



# BC Air, Hot Gas and Electric Defrost Blast Coolers 60Hz

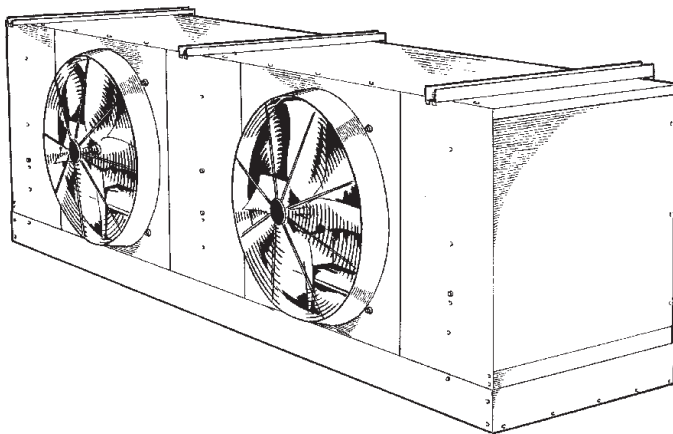
## PRODUCT DATA & INSTALLATION

Bulletin: B30-BC-PDI-11

1047266

5 to 15 Tons at 10 °F (5.5 °C) T.D.  
34 °F (1 °C) and Higher (Air Defrost)  
-40 °F (-40 °C) and Above  
(Medium and Low Temp)

**Electrical Power: 208-230/3/60, 460/3/60,  
575/3/60**



- Incoloy defrost heaters mounted in slots on both sides of cooling coils on electric defrost models.
- 3 - Pipe or reverse cycle hot gas defrost system.
- Factory installed hot gas check valve.
- Factory installed fan delay and defrost termination thermostats on gas and electric defrost models.
- Hinged side panels allow easy access for refrigeration circuit and electrical compartment.
- Schrader fitting and external equalizer line.
- Rugged high efficiency steel bladed fans.
- Plug-in motors with moulded lead and connector.
- Unit is shipped upright for convenient handling and quick installation.
- Corrosion resistant, easy to clean vinyl coated fan guards.
- Electrical terminals with recessed connections for dependable operation.

### NOMENCLATURE

**BC 160 S - ED - T3 A**

BALLY  
JUMBO BLAST COOLER

MODEL  
(DOES NOT NECESSARILY  
REFLECT CAPACITY)

OPTIONS  
P=PRE ASSEMBLED REMOTE  
S=STANDARD UNIT

DEFROST  
ED=ELECTRIC DEFROST  
H=3 PIPE HOT GAS  
R=REVERSE CYCLE HOT GAS

ELECTRICAL DESIGNATION  
T3 = 208-230/3/60  
T4 = 460/3/60  
T5 = 575/3/60

SERIES/GENERATION  
A=1st GENERATION

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# SPECIFICATIONS (60Hz)

## CAPACITY DATA (60Hz)

Model	Fin Spacing FPI	No. of Fans	Capacity** at 20°F (-6.7°C)		Capacity** at -20°F (-28.9°C)		
			MBH	KW	MBH	KW	
			10°F TD	4.5°C TD	10°F TD	4.5 °C TD	
<b>AIR DEFROST</b>	BC085A	7	2	84.4	24.8	-	-
	BC100A	7	2	99.6	29.2	-	-
	BC115A	7	2	114.6	33.7	-	-
	BC125A	7	2	124.7	36.6	-	-
	BC140A	7	3	140.0	41.1	-	-
	BC160A	7	3	159.9	46.9	-	-
	BC180A	7	3	179.9	52.8	-	-
<b>ELECTRIC AND HOT GAS DEFROST MODELS</b>	BC064*	6	2	75.6	22.2	64.2	18.9
	BC077*	6	2	90.7	26.6	77.0	22.6
	BC089*	6	2	104.8	30.7	89.0	26.1
	BC101*	6	2	119.9	35.1	101.0	29.6
	BC110*	6	3	129.5	38.0	110.1	32.2
	BC126*	6	3	149.3	43.8	126.9	37.2
	BC143*	6	3	169.1	49.6	143.7	42.1
	BC059*	5	2	69.7	20.4	59.2	17.4
	BC072*	5	2	84.7	24.8	71.9	21.1
	BC085*	5	2	99.2	29.1	84.3	24.7
	BC097*	5	2	114.6	33.6	97.4	28.5
	BC103*	5	3	121.4	35.6	103.1	30.2
	BC120*	5	3	141.9	41.6	120.6	35.3
	BC138*	5	3	162.6	47.6	138.2	40.5
	BC053*	4	2	62.8	18.4	53.4	15.7
	BC066*	4	2	77.2	22.6	66.0	19.3
	BC078*	4	2	91.4	26.8	77.6	22.7
	BC091*	4	2	107.2	31.4	91.1	26.7
	BC094*	4	3	110.8	32.5	94.2	27.6
	BC112*	4	3	131.2	38.5	111.5	32.7
BC129*	4	3	152.3	44.6	129.4	37.9	

## AIR FLOW DATA (60Hz)

Model	Fin Spacing FPI	CFM	THROW (Ft.)	CFM with Booster	THROW (Ft.)
BC085A	7	17560	50	17560	91
BC100A	7	16480	47	16480	86
BC115A	7	15480	44	15480	80
BC125A	7	14600	42	14600	77
BC140A	7	23190	44	23190	80
BC160A	7	21630	41	21630	75
BC180A	7	20310	39	20310	71
BC064*	6	17860	51	17860	93
BC077*	6	16860	48	16860	88
BC089*	6	15920	45	15920	83
BC101*	6	15080	43	15080	78
BC110*	6	23910	45	23910	83
BC126*	6	22350	43	22350	77
BC143*	6	21000	40	21000	73
BC059*	5	18180	52	18180	95
BC072*	5	17260	49	17260	89
BC085*	5	16400	47	16400	86
BC097*	5	15580	44	15580	80
BC103*	5	24540	47	24540	86
BC120*	5	23100	44	23100	80
BC138*	5	21780	41	21780	75
BC053*	4	18520	53	18520	97
BC066*	4	17760	51	17760	93
BC078*	4	16880	48	16880	88
BC091*	4	16120	46	16120	84
BC094*	4	25230	48	25230	88
BC112*	4	23910	45	23910	82
BC129*	4	22650	43	22650	78

\*\* No allowance made for fan heat - add 3,410 BTUH (1,000 watt) per HP to room load for motor heat.

\* E = Electric Defrost • H = 3 Pipe Hot Gas Defrost • R = Reverse Cycle Hot gas Defrost

## EVAPORATOR TEMPERATURE CORRECTION FACTORS

Saturated Evaporator Temperature	20 °F	10 °F	-0 °F	-10 °F	-20 °F	-30 °F	-40 °F
		-6.7 °C	-12.2 °C	-17.8 °C	-23.3 °C	-28.9 °C	-34.4 °C
Correction Factor	1.00	.98	.95	.91	.85	.79	.72

## FAN MOTOR ELECTRICAL DATA

AIR DEFROST MODEL NO.	HOT GAS AND ELECTRIC MODEL NO.			Fan Motor Qty/HP	Type of Motor	H 208-230/3/60			K 460/3/60			L 575/3/60		
						Total F.L.A.	M.C.A.	M.O.P.	Total F.L.A.	M.C.A.	M.O.P.	Total F.L.A.	M.C.A.	M.O.P.
BC 085A	053	059	064	2/1	Std. Open Drip Proof	8.4 / 8.0	9.5	15	4.0	4.5	15	3.0	3.4	15
100A	066	072	077											
115A	078	085	089		Optional TEFC	8.4 / 8.0	9.5	15	4.0	4.5	15	3.2	3.6	15
125A	091	097	101											
BC 140A	094	103	110	3/1	Std. Open Drip Proof	12.6 / 12.0	13.7	20	12.0	13.0	20	4.5	4.9	15
160A	112	120	126											
180A	129	138	143		Optional TEFC	12.6 / 12.0	13.7	20	12.0	13.0	20	4.8	5.2	15

