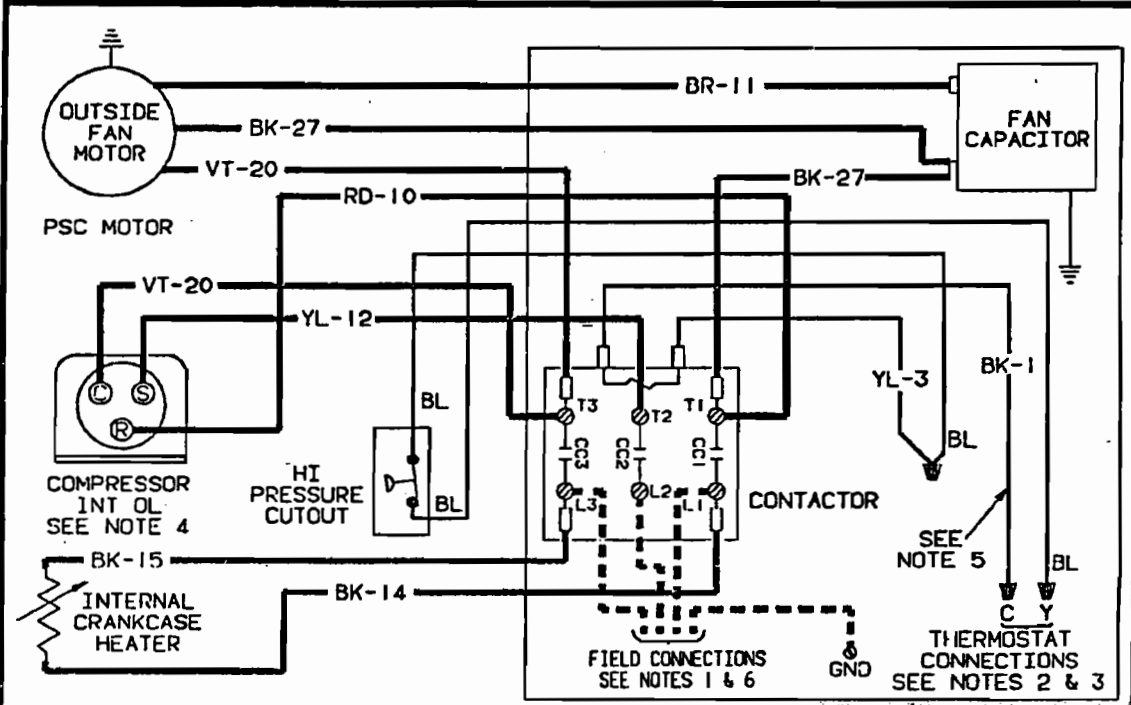
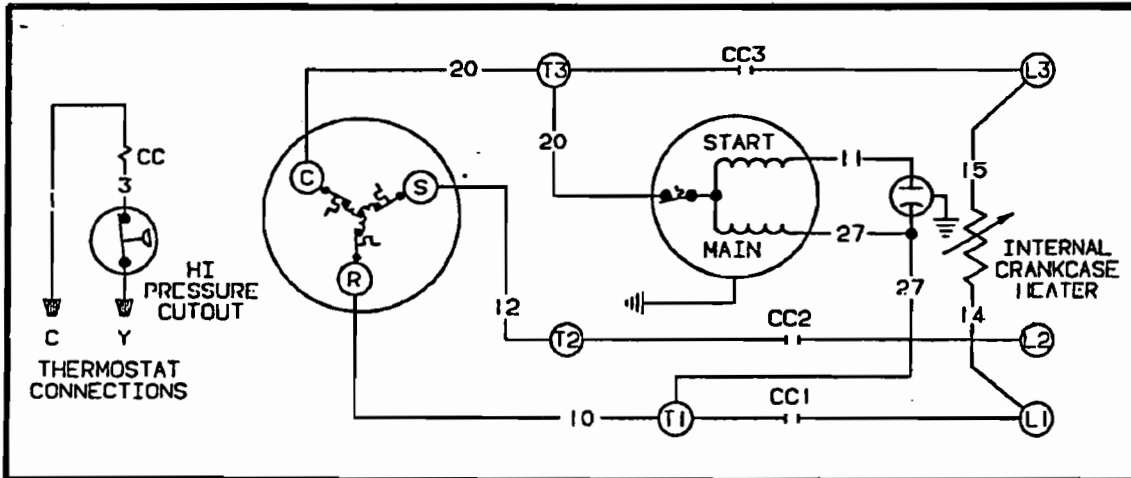
- YL-YELLOW BK-BLACK
- VT-VIOLET BL-BLUE
- BR-BROWN RD-RED
- GN-GREEN

D9663601 REV 0

ARCF48U01D or E ARCF60U01D VRCF60U01B

WARNING
TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



- NOTES:**
1. SEE THE ELECTRICAL INFORMATION ON THE UNITS NAMEPLATE FOR THE MAX FUSE OR HACR CKT BRKR SIZE. FIELD CONNECTIONS FOR 3ø UNITS ARE TO BE MADE AT L1, L2, L3 AND GND.
 2. FOR THE RECOMMENDED CONNECTION OF BOTH THE SEPARATELY LOCATED FAN RELAY AND THE THERMOSTAT SEE THE INSTALLATION INSTRUCTIONS.
 3. TRANSFORMER N.E.C. CLASS 2, 24VAC, 20VA OUTPUT MINIMUM.
 4. COMPRESSOR MOTOR PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. CANDIAN REQUIREMENTS:
 5. CONTROL CIRCUIT GROUND.
 6. 120/240 VAC 3 WTRF/FILS.

NOTE: THIS UNIT IS EQUIPPED WITH A COMPRESSOR CRANKCASE HEATER, DO NOT OPERATE UNIT UNLESS HEATER HAS BEEN ENERGIZED FOR A MINIMUM OF FOUR (4) HOURS.

- NOTE:** READ THE FOLLOWING NOTES BEFORE OPERATING OR SERVICING THIS UNIT.
1. EXACT REPLACEMENT PARTS MUST BE USED WHEN SERVICING THE CONTROL PANEL.
 2. TOTAL SYSTEM CHARGE IS MARKED ON CONDENSER NAMEPLATE WHICH INCLUDES INDOOR SECTION AND 30 FEET OF INTERCONNECTING LIQUID LINE, IF LONGER LIQUID LINE IS USED ADD PER FOLLOWING CHART.
 .250 LIQUID LINE ADD .20 OZ. PER FOOT IN EXCESS OF 30 FEET.
 .375 LIQUID LINE ADD .60 OZ. PER FOOT IN EXCESS OF 30 FEET.
 .500 LIQUID LINE ADD 1.30 OZ. PER FOOT IN EXCESS OF 30 FEET.
 TOTAL CHARGE BLOCK MUST BE STAMPED BY THE DEALER WHO INSTALLS THE UNIT. FOR MORE COMPLETE INSTRUCTIONS SEE INSTALLATION INSTRUCTIONS.
 3. APPLICATION EVAPORATOR TEMPERATURE RANGE: +35°F TO 53.3°F.

FACTORY SUPPLIED WIRING

— LOW VOLTAGE
 = HIGH VOLTAGE

FIELD SUPPLIED WIRING

- - - LOW VOLTAGE
 - - - - HIGH VOLTAGE

- - - - - OPTIONAL ACCESSORY

COLOR CODE

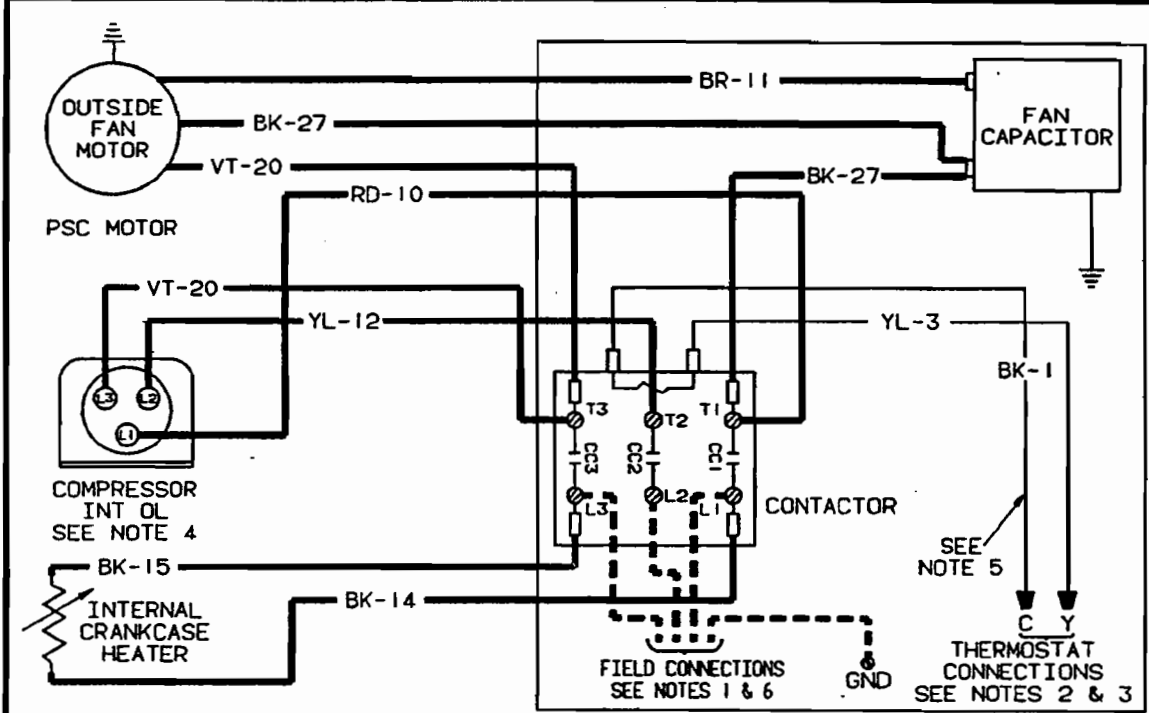
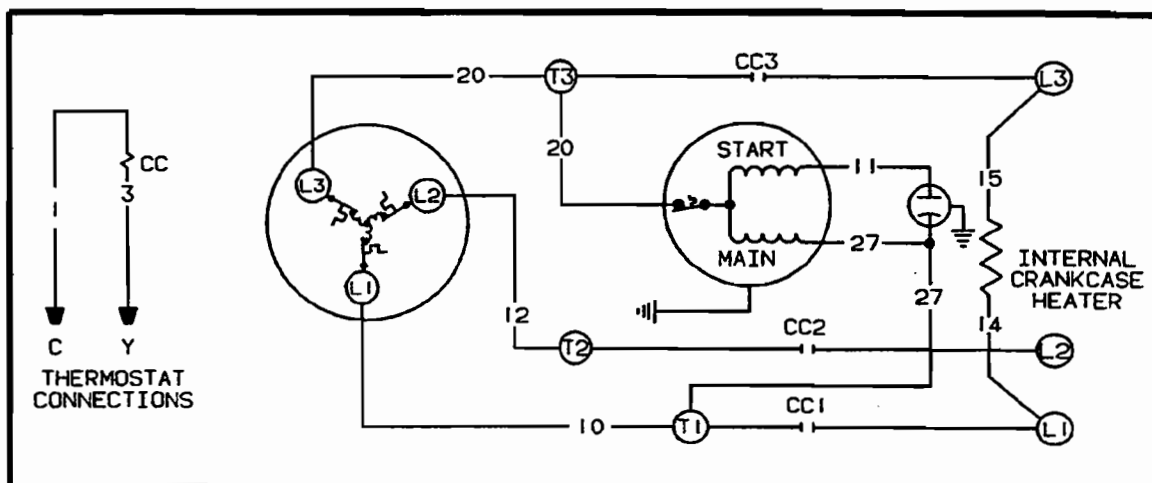
1ST GROUP-COLOR
 2ND GROUP-NUMBER

YL-YELLOW	BK-BLACK
VT-VIOLET	BL-BLUE
BR-BROWN	RD-RED
GN-GREEN	

D9985101 REV 0

WARNING
 TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



NOTES:

1. SEE THE ELECTRICAL INFORMATION ON THE UNITS NAMEPLATE FOR THE MAX FUSE OR HACR CKT BRKR SIZE. FIELD CONNECTIONS FOR 3Ø UNITS ARE TO BE MADE AT L1, L2, L3 AND GND.
2. FOR THE RECOMMENDED CONNECTION OF BOTH THE SEPARATELY LOCATED FAN RELAY AND THE THERMOSTAT SEE THE INSTALLATION INSTRUCTIONS.
3. TRANSFORMER N.E.C. CLASS 2, 24VAC, 20VA OUTPUT MINIMUM.
4. COMPRESSOR MOTOR PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. CANADIAN REQUIREMENTS:
5. CONTROL CIRCUIT GROUND.
6. 120/240 VAC 3 WIRE/FILS.

NOTE: THIS UNIT IS EQUIPPED WITH A COMPRESSOR CRANKCASE HEATER. DO NOT OPERATE UNIT UNLESS HEATER HAS BEEN ENERGIZED FOR A MINIMUM OF FOUR (4) HOURS.

NOTE: READ THE FOLLOWING NOTES BEFORE OPERATING OR SERVICING THIS UNIT.

1. EXACT REPLACEMENT PARTS MUST BE USED WHEN SERVICING THE CONTROL PANEL.
2. TOTAL SYSTEM CHARGE IS MARKED ON CONDENSER NAMEPLATE WHICH INCLUDES INDOOR SECTION AND 30 FEET OF INTERCONNECTING LIQUID LINE. IF LONGER LIQUID LINE IS USED ADD PER FOLLOWING CHART.
 .250 LIQUID LINE ADD .20 OZ. PER FOOT IN EXCESS OF 30 FEET.
 .375 LIQUID LINE ADD .60 OZ. PER FOOT IN EXCESS OF 30 FEET.
 .500 LIQUID LINE ADD 1.30 OZ. PER FOOT IN EXCESS OF 30 FEET.
 TOTAL CHARGE BLOCK MUST BE STAMPED BY THE DEALER WHO INSTALLS THE UNIT. FOR MORE COMPLETE INSTRUCTIONS SEE INSTALLATION INSTRUCTIONS.
3. APPLICATION EVAPORATOR TEMPERATURE RANGE: +35°F TO 53.3°F.

FACTORY SUPPLIED WIRING

- LOW VOLTAGE
- HIGH VOLTAGE
- LOW VOLTAGE
- HIGH VOLTAGE
- OPTIONAL ACCESSORY

COLOR CODE

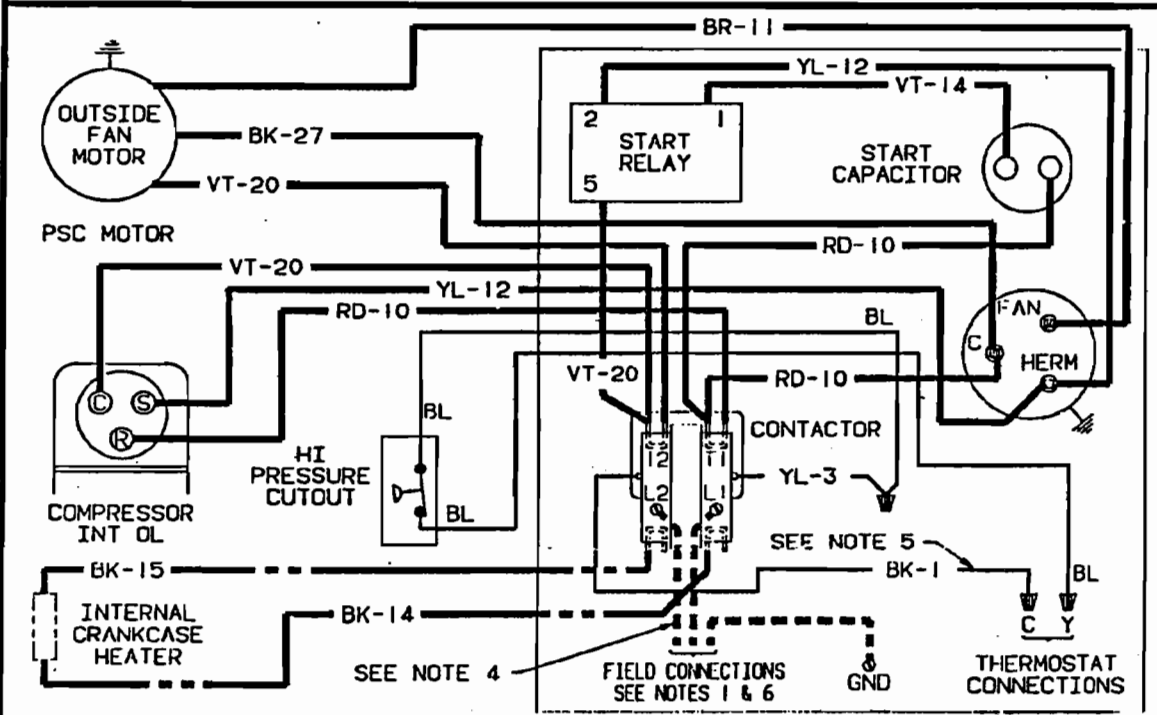
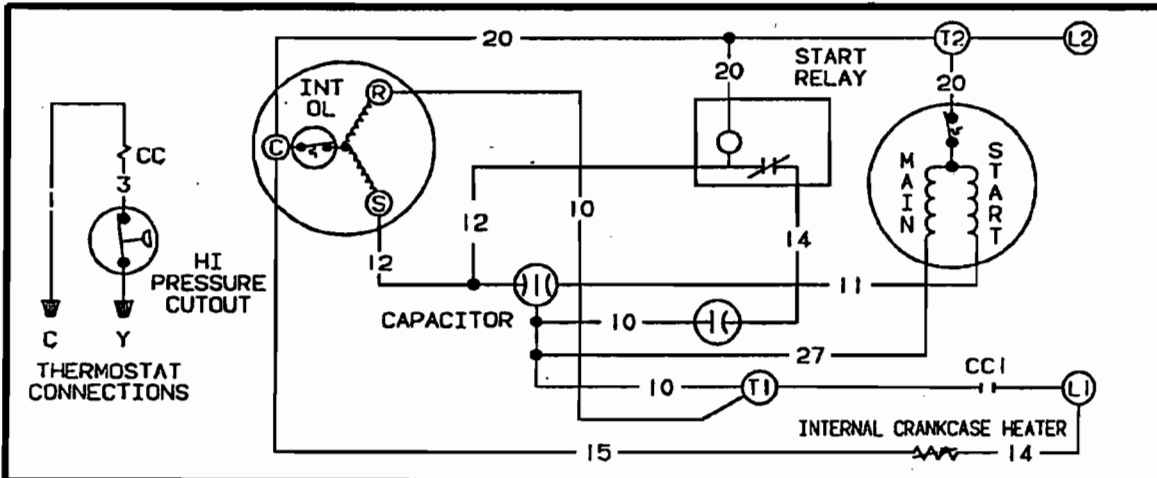
- 1ST GROUP-COLOR
2ND GROUP-NUMBER
- YL-YELLOW
 - VT-VIOLET
 - BR-BROWN
 - GN-GREEN
 - BK-BLACK
 - BL-BLUE
 - RD-RED

D9670501 REV I

ARCF48U03D or E VRCF48-60U03A

WARNING
TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



NOTES:

- SEE THE ELECTRICAL INFORMATION ON THE UNITS NAMEPLATE FOR THE MAX FUSE OR HACR CKT BRKR SIZE. FIELD CONNECTIONS FOR 1st UNITS ARE TO BE MADE AT L1, L2 & GND.
- FOR THE RECOMMENDED CONNECTION OF BOTH THE SEPARATELY LOCATED FAN RELAY AND THE THERMOSTAT SEE THE INSTALLATION INSTRUCTIONS.
- TRANSFORMER N.F.C. CLASS 2, 24VAC, 20VA OUTPUT MINIMUM. CANADIAN REQUIREMENTS:
- NEUTRAL, IF INPUT POWER DERIVED FROM 240/416 SOURCE.
- CONTROL CIRCUIT GROUND.
- 120/240 VAC 3 WIRE/TTIS.

