



# BTL LEGACY MODELS Two-Way Low Profile Evaporators

## PRODUCT DATA & INSTALLATION

Bulletin B30-BTL-PDI-20  
Part # 1087832

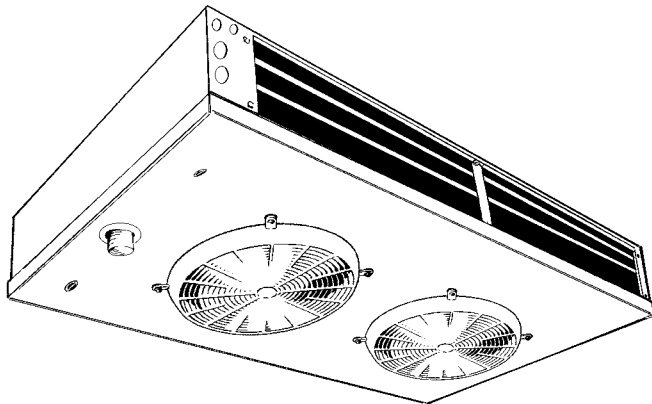
High, Medium and Low  
Temperature Applications  
-10°F (-23.3 °C) or Above  
Box Temperature

**60**  
Hz

	PRODUCT SUPPORT	scan:
	web: <a href="http://www.b-rp.ca/btl">www.b-rp.ca/btl</a>	
	email: <a href="mailto:evaps@b-rp.ca">evaps@b-rp.ca</a>	
	call: 1-844-893-3222 x520	

Air, Electric or Hot Gas  
Defrost (Reverse Cycle)

INCLUDES MODELS FOR DOE & NRCAN  
**AWEF-EXEMPT APPLICATIONS**

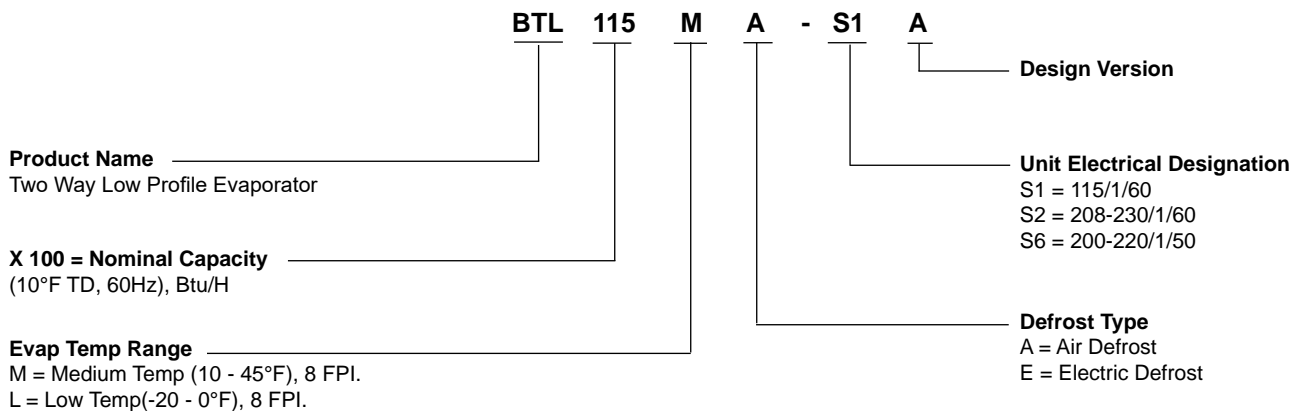


INCLUDES RATINGS FOR  
**LOW GWP**  
REFRIGERANTS

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## NOMENCLATURE



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## STANDARD FEATURES

- Compatible with Low GWP Refrigerants
- Low height compact size maximizes usable storage space
- Dual refrigeration coils and two-way air distribution reduces air velocities to minimize product dehydration
- Air enters through fan and discharges two ways out of each coil side
- Rugged heavy duty motor mount reduces vibration and noise
- Electric defrost models include factory installed defrost termination and fan delay thermostat
- NSF approved “flush to ceiling mount”
- Internally enhanced tube

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## AVAILABLE OPTIONS

- Additional options available, please contact factory

**MEDIUM TEMPERATURE MODELS - CAPACITY \***

Model BTL		010M	015M	020M	025M	032M	038M	060M	077M	115M	
Number of Fans		1	1	1	1	1	1	2	2	3	
Capacity BTUH (WATTS)	Evap Temp. 25°F (-4°C)	R407A	900	1380	1900	2380	3040	3600	5700	7300	10900
		R448A	(264)	(404)	(557)	(696)	(891)	(1058)	(1670)	(2144)	(3202)
		R407C	860	1305	1800	2250	2880	3420	5400	6900	10400
		R404A	(250)	(383)	(527)	(660)	(844)	(1003)	(1582)	(2031)	(3033)
		R507	950	1450	2000	2500	3200	3800	6000	7700	11500
		R22	(278)	(425)	(586)	(733)	(938)	(1114)	(1758)	(2257)	(3370)
	R134a	900	1380	1900	2380	3000	3600	5700	7300	10900	
		(264)	(404)	(557)	(696)	(891)	(1058)	(1670)	(2144)	(3202)	
	R134a	855	1305	1800	2250	2880	3420	5400	6930	10350	
		(250)	(383)	(527)	(660)	(844)	(1003)	(1582)	(2031)	(3033)	
Air Flow	CFM (L/s)	130 (61)	180 (85)	237 (112)	270 (127)	440 (208)	440 (208)	928 (438)	807 (381)	1242 (586)	
Refrigerant ** Charge R407A	Lbs (Kg)	0.4 (0.2)	0.5 (0.2)	0.7 (0.3)	0.8 (0.4)	0.9 (0.4)	1.2 (0.5)	1.4 (0.6)	2.3 (1.0)	3.4 (1.5)	