M.C.A. = Minimum Circuit Ampacity

M.O.P. = Maximum Overcurrent Protection

## DEFROST HEATER ELECTRICAL DATA

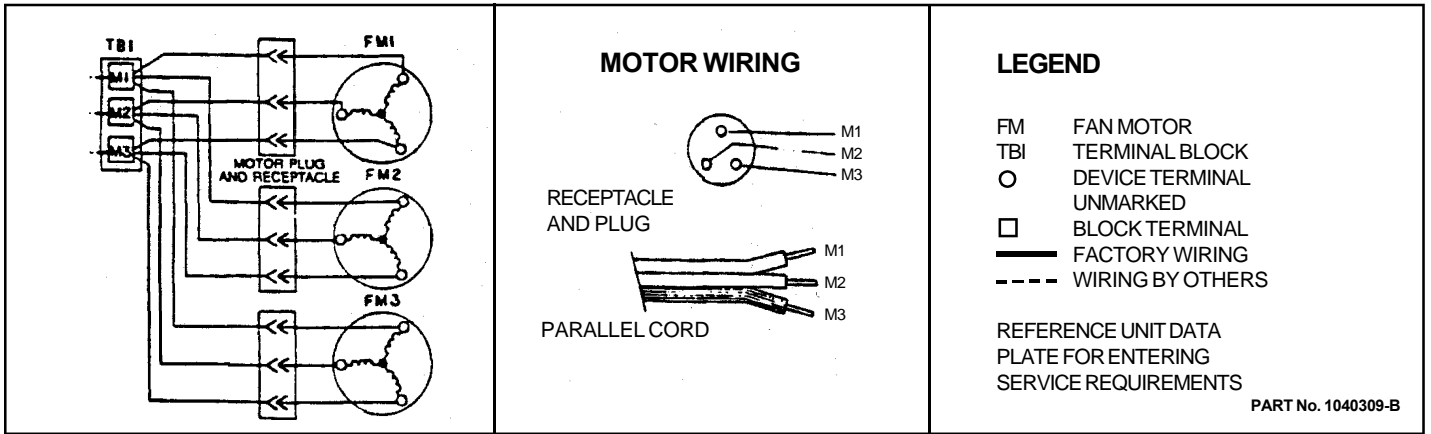
ELECTRIC DEFROST MODEL NO.					Fan Motor No.	Total heater kW	H 208-230/3/60			K 460/3/60			L 575/3/60		
							Total F.L.A.	M.C.A.	M.O.P.	Total F.L.A.	M.C.A.	M.O.P.	Total F.L.A.	M.C.A.	M.O.P.
053	059	064	2	14.0	38.1/42.2	40/48	50/60	21.1	24	30	16.9	20	25		
066	072	077	2	19.6	48/53.1	48/56	60/70	26.5	28	35	21.2	24	30		
078	085	089	2	22.4	57.2/63.3	64/64	80/80	31.6	32	40	25.3	28	35		
091	097	101	2	22.4	57.2/63.3	64/64	80/80	31.6	32	40	25.3	28	35		
094	103	110	3	22.4	57.2/63.3	64/64	80/80	31.6	32	40	25.3	28	35		
112	120	126	3	25.2	57.2/63.3	64/64	80/80	31.6	32	40	25.3	28	35		
129	138	143	3	28.0	67/74.1	72/80	90/100	37.0	40	50	29.6	32	40		

## REFRIGERANT OPERATING CHARGE

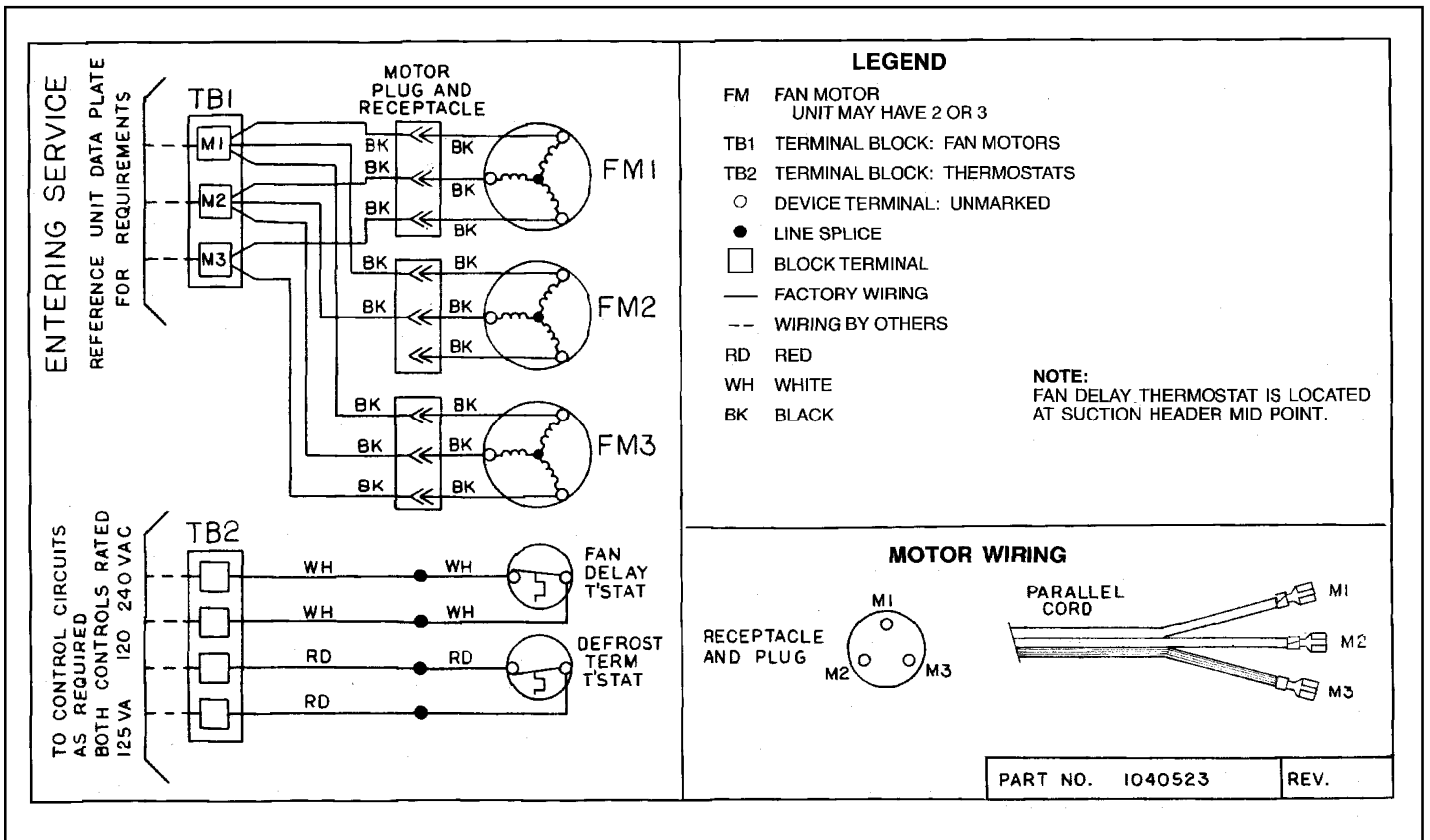
AIR DEFROST MODEL NO.	HOT GAS AND ELECTRIC DEFROST MODEL NO.			R-404A		R-22		R-502	
				lb	kg	lb	kg	lb	kg
085	053	059	064	35.2	16.0	39.1	17.8	40.4	18.3
100	066	072	077	46.1	21.0	51.4	23.4	53.0	24.1
115	078	085	089	57.2	26.0	63.7	29.0	65.6	29.8
125	091	097	101	68.2	31.0	75.9	34.5	78.2	35.6
140	094	103	110	63.7	29.0	71.0	32.3	73.2	33.3
160	112	120	126	76.9	35.0	85.6	38.9	88.3	40.1
180	129	138	143	92.4	42.0	102.8	46.7	106.0	48.2

Refrigerant charge with 30% full coil @ 20°F S.S.T.