NOTE: IF THIS UNIT IS EQUIPPED WITH A COMPRESSOR CRANKCASE HEATER, DO NOT OPERATE UNIT UNLESS HEATER HAS BEEN ENERGIZED FOR A MINIMUM OF FOUR (4) HOURS.

NOTE: READ THE FOLLOWING NOTES BEFORE OPERATING OR SERVICING THIS UNIT.

- EXACT REPLACEMENT PARTS MUST BE USED WHEN SERVICING THE CONTROL PANEL.
- TOTAL SYSTEM CHARGE IS MARKED ON CONDENSER NAMEPLATE WHICH INCLUDES INDOOR SECTION AND 30 FEET OF INTERCONNECTING LIQUID LINE, IF LONGER LIQUID LINE IS USED ADD PER FOLLOWING CHART.
 - .250 LIQUID LINE ADD .20 OZ. PER FOOT IN EXCESS OF 30 FEET.
 - .375 LIQUID LINE ADD .60 OZ. PER FOOT IN EXCESS OF 30 FEET.
 - .500 LIQUID LINE ADD 1.30 OZ. PER FOOT IN EXCESS OF 30 FEET.
 TOTAL CHARGE BLOCK MUST BE STAMPED BY THE DEALER WHO INSTALLS THE UNIT. FOR MORE COMPLETE INSTRUCTIONS SEE INSTALLATION INSTRUCTIONS.
- APPLICATION EVAPORATOR TEMPERATURE RANGE: +35°F TO 53.3°F.

FACTORY SUPPLIED WIRING

- LOW VOLTAGE
- HIGH VOLTAGE
- FIELD SUPPLIED WIRING
- LOW VOLTAGE
- HIGH VOLTAGE
- OPTIONAL ACCESSORY

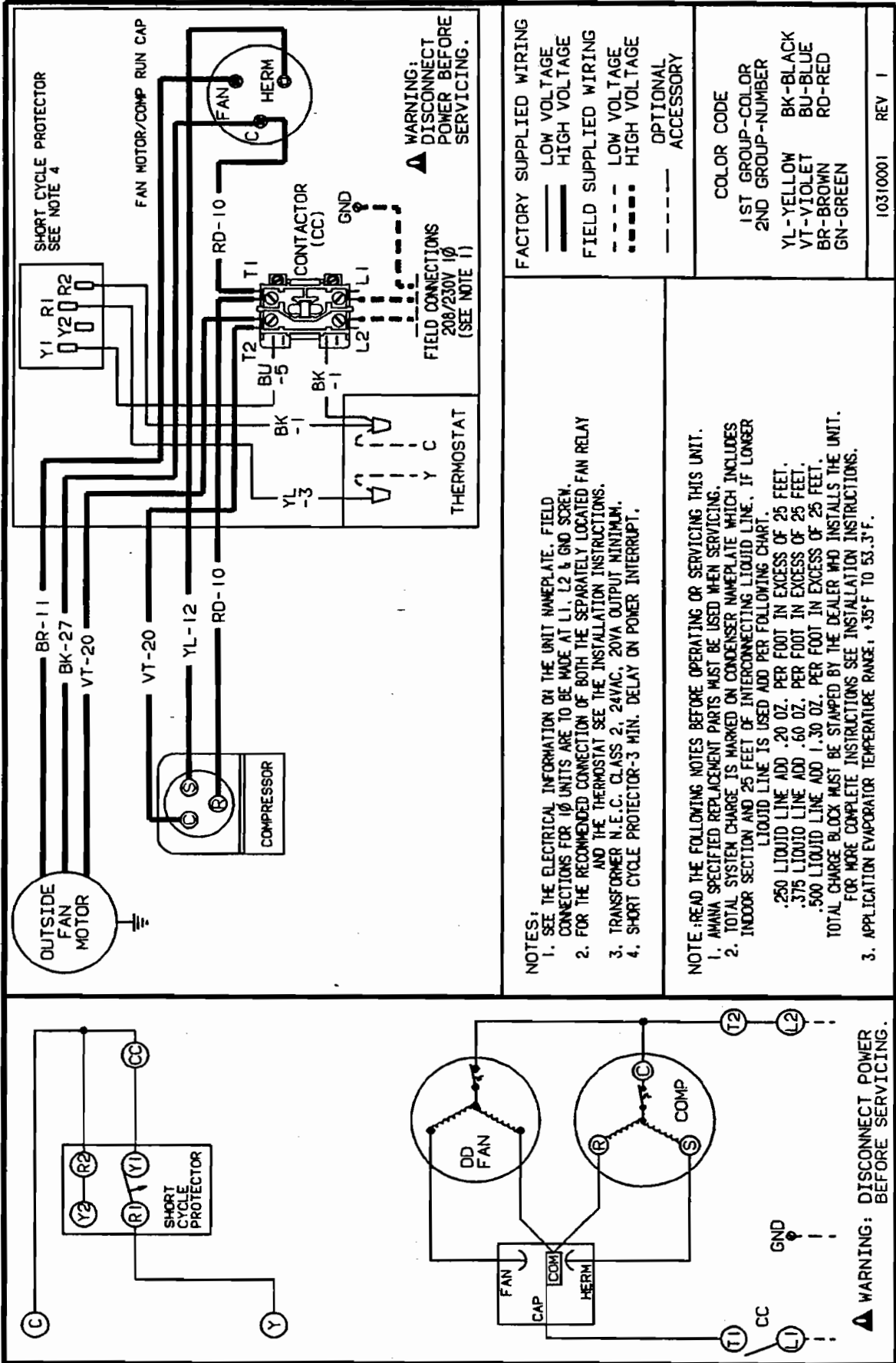
COLOR CODE

- 1ST GROUP-COLOR
2ND GROUP-NUMBER
- YL-YELLOW
 - VT-VIOLET
 - BR-BROWN
 - GN-GREEN
 - BK-BLACK
 - BL-BLUE
 - RD-RED

D9930001 REV 0

WARNING
 TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS

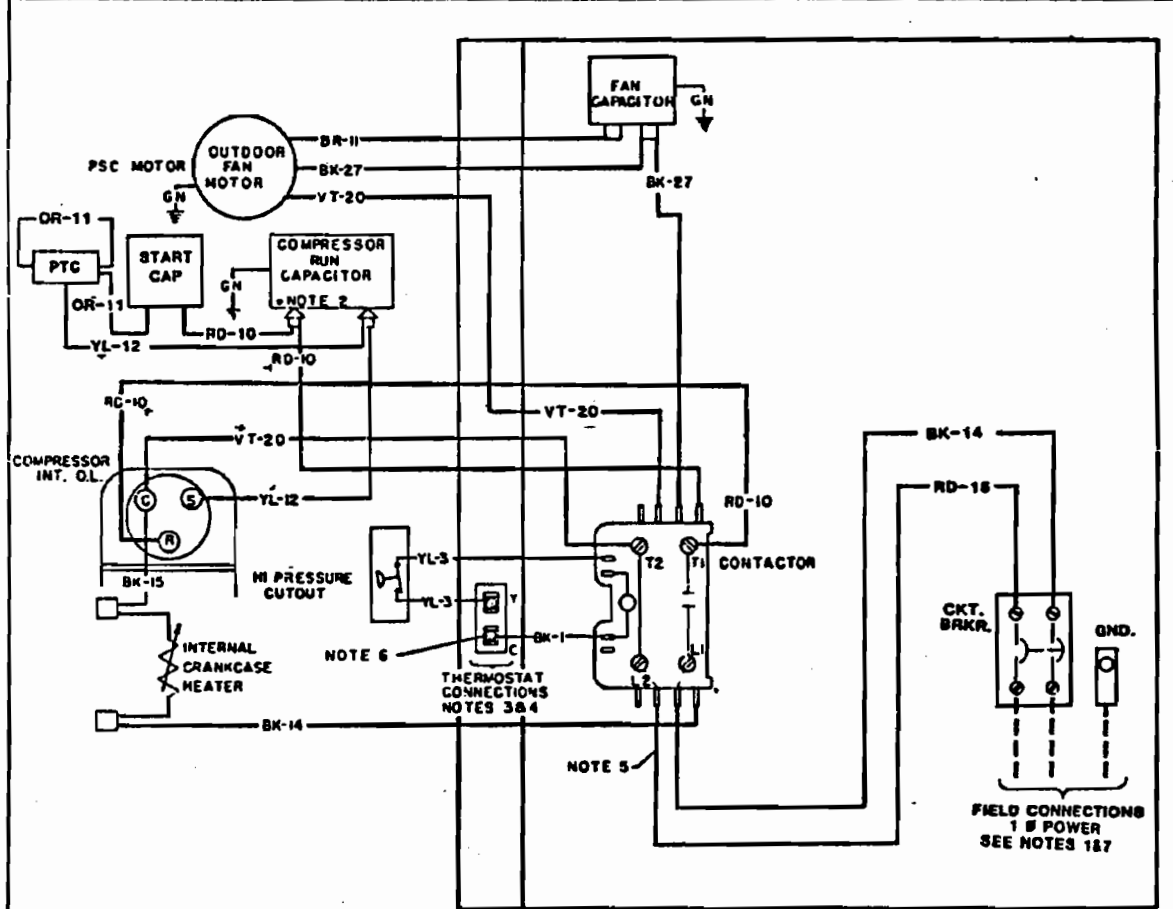
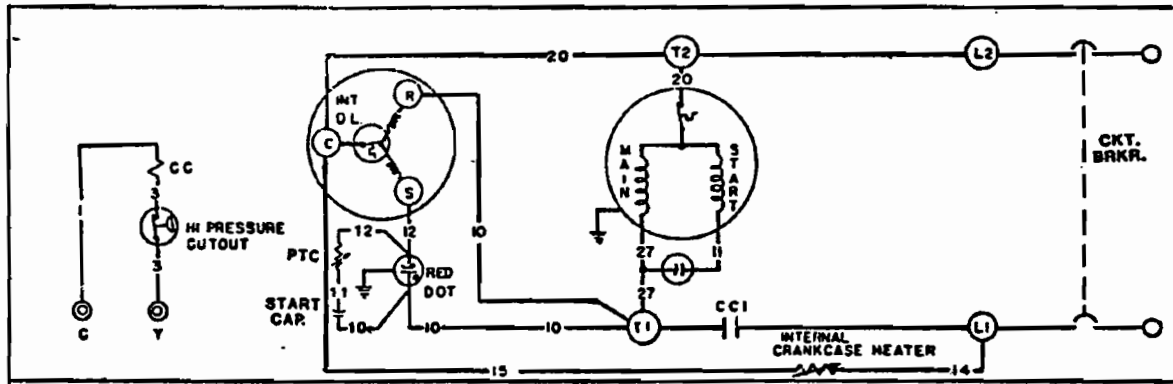


ARCF60U01E

WARNING

TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



NOTES

1. SEE THE ELECTRICAL INFORMATION ON THE UNITS NAMEPLATE. FIELD CONNECTIONS FOR 16 UNITS ARE TO BE MADE AT CIRCUIT BRKR. AND GND. SCREW.
2. THE RED DOT ON THE COMPRESSOR RUN CAPACITOR MUST BE LOCATED AS SHOWN, WHEN REQ'D.
3. FOR THE RECOMMENDED CONNECTION OF BOTH THE SEPARATELY LOCATED FAN RELAY AND THE THERMOSTAT SEE THE INSTALLATION INSTRUCTIONS.
4. TRANSFORMER NEC CLASS 2, 24 VAC OUTPUT 20 VA MINIMUM CANADIAN REQUIREMENTS
5. NEUTRAL, IF INPUT POWER DERIVED FROM 240/416 SOURCE
6. CONTROL CIRCUIT GROUND
7. 120/240 VAC 3 WIRE / FLS

NOTE: THIS UNIT IS EQUIPPED WITH A COMPRESSOR CRANKCASE HEATER. DO NOT OPERATE UNIT UNLESS HEATER HAS BEEN ENERGIZED FOR A MINIMUM OF FOUR (4) HOURS

- NOTE: READ THE FOLLOWING NOTES BEFORE OPERATING OR SERVICING THIS UNIT
1. EXACT REPLACEMENT PARTS MUST BE USED WHEN SERVICING THIS CONTROL PANEL
 2. TOTAL SYSTEM CHARGE IS MARKED ON CONDENSER NAMEPLATE WHICH INCLUDES INDOOR SECTION AND 30 FEET OF INTERCONNECTING LIQUID LINE, IF LONGER LIQUID LINE IS USED ADD PER FOLLOWING CHART
 - 1/4 LIQUID LINE, ADD .20 OZ PER FOOT IN EXCESS OF 30 FEET
 - 3/8 LIQUID LINE, ADD .60 OZ PER FOOT IN EXCESS OF 30 FEET
 - 1/2 LIQUID LINE, ADD 1.30 OZ PER FOOT IN EXCESS OF 30 FEET
 3. APPLICATION EVAPORATOR TEMPERATURE RANGE: +35°F TO 53.5°F
- TOTAL CHARGE BLOCK MUST BE STAMPED BY THE DEALER WHO INSTALLS THE UNIT FOR MORE COMPLETE INSTRUCTIONS SEE THE INSTALLATION INSTRUCTIONS

FACTORY WIRING
 — LOW VOLTAGE
 — HIGH VOLTAGE

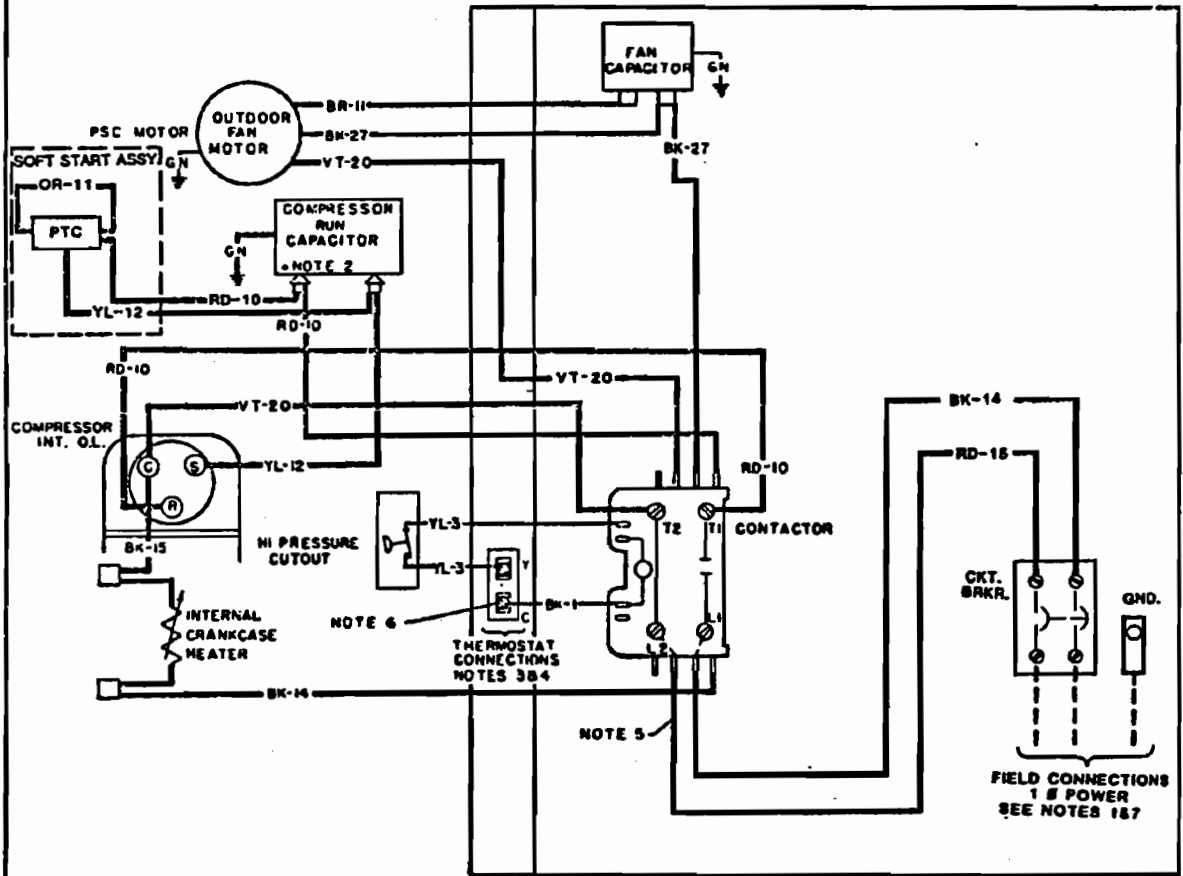
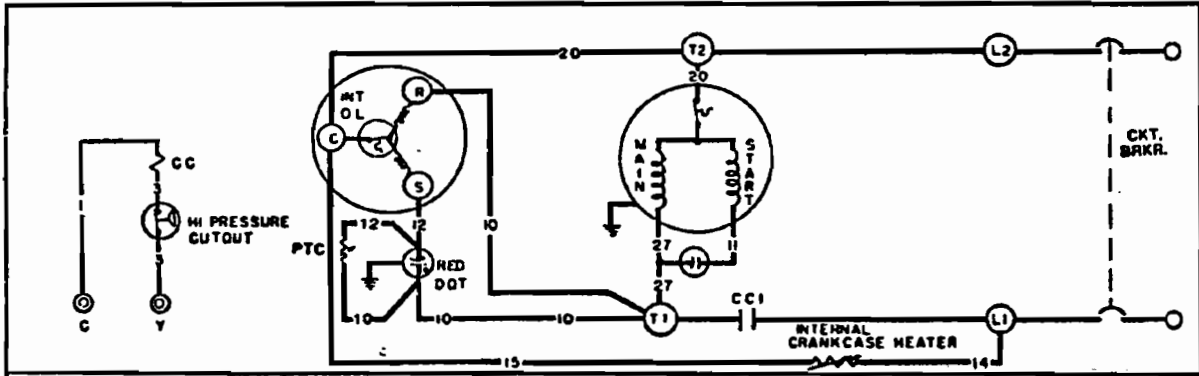
COLOR CODE	
1ST GROUP - COLOR	2ND GROUP - NUMBER
VT- VIOLET	RD- RED
YL- YELLOW	BL- BLUE
GN- GREEN	BK- BLACK
BR- BROWN	

D00181 REV. 9

TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.