**LOW TEMPERATURE MODELS - CAPACITY \***

Model BTL		009L	013L	017L	021L	028L	033L	052L	066L	099L	
Number of Fans		1	1	1	1	1	1	2	2	3	
Capacity BTUH (WATTS)	Evap Temp. -20°F (-28.9°C)	R407A	810	1190	1620	2000	2660	3100	4900	6300	9400
		R448A	(237)	(348)	(473)	(584)	(780)	(919)	(1448)	(1837)	(2756)
		R407C	770	1125	1530	1890	2520	2970	4700	6000	8900
		R404A	(224)	(329)	(448)	(554)	(739)	(870)	(1372)	(1741)	(2611)
		R507	850	1250	1700	2100	2800	3300	5200	6600	9900
		R22	(249)	(366)	(498)	(615)	(821)	(967)	(1524)	(1934)	(2901)
	R134a	810	1190	1620	2000	2700	3100	4900	6300	9400	
		(237)	(348)	(473)	(584)	(780)	(919)	(1448)	(1837)	(2756)	
	R134a	765	1125	1530	1890	2520	2970	4680	5940	8910	
		(224)	(329)	(448)	(554)	(739)	(870)	(1372)	(1741)	(2611)	
Air Flow	CFM (L/s)	130 (61)	180 (85)	237 (112)	270 (127)	440 (208)	440 (208)	928 (438)	807 (381)	1242 (586)	
Refrigerant ** Charge R407A	Lbs (Kg)	0.4 (0.2)	0.5 (0.2)	0.7 (0.3)	0.8 (0.4)	0.9 (0.4)	1.2 (0.5)	1.4 (0.6)	2.3 (1.0)	3.4 (1.5)	

**\* Derate capacity by 5% when using EC Motors**

Capacities rated using 10°F (5.6°C) TD & 100°F (38°C) liquid temperature.

Capacities at other TD within a range of 8 to 15 °F (4.4 to 8.3°C) are directly proportional to TD, or use formula: Capacity = Rated capacity ÷ 10 x TD.

For capacities at TD outside of range 8 to 15 °F (4.4 to 8.3°C), or liquid temperature lower than 75°F (24°), consult factory.

Capacities for R448A, R407A and R407C are based on mean temperature. Mean temperature is the average temperature between the saturated suction temperature and the temperature feeding the evaporator. For dew point ratings, consult factory.

For R449A, use R448A data.

**\* CAPACITY CORRECTION FACTORS FOR LOW TEMPERATURE UNITS**

SATURATED SUCTION TEMPERATURE °F (°C)	0 (-17.8)	-10 (23.3)	-20 (-28.9)
FACTOR	1.06	1.03	1.0

**\*\* REFRIGERANT CHARGE CONVERSION FACTORS**

R448A	R407C	R404A	R507	R22	R134a
0.96	0.99	0.92	0.93	1.02	1.03

**NO CORRECTION FACTOR REQUIRED FOR MEDIUM TEMP. UNITS**

**AIR DEFROST**

MODEL BTL	No. of FANS	FAN MOTOR(S) - SHADED POLE (STANDARD)			
		TOTAL MOTOR FLA	M.C.A.	M.O.P	WATTS
010MA-S1A	1	1.2	1.5	15	70
015MA-S1A	1	1.2	1.5	15	70
020MA-S1A	1	1.2	1.5	15	70
025MA-S1A	1	1.2	1.5	15	70
032MA-S1A	1	1.2	1.5	15	70
038MA-S1A	1	1.2	1.5	15	70
060MA-S1A	2	2.4	2.7	15	140
077MA-S1A	2	2.4	2.7	15	140
115MA-S1A	3	3.6	3.9	15	210

**ELECTRIC DEFROST**

MODEL BTL	No. of FANS	FAN MOTOR(S) - SHADED POLE (STANDARD)				DEFROST HEATERS			
		TOTAL MOTOR FLA	M.C.A.	M.O.P	WATTS	TOTAL WATTS	TOTAL AMPS	M.C.A.	M.O.P
010ME-S1A	1	1.2	1.5	15	70	206	1.8	2.2	15
015ME-S1A	1	1.2	1.5	15	70	530	4.6	5.8	15
020ME-S1A	1	1.2	1.5	15	70	530	4.6	5.8	15
025ME-S1A	1	1.2	1.5	15	70	530	4.6	5.8	15
032ME-S1A	1	1.2	1.5	15	70	750	6.5	8.2	15
038ME-S1A	1	1.2	1.5	15	70	750	6.5	8.2	15
060ME-S1A	2	2.4	2.7	15	140	1100	9.6	12.0	15
077ME-S1A	2	2.4	2.7	15	140	1540	13.4	16.8	20
115ME-S1A	3	3.6	3.9	15	210	2270	19.7	24.6	25
009LE-S1A	1	1.2	1.5	15	70	206	1.8	2.2	15
013LE-S1A	1	1.2	1.5	15	70	530	4.6	5.8	15
017LE-S1A	1	1.2	1.5	15	70	530	4.6	5.8	15
021LE-S1A	1	1.2	1.5	15	70	530	4.6	5.8	15
028LE-S1A	1	1.2	1.5	15	70	750	6.5	8.2	15
033LE-S1A	1	1.2	1.5	15	70	750	6.5	8.2	15
052LE-S1A	2	2.4	2.7	15	140	1100	9.6	12.0	15
066LE-S1A	2	2.4	2.7	15	140	1540	13.4	16.8	20
099LE-S1A	3	3.6	3.9	15	210	2270	19.7	24.6	25