# AIR DEFROST WIRING DIAGRAM

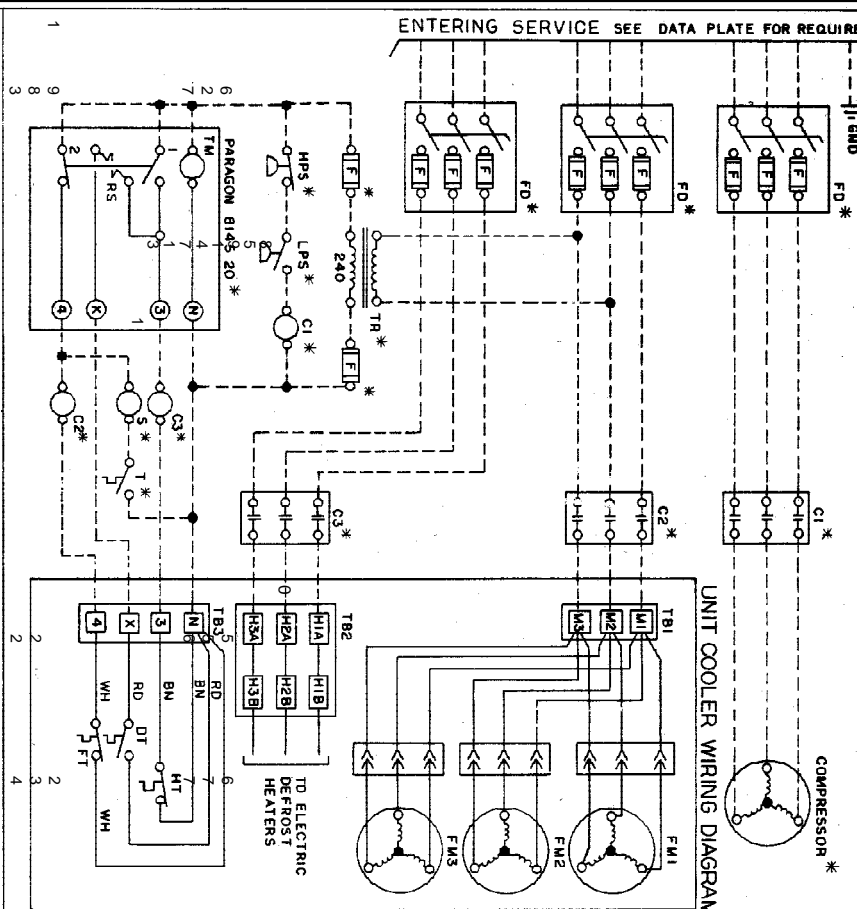


# HOT GAS DEFROST WIRING DIAGRAM

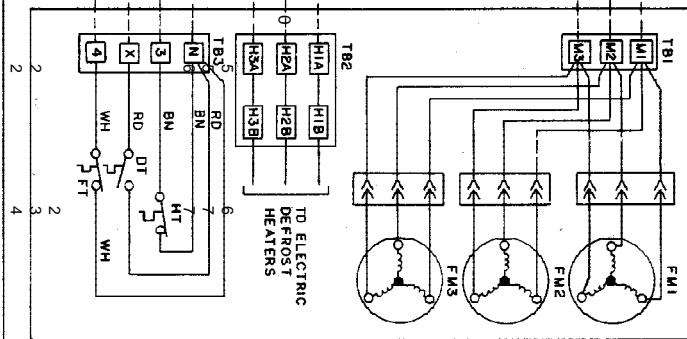


# ELECTRIC DEFROST WIRING DIAGRAM

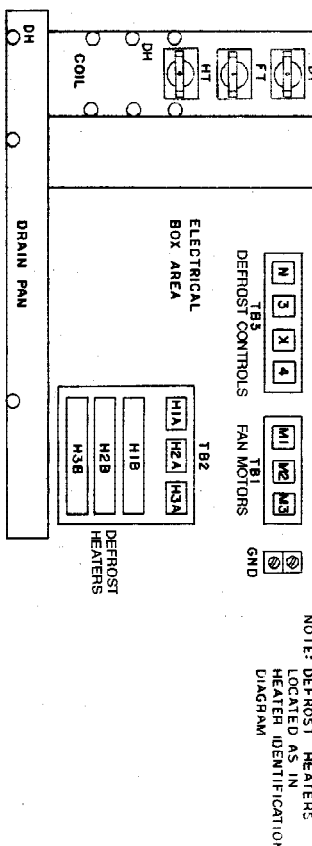
## SYSTEM WIRING DIAGRAM



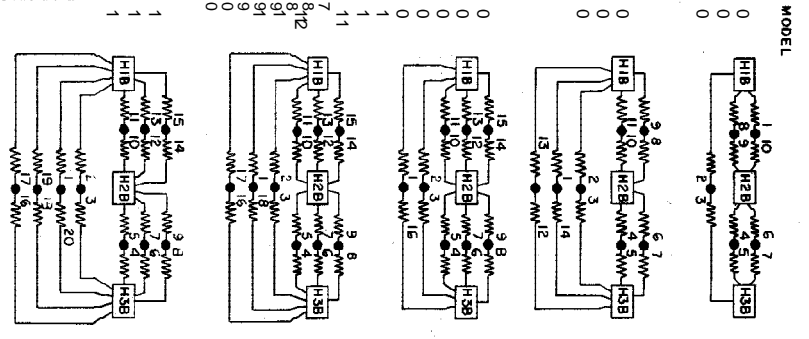
## UNIT COOLER WIRING DIAGRAM



## COMPONENT TERMINAL IDENTIFICATION DIAGRAM



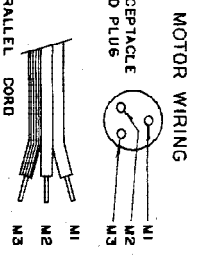
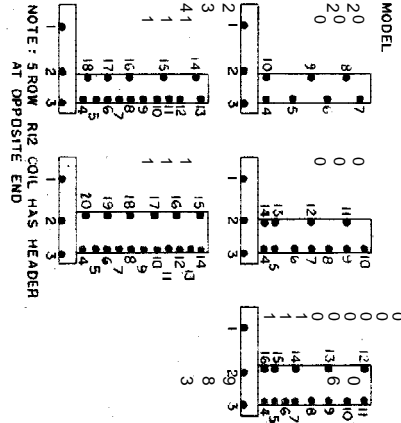
## DEFROST HEATER CONNECTION DIAGRAMS



## LEGEND

SYMBOL	DESCRIPTION
C	CONTACTOR
DH	DEFROST HEATER
DT	DEFROST TERMINATION THERMOSTAT
F	FUSE
FD	FUSED DISCONNECT
FM	FAN MOTOR
HPS	HIGH PRESSURE SWITCH
LPS	LOW PRESSURE SWITCH
S	SOLENOID
TR	ROOM THERMOSTAT
TB	TERMINAL BLOCK
TM	TIMER MOTOR
TR5	RELEASE SOLENOID
T70	DEVICE TERMINAL UNMARKED
□	DEVICE TERMINAL MARKED
—	LINE SPLICE
*	BLOCK TERMINAL COMPONENTS BY OTHERS
—	FACTORY WIRING
- - -	WIRING BY OTHERS
HT	HEATER THERMOSTAT
FT	FAN DELAY THERMOSTAT