WIRING DIAGRAMS



NOTES

- SEE THE ELECTRICAL INFORMATION ON THE UNITS NAMEPLATE
FIELD CONNECTIONS FOR 18 UNITS ARE TO BE MADE AT CIRCUIT BRKR. AND GND. SCREW.
- THE RED DOT ON THE COMPRESSOR RUN CAPACITOR MUST BE LOCATED AS SHOWN, WHEN REQ'D.
- FOR THE RECOMMENDED CONNECTION OF BOTH THE SEPARATELY LOCATED FAN RELAY AND THE THERMOSTAT SEE THE INSTALLATION INSTRUCTIONS
- TRANSFORMER NEC CLASS 2, 24 VAC OUTPUT 20 VA MINIMUM
CANADIAN REQUIREMENTS
- NEUTRAL, IF INPUT POWER DERIVED FROM 240/416 SOURCE
- CONTROL CIRCUIT GROUND
- 120/240 VAC 3 WIRE / FILS

NOTE: THIS UNIT IS EQUIPPED WITH A COMPRESSOR CRANKCASE HEATER DO NOT OPERATE UNIT UNLESS HEATER HAS BEEN ENERGIZED FOR A MINIMUM OF FOUR (4) HOURS

NOTE: READ THE FOLLOWING NOTES BEFORE OPERATING OR SERVICING THIS UNIT
1 EXACT REPLACEMENT PARTS MUST BE USED WHEN SERVICING THIS CONTROL PANEL
2. TOTAL SYSTEM CHARGE IS MARKED ON CONDENSER NAMEPLATE WHICH INCLUDES INDOOR SECTION AND 30 FEET OF INTERCONNECTING LIQUID LINE, IF LONGER LIQUID LINE IS USED ADD PER FOLLOWING CHART

1/4 LIQUID LINE, ADD .20 OZ PER FOOT IN EXCESS OF 30 FEET
3/8 LIQUID LINE, ADD .60 OZ PER FOOT IN EXCESS OF 30 FEET
1/2 LIQUID LINE, ADD 1.30 OZ PER FOOT IN EXCESS OF 30 FEET

TOTAL CHARGE BLOCK MUST BE STAMPED BY THE DEALER WHO INSTALLS THE UNIT FOR MORE COMPLETE INSTRUCTIONS SEE THE INSTALLATION INSTRUCTIONS

- APPLICATION EVAPORATOR TEMPERATURE RANGE: +35°F TO 53.5°F

FACTORY WIRING
— LOW VOLTAGE
— HIGH VOLTAGE

COLOR CODE
1ST GROUP- COLOR
2ND. GROUP- NUMBER

VT- VIOLET RD- RED
YL- YELLOW BL- BLUE
GN- GREEN BK- BLACK
BR- BROWN

D69289 REV. 0

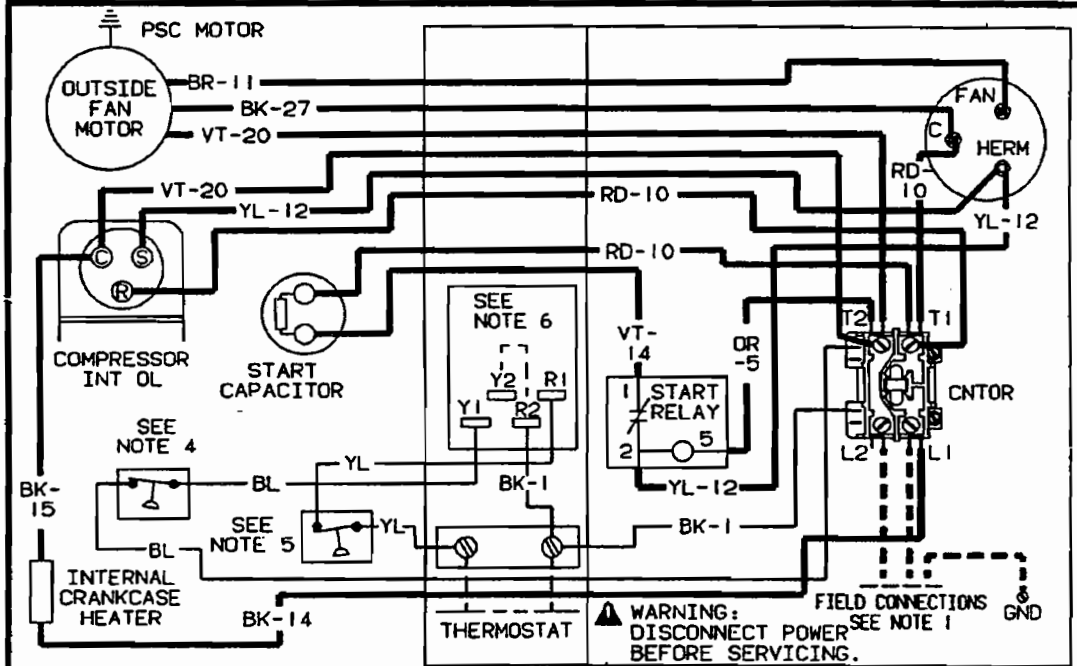
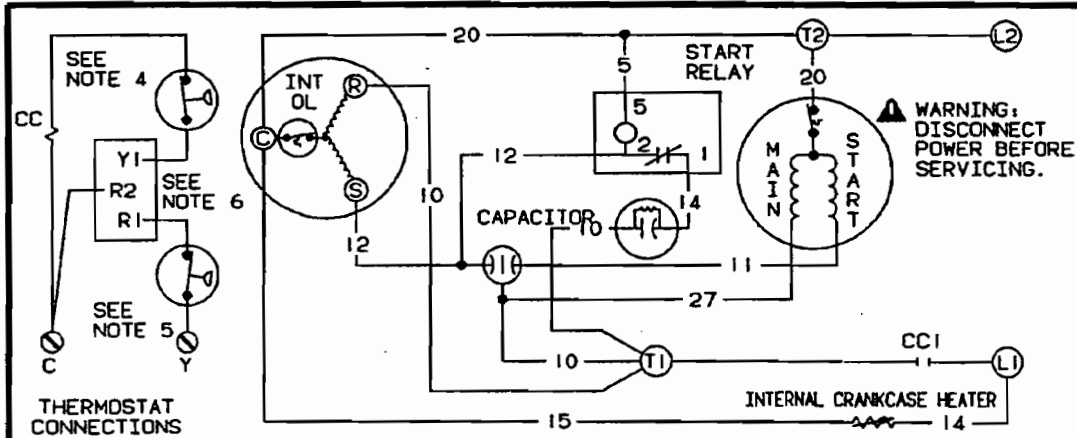
SRCF24U01A SRCF36U01A SRCF42U01A SRCF48U01A

TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WARNING



WIRING DIAGRAMS



NOTES:

1. SEE THE ELECTRICAL INFORMATION ON THE UNITS NAMEPLATE. FIELD CONNECTIONS FOR 1/2 UNITS ARE TO BE MADE AT L1, L2 & GND. SCREW.
2. FOR THE RECOMMENDED CONNECTION OF BOTH THE SEPARATELY LOCATED FAN RELAY AND THE THERMOSTAT SEE THE INSTALLATION INSTRUCTIONS.
3. TRANSFORMER N.E.C. CLASS 2, 24VAC, 20VA OUTPUT MINIMUM.
4. HI PRESSURE CUTOFF (MANUAL RESET) LOCATED IN DISCHARGE LINE AT COMPRESSOR.
5. LOW PRESSURE CUTOFF (AUTOMATIC RESET) LOCATED IN SUCTION LINE.
6. TIME DELAY RELAY-3 MIN. DELAY ON POWER INTERRUPT.
7. WIRE NUT AND TAPE UNUSED MOTOR LEAD.

NOTE: IF THIS UNIT IS EQUIPPED WITH A COMPRESSOR CRANKCASE HEATER, DO NOT OPERATE UNIT UNLESS HEATER HAS BEEN ENERGIZED FOR A MINIMUM OF FOUR (4) HOURS.

NOTE: READ THE FOLLOWING NOTES BEFORE OPERATING OR SERVICING THIS UNIT.

1. AMANA APPROVED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
2. TOTAL SYSTEM CHARGE IS MARKED ON CONDENSER NAMEPLATE WHICH INCLUDES INDOOR SECTION AND 30 FEET OF INTERCONNECTING LIQUID LINE, IF LONGER LIQUID LINE IS USED ADD PER FOLLOWING CHART.
 .250 LIQUID LINE ADD .20 OZ. PER FOOT IN EXCESS OF 30 FEET.
 .375 LIQUID LINE ADD .60 OZ. PER FOOT IN EXCESS OF 30 FEET.
 .500 LIQUID LINE ADD 1.30 OZ. PER FOOT IN EXCESS OF 30 FEET.
 TOTAL CHARGE BLOCK MUST BE STAMPED BY THE DEALER WHO INSTALLS THE UNIT. FOR MORE COMPLETE INSTRUCTIONS SEE INSTALLATION INSTRUCTIONS.
3. APPLICATION EVAPORATOR TEMPERATURE RANGE: +35°F TO 53.3°F.

FACTORY SUPPLIED WIRING

- LOW VOLTAGE
- HIGH VOLTAGE
- FIELD SUPPLIED WIRING
- LOW VOLTAGE
- HIGH VOLTAGE
- OPTIONAL ACCESSORY

COLOR CODE

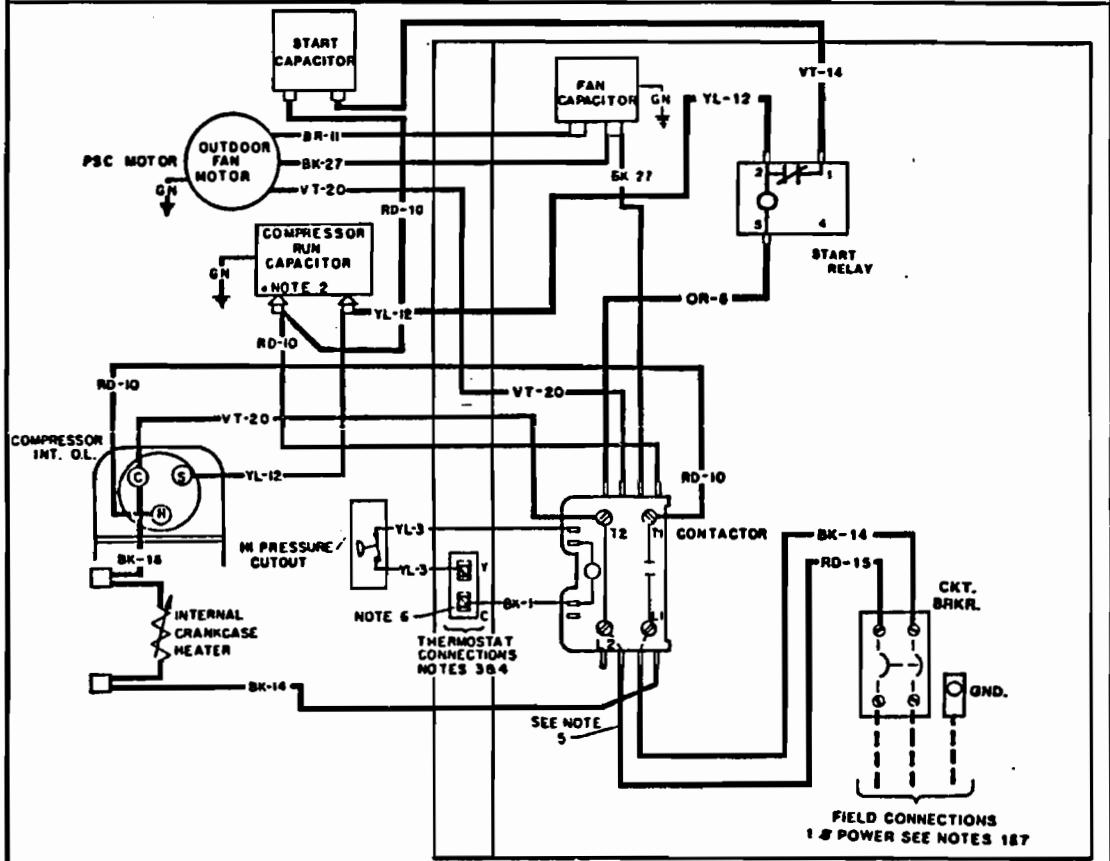
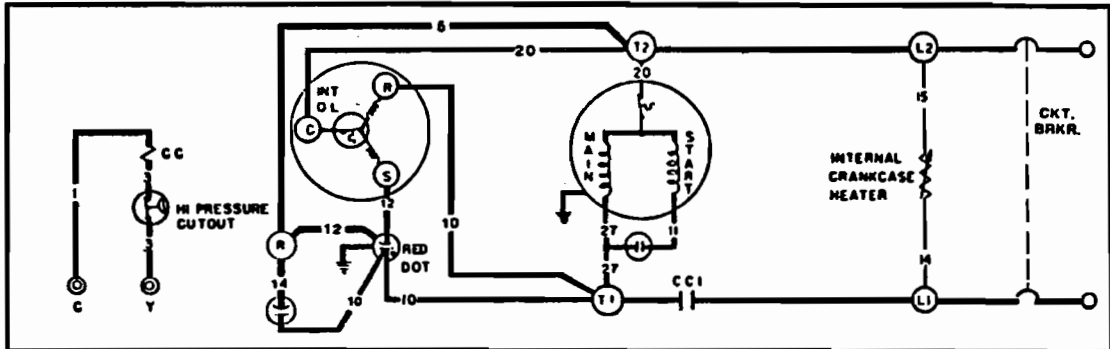
1ST GROUP-COLOR
2ND GROUP-NUMBER

- YL-YELLOW BK-BLACK
- VT-VIOLET BL-BLUE
- BR-BROWN RD-RED
- GN-GREEN

D9987001 REV 3

WARNING
TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



- NOTES:**
- SEE THE ELECTRICAL INFORMATION ON THE UNITS NAMEPLATE. FIELD CONNECTIONS FOR 18 UNITS ARE TO BE MADE AT CIRCUIT BRKR. AND GND. SCREW.
 - THE RED DOT ON THE COMPRESSOR RUN CAPACITOR MUST BE LOCATED AS SHOWN, WHEN REQ'D.
 - FOR THE RECOMMENDED CONNECTION OF BOTH THE SEPARATELY LOCATED FAN RELAY AND THE THERMOSTAT SEE THE INSTALLATION INSTRUCTIONS.
 - TRANSFORMER N.E.C CLASS 2, 24 VAC OUTPUT 20 VA MINIMUM

CANADIAN REQUIREMENTS:

- NEUTRAL, IF INPUT POWER DERIVED FROM 240/418 SOURCE.
- CONTROL CIRCUIT GROUND.
- 120/240 VAC 3 WIRE FILS.

NOTE: THIS UNIT IS EQUIPPED WITH A COMPRESSOR CRANKCASE HEATER. DO NOT OPERATE UNIT UNLESS HEATER HAS BEEN ENERGIZED FOR A MINIMUM OF FOUR (4) HOURS.

NOTE: READ THE FOLLOWING NOTES BEFORE OPERATING OR SERVICING THIS UNIT.

- EXACT REPLACEMENT PARTS MUST BE USED WHEN SERVICING THIS CONTROL PANEL.
- TOTAL SYSTEM CHARGE IS MARKED ON CONDENSER NAMEPLATE WHICH INCLUDES INDOOR SECTION AND 30 FEET OF INTERCONNECTING LIQUID LINE. IF LONGER LIQUID LINE IS USED ADD PER FOLLOWING CHART

1/4 LIQUID LINE, ADD .20 OZ. PER FOOT IN EXCESS OF 30 FEET.
3/8 LIQUID LINE, ADD .60 OZ. PER FOOT IN EXCESS OF 30 FEET.
1/2 LIQUID LINE, ADD 1.30 OZ. PER FOOT IN EXCESS OF 30 FEET.

TOTAL CHARGE BLOCK MUST BE STAMPED BY THE DEALER WHO INSTALLS THE UNIT. FOR MORE COMPLETE INSTRUCTIONS SEE THE INSTALLATION INSTRUCTIONS.

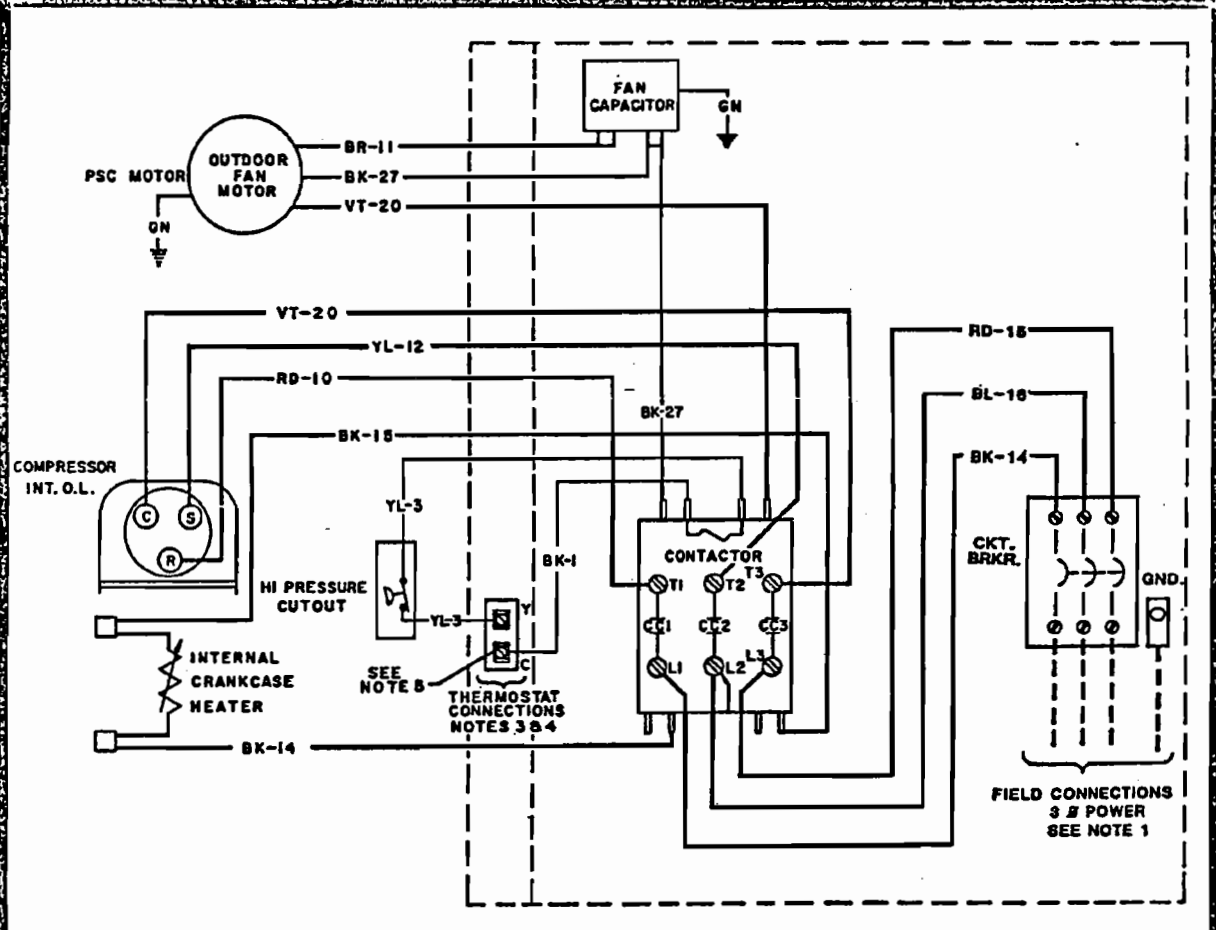
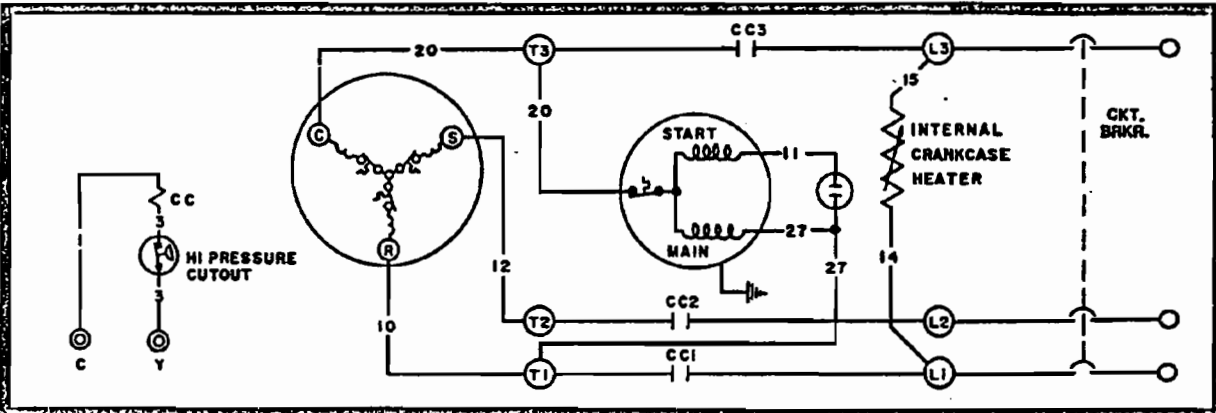
- APPLICATION EVAPORATOR TEMPERATURE RANGE: 35F TO 53.5 F.