# ELECTRICAL DATA

## 208-230/1/60

60Hz

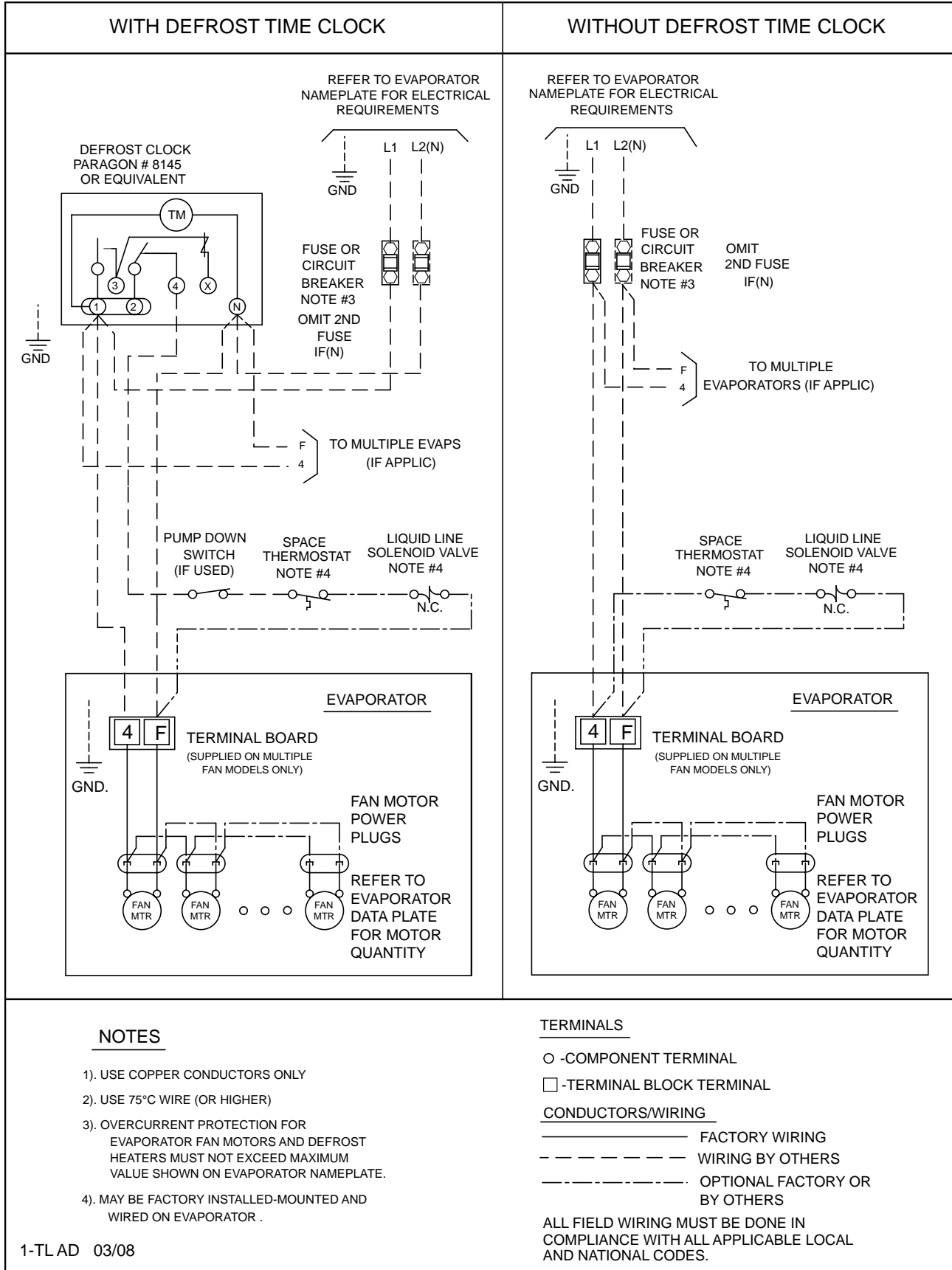
### AIR DEFROST

MODEL BTL	No. of FANS	FAN MOTOR(S) - SHADED POLE(STANDARD)			
		TOTAL MOTOR FLA	M.C.A.	M.O.P	WATTS
010MA-S2A	1	0.7	0.9	15	60
015MA-S2A	1	0.7	0.9	15	60
020MA-S2A	1	0.7	0.9	15	60
025MA-S2A	1	0.7	0.9	15	60
032MA-S2A	1	0.7	0.9	15	60
038MA-S2A	1	0.7	0.9	15	60
060MA-S2A	2	1.4	1.6	15	120
077MA-S2A	2	1.4	1.6	15	120
115MA-S2A	3	2.1	2.3	15	180

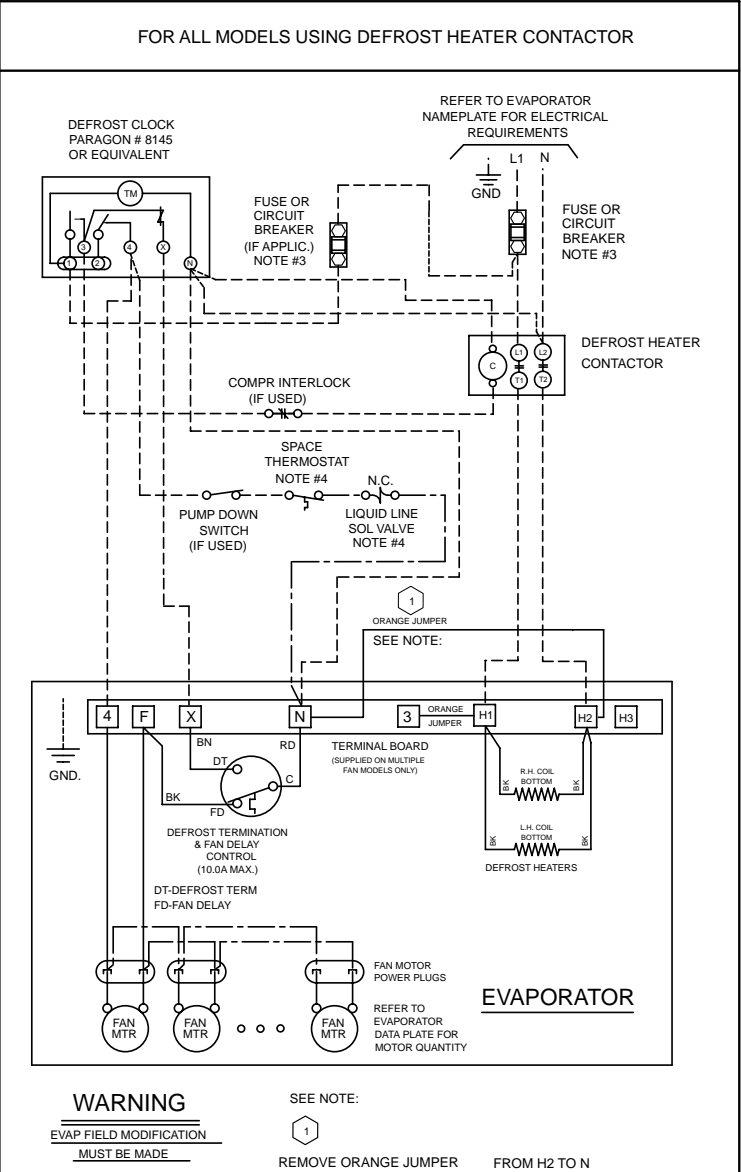
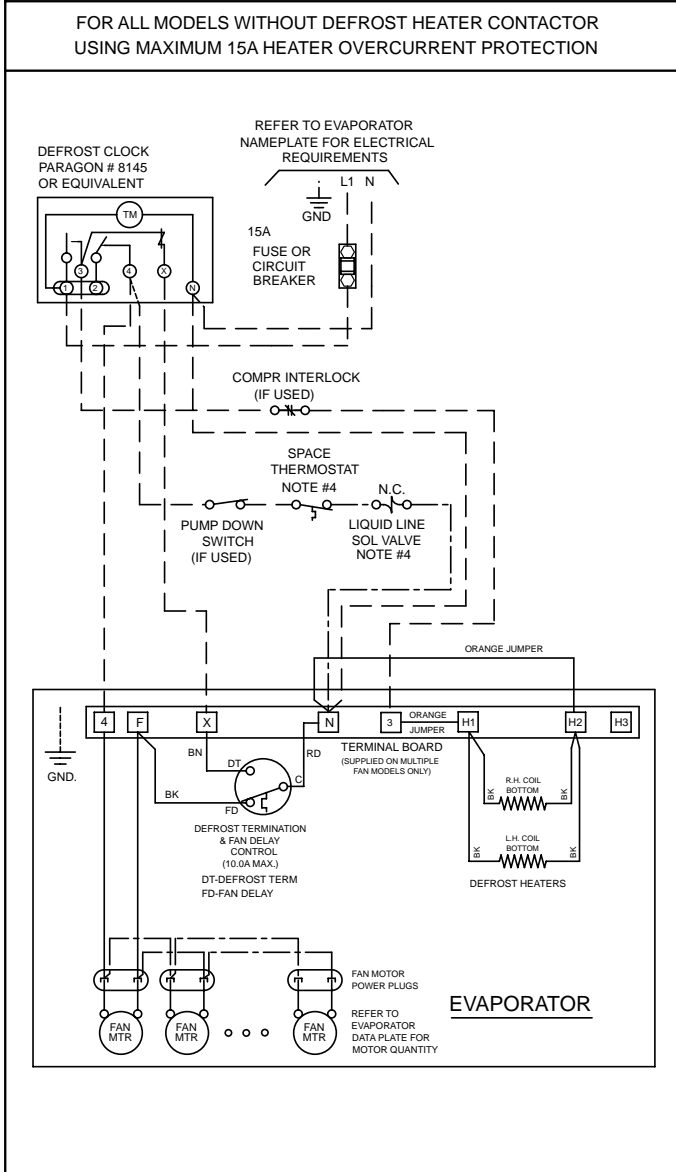
### ELECTRIC DEFROST