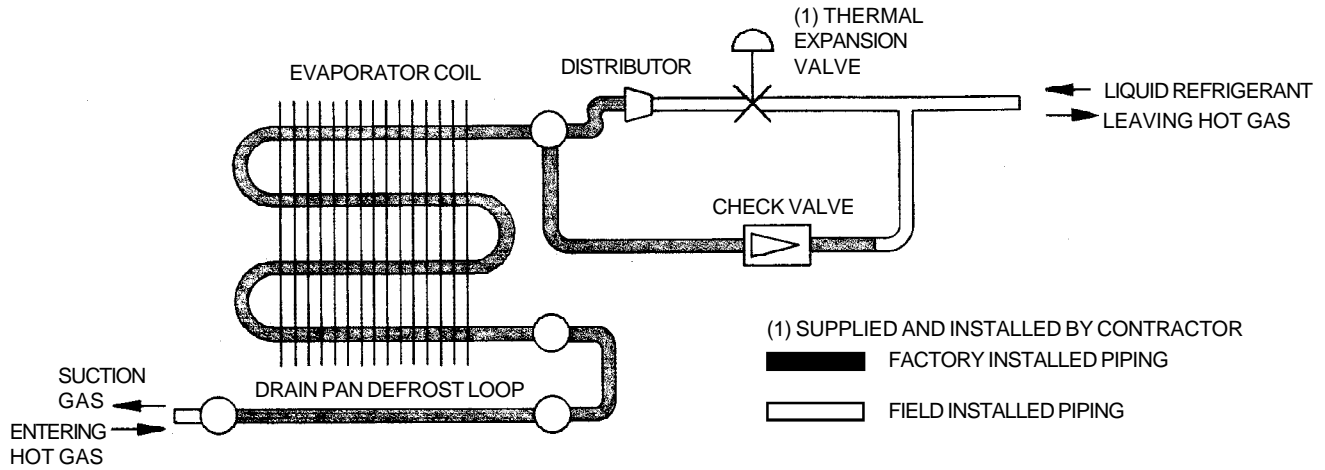
## HEATER IDENTIFICATION VIEWED FROM HEADER END DIAGRAM



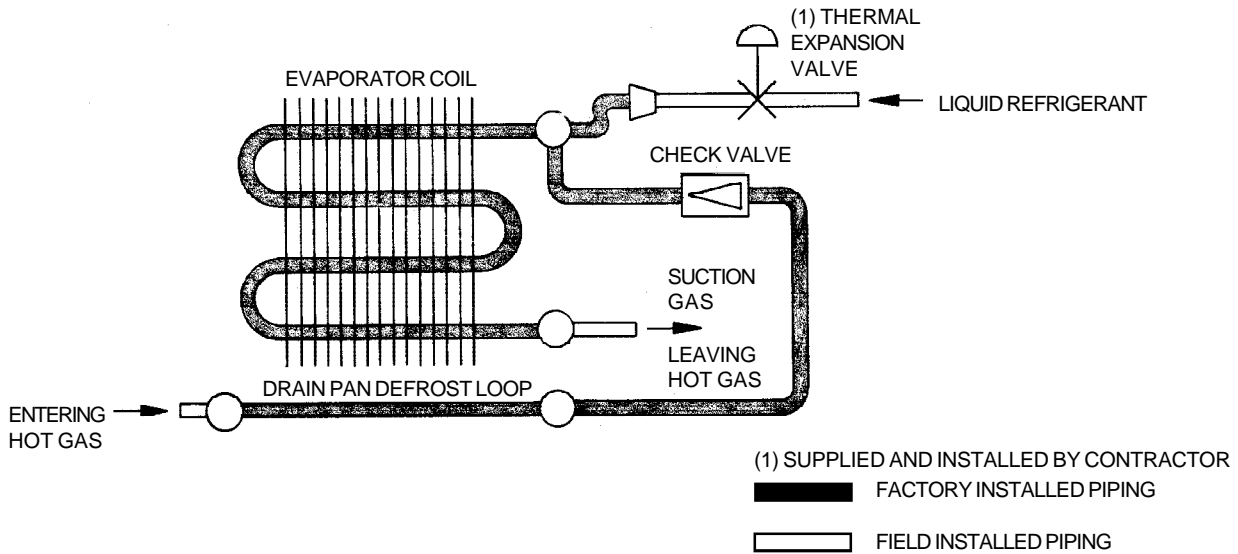
PART NO.  
1040204-D REV  
A

# HOT GAS DEFROST REFRIGERATION PIPING SCHEMATICS

## REVERSE CYCLE DEFROST SYSTEM

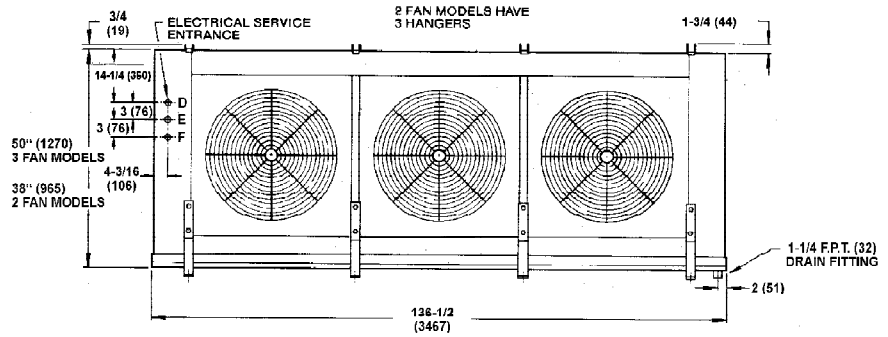
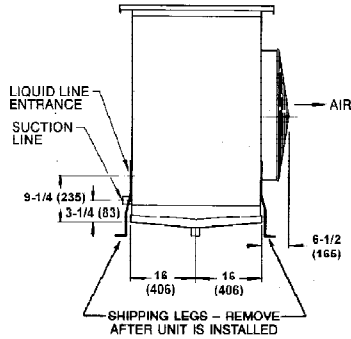
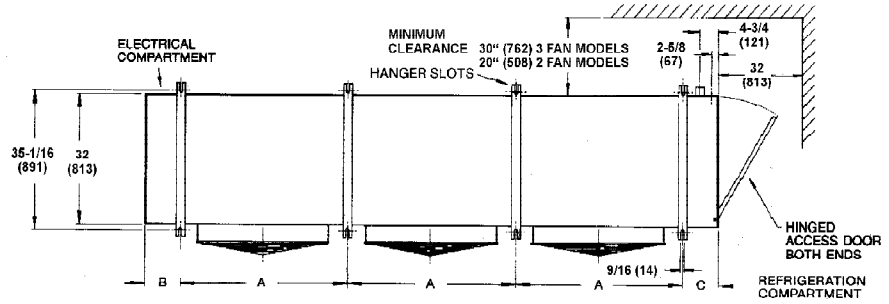


## 3 - PIPE DEFROST SYSTEM



## AIR AND ELECTRIC DEFROST MODELS

ELECTRICAL SERVICE ENTRANCE KNOCKOUTS		
	2 FAN MODELS	3 FAN MODELS
Motors - D	7/8" Dia. 22mm	7/8" & 1-3/32" Dia. 22mm & 28mm
Controls - E	7/8" Dia. 22mm	7/8" Dia. 22mm
Heaters - F	1-3/32", 1-23/64" & 1-23/32" Dia. 22mm, 35mm & 44mm	1-3/32", 1-23/64" & 123/32" Dia. 22mm, 35mm & 44mm