FACTORY WIRING	
—	LOW VOLTAGE
—	HIGH VOLTAGE
COLOR CODE	
1ST GROUP- COLOR	
2ND GROUP- NUMBER	
VT- VIOLET	RD- RED
YL- YELLOW	BL- BLUE
GN- GREEN	BK- BLACK
BR- BROWN	

D69282 REV. 0

WARNING
TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



- 1. SEE THE ELECTRICAL INFORMATION ON THE UNITS NAMEPLATE
- 2. FIELD CONNECTIONS FOR 3 Ø UNITS ARE TO BE MADE AT CIRCUIT BRKR. AND GND. SCREW.
- 3. COMPRESSOR MOTOR PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS.
- 4. FOR THE RECOMMENDED CONNECTION OF BOTH THE SEPARATELY LOCATED FAN RELAY AND THE THERMOSTAT, SEE THE INSTALLATION INSTRUCTIONS.
- 5. TRANSFORMER N.E.C CLASS 2, 24 VAC OUTPUT, 20 VA MINIMUM CANADIAN REQUIREMENT.
- 6. CONTROL CIRCUIT GROUND.

NOTE: THIS UNIT IS EQUIPPED WITH A COMPRESSOR CRANKCASE HEATER. DO NOT OPERATE UNIT UNLESS HEATER HAS BEEN ENERGIZED FOR A MINIMUM OF FOUR (4) HOURS.

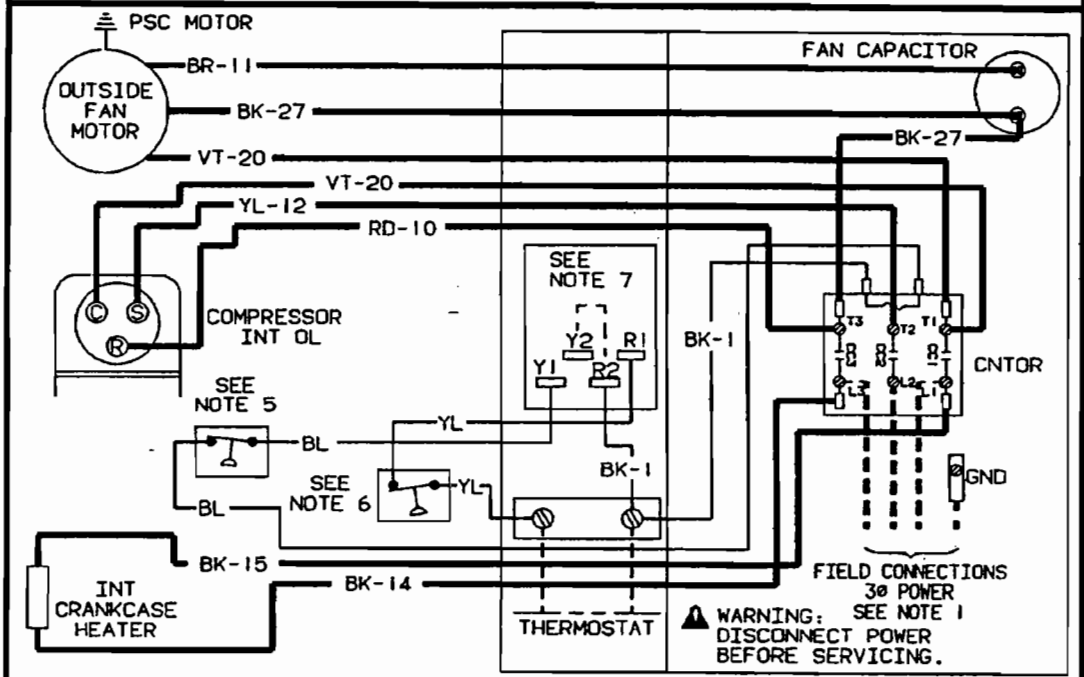
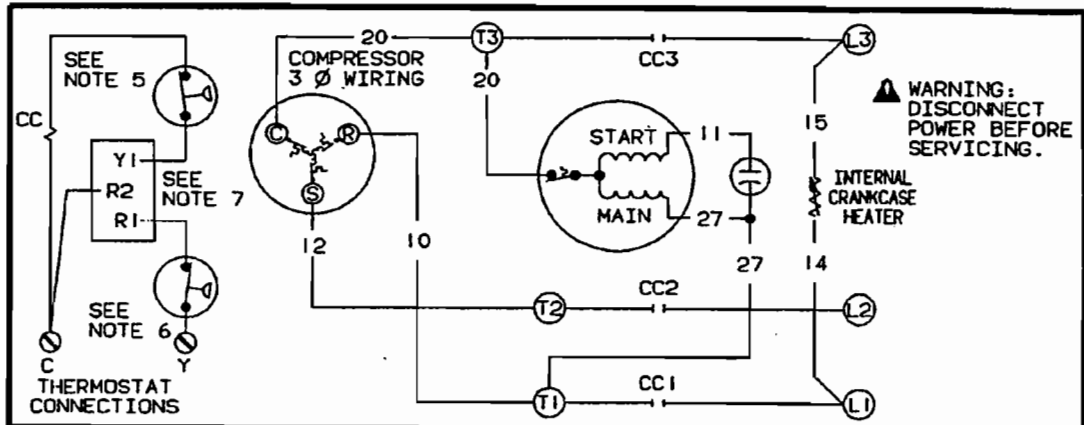
- NOTE:** READ THE FOLLOWING NOTES BEFORE OPERATING OR SERVICING THIS UNIT.
1. EXACT REPLACEMENT PARTS MUST BE USED WHEN SERVICING THIS CONTROL PANEL.
 2. TOTAL SYSTEM CHARGE IS MARKED ON CONDENSER NAMEPLATE WHICH INCLUDES INDOOR SECTION AND 30 FEET INTERCONNECTING LIQUID LINE. IF LONGER LIQUID LINE IS USED ADD PER FOLLOWING CHART
 - 1/4 LIQUID LINE, ADD 0.20 OZ. PER FOOT IN EXCESS OF 30 FEET.
 - 3/8 LIQUID LINE, ADD 0.60 OZ. PER FOOT IN EXCESS OF 30 FEET.
 - 1/2 LIQUID LINE, ADD 1.30 OZ. PER FOOT IN EXCESS OF 30 FEET.
 3. TOTAL CHARGE BLOCK MUST BE STAMPED BY THE DEALER WHO INSTALLS THE UNIT. FOR MORE COMPLETE INSTRUCTIONS SEE THE INSTALLATION INSTRUCTIONS.
 4. APPLICATION EVAPORATOR TEMPERATURE RANGE +35°F TO 53°F.

FACTORY WIRING	
—	LOW VOLTAGE
—	HIGH VOLTAGE
COLOR CODE	
1ST GROUP-COLOR	
2ND GROUP-NUMBER	
VT-VIOLET	RD-RED
YL-YELLOW	BL-BLUE
GN-GREEN	BK-BLACK
BR-BROWN	

D68608 REV. 1

WARNING
TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



NOTES:

1. SEE THE ELECTRICAL INFORMATION ON THE UNITS NAMEPLATE. FIELD CONNECTIONS FOR 3Ø UNITS ARE TO BE MADE AT L1, L2, L3 & GND. SCREW.
2. COMPRESSOR MOTOR PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS.
3. FOR THE RECOMMENDED CONNECTION OF BOTH THE SEPARATELY LOCATED FAN RELAY AND THE THERMOSTAT, SEE THE INSTALLATION INSTRUCTIONS.
4. TRANSFORMER N.E.C. CLASS 2, 24VAC, 20VA MINIMUM.
5. HI PRESSURE CUTOFF (MANUAL RESET) LOCATED IN DISCHARGE LINE AT COMPRESSOR.
6. LOW PRESSURE CUTOFF (AUTOMATIC RESET) LOCATED IN SUCTION LINE.
7. TIME DELAY RELAY- 3 MIN. DELAY ON POWER INTERRUPT.

NOTE: IF THIS UNIT IS EQUIPPED WITH A COMPRESSOR CRANKCASE HEATER, DO NOT OPERATE UNIT UNLESS HEATER HAS BEEN ENERGIZED FOR A MINIMUM OF FOUR (4) HOURS.

NOTE: READ THE FOLLOWING NOTES BEFORE OPERATING OR SERVICING THIS UNIT.

1. AHAMA APPROVED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
2. TOTAL SYSTEM CHARGE IS MARKED ON CONDENSER NAMEPLATE WHICH INCLUDES INDOOR SECTION AND 30 FEET OF INTERCONNECTING LIQUID LINE. IF LONGER LIQUID LINE IS USED ADD PER FOLLOWING CHART.
 .250 LIQUID LINE ADD .20 OZ. PER FOOT IN EXCESS OF 30 FEET.
 .375 LIQUID LINE ADD .60 OZ. PER FOOT IN EXCESS OF 30 FEET.
 .500 LIQUID LINE ADD 1.30 OZ. PER FOOT IN EXCESS OF 30 FEET.
 TOTAL CHARGE BLOCK MUST BE STAMPED BY THE DEALER WHO INSTALLS THE UNIT. FOR MORE COMPLETE INSTRUCTIONS SEE THE INSTALLATION INSTRUCTIONS.
3. APPLICATION EVAPORATOR TEMPERATURE RANGE: +35°F TO 53°F.
4. WIRE NUT AND TAPE UNUSED MOTOR LEADS.

FACTORY SUPPLIED WIRING

- LOW VOLTAGE
- HIGH VOLTAGE
- LOW VOLTAGE
- HIGH VOLTAGE
- OPTIONAL ACCESSORY

COLOR CODE

- 1ST GROUP-COLOR
 2ND GROUP-NUMBER
- YL-YELLOW BK-BLACK
 - VT-VIOLET BL-BLUE
 - BR-BROWN RD-RED
 - GN-GREEN

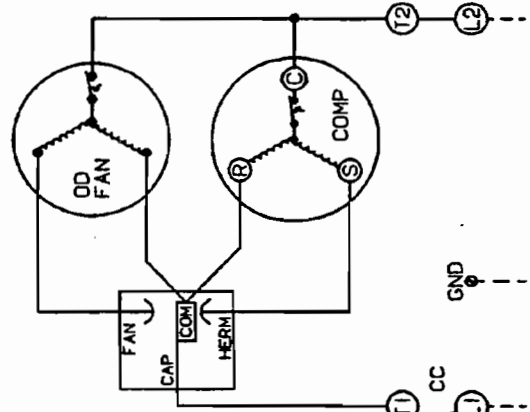
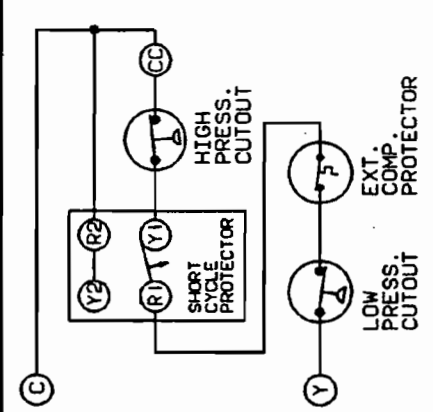
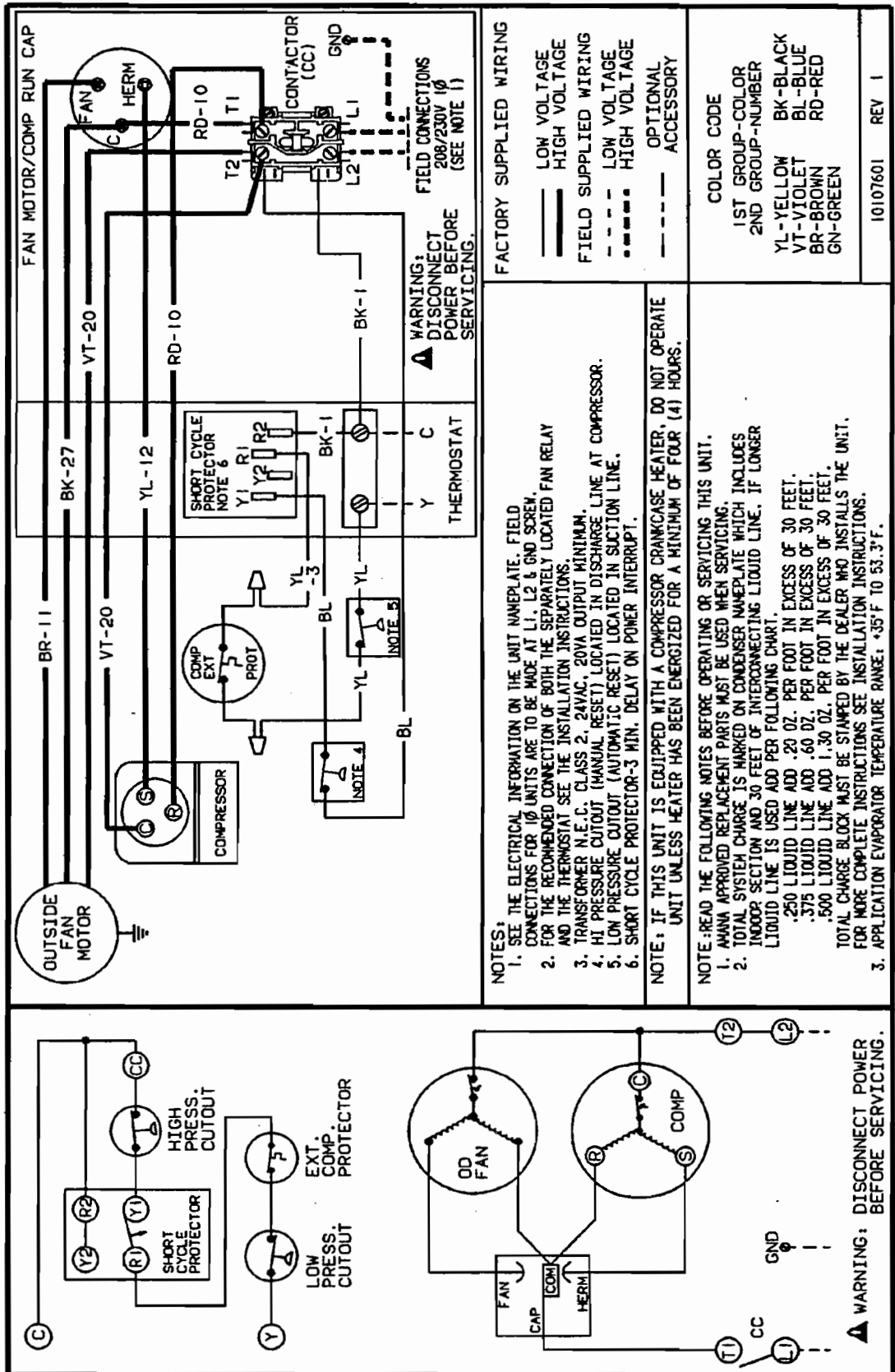
D9987101 REV 3

TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WARNING



WIRING DIAGRAMS



FACTORY SUPPLIED WIRING

— LOW VOLTAGE
 — HIGH VOLTAGE

FIELD SUPPLIED WIRING

- - - LOW VOLTAGE
 - - - HIGH VOLTAGE

— OPTIONAL
 - - - ACCESSORY

COLOR CODE

1ST GROUP-COLOR	2ND GROUP-NUMBER	3RD GROUP-COLOR
YL-YELLOW	BK-BLACK	BL-BLUE
VT-VIOLET	BR-BROWN	RD-RED
GN-GREEN		

10107601 REV 1

NOTES:

- SEE THE ELECTRICAL INFORMATION ON THE UNIT NAMEPLATE. FIELD CONNECTIONS FOR 1Ø UNITS ARE TO BE MADE AT L1, L2 & GND SCHEM. FOR THE RECOMMENDED CONNECTION OF BOTH THE SEPARATELY LOCATED FAN RELAY AND THE THERMOSTAT SEE THE INSTALLATION INSTRUCTIONS.
- TRANSFORMER N.E.C. CLASS 2, 24VAC, 20VA OUTPUT MINIMUM.
- HI PRESSURE CUTOUT (MANUAL RESET) LOCATED IN DISCHARGE LINE AT COMPRESSOR.
- LOW PRESSURE CUTOUT (AUTOMATIC RESET) LOCATED IN SUCTION LINE.
- SHORT CYCLE PROTECTOR-3 MIN. DELAY ON POWER INTERRUPT.

NOTE: IF THIS UNIT IS EQUIPPED WITH A COMPRESSOR CRANKCASE HEATER, DO NOT OPERATE UNIT UNLESS HEATER HAS BEEN ENERGIZED FOR A MINIMUM OF FOUR (4) HOURS.

NOTE: READ THE FOLLOWING NOTES BEFORE OPERATING OR SERVICING THIS UNIT.

- AMANA APPROVED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
- TOTAL SYSTEM CHARGE IS MARKED ON CONDENSER NAMEPLATE WHICH INCLUDES INDOOR SECTION AND 30 FEET OF INTERCONNECTING LIQUID LINE. IF LONGER LIQUID LINE IS USED ADD PER FOLLOWING CHART.
 - .250 LIQUID LINE ADD .20 OZ. PER FOOT IN EXCESS OF 30 FEET.
 - .375 LIQUID LINE ADD .60 OZ. PER FOOT IN EXCESS OF 30 FEET.
 - .500 LIQUID LINE ADD 1.30 OZ. PER FOOT IN EXCESS OF 30 FEET.

TOTAL CHARGE BLOCK MUST BE STAMPED BY THE DEALER WHO INSTALLS THE UNIT. FOR MORE COMPLETE INSTRUCTIONS SEE INSTALLATION INSTRUCTIONS.

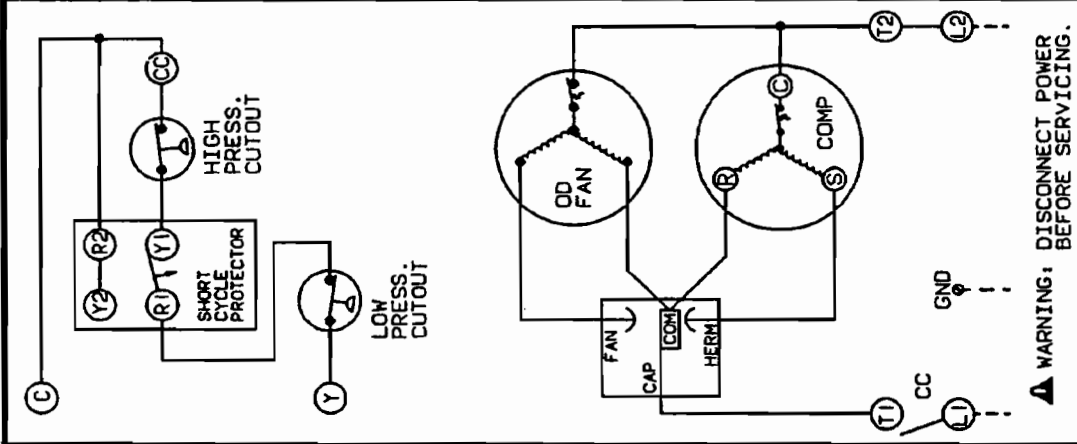
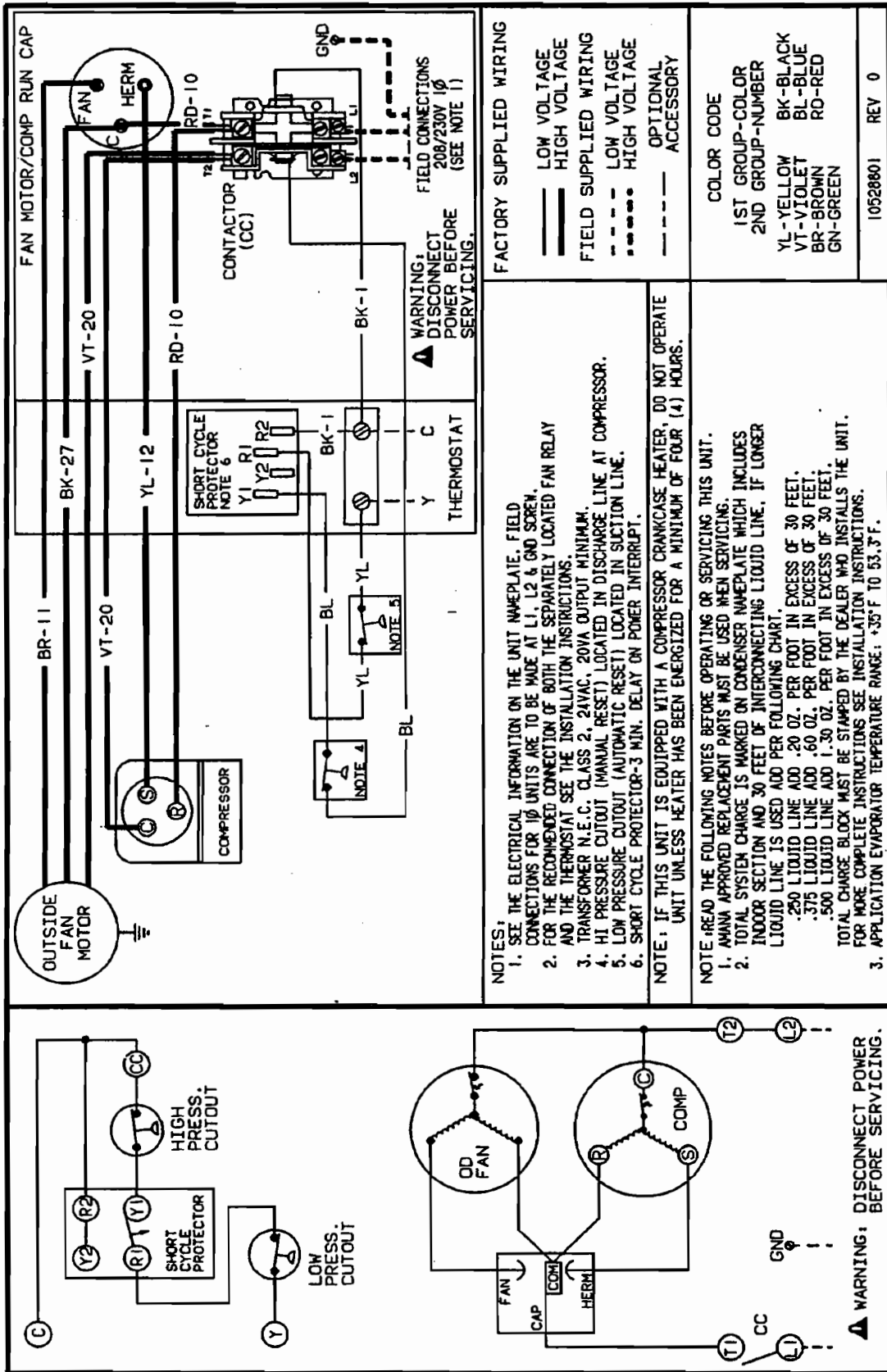
- APPLICATION EVAPORATOR TEMPERATURE RANGE: +35°F TO 53.3°F.