MODEL BTL	No. of FANS	FAN MOTOR(S) - SHADED POLE(STANDARD)				DEFROST HEATERS			
		TOTAL MOTOR FLA	M.C.A.	M.O.P	WATTS	TOTAL WATTS	TOTAL AMPS	M.C.A.	M.O.P
010ME-S2A	1	0.7	0.9	15	60	206	0.9	1.1	15
015ME-S2A	1	0.7	0.9	15	60	530	2.3	2.9	15
020ME-S2A	1	0.7	0.9	15	60	530	2.3	2.9	15
025ME-S2A	1	0.7	0.9	15	60	530	2.3	2.9	15
032ME-S2A	1	0.7	0.9	15	60	750	3.3	4.1	15
038ME-S2A	1	0.7	0.9	15	60	750	3.3	4.1	15
060ME-S2A	2	1.4	1.6	15	120	1100	4.8	6.0	15
077ME-S2A	2	1.4	1.6	15	120	1540	6.7	8.4	15
115ME-S2A	3	2.1	2.3	15	180	2270	9.9	12.4	15
009LE-S2A	1	0.7	0.9	15	60	206	0.9	1.1	15
013LE-S2A	1	0.7	0.9	15	60	530	2.3	2.9	15
017LE-S2A	1	0.7	0.9	15	60	530	2.3	2.9	15
021LE-S2A	1	0.7	0.9	15	60	530	2.3	2.9	15
028LE-S2A	1	0.7	0.9	15	60	750	3.3	4.1	15
033LE-S2A	1	0.7	0.9	15	60	750	3.3	4.1	15
052LE-S2A	2	1.4	1.6	15	120	1100	4.8	6.0	15
066LE-S2A	2	1.4	1.6	15	120	1540	6.7	8.4	15
099LE-S2A	3	2.1	2.3	15	180	2270	9.9	12.4	15

# WIRING DIAGRAM AIR DEFROST - ALL VOLTAGES



# WIRING DIAGRAM ELECTRIC DEFROST - 115V



**NOTES**

- 1). USE COPPER CONDUCTORS ONLY
- 2). USE 75°C WIRE (OR HIGHER)
- 3). OVERCURRENT PROTECTION FOR EVAPORATOR FAN MOTORS AND DEFROST HEATERS MUST NOT EXCEED MAXIMUM VALUE SHOWN ON EVAPORATOR NAMEPLATE.
- 4.) MAY BE FACTORY INSTALLED-MOUNTED AND WIRED ON EVAPORATOR

**TERMINALS**

- -COMPONENT TERMINAL
- -TERMINAL BLOCK TERMINAL

**CONDUCTORS/WIRING**

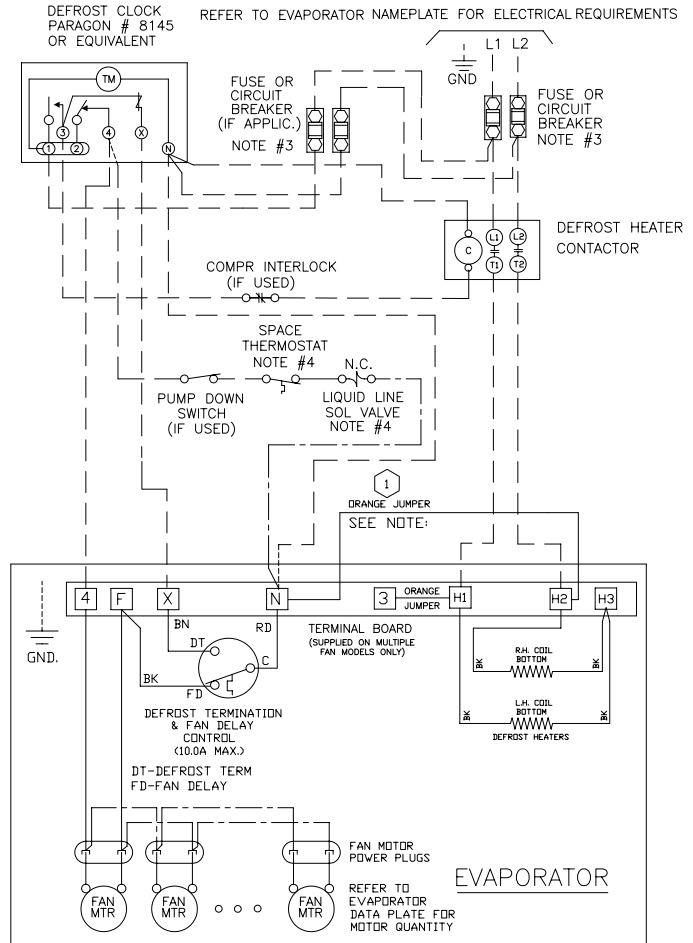
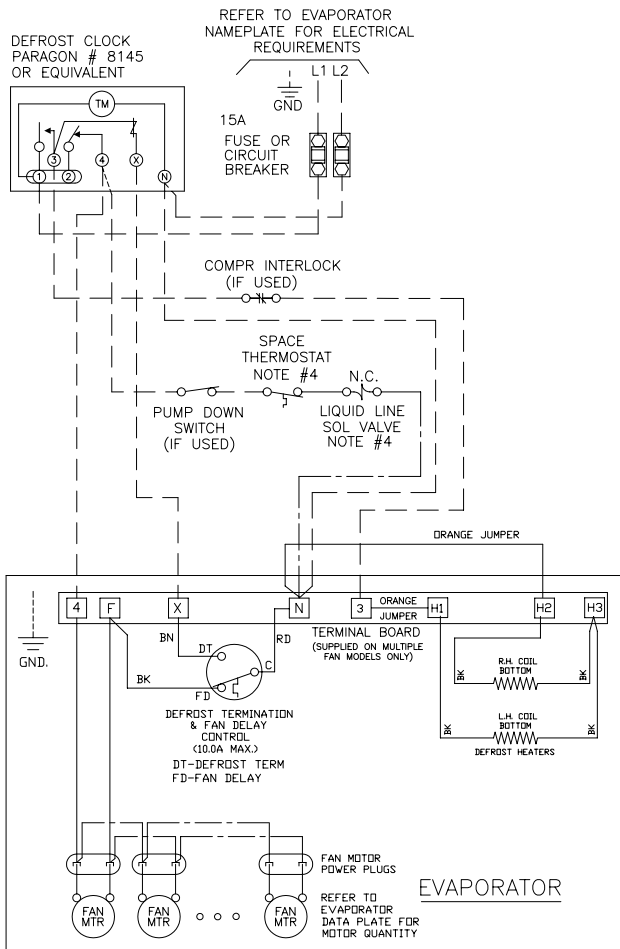
- FACTORY WIRING
- - - - - WIRING BY OTHERS
- OPTIONAL FACTORY OR BY OTHERS

ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.

# WIRING DIAGRAM ELECTRIC DEFROST - 230V

FOR ALL MODELS WITHOUT DEFROST HEATER CONTACTOR USING MAXIMUM 15A HEATER OVERCURRENT PROTECTION

FOR ALL MODELS USING DEFROST HEATER CONTACTOR



**WARNING** SEE NOTE: 1  
EVAP FIELD MODIFICATION MUST BE MADE REMOVE ORANGE JUMPER FROM H2 TO N

**NOTES**

- 1.) USE COPPER CONDUCTORS ONLY
- 2.) USE 75°C WIRE (OR HIGHER)
- 3.) OVERCURRENT PROTECTION FOR EVAPORATOR FAN MOTORS AND DEFROST HEATERS MUST NOT EXCEED MAXIMUM VALUE SHOWN ON EVAPORATOR NAMEPLATE.
- 4.) MAY BE FACTORY INSTALLED-MOUNTED AND WIRED ON EVAPORATOR

**TERMINALS**

- -COMPONENT TERMINAL
- -TERMINAL BLOCK TERMINAL

**CONDUCTORS/WIRING**

- FACTORY WIRING
- - - - - WIRING BY OTHERS
- - - - - OPTIONAL FACTORY OR BY OTHERS

ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.

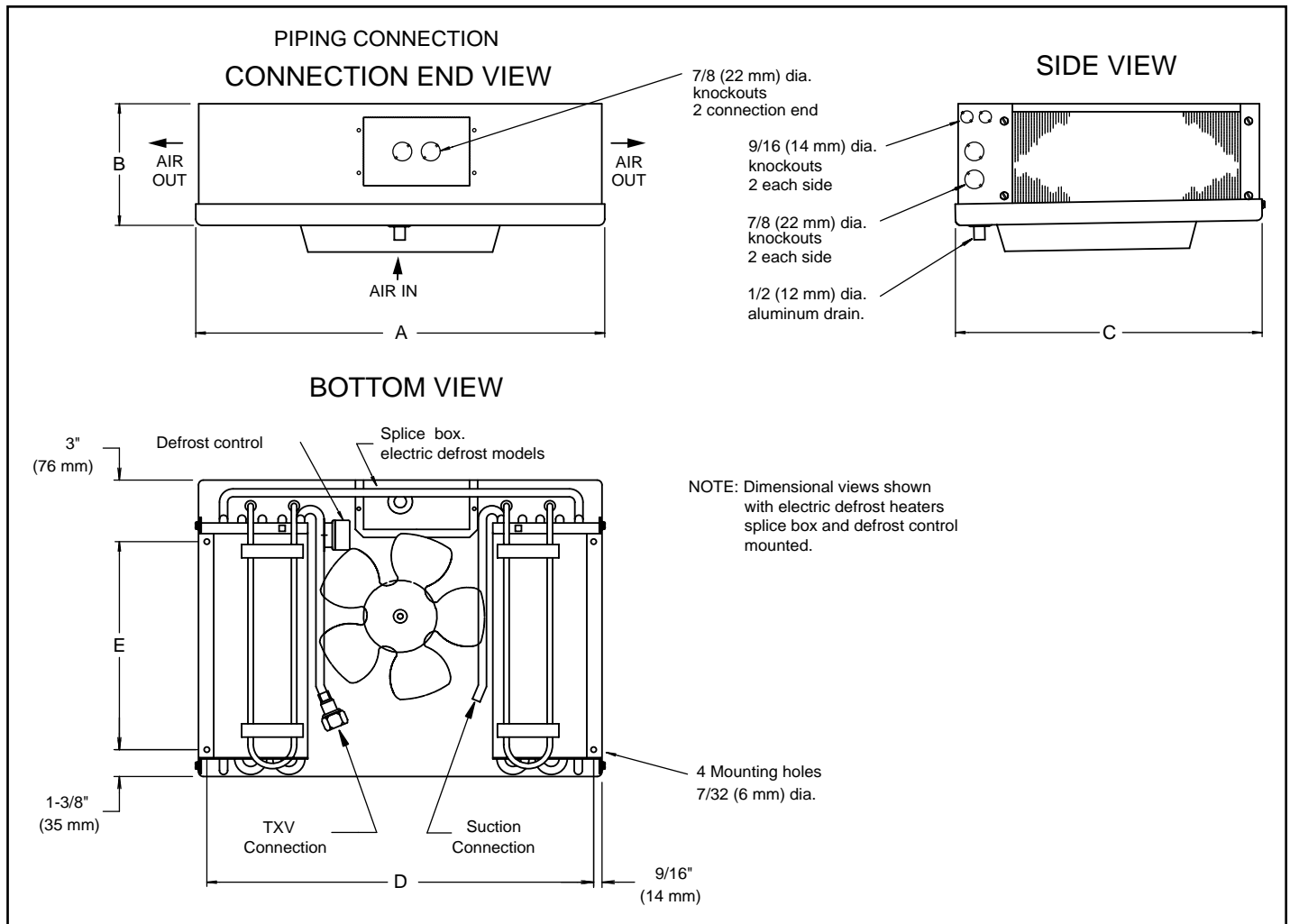


**BTL**

# DIMENSIONAL DATA - 1 FAN

**60Hz**

Inches (mm)