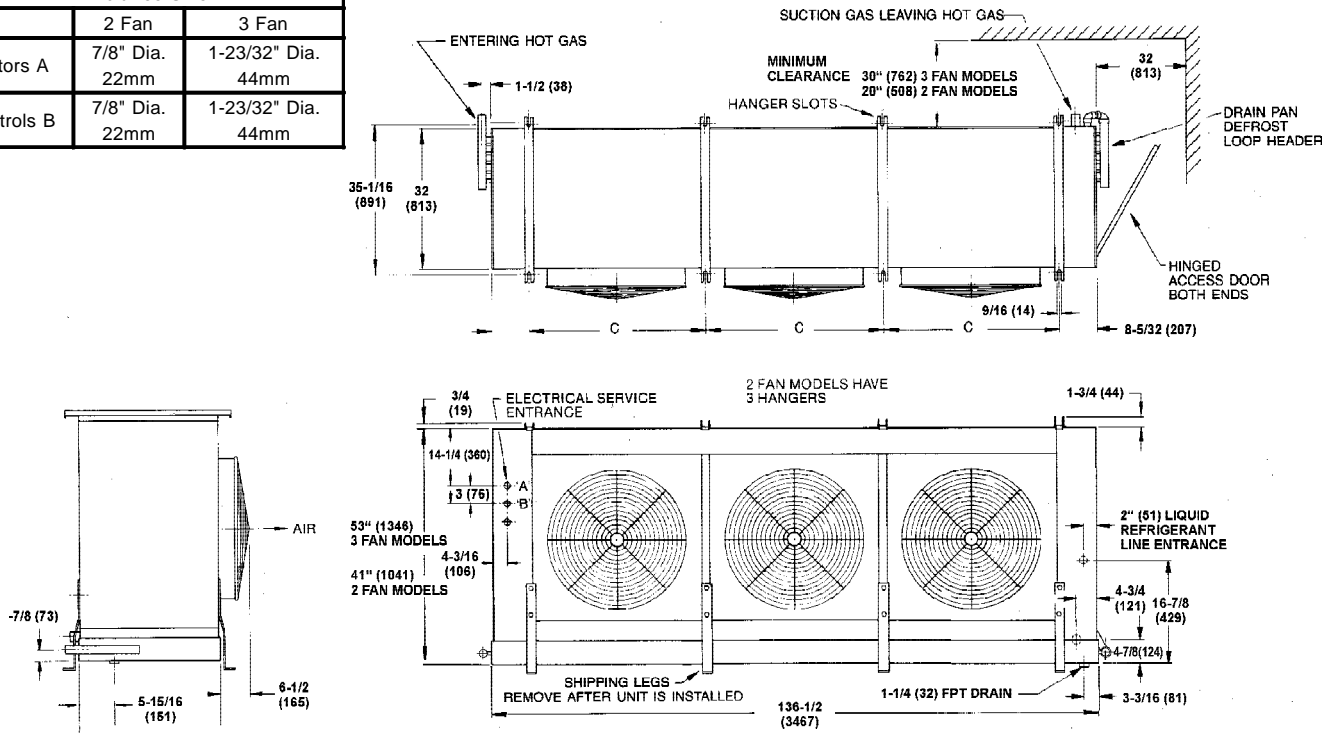
## DIMENSIONS AND WEIGHTS

	MODEL	HEIGHT		HANGERS						REFRIGERANT CONNECTIONS (1)		UNIT WEIGHT	
		Inches	mm	A		B		C		R-12, R-22, R-502	R-12, R-22, R-502	Lb.	kg
				Inches	mm	Inches	mm	Inches	mm				
AIR DEFROST	BC 085	38	965	60 1/16	1526	8 1/16	205	8 3/16	208	1 3/8	2 1/8	900	408
	BC 100	38	965	60 1/16	1526	8 1/16	205	8 3/16	208	1 3/8	2 1/8	1000	454
	BC 115	38	965	60 1/16	1526	8 1/16	205	8 3/16	208	1 3/8	2 1/8	1100	499
	BC 125	38	965	60 1/16	1526	8 1/16	205	8 3/16	208	1 3/8	2 1/8	1200	544
	BC 140	50	1270	40 1/16	1018	8 5/32	207	8 5/32	207	1 3/8	2 1/8	1300	590
	BC 160	50	1270	40 1/16	1018	8 5/32	207	8 5/32	207	1 3/8	2 1/8	1400	635
	BC 180	50	1270	40 1/16	1018	8 5/32	207	8 5/32	207	1 3/8	2 1/8	1500	680
ELECTRIC DEFROST MODELS	BC 064	38	965	60 1/16	1526	8 1/16	205	8 3/16	208	1 3/8	2 1/8	1030	467
	BC 077	38	965	60 1/16	1526	8 1/16	205	8 3/16	208	1 3/8	2 1/8	1100	499
	BC 089	38	965	60 1/16	1526	8 1/16	205	8 3/16	208	1 3/8	2 1/8	1200	544
	BC 101	38	965	60 1/16	1526	8 1/16	205	8 3/16	208	1 3/8	2 1/8	1300	590
	BC 110	50	1270	40 1/16	1018	8 5/32	207	8 5/32	207	1 3/8	2 1/8	1425	646
	BC 126	50	1270	40 1/16	1018	8 5/32	207	8 5/32	207	1 3/8	2 1/8	1550	703
	BC 143	50	1270	40 1/16	1018	8 5/32	207	8 5/32	207	1 3/8	2 1/8	1650	748
	BC 059	38	965	60 1/16	1526	8 1/16	205	8 3/16	208	1 3/8	2 1/8	1030	467
	BC 072	38	965	60 1/16	1526	8 1/16	205	8 3/16	208	1 3/8	2 1/8	1100	499
	BC 085	38	965	60 1/16	1526	8 1/16	205	8 3/16	208	1 3/8	2 1/8	1200	544
	BC 097	38	965	60 1/16	1526	8 1/16	205	8 3/16	208	1 3/8	2 1/8	1300	590
	BC 103	50	1270	40 1/16	1018	8 5/32	207	8 5/32	207	1 3/8	2 1/8	1425	646
	BC 120	50	1270	40 1/16	1018	8 5/32	207	8 5/32	207	1 3/8	2 1/8	1550	703
	BC 138	50	1270	40 1/16	1018	8 5/32	207	8 5/32	207	1 3/8	2 1/8	1650	748
	BC 053	38	965	60 1/16	1526	8 1/16	205	8 3/16	208	1 3/8	2 1/8	1030	467
	BC 066	38	965	60 1/16	1526	8 1/16	205	8 3/16	208	1 3/8	2 1/8	1100	499
	BC 078	38	965	60 1/16	1526	8 1/16	205	8 3/16	208	1 3/8	2 1/8	1200	544
	BC 091	38	965	60 1/16	1526	8 1/16	205	8 3/16	208	1 3/8	2 1/8	1300	590
	BC 094	50	1270	40 1/16	1018	8 5/32	207	8 5/32	207	1 3/8	2 1/8	1425	646
	BC 112	50	1270	40 1/16	1018	8 5/32	207	8 5/32	207	1 3/8	2 1/8	1550	703
BC 129	50	1270	40 1/16	1018	8 5/32	207	8 5/32	207	1 3/8	2 1/8	1650	748	