WARNING: DISCONNECT POWER BEFORE SERVICING.

WARNING

TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



NOTES:

- SEE THE ELECTRICAL INFORMATION ON THE UNIT NAMEPLATE. FIELD CONNECTIONS FOR 1Ø UNITS ARE TO BE MADE AT L1, L2 & GND SCHEM.
- FOR THE RECOMMENDED CONNECTION OF BOTH THE SEPARATELY LOCATED FAN RELAY AND THE THERMOSTAT SEE THE INSTALLATION INSTRUCTIONS.
- TRANSFORMER N.E.C. CLASS 2, 24VAC, 20VA OUTPUT MINIMUM.
- HI PRESSURE CUTOUT (MANUAL RESET) LOCATED IN DISCHARGE LINE AT COMPRESSOR.
- LOW PRESSURE CUTOUT (AUTOMATIC RESET) LOCATED IN SUCTION LINE.
- SHORT CYCLE PROTECTOR-3 MIN. DELAY ON POWER INTERRUPT.

NOTE: IF THIS UNIT IS EQUIPPED WITH A COMPRESSOR CRANKCASE HEATER, DO NOT OPERATE UNIT UNLESS HEATER HAS BEEN ENERGIZED FOR A MINIMUM OF FOUR (4) HOURS.

NOTE: READ THE FOLLOWING NOTES BEFORE OPERATING OR SERVICING THIS UNIT.

- AMANA APPROVED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
- TOTAL SYSTEM CHARGE IS MARKED ON CONDENSER NAMEPLATE WHICH INCLUDES INDOOR SECTION AND 3Ø FEET OF INTERCONNECTING LIQUID LINE. IF LONGER LIQUID LINE IS USED ADD PER FOLLOWING CHART.
 - .25Ø LIQUID LINE ADD .2Ø OZ. PER FOOT IN EXCESS OF 3Ø FEET.
 - .375 LIQUID LINE ADD .6Ø OZ. PER FOOT IN EXCESS OF 3Ø FEET.
 - .5ØØ LIQUID LINE ADD 1.3Ø OZ. PER FOOT IN EXCESS OF 3Ø FEET.
- TOTAL CHARGE BLOCK MUST BE STAMPED BY THE DEALER WHO INSTALLS THE UNIT. FOR MORE COMPLETE INSTRUCTIONS SEE INSTALLATION INSTRUCTIONS.
- APPLICATION EVAPORATOR TEMPERATURE RANGE: +35° F TO 53.3° F.

FACTORY SUPPLIED WIRING

— LOW VOLTAGE
 — HIGH VOLTAGE

— FIELD SUPPLIED WIRING
 - - - - - LOW VOLTAGE
 - · - · - - HIGH VOLTAGE

— OPTIONAL
 - - - - - ACCESSORY

COLOR CODE

1ST GROUP-COLOR
 2ND GROUP-NUMBER

YL-YELLOW BK-BLACK
 VT-VIOLET BL-BLUE
 BR-BROWN RD-RED
 GN-GREEN

WARNING: DISCONNECT POWER BEFORE SERVICING.

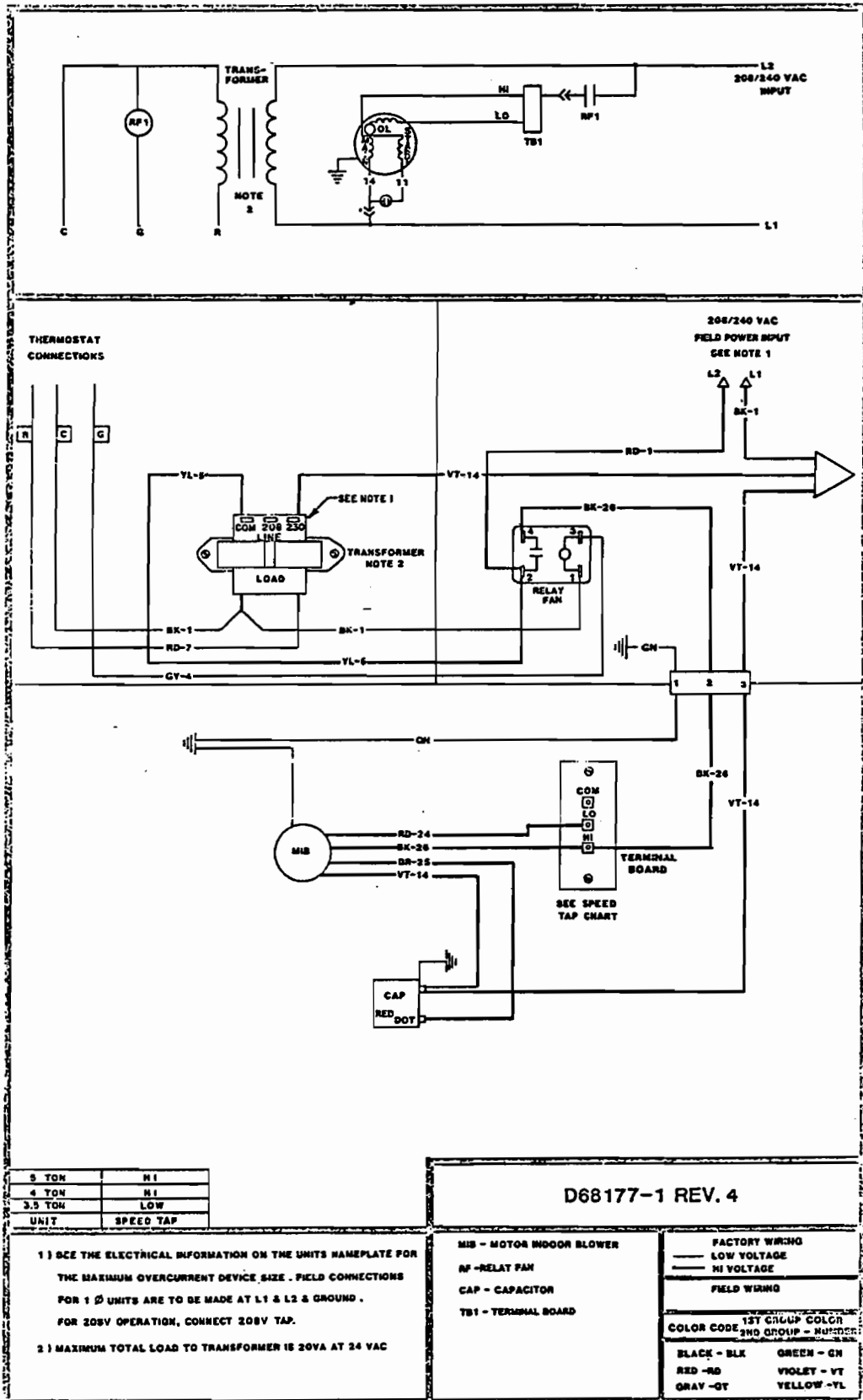
FIELD CONNECTIONS 2ØB/23ØV 1Ø (SEE NOTE 1)

10528801 REV 0

WARNING

TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



5 TON	HI
4 TON	HI
3.5 TON	LOW
UNIT	SPEED TAP

1) SEE THE ELECTRICAL INFORMATION ON THE UNITS NAMEPLATE FOR THE MAXIMUM OVERCURRENT DEVICE SIZE. FIELD CONNECTIONS FOR 1 1/2 UNITS ARE TO BE MADE AT L1 & L2 & GROUND. FOR 208V OPERATION, CONNECT 208V TAP.

2) MAXIMUM TOTAL LOAD TO TRANSFORMER IS 20VA AT 24 VAC

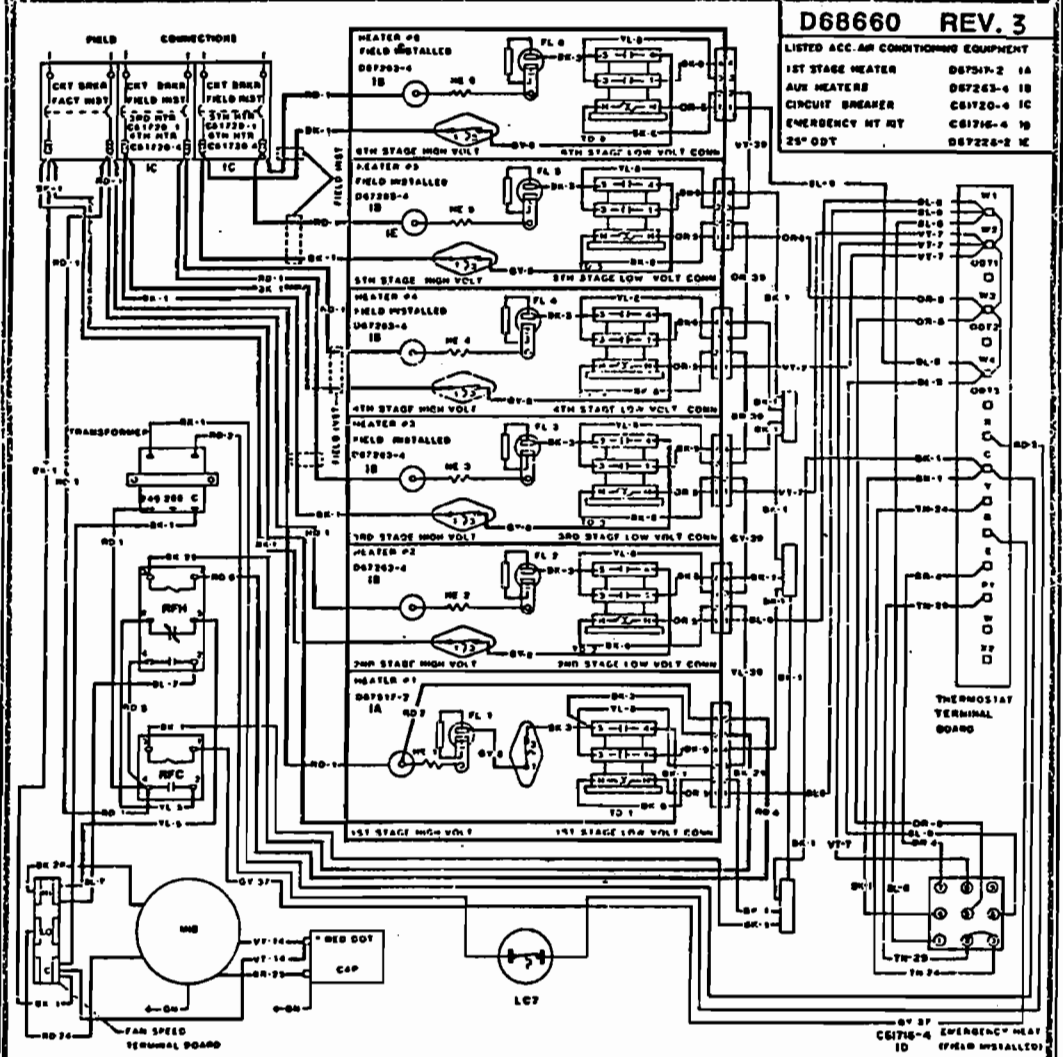
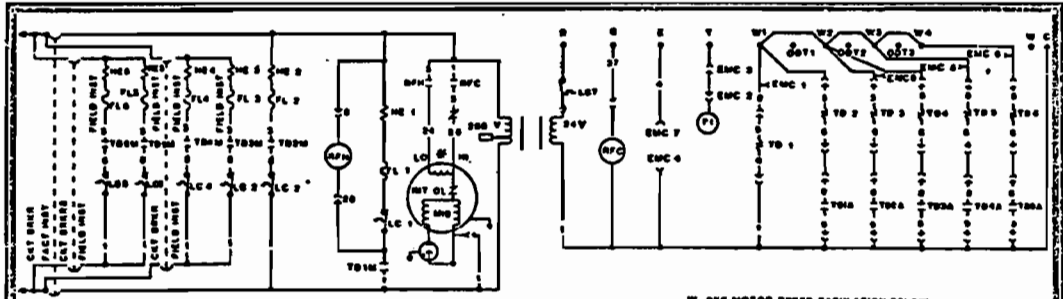
D68177-1 REV. 4

MIB - MOTOR INDOOR BLOWER
 RF - RELAY FAN
 CAP - CAPACITOR
 TB1 - TERMINAL BOARD

FACTORY WIRING	
LOW VOLTAGE	
HI VOLTAGE	
FIELD WIRING	
COLOR CODE 1ST GROUP COLOR	
2ND GROUP - NUMBER	
BLACK - BLK	GREEN - GN
RED - RD	VIOLET - VT
GRAY - GT	YELLOW - YL

WARNING
 TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

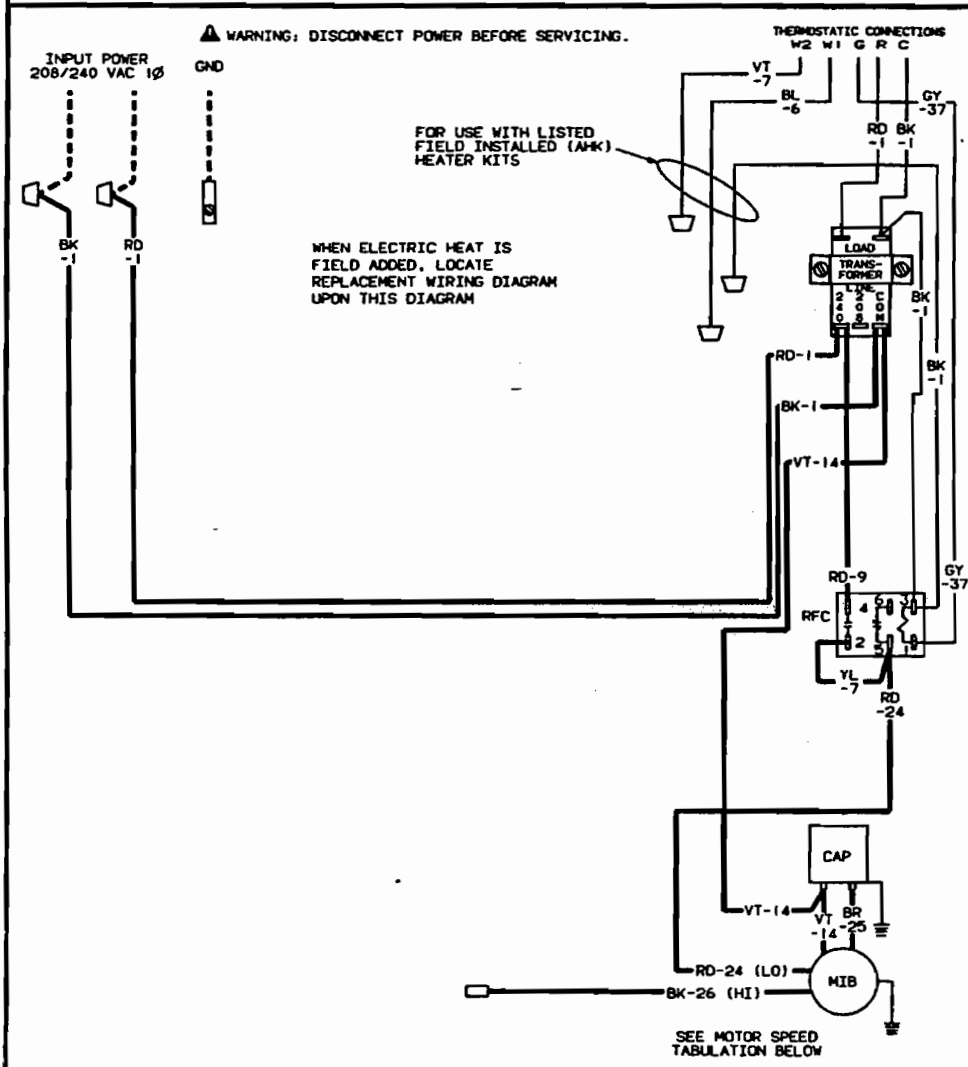
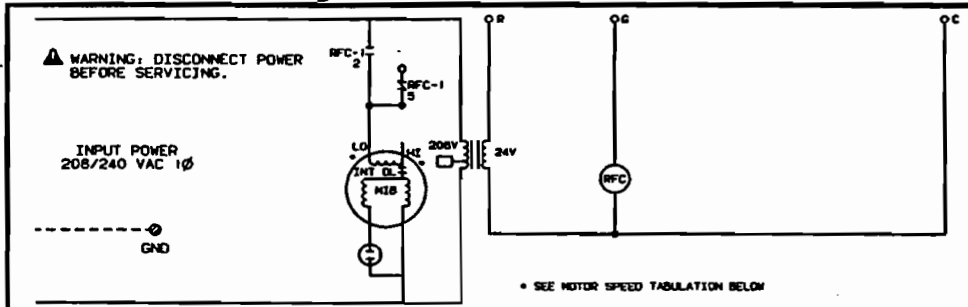
WIRING DIAGRAMS