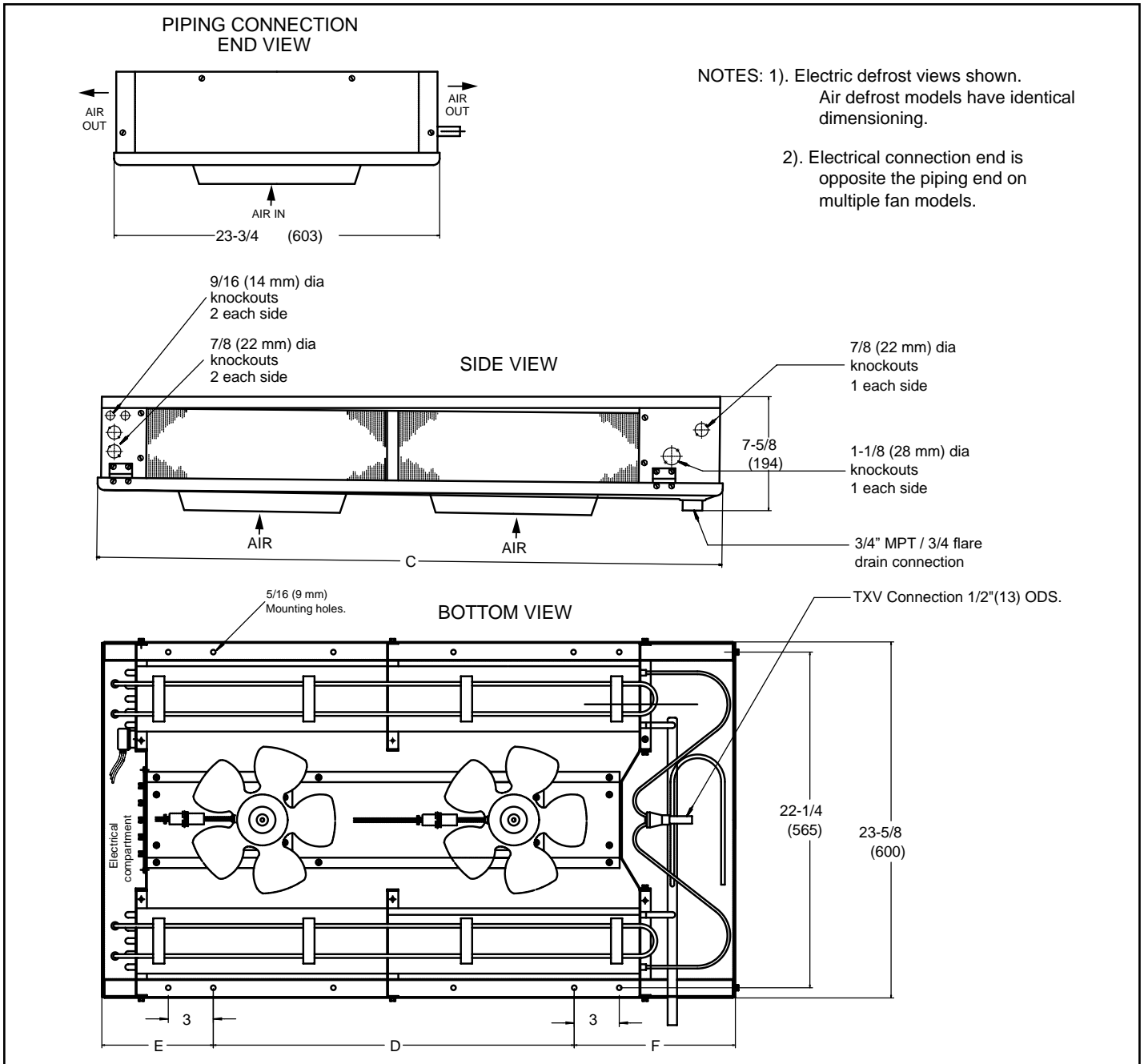


MODEL	Suc. Conn.	TXV	A		B		C		D		E		APPROX. WEIGHT	
	(ID) Sweat	Inlet Size	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Lbs.	Kgs
<b>010M*</b>	3/8	1/2" Flare	18 7/8	479	4 1/2	114	14 1/8	359	17 3/4	451	9 3/4	248	11.6	5.3
<b>015M*</b>	3/8	1/2" Flare	18 7/8	479	4 1/2	114	14 1/8	359	17 3/4	451	9 3/4	248	12.6	5.7
<b>020M*</b>	3/8	1/2" Flare	18 7/8	479	5 1/2	140	14 1/8	359	17 3/4	451	9 3/4	248	13.7	6.2
<b>025M*</b>	3/8	1/2" Flare	18 7/8	479	5 1/2	140	14 1/8	359	17 3/4	451	9 3/4	248	14.7	6.7
<b>032M*</b>	3/8	1/2" ODS	21 7/8	556	5 1/2	140	19 1/8	486	20 3/4	527	14 3/4	375	18.9	8.6
<b>038M*</b>	3/8	1/2" ODS	21 7/8	556	5 1/2	140	19 1/8	486	20 3/4	527	14 3/4	375	20.0	9.1
<b>009LE</b>	3/8	1/2" Flare	18 7/8	479	4 1/2	114	14 1/8	359	17 3/4	451	9 3/4	248	11.6	5.3
<b>013LE</b>	3/8	1/2" Flare	18 7/8	479	4 1/2	114	14 1/8	359	17 3/4	451	9 3/4	248	12.6	5.7
<b>017LE</b>	3/8	1/2" ODS	18 7/8	479	5 1/2	140	14 1/8	359	17 3/4	451	9 3/4	248	13.7	6.2
<b>021LE</b>	3/8	1/2" ODS	18 7/8	479	5 1/2	140	14 1/8	359	17 3/4	451	9 3/4	248	14.7	6.7
<b>028LE</b>	1/2	1/2" ODS	21 7/8	556	5 1/2	140	19 1/8	486	20 3/4	527	14 3/4	375	18.9	8.6
<b>033LE</b>	1/2	1/2" ODS	21 7/8	556	5 1/2	140	19 1/8	486	20 3/4	527	14 3/4	375	20.0	9.1