(1) O.D. in inches

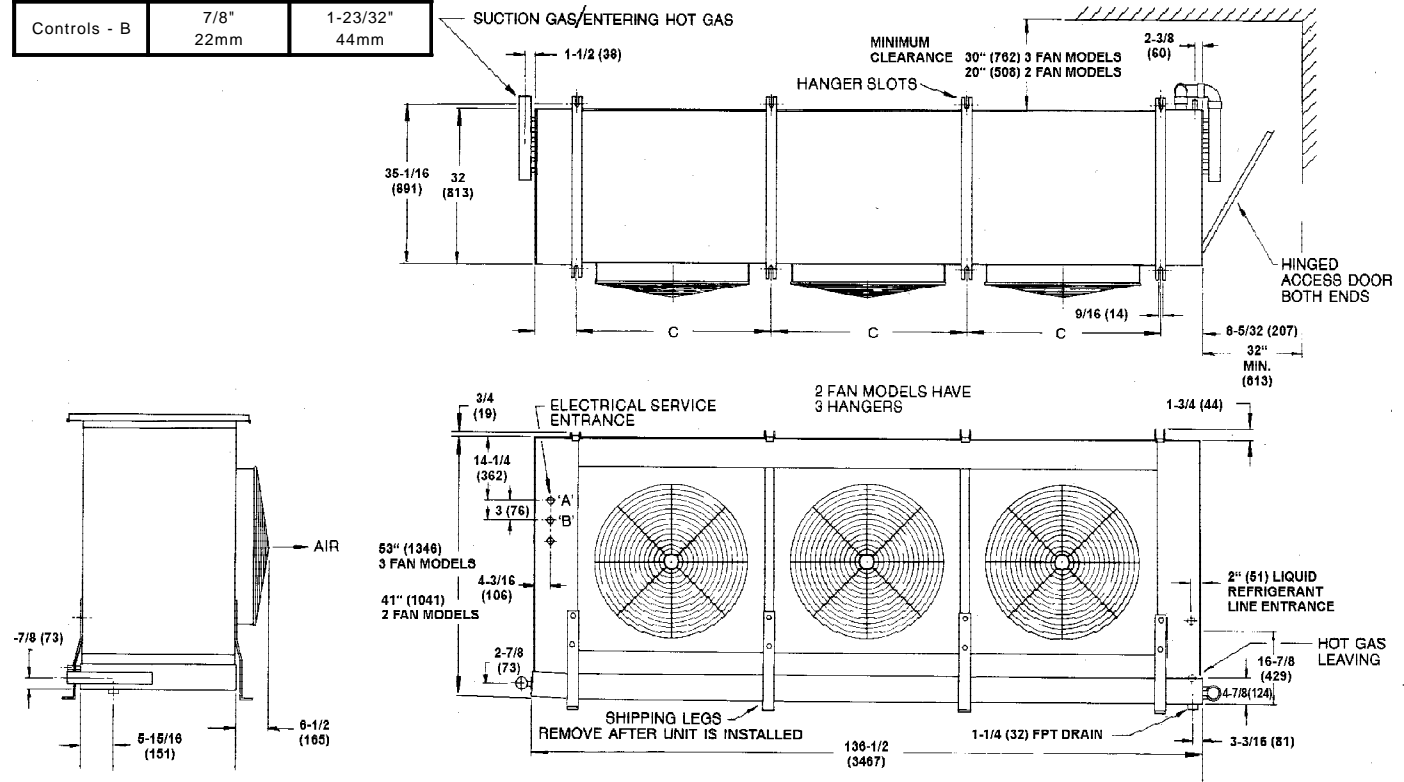
Electrical Service Entrance Size		
	2 Fan	3 Fan
Motors A	7/8" Dia. 22mm	1-23/32" Dia. 44mm
Controls B	7/8" Dia. 22mm	1-23/32" Dia. 44mm

### 3 PIPE DEFROST MODEL



Electrical Service Entrance Knockouts		
	2 Fan Models	3 Fan Models
Motors - A	7/8" 22mm	1-23/32" 44mm
Controls - B	7/8" 22mm	1-23/32" 44mm

### REVERSE CYCLE DEFROST MODEL





# DIMENSIONS AND WEIGHTS

HOT GAS DEFROST MODEL	HEIGHT		HANGERS		REFRIGERANT CONNECTIONS (1)		HOT GAS CONNECTIONS				UNIT WEIGHT	
	Inches	mm	C		LIQUID	SUCTION	3-PIPE		REVERSE		Lb.	kg
			Inches	mm	R-22, R-502 R-404A	R-22, R-502, R-404A	ENT.	LVG.	ENT.	LVG.		
BC 064	41	1041	60 1/16	1526	1 3/8	2 1/8	1 3/8	2 1/8	2 1/8	1 3/8	1055	479
BC 077	41	1041	60 1/16	1526	1 3/8	2 1/8	1 3/8	2 1/8	2 1/8	1 3/8	1125	510
BC 089	41	1041	60 1/16	1526	1 3/8	2 1/8	1 3/8	2 1/8	2 1/8	1 3/8	1225	556
BC 101	41	1041	60 1/16	1526	1 3/8	2 1/8	1 3/8	2 1/8	2 1/8	1 3/8	1325	601
BC 110	53	1346	40 1/16	1018	1 3/8	2 1/8	1 5/8	2 5/8	2 5/8	1 5/8	1450	658
BC 126	53	1346	40 1/16	1018	1 3/8	2 1/8	1 5/8	2 5/8	2 5/8	1 5/8	1575	714
BC 143	53	1346	40 1/16	1018	1 3/8	2 1/8	1 5/8	2 5/8	2 5/8	1 5/8	1675	760
BC 059	41	1041	60 1/16	1526	1 3/8	2 1/8	1 3/8	2 1/8	2 1/8	1 3/8	1055	479
BC 072	41	1041	60 1/16	1526	1 3/8	2 1/8	1 3/8	2 1/8	2 1/8	1 3/8	1125	510
BC 085	41	1041	60 1/16	1526	1 3/8	2 1/8	1 3/8	2 1/8	2 1/8	1 3/8	1225	556
BC 097	41	1041	60 1/16	1526	1 3/8	2 1/8	1 3/8	2 1/8	2 1/8	1 3/8	1325	601
BC 103	53	1346	40 1/16	1018	1 3/8	2 1/8	1 5/8	2 5/8	2 5/8	1 5/8	1450	658
BC 120	53	1346	40 1/16	1018	1 3/8	2 1/8	1 5/8	2 5/8	2 5/8	1 5/8	1575	714
BC 138	53	1346	40 1/16	1018	1 3/8	2 1/8	1 5/8	2 5/8	2 5/8	1 5/8	1675	760
BC 053	41	1041	60 1/16	1526	1 3/8	2 1/8	1 3/8	2 1/8	2 1/8	1 3/8	1055	479
BC 066	41	1041	60 1/16	1526	1 3/8	2 1/8	1 3/8	2 1/8	2 1/8	1 3/8	1125	510
BC 078	41	1041	60 1/16	1526	1 3/8	2 1/8	1 3/8	2 1/8	2 1/8	1 3/8	1225	556
BC 091	41	1041	60 1/16	1526	1 3/8	2 1/8	1 3/8	2 1/8	2 1/8	1 3/8	1325	601
BC 094	53	1346	40 1/16	1018	1 3/8	2 1/8	1 5/8	2 5/8	2 5/8	1 5/8	1450	658
BC 112	53	1346	40 1/16	1018	1 3/8	2 1/8	1 5/8	2 5/8	2 5/8	1 5/8	1575	714
BC 129	53	1346	40 1/16	1018	1 3/8	2 1/8	1 5/8	2 5/8	2 5/8	1 5/8	1675	760

(1) O.D. in inches

# INSTALLATION INSTRUCTIONS

## INSPECTION

Careful inspection of all parts when received for loss or damage in transit is very important - Remember, you, the consignee, must make any claim necessary against the transportation company. Shipping damage or missing parts, when discovered at the outset, will prevent later unnecessary and costly delays.

Ensure that the electrical characteristics are as ordered. Save all tags and instruction sheets for reference by installer and owner.

## LOCATION

The unit location in the room should be selected to ensure uniform air distribution throughout the entire space to be refrigerated. Make sure that the fan does not blow directly out or pull in through an opened door and that the product does not obstruct the free circulation of air.

When installing the unit adjacent to a wall, sufficient clearance must be provided to allow free air movement to the coil.

Clearance must be provided at each end of the unit to allow access to refrigerant piping and electrical compartment.

See dimensional drawings for clearance requirements.

## INSTALLATION

**Note: These units draw air through the coil and discharge air from the fan side (see P. 4).**

JBC Unit Coolers are supplied with shipping legs to allow units to be shipped in an upright position. Units are lifted into place with shipping skid attached to mounting legs.