WMT	FAN SPEED CHART CONNECTION AT TERMINAL BOARD FIELD WINDING CHANGE					NO OF HRS. TURNING	ANTICIPATOR SETTINGS						FACTORY WIRING — LOW VOLTAGE --- HIGH VOLTAGE
	2 HRS	3 HRS	4 HRS	5 HRS	6 HRS		1	2	3	4	5	6	
42W 570M CLIMBER 5 HEAT PUMP ELECT. HEAT	MOVE DL-7 AND VL-6 TO LOW TERMINAL					1	2	3	4	5	6	10	FIELD WIRING --- HIGH VOLTAGE COLOR CODE 1ST GROUP - COLOR 2ND GROUP - NUMBER BLACK-BK GRAY-BY YELLOW-YL BLUE-BL ORANGE-OR VIOLET-VL RED-RD GREEN-GW BROWN-BR TAB-14
42W 570M COOLING ELECT. HEAT	MOVE DL-7 TO LOW TERMINAL					10	20	30	40	50	60		
42W 570M COPING 5 HEAT PUMP ELECT. HEAT	NONE					10	20	30	40	50	60		
42W 570M COOLING HEAT PUMP	NONE					10	20	30	40	50	60		

WARNING
 TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY,
 OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

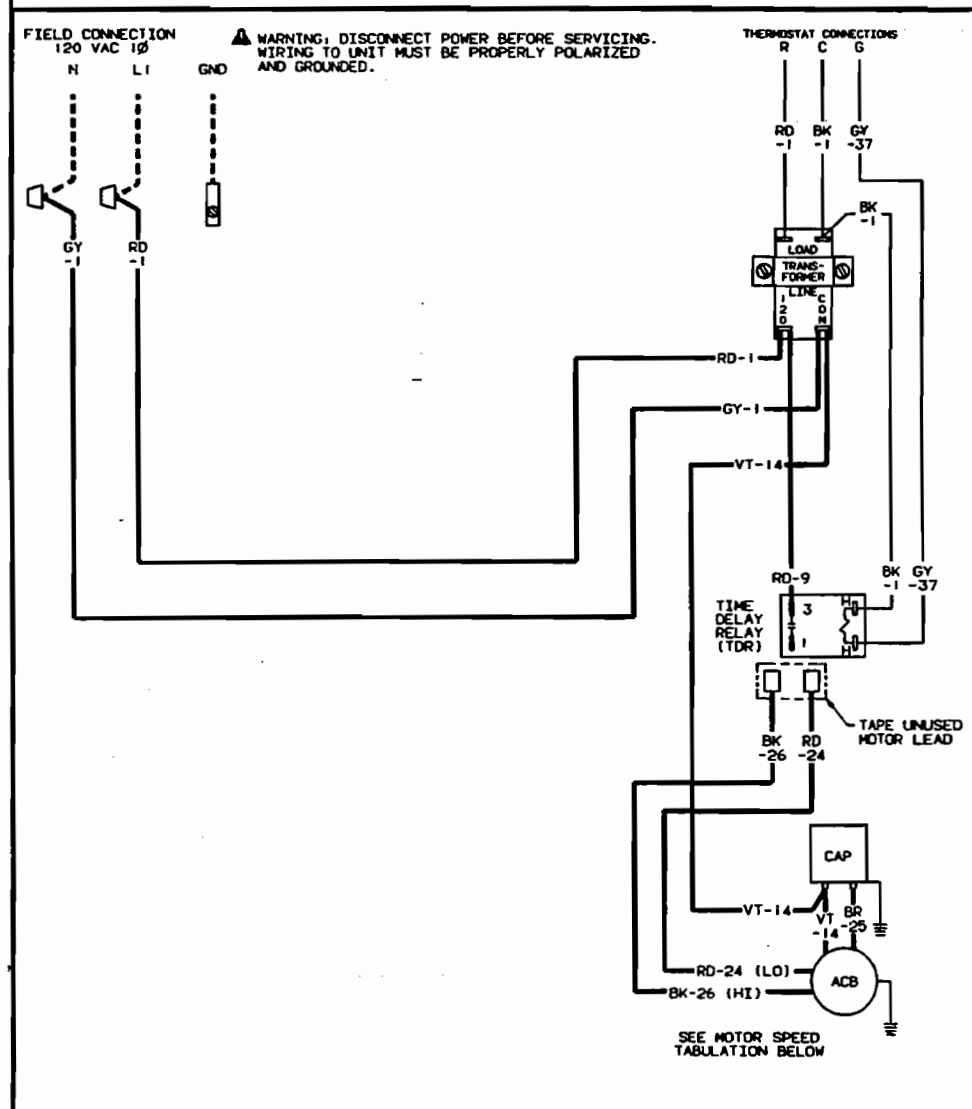
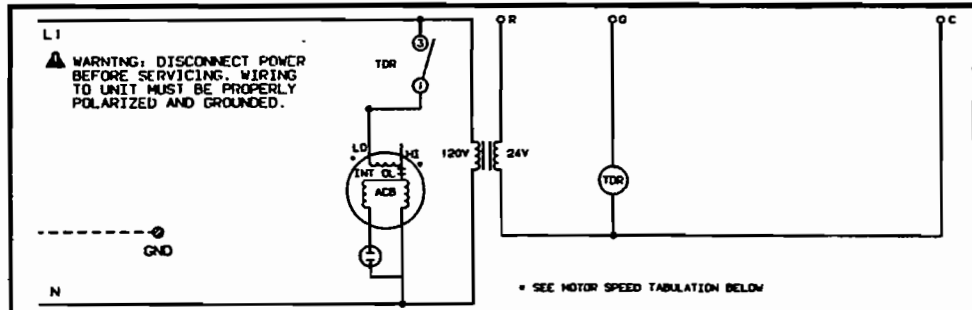
WIRING DIAGRAMS



FAN SPEED CHART (0 KW)		10043001 REV 0	
CONNECT THE FOLLOWING MOTOR SPEED WIRE TO TERMINAL #5 ON THE FAN RELAY SOCKET		ANTICIPATOR SETTINGS NO. OF WTRS 0 ELECTRIC HEAT 0	FACTORY SUPPLIED WIRING LOW VOLTAGE HIGH VOLTAGE
MODEL	MOTOR SPEED		FIELD SUPPLIED WIRING LOW VOLTAGE HIGH VOLTAGE
18C.30C.24T.30T	RD-24		COLOR 1ST GROUP-COLOR CODE; 2ND GROUP-NUMBER
24C.36C.36T	BK-26, SEE NOTE 1	MIB-MOTOR INDOOR BLOWER TD-TIME DELAY LE-LIMIT CONTROL HE-HEATER ELEMENT RFC-RELAY, FAN COOLING CAP-CAPACITOR FL-FUSIBLE LINK	BLACK-BK ORANGE-OR BLUE-BL GREEN-GN RED-RD YELLOW-YL TAN-TN VIOLET-VT GRAY-GY BROWN-BR
NOTE 1: CONNECT RELAY TERMINALS 2&5 WITH YL-7 JUMPER. TAPE END OF UNUSED MOTOR LEAD WIRE.			

WARNING
 TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

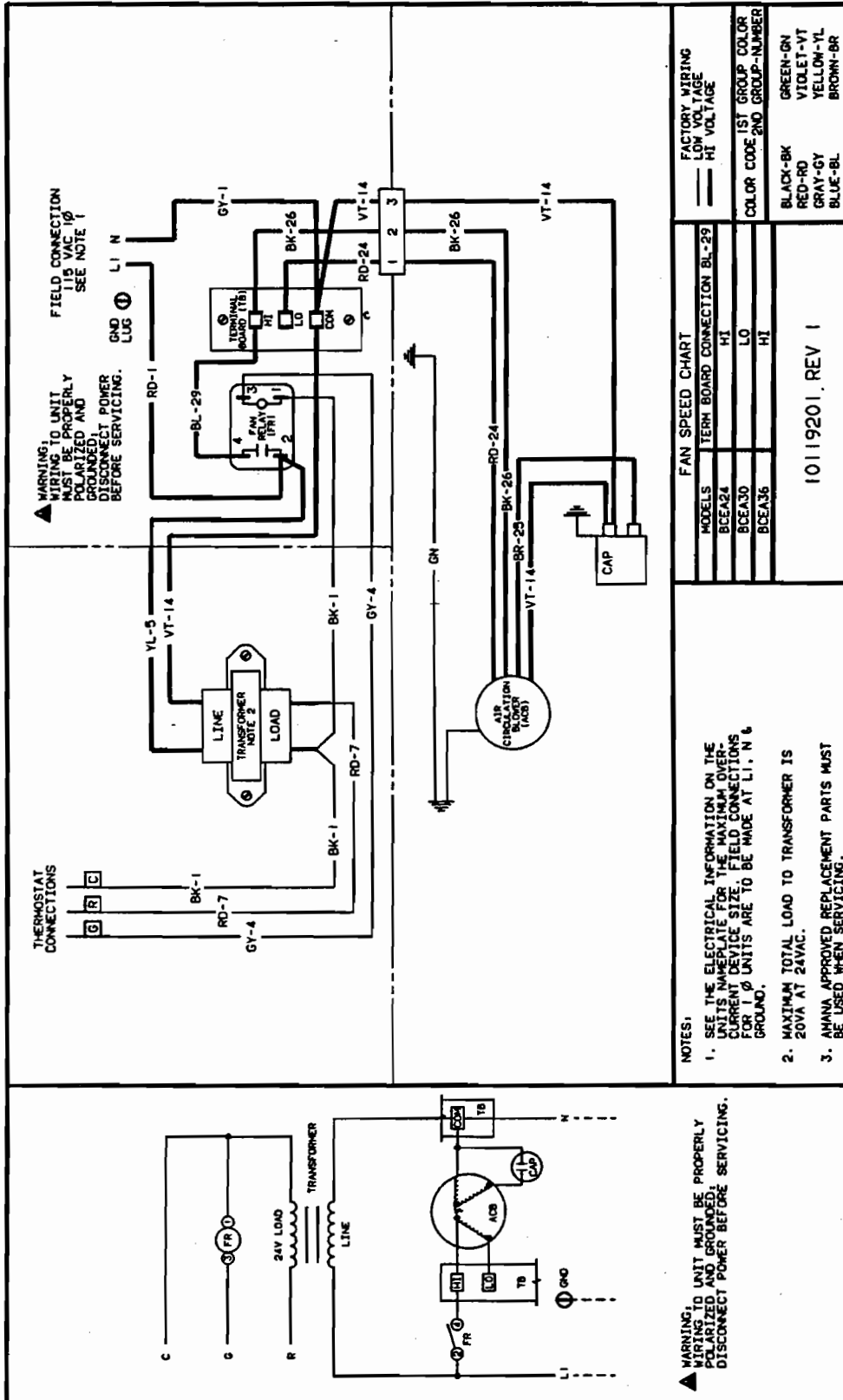
WIRING DIAGRAMS



FAN SPEED CHART (0 KW)		10267801 REV 0	
CONNECT THE FOLLOWING MOTOR SPEED WIRE TO TERMINAL #1 ON THE TIME DELAY RELAY		FACTORY SUPPLIED WIRING	FIELD SUPPLIED WIRING
MODEL	MOTOR SPEED	===== LOW VOLTAGE ===== HIGH VOLTAGE	===== =====
24T, 30T	RD-24 (LOW)	ACB-AIR CIRCULATION BLOWER TDR-TIME DELAY RELAY CAP-CAPACITOR	COLOR 1ST GROUP-COLOR CODE, 2ND GROUP-NUMBER
36T	BK-26 (HI)		BLACK-BK ORANGE-OR BLUE-BU GREEN-GN RED-RO YELLOW-YL TAN-TN VIOLET-VT GRAY-GY BROWN-BR

WARNING
TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

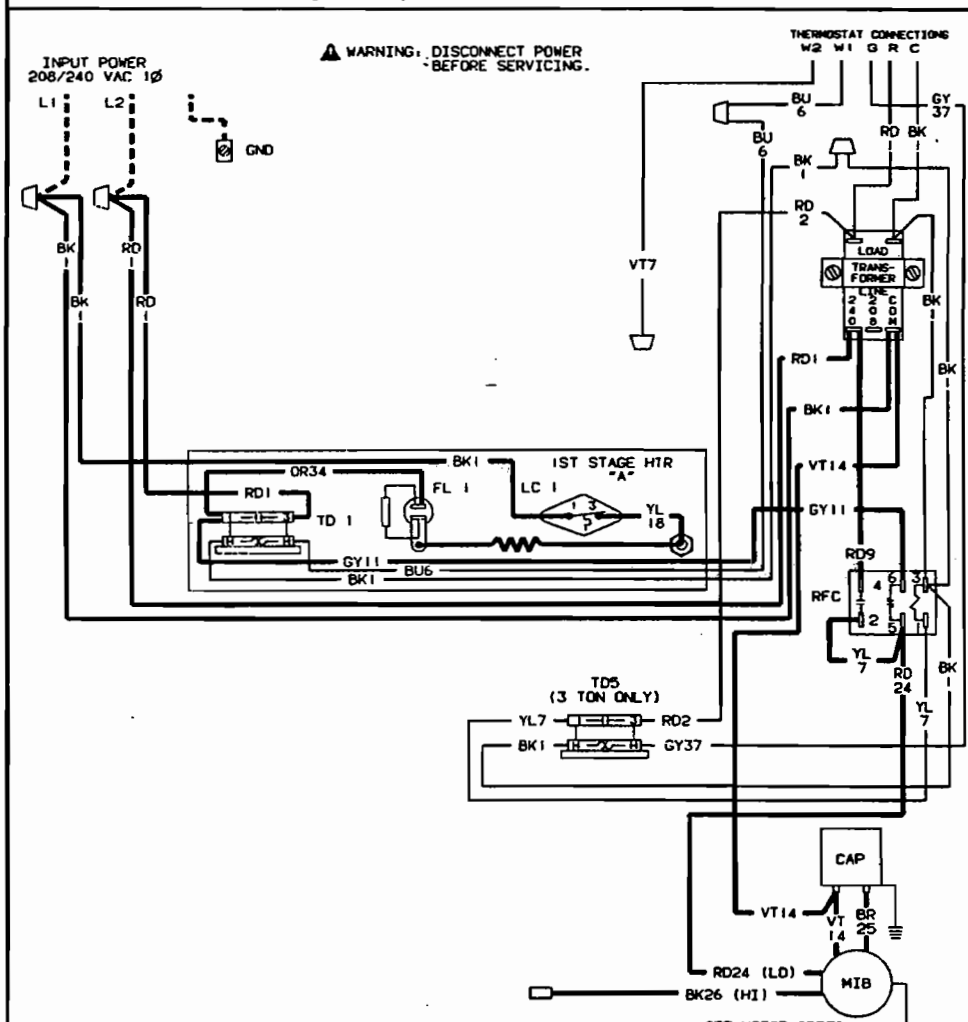
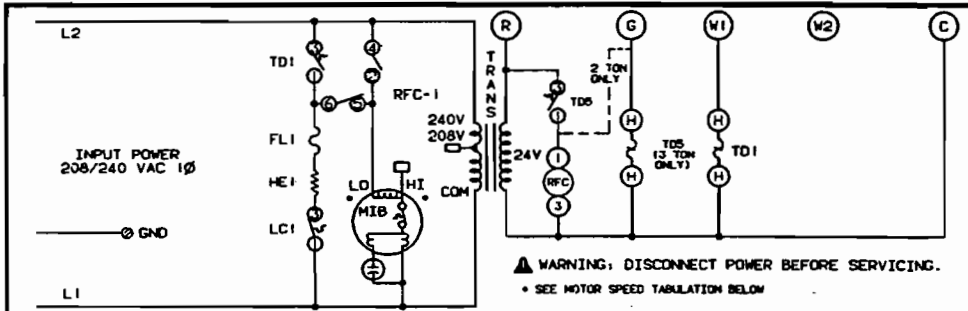
WIRING DIAGRAMS



WARNING
TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

BCEA24-36 115 VOLT BLOWER CABINETS

WIRING DIAGRAMS



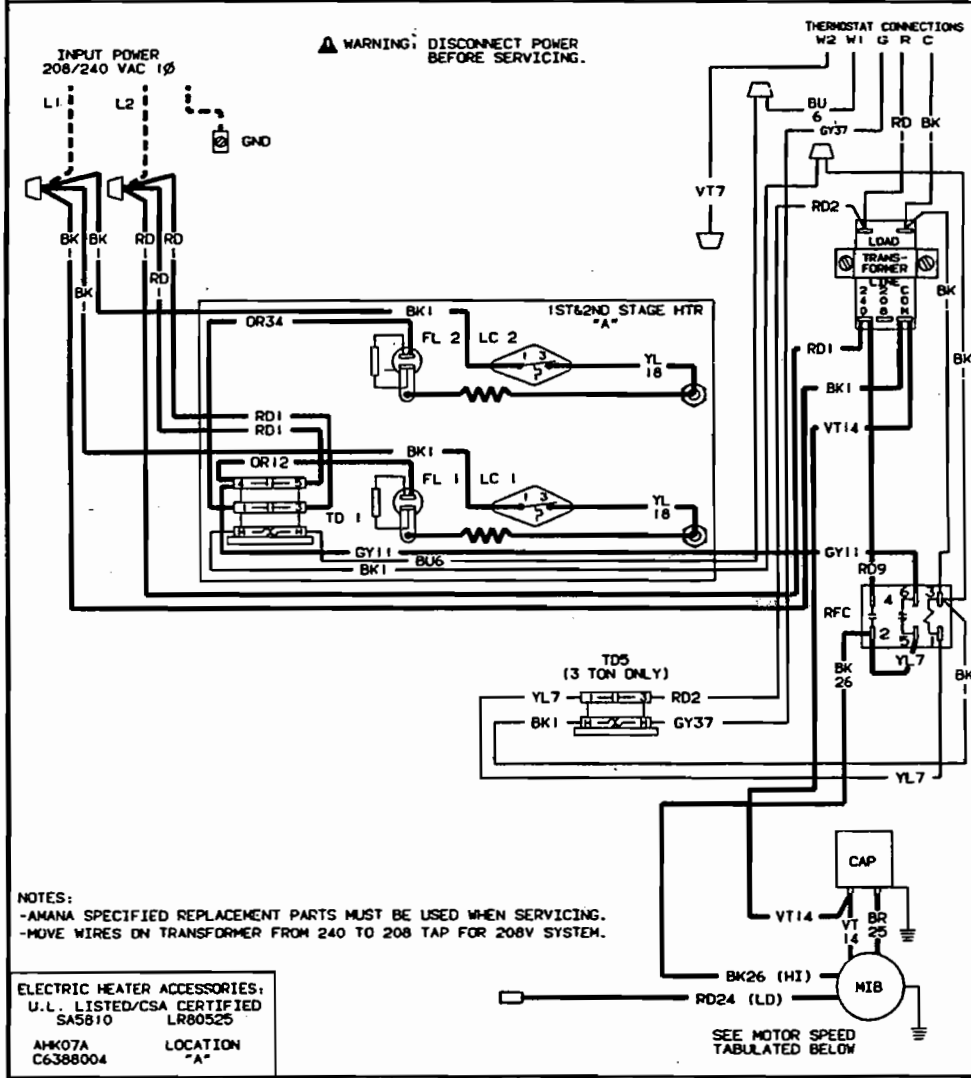
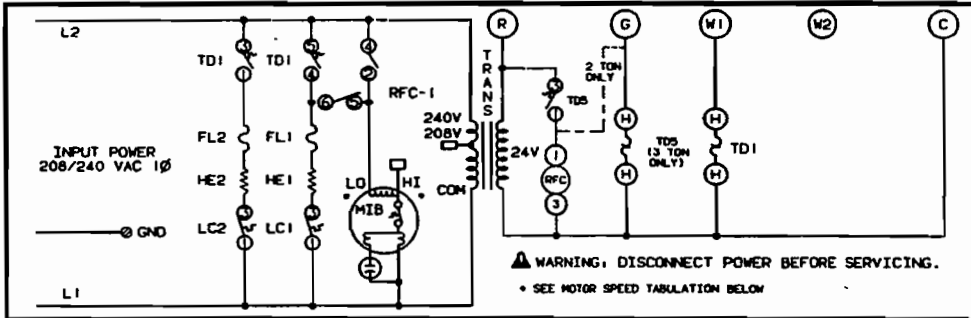
NOTES:
 -AMANA SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
 -MOVE WIRES ON TRANSFORMER FROM 240 TO 208 TAP FOR 208V SYSTEM.