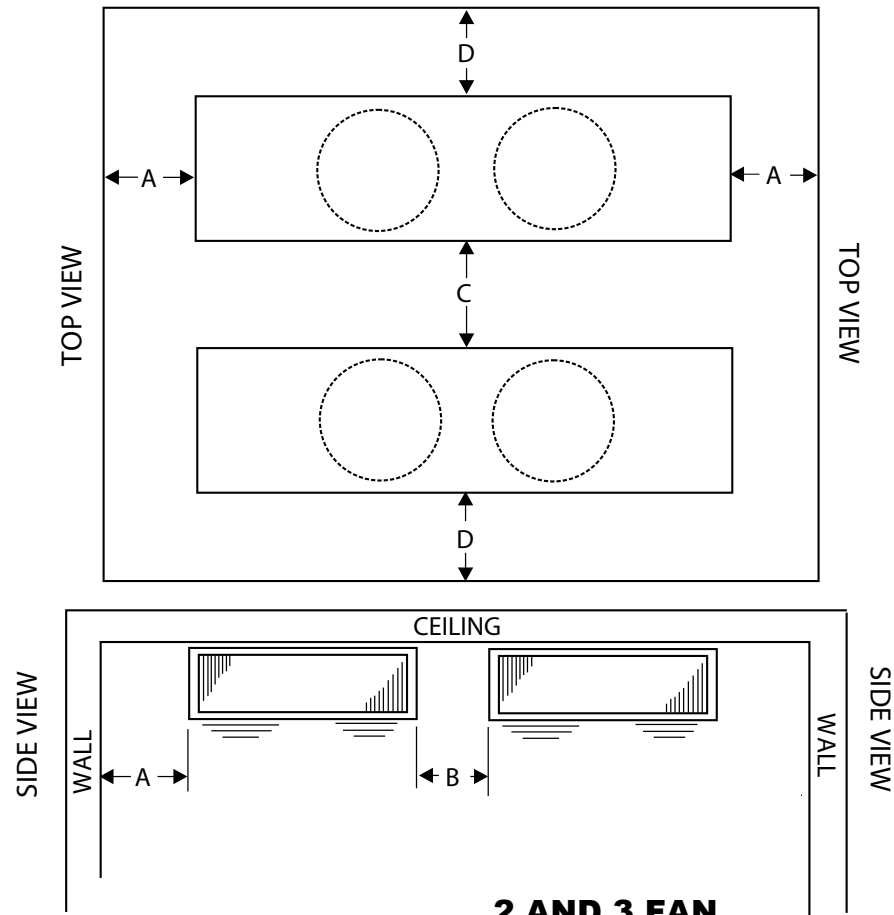
\* - A (AIR DEFROST) OR E (ELECTRIC DEFROST)

# DIMENSIONAL DATA - 2 & 3 FAN

Inches (mm)



MODEL BTL	Suc. Conn.	TXV	C		D		E		F		APPROX. WEIGHT	
	(ID) Sweat	Inlet Size	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Lbs.	Kgs
060M	1/2	1/2" ODS	42 3/4	1086	4 holes @ 8"	203	7 11/16	195	10 15/16	278	37.8	17.1
077M	5/8	1/2" ODS	42 3/4	1086	4 holes @ 8"	203	7 11/16	195	10 15/16	278	39.9	18.1
115M	5/8	1/2" ODS	59 1/2	1511	6 holes @ 8"	203	8	203	11 7/16	291	59.9	27.2
052LE	5/8	1/2" ODS	42 3/4	1086	4 holes @ 8"	203	7 11/16	195	10 15/16	278	37.8	17.1
066LE	5/8	1/2" ODS	42 3/4	1086	4 holes @ 8"	203	7 11/16	195	10 15/16	278	39.9	18.1
099LE	7/8	1/2" ODS	59 1/2	1511	6 holes @ 8"	203	8	203	11 7/16	291	59.9	27.2



**1 FAN**

DIMENSION		A	B	C	D
MINIMUM	ft.	2	2	3	1.5
	cm.	61	61	91	46
Maximum	ft.	-	7	30	15
	cm.	-	210	900	457

**2 AND 3 FAN**

DIMENSION		A	B	C	D
MINIMUM	ft.	2	2	4	2
	cm.	61	61	122	61
Maximum	ft.	-	7	30	15
	cm.	-	210	900	457

# NOZZLE SELECTIONS (FACTORY INSTALLED)

For all applications and refrigerants

Model BTL	Nozzle
010MA/ME	NA
015MA/ME	NA
020MA/ME	NA
025MA/ME	NA
032MA/ME	L-1/4
038MA/ME	L-1/3
060MA/ME	L-1/2
077MA/ME	L-3/4
115MA/ME	L-1

Model BTL	Nozzle
009LE	NA
013LE	NA
017LE	L-1/4
021LE	L-1/3
028LE	L-1/2
033LE	L-1/2
052LE	L-1
066LE	L-1
099LE	L-1 1/2

## RECOMMENDED EXPANSION VALVE SELECTION MEDIUM TEMPERATURE MODELS

### SPORLAN

MODEL BTL	TD	R404A	R448A R407A
		R507	R407C R22
010M	10	EGS-1/8-C	EGV-1/5-C
	15		
015M	10	EGS-1/6-C	EGV-1/5-C
	15		
020M	10	EGS-1/6-C	EGV-1/5-C
	15		
025M	10	EGS-1/6-C	EGV-1/5-C
	15		EGV-1/3-C
032M	10	SBFSE-AA-C	SBFVE-AAA-C
	15		SBFVE-AA-C
038M	10	SBFSE-AA-C	SBFVE-AAA-C
	15		SBFVE-AA-C
060M	10	SBFSE-A-C	SBFVE-AA-C
	15		
077M	10	SBFSE-A-C	SBFVE-AA-C
	15		SBFVE-A-C
115M	10	SBFSE-A-C	SBFVE-A-C
	15		

For medium temp. R-507, refrigerant designation changes from 'S' to 'P'.  
For R449A, use R448A data.

### ALCO

MODEL BTL	TD	R404A	R448A R407A
		R507	R407C R22
010M	10	HF-1/8-SC	HF-1/4-HC
	15		
015M	10	HF-1/8-SC	HF-1/4-HC
	15		
020M	10	HF-1/8-SC	HF-1/4-HC
	15		
025M	10	HF-1/4-SC	HF-1/4-HC
	15		
032M	10	HFESC-1/4-SC	HFESC-1/4-HC
	15	HFESC-1/2-SC	HFESC-1/2-HC
038M	10	HFESC-1/4-SC	HFESC-1/2-HC
	15	HFESC-1/2-SC	
060M	10	HFESC-1/2-SC	HFESC-1/2-HC
	15	HFESC-1-SC	HFESC-1-HC
077M	10	HFESC-1/2-SC	HFESC-1-HC
	15	HFESC-1-SC	
115M	10	HFESC-1-SC	HFESC-1-HC
	15	HFESC-1 1/4-SC	HFESC-1 1/2-HC

ALL TXV Selections based on 90-100°F liquid.  
For R449A, use R448A data.