Slotted hanger brackets take 1/2" (12.7mm) hanger rods. For fast, convenient mounting, install washer and nuts on hanger rods prior to lifting units. Rods may be lifted into slots and are held securely in place by tangs on hangers

After unit coolers are hung in place, remove shipping legs from units by removing the two 5/16" (8mm) bolts from each shipping leg.

**Note:** Shipping legs must be removed to allow hinged drain pan to open.

## DRAIN LINE

If unit cooler is mounted flush to ceiling, the staggered height hanger will provide a positive pitch for drainage of condenser.

If units are suspended below the ceiling, the installer should provide adequate pitch to the unit by adjusting the location of the hanger rod nuts.

**Note:** Check for adequate drainage by pouring water into the drain pan.

Insulated copper tube should be run from the drain connection, sloping at least 4" (102mm) per foot. A trap outside of the room will prevent warm air entering through the tubing. Connection should be made to proper drainage facilities that comply with local regulations.

If room temperatures are below freezing, it is necessary to heat the drain line to prevent condensate from freezing in the drain line. Electric heating cable or electric tape (by others) is used for this purpose. The drain line heater should be connected for continuous operation; it is also recommended that the drain line be insulated. A heat output of 20 watts per lineal foot of 1" (25mm) drain line in a 0°F (-18 °C) room is usually satisfactory. 115 volt cable and tape is available from your local refrigeration wholesaler. Two 115 volts heaters (by others) of the same wattage may be wired for use on 230 volt system

## ELECTRICAL

Wire system in accordance with governing standards and local codes. See wiring diagrams on P. 4 for unit cooler wiring diagram.

Page 2 shows operating current, minimum ampacity and maximum fuse sizing for fan motors.

**Note:** Electrical wiring is to be sized in accordance with minimum ampacity rating.

The defrost termination thermostats, fan delay thermostats and defrost heater safety thermostat are factory supplied and factory wired to a terminal block. See figure and component identification diagram on wiring diagram for electrical compartment arrangement.

A hinged end panel provides quick access to the electrical compartment.

# INSTALLATION INSTRUCTIONS

## AFTER START UP

1. Check the oil level to be sure the oil charge is correct.
2. On the initial start up, the fans do not start until coil temperature is pulled down to approximately 26 °F (-3 °C)  
Also, it is normal for the fans to cycle a few times until the room temperature is pulled down.
3. After the room is pulled down make sure that the expansion valve is properly set so that the coil frosts evenly all the way through.
4. Heavy moisture loads are usually encountered when starting the system for the first time. This will cause a rapid build-up of frost on the unit cooler. During the initial pull down, we suggest that the frost build-up be watched and defrosted manually as required.

## MAINTENANCE

1. Periodic checking and cleaning of the coil surface when necessary should be done, using a whisk or brush. Drain pans are hinged to provide convenient access to the inside coil surface.
2. Motors are permanently lubricated type and require no further lubrication.

## REFRIGERATION SYSTEM

Refrigerant line sizes are important and should be the same size as the coil connections, or larger, depending on the length of run. Consult recommended refrigerant line sizes charts (KeepRite Refrigeration Engineering Manual or other recognized sources of information) when sizing refrigerant lines.

Refrigerant piping and control systems should be designed to prevent possible liquid slugging of the compressors on start-up after the defrost cycle.

Select an externally equalized expansion valve best suited to the coil and the application on the basis of the manufacturer's ratings. Install the expansion valve in the refrigeration piping compartment.

A 1/4" (6mm) O.D. equalizer line has been provided for the externally equalized expansion valve connection.

A Schrader valve fitting is supplied at the suction gas header to provide convenient pressure readings.

The refrigerant distributor is sized and installed at the factory and is supplied with a factory sized nozzle.

A hinged end panel provides quick access to the refrigeration piping compartment.

## SYSTEM CHECK

1. All wiring should be in accordance with local codes.
2. All refrigerant lines should be properly sized and checked for any possible leaks.
3. Be sure system is charged with the proper refrigerant.
4. Make sure that the expansion valve thermal bulb is securely strapped to the suction line.
5. The system should include a liquid line drier and strainer.
6. The suction, discharge and receiver service valves must be open.
7. Check that the fans turn freely and turn in clock wise rotation.
8. Pour enough water into the drain pan to allow a good check on drainage and seal the trap.