MOTOR SPEED TABULATION			ELECTRIC HEATER ACCESSORIES:		10310401 REV 0	
CAPACITY /MODE	FAN RLY TERMINAL	5 KW	U.L. / LISTED	CSA / CERTIFIED	ANTICIPATOR SETTINGS	FACTORY SUPPLIED WIRING
18000 & 30000 COOLING	2	RD-24	SA5810	LR80525	NO. OF HTRS 0	LOW VOLTAGE
18000 & 30000 HT PUMP	5	RD-24			ELECTRIC HEAT 0	HIGH VOLTAGE
		NOTE 1			HEAT PUMP .4	FIELD SUPPLIED WIRING
24000 & 36000 COOLING	2	BK-26	AHK05A	LOCATION "A"	1ST STAGE 0	HIGH VOLTAGE
	5	RD-24	C6387902			
24000 & 36000 HT PUMP	2	BK-26			MIB-MOTOR INDOOR BLOWER	COLOR 1ST GROUP-COLOR
	5	BK-26			TD-TIME DELAY	CODE; 2ND GROUP-NUMBER
		NOTE 1			LC-LIMIT CONTROL	BLACK-BK
					HE-HEATER ELEMENT	BLUE-BU
					RFC-RELAY, FAN COOLING	RED-RD
					CAP-CAPACITOR	TAN-TN
					FL-FUSIBLE LINK	YELLOW-YL
						VIOLET-VT
						BROWN-BR

NOTE 1: CONNECT RELAY TERMINALS 2&5 WITH YL-7 JUMPER. IF MOTOR SPEEDS ARE CHANGED, FOLD UNUSED WIRE(S) ON ITSELF AND WRAP 5 TIMES WITH ELECTRICAL TAPE.

WARNING
 TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



NOTES:
 -AMANA SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
 -MOVE WIRES ON TRANSFORMER FROM 240 TO 208 TAP FOR 208V SYSTEM.

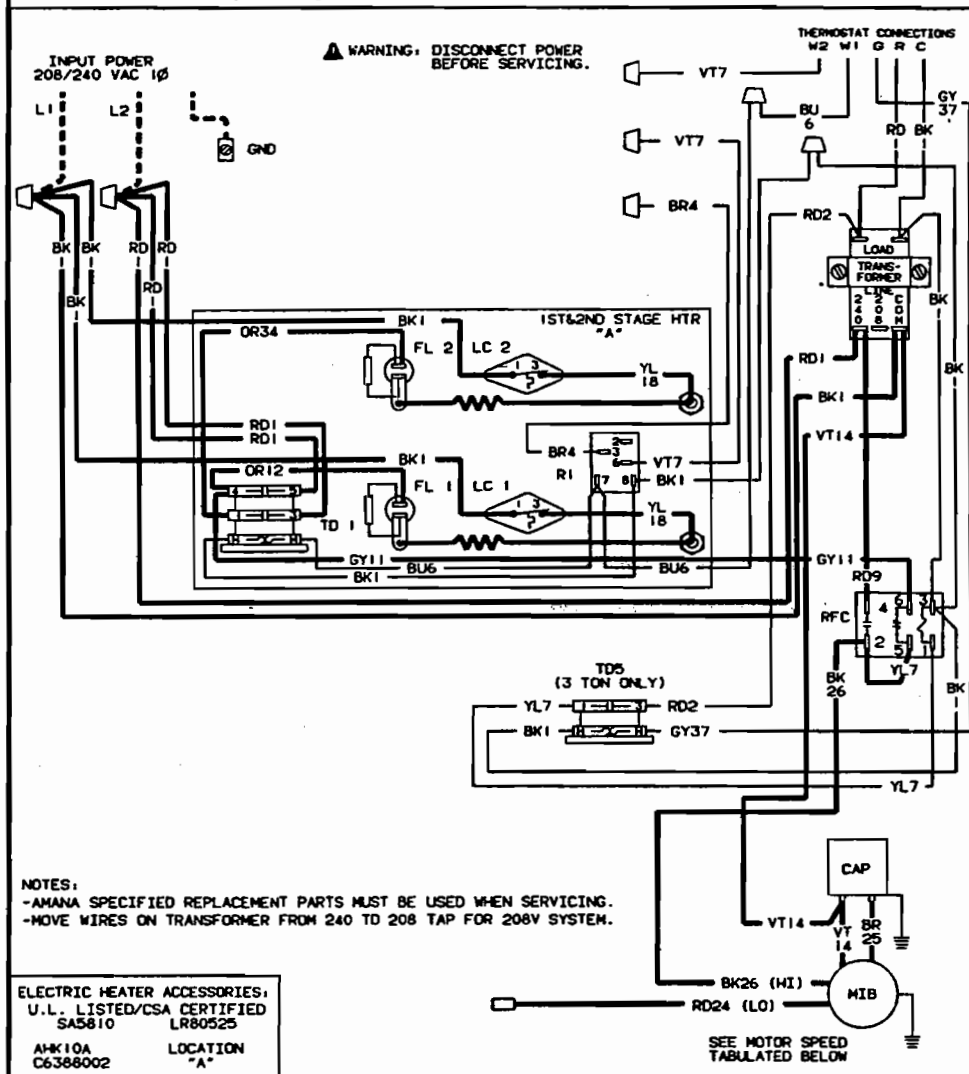
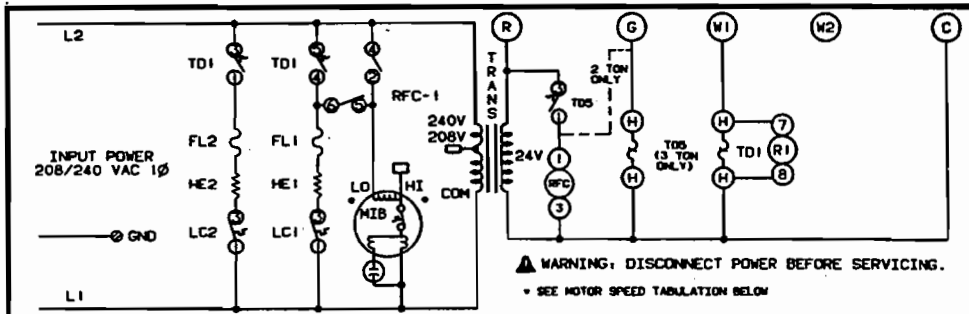
ELECTRIC HEATER ACCESSORIES:
 U.L. LISTED/CSA CERTIFIED
 SA5810 LR80525
 AHK07A LOCATION "A"
 C6388004

MOTOR SPEED TABULATION				10310501 REV 0			
CAPACITY / MODE	FAN RLY TERMINAL	7.5 KW	CAPACITY / MODE	FAN RLY TERMINAL	7.5 KW	NO. OF ANTICIPATOR SETTINGS	FACTORY SUPPLIED WIRING
18000 CLG OR HT PUMP	2	RD-24	30000 CLG OR HT PUMP	2	RD-24	ELECTRIC HEAT 0 .17 .17	LOW VOLTAGE
24000 COOLING	5	BK-26	36000 COOLING	5	BK-26	HEAT PUMP .4 .4 .4	HIGH VOLTAGE
24000 HT PUMP	5	BK-26	36000 HT PUMP	5	BK-26	1ST STAGE 0 .17 .17	FIELD SUPPLIED WIRING
						MIB-MOTOR INDOOR BLOWER	HIGH VOLTAGE
						TD-TIME DELAY	
						LC-LIMIT CONTROL	
						HE-HEATER ELEMENT	
						RFC-RELAY, FAN COOLING	
						CAP-CAPACITOR	
						FL-FUSIBLE LINK	

NOTE 1: CONNECT RELAY TERMINALS 2&5 WITH YL-7 JUMPER, IF MOTOR SPEEDS ARE CHANGED. FOLD UNUSED WIRE(S) ON ITSELF AND WRAP 5 TIMES WITH ELECTRICAL TAPE.

WARNING
 TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



NOTES:
 -AMANA SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
 -MOVE WIRES ON TRANSFORMER FROM 240 TO 208 TAP FOR 208V SYSTEM.

ELECTRIC HEATER ACCESSORIES:
 U.L. LISTED/CSA CERTIFIED
 SA5810 LR80525
 AHK10A LOCATION "A"
 C6388002

MOTOR SPEED TABULATION				10334001 REV 0	
CAPACITY / MODE	FAN RLY TERMINAL	10 KW	CAPACITY / MODE	FAN RLY TERMINAL	10 KW
18000 CLG OR HT PUMP	2	RD-24	30000 CLG OR HT PUMP	2	RD-24
	5	RD-24		5	RD-24
		NOTE 1			NOTE 1
24000 COOLING	2	BK-26	36000 COOLING	2	BK-26
		RD-24			RD-24
		NOTE 1			NOTE 1
24000 HT PUMP	2	BK-26	36000 HT PUMP	2	BK-26
	5	BK-26		5	BK-26
		NOTE 1			NOTE 1

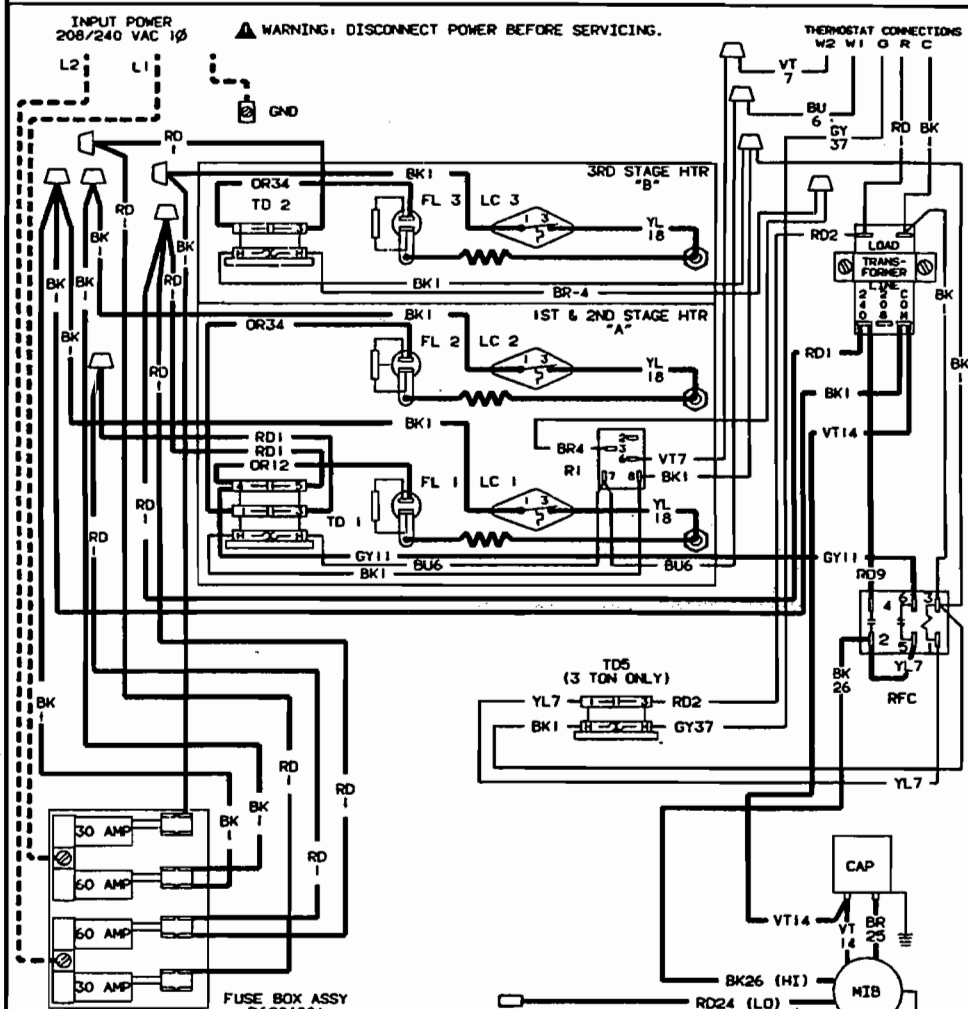
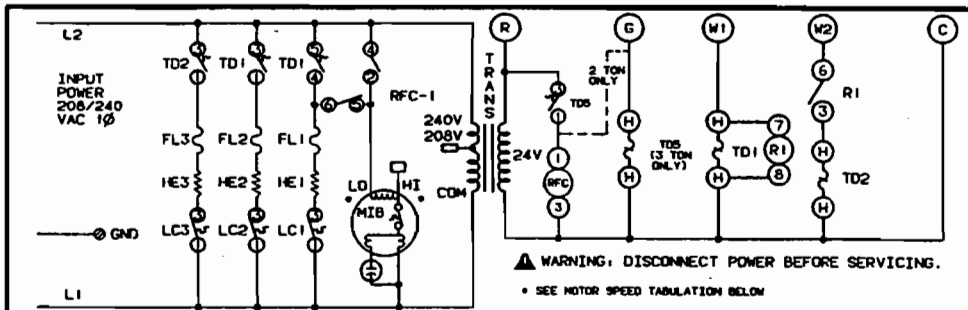
ANTICIPATOR SETTINGS		FACTORY SUPPLIED WIRING	
NO. OF MTRS	ELECTRIC HEAT	LOW VOLTAGE	HIGH VOLTAGE
0	.17	---	---
1	.17	---	---
2	.17	---	---
4	.17	---	---

FIELD SUPPLIED WIRING		COLOR 1ST GROUP-COLOR CODE / 2ND GROUP-NUMBER	
HEAT PUMP 1ST STAGE	0 .4 .4	BLACK-BK	ORANGE-OR
MIB-MOTOR INDOOR BLOWER	0 .17 .17	BLUE-BL	GREEN-GN
TD-TIME DELAY		RED-RD	YELLOW-YL
LC-LIMIT CONTROL		TAN-TN	VIOLET-VI
HE-HEATER ELEMENT		GRAY-GY	BROWN-BR
RFC-RELAY, FAN COOLING			
CAP-CAPACITOR			
FL-FUSIBLE LINK			
R1-RELAY INTERLOCK			

NOTE 1: CONNECT RELAY TERMINALS 2&5 WITH YL-7 JUMPER. IF MOTOR SPEEDS ARE CHANGED, FOLD UNUSED WIRE(S) ON ITSELF AND WRAP 5 TIMES WITH ELECTRICAL TAPE.

WARNING
 TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



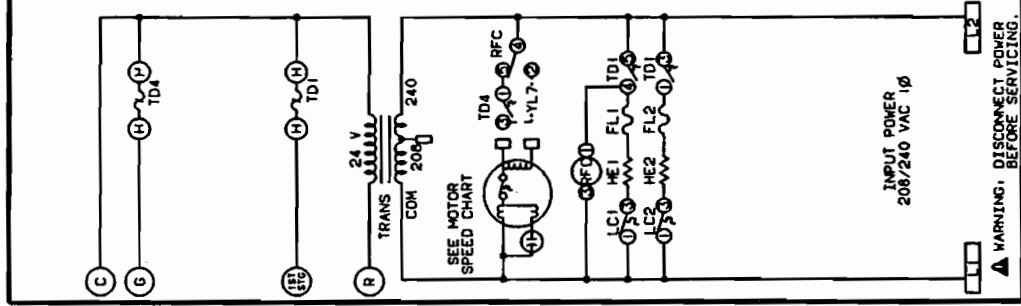
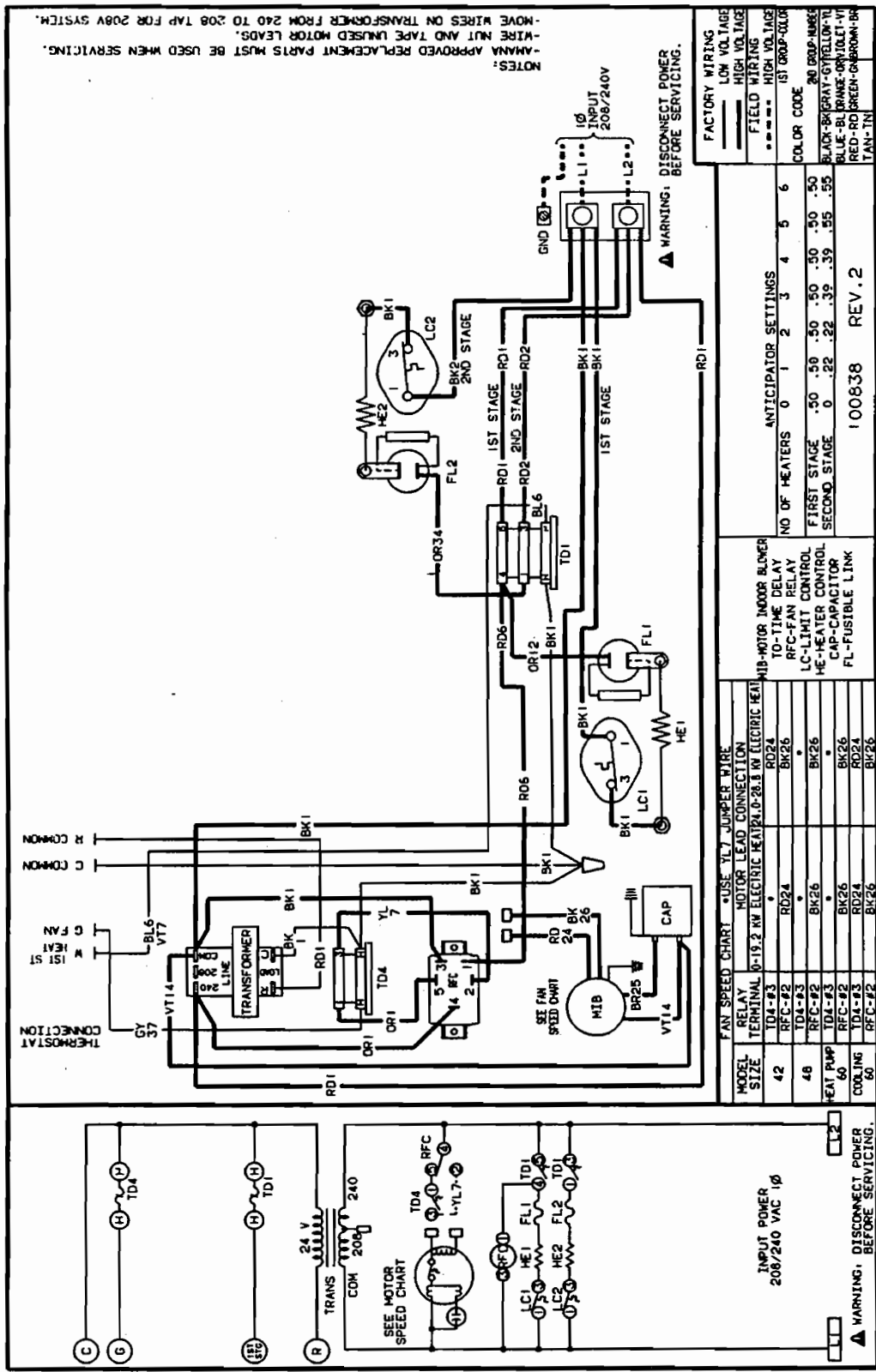
NOTES:
 -AMANA SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
 -MOVE WIRES ON TRANSFORMER FROM 240 TO 208 TAP FOR 208V SYSTEM.