# AIR DEFROST MODELS

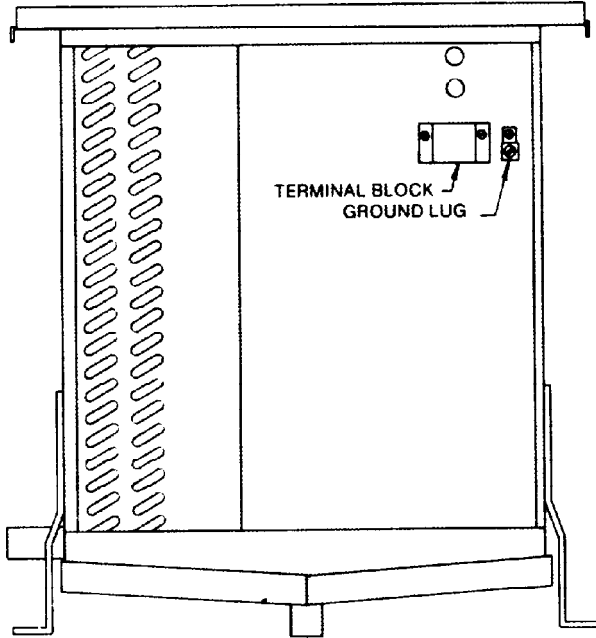


FIGURE 2 - ELECTRICAL COMPARTMENT

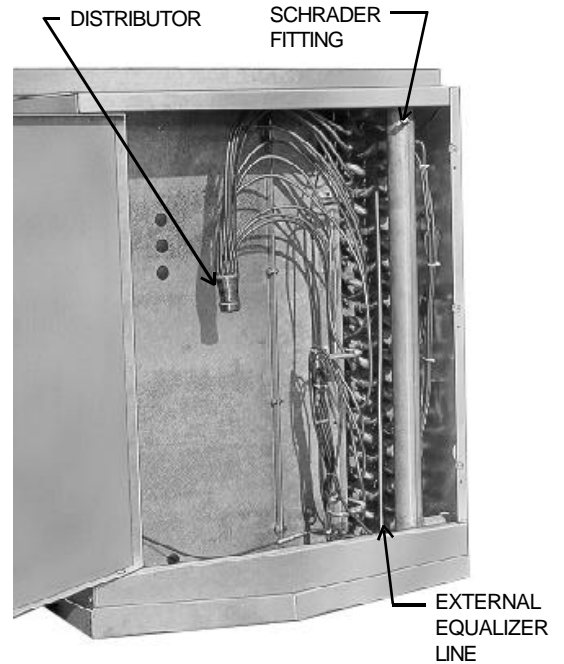


FIGURE 3 - REFRIGERATION COMPARTMENT

# ELECTRIC DEFROST MODELS

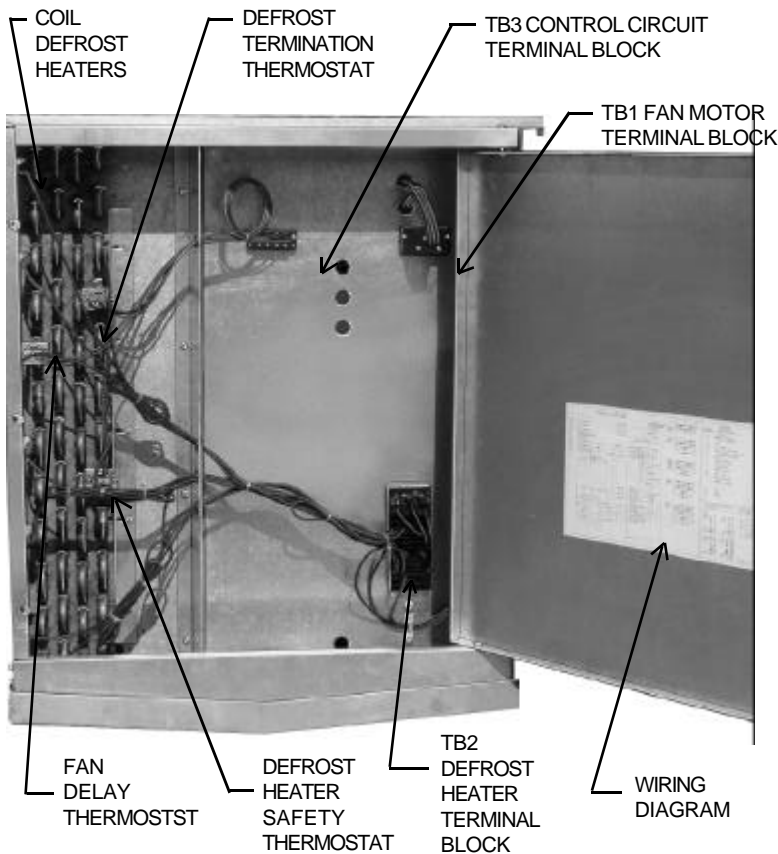


FIGURE 2 - ELECTRICAL COMPARTMENT

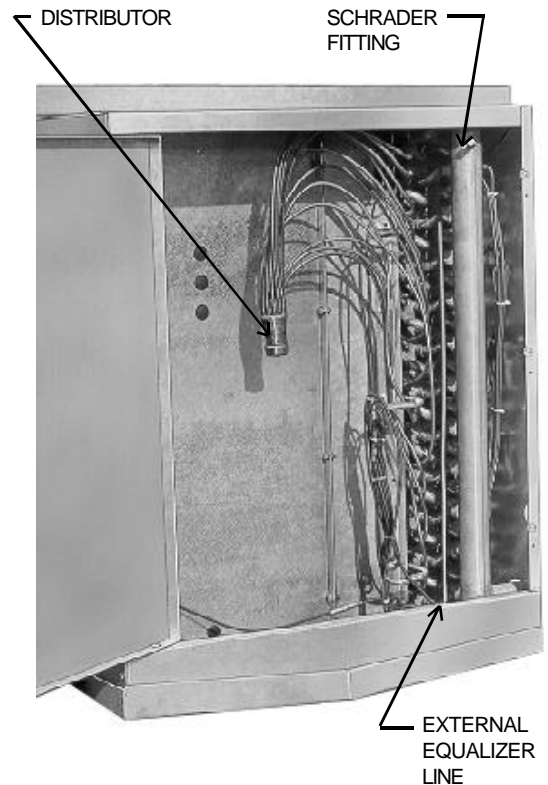
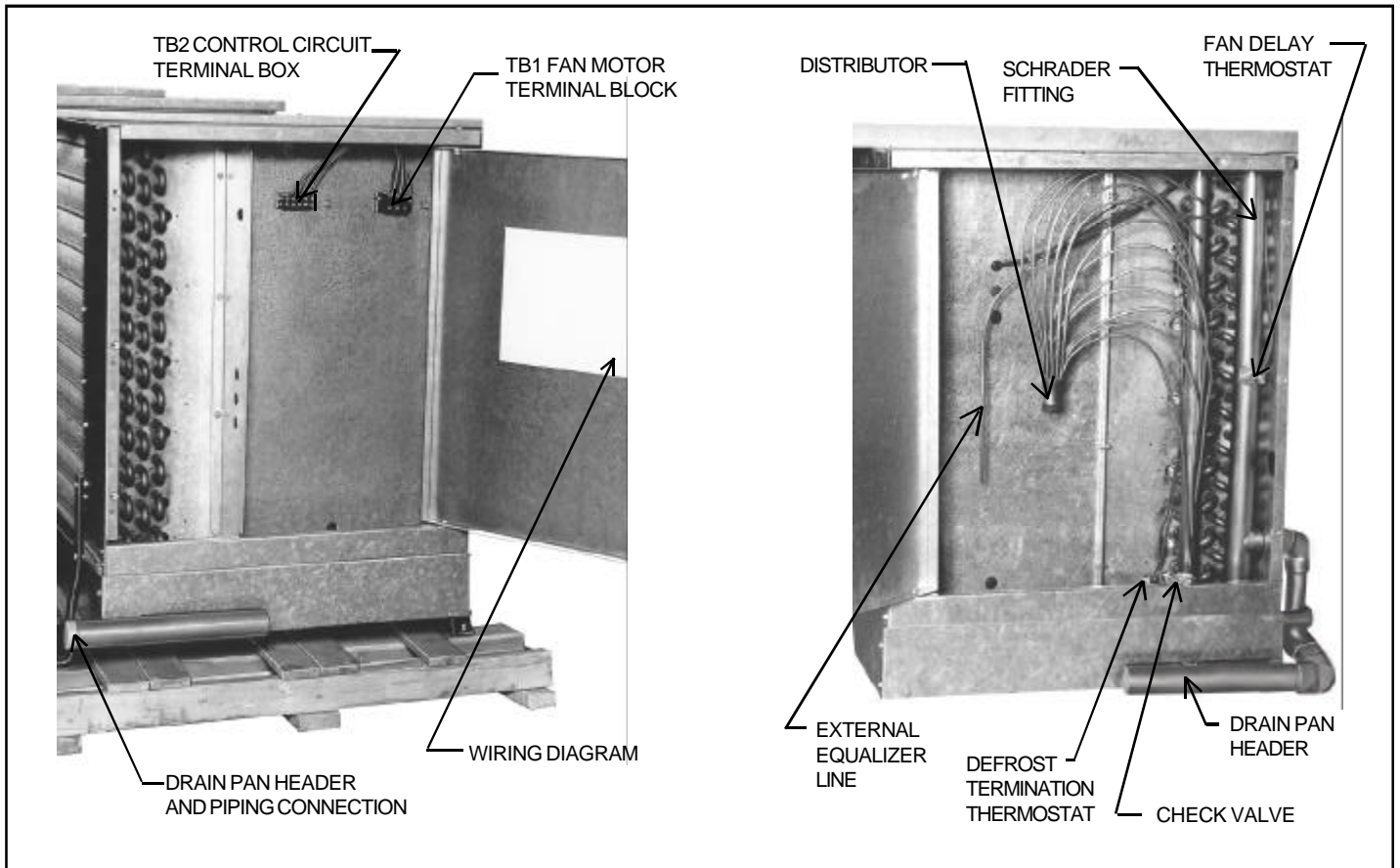


FIGURE 3 - REFRIGERATION COMPARTMENT

# HOT GAS DEFROST MODELS



# SERVICE PARTS LIST

<u>FAN MOTORS</u>	<u>PART NUMBER</u>
1 HP ODP 208-230/3/60	1040154
1 HP OPD 460/3/60	1040155
1 HP ODP 575/3/60	1040156
MOTOR MOUNT	1040158
FAN BLADE 30"	1040158
FAN MOTOR TERMINAL BLOCK TB1	1040160
DEFROST CONTROL TERMINAL BLOCK TB2	1040161
DEFROST HEATER TERMINAL BLOCK TB3	1040162
FAN DELAY THERMOSTAT	1040240
DEFROST TERMINATION THERMOSTAT	1040239
<u>COIL DEFROST HEATERS</u>	
208-230/3/60	1040167
460/3/60	1040166
575/3/60	1040165
<u>DRAIN PAN DEFROST HEATERS</u>	
208-230/3/60	1040167
460/3/60	1040166
575/3/60	1040165
THROW BOOSTER	1040695



# PROJECT INFORMATION

System	
Model Number	Date of Start-Up
Serial Number	Service Contractor
Refrigerant	Phone
Electrical Supply	Fax



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