SEE MOTOR SPEED TABULATED BELOW

MOTOR SPEED TABULATION		ELECTRIC HEATER ACCESSORIES:		10334101 REV 0	
CAPACITY /MODE	FAN RLY TERMINAL	15 KW	U.L. LISTED SA5810	ANTICIPATOR SETTINGS	
					NO. OF HTRS
18000 & 30000 COOLING	RD-24	BK-26	CSA CERTIFIED LR60525	ELECTRIC HEAT .17 .17 .34	
	5				HEAT PUMP
24000 & 36000 COOLING 18000, 24000, 30000, & 36000 HEAT PUMP	BK-26	BK-26	LOCATION "A" "B"	1ST STAGE .17 .17 .34	
	NOTE 1				MIB-MOTOR INDOOR BLOWER
NOTE 1: CONNECT RELAY TERMINALS 2&5 WITH YL-7 JUMPER. IF MOTOR SPEEDS ARE CHANGED, FOLD UNUSED WIRE(S) ON ITSELF AND WRAP 5 TIMES WITH ELECTRICAL TAPE.				2ND GROUP-NUMBER	

WARNING
 TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



FACTORY WIRING	LOW VOLTAGE
FIELD WIRING	HIGH VOLTAGE
1ST GROUP-COLOR	HIGH VOLTAGE
2ND GROUP-NUMBER	
BLACK-BK	GRAY-GY
BLUE-BL	ORANGE-OR
RED-RE	GREEN-GR
TAN-TN	

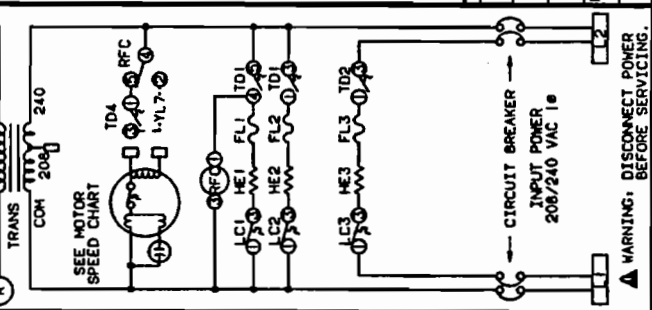
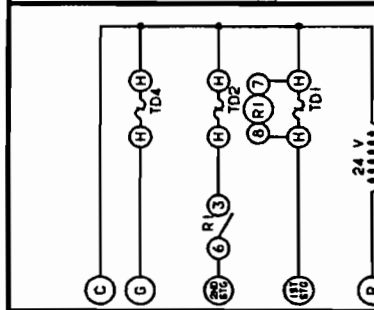
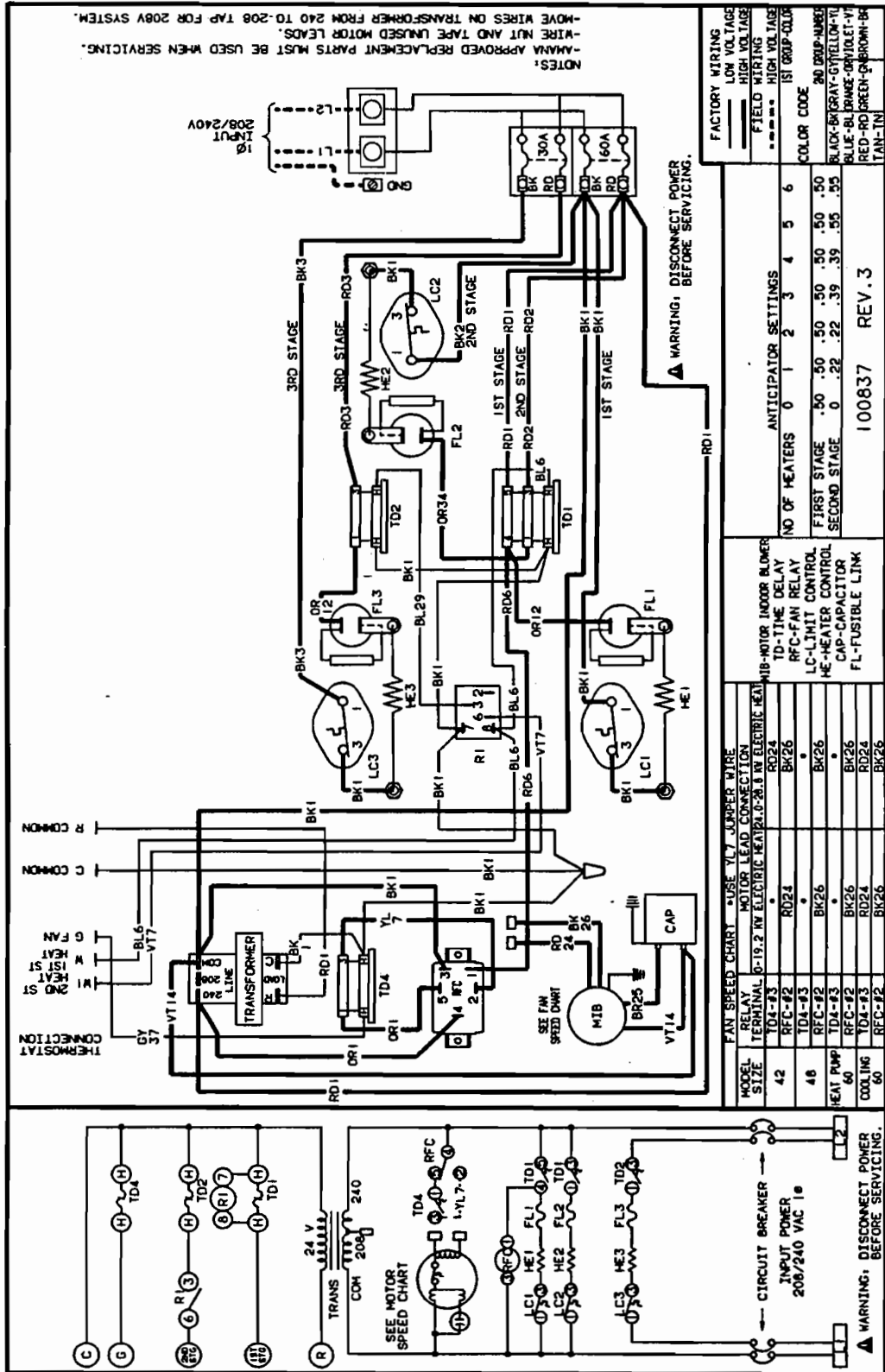
ANTICIPATOR SETTINGS	
NO OF HEATERS	0 1 2 3 4 5 6
FIRST STAGE	.50 .50 .50 .50 .50 .50
SECOND STAGE	0 .22 .22 .39 .55 .55
100838 REV. 2	

RELAY TERMINAL	RELAY	USE YL7 JUMPER WIRE
TD4-F3	RFC-F2	MOTOR LEAD CONNECTION
TD4-F3	RFC-F2	0-19.2 KW ELECTRIC HEAT/0-28.8 KW ELECTRIC HEAT
TD4-F3	RFC-F2	RD24
TD4-F3	RFC-F2	BK26
TD4-F3	RFC-F2	BK26
TD4-F3	RFC-F2	BK26
TD4-F3	RFC-F2	BK26
TD4-F3	RFC-F2	BK26

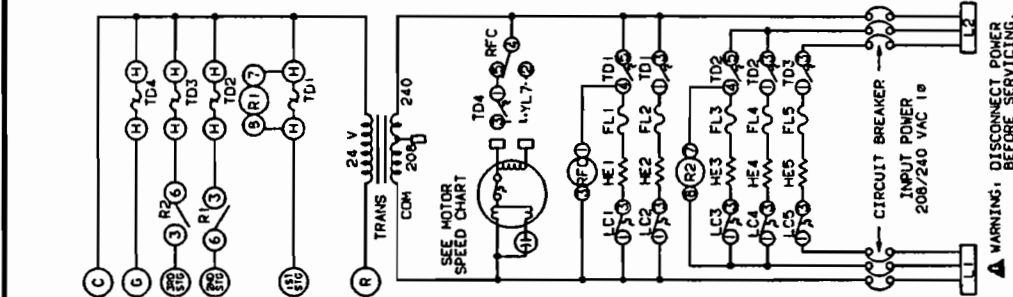
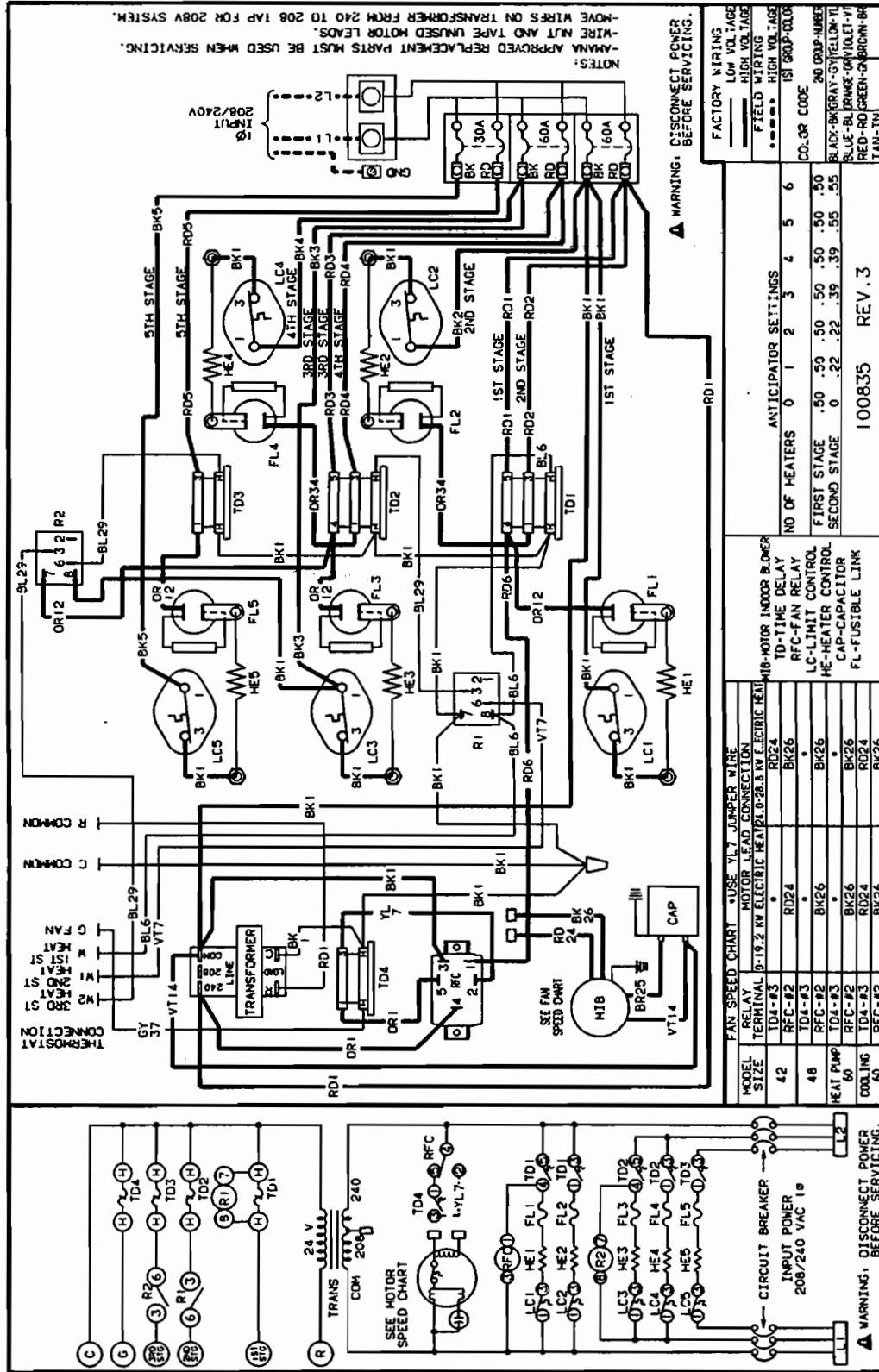
MODEL SIZE	RELAY TERMINAL	RELAY	USE YL7 JUMPER WIRE
42	TD4-F3	RFC-F2	MOTOR LEAD CONNECTION
48	TD4-F3	RFC-F2	0-19.2 KW ELECTRIC HEAT/0-28.8 KW ELECTRIC HEAT
50	TD4-F3	RFC-F2	RD24
60	TD4-F3	RFC-F2	BK26
	TD4-F3	RFC-F2	BK26
	TD4-F3	RFC-F2	BK26
	TD4-F3	RFC-F2	BK26

WARNING
 TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



WIRING DIAGRAMS



FACTORY WIRING	LOW VOLTAGE
FIELD WIRING	HIGH VOLTAGE
.....	HIGH VOLTAGE
.....	1ST GROUP-COLOR
.....	2ND GROUP-NUMBER
.....	BLACK-BK GRAY-GY YELLOW-YL
.....	BLUE-BL BRN-OR WHT-LEI-WT
.....	RED-RO GREEN-GR BROWN-BR
.....	TAN-TN

NO OF HEATERS	0	1	2	3	4	5	6
FIRST STAGE	.50	.50	.50	.50	.50	.50	.50
SECOND STAGE	0	.22	.22	.39	.39	.55	.55

ANTICIPATOR SETTINGS

100835 REV. 3

MIB-MOTOR INDOOR BLOWER	RD24
TD-TIME DELAY	BK26
RFC-FAN RELAY	BK26
LC-LIMIT CONTROL	BK26
HE-HEATER CONTROL	BK26
CAP-CAPACITOR	RD24
FL-FUSIBLE LINK	BK26

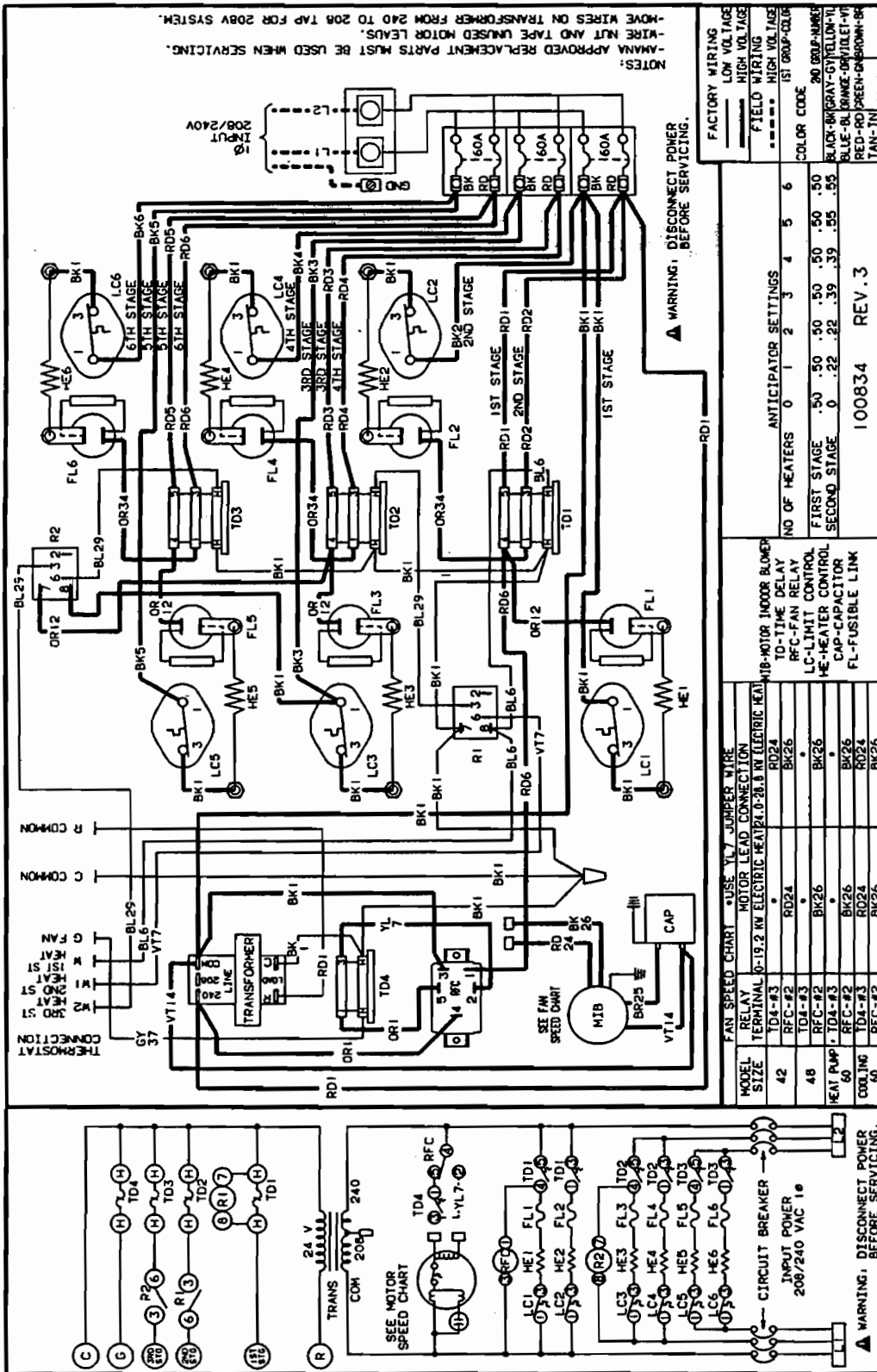
MODEL SIZE	42	48	60	60
TERMINAL	RD24	BK26	BK26	BK26
TD4-#3	RD24	BK26	BK26	BK26
RFC-#2	BK26	BK26	BK26	BK26
TD4-#3	BK26	BK26	BK26	BK26
TD4-#3	BK26	BK26	BK26	BK26
TD4-#3	BK26	BK26	BK26	BK26
REC-#2	BK26	BK26	BK26	BK26

FAN SPEED CHART - USE YLT JUMPER WIRE ON ORIGINAL MOTOR LEAD CONNECT TO TERMINAL 9-19.2 KW ELECTRIC HEAT-28.8 KW ELECTRIC HEAT

BHK05A

WARNING
 TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



FACTORY WIRING
 LOW VOLTAGE
 HIGH VOLTAGE
FIELD WIRING
 HIGH VOLTAGE
 LOW VOLTAGE
 IS GROUP-COLOR
 COLOR CODE
 20 GROUP-NUMBER
 BLACK-BK (GRAY-GY) YELLOW-YL
 BLUE-BL (ORANGE-OR) VIOLET-VI
 RED-RO (GREEN-GR) BROWN-BK
 TAN-TN

ANTICIPATOR SETTINGS

NO OF HEATERS	1	2	3	4	5	6
FIRST STAGE	.50	.50	.50	.50	.50	.50
SECOND STAGE	0	.22	.22	.39	.39	.55

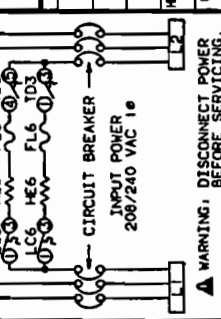
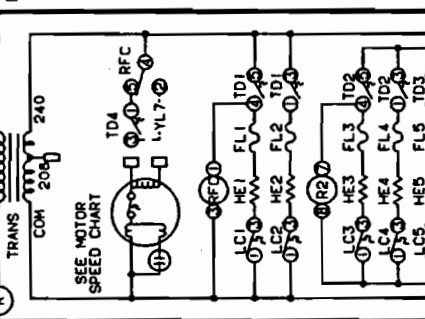
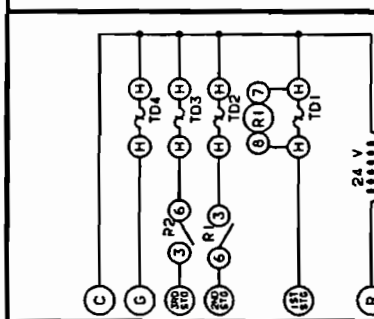
100834 REV. 3

FAN SPEED CHART - USE YL7 JUMPER WIRE

MODEL SIZE	RELAY TERMINAL	MOTOR LEAD CONNECTION
42	TD4-#3	RD24
48	RFC-#2	BK26
60	RFC-#2	BK26
60	TD4-#3	BK26
60	RFC-#2	BK26

HEATER MOTOR HOOR BLOWER

TD-TIME DELAY	RFC-FAN RELAY	LC-LIMIT CONTROL	HE-HEATER CONTROL	CAP-CAPACITOR	FL-FUSIBLE LINK
RD1	RD1	RD1	RD1	RD1	RD1
RD2	RD2	RD2	RD2	RD2	RD2
RD3	RD3	RD3	RD3	RD3	RD3
RD4	RD4	RD4	RD4	RD4	RD4
RD5	RD5	RD5	RD5	RD5	RD5
RD6	RD6	RD6	RD6	RD6	RD6



WARNING
 TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.