### DANFOSS

MODEL BTL	TD	R404A	R448A R407A
		R507	R407C R22
010M	10	TUA-R404A-0-N	TUA-R22-0-N
	15	TUA-R404A-1-N	
015M	10	TUA-R404A-1-N	TUA-R22-0-N
	15	TUA-R404A-2-N	TUA-R22-1-N
020M	10	TUA-R404A-2-N	TUA-R22-1-N
	15	TUAE-R404A-3-N	TUAE-R22-2-N
025M	10	TUA-R404A-2-N	TUA-R22-1-N
	15	TUAE-R404A-3-N	TUAE-R22-2-N
032M	10	TUAE-R404A-3-N	TUAE-R22-2-N
	15	TUAE-R404A-4-N	TUAE-R22-3-N
038M	10	TUAE-R404A-3-N	TUAE-R22-3-N
	15	TUAE-R404A-4-N	TUAE-R22-4-N
060M	10	TUAE-R404A-5-N	TUAE-R22-4-N
	15	TUAE-R404A-6-N	TUAE-R22-5-N
077M	10	TUAE-R404A-5-N	TUAE-R22-5-N
	15	TUAE-R404A-6-N	TUAE-R22-6-N
115M	10	TUAE-R404A-6-N	TUAE-R22-6-N
	15	TUAE-R404A-8-N	TUAE-R22-7-N

For R449A, use R448A data.

**BTL**

**RECOMMENDED EXPANSION VALVE  
SELECTION - MEDIUM TEMPERATURE MODELS**

**60Hz**

**SPORLAN - R407A R448A**

MODEL BTL		009L		013L		017L		021L		028L	
		BTUH	VALVE #	BTUH	VALVE #	BTUH	VALVE #	BTUH	VALVE #	BTUH	VALVE #
EVAP TEMP. °F	0	865	EGV-1/5-C	1,273	EGV-1/5-C	1,729	EGVE-1/5-C	2,138	SBFVE-AAA-C	2,850	SBFVE-AAA-C
	-10	836	EGV-1/5-Z	1,235	EGV-1/5-Z	1,682	SBFVE-AAA-Z	2,071	SBFVE-AAA-Z	2,765	SBFVE-AAA-Z
	-15	827		1,216		1,644		2,033		2,717	
	-20	808		1,188		1,615		1,995		2,660	
MODEL BTL		033L		052L		066L		099L			
		BTUH	VALVE #	BTUH	VALVE	BTUH	VALVE #	BTUH	VALVE #		
EVAP TEMP. °F	0	3,354	SBFVE-AAA-C	5,282	SBFVE-AA-C	6,707	SBFVE-AA-C	10,061	SBFVE-A-C		
	-10	3,259	SBFVE-AA-Z	5,140	SBFVE-AA-Z	6,517	SBFVE-AA-Z	9,785	SBFVE-A-Z		
	-15	3,202		5,035		6,394		9,595			
	-20	3,135		4,940		6,270		9,405			

Selections based on 90-100°F liquid.

For R407A valves operating below 0F, the pressure limiting charge 'ZP40' may be substituted for the 'Z' charge.

R407A derated by .95 factor

For R449A, use R448A data.

**SPORLAN - R404A**

MODEL BTL		009L		013L		017L		021L		028L	
		BTUH	VALVE #	BTUH	VALVE #	BTUH	VALVE #	BTUH	VALVE #	BTUH	VALVE #
EVAP TEMP. °F	0	910	EGS-1/8-C	1,340	EGS-1/8-C	1,820	SBFSE-AAA-C	2,250	SBFSE-AAA-C	3,000	SBFSE-AA-C
	-10	880	EGS-1/8-Z	1,300	EGS-1/8-Z	1,770	SBFSE-AAA-Z	2,180	SBFSE-AAA-Z	2,910	SBFSE-AA-Z
	-15	870		1,280		1,730		2,140		2,860	
	-20	850		1,250		1,700		2,100		2,800	
MODEL BTL		033L		052L		066L		099L			
		BTUH	VALVE #	BTUH	VALVE	BTUH	VALVE #	BTUH	VALVE #		
EVAP TEMP. °F	0	3,530	SBFSE-AA-C	5,560	SBFSE-AA-C	7,060	SBFSE-A-C	10,590	SBFSE-A-C		
	-10	3,430	SBFSE-AA-Z	5,410	SBFSE-A-Z	6,860	SBFSE-A-Z	10,300	SBFSE-A-Z		
	-15	3,370		5,300		6,730		10,100			
	-20	3,300		5,200		6,600		9,900			

Selections based on 90-100°F liquid.

For medium temp. R-507, refrigerant designation changes from 'S' to 'P'.

For R404A/R507 valves operating below 0F, the pressure limiting charge 'ZP' may be substituted for the 'Z' charge.

For R449A, use R448A data.



# DEFROST KIT AND FUSE PACKAGE SELECTIONS

60Hz

## Models with Standard Shaded Pole Motors

### Medium Temperature, 6 FPI, with Standard Shaded Pole Motors

TEMP	FPI	# of Fans	Model BTL	Voltage	1 X EVAPORATOR		2 X EVAPORATOR	
					Defrost Kit	Fuse Package	Defrost Kit	Fuse Package
ME - MEDIUM TEMPERATURE	6	1	010ME-S1A	115/1/60	DFK-01	FP-001	DFK-05	FP-004
			010ME-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008
			015ME-S1A	115/1/60	DFK-01	FP-001	DFK-05	FP-004
			015ME-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008
			020ME-S1A	115/1/60	DFK-01	FP-001	DFK-05	FP-004
			020ME-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008
			025ME-S1A	115/1/60	DFK-01	FP-001	DFK-05	FP-004
			025ME-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008
			032ME-S1A	115/1/60	DFK-01	FP-001	DFK-05	FP-004
			032ME-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008
			038ME-S1A	115/1/60	DFK-01	FP-001	DFK-05	FP-004
			038ME-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008
		2	060ME-S1A	115/1/60	DFK-01	FP-001	DFK-05	FP-004
			060ME-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008
			077ME-S1A	115/1/60	DFK-01	FP-002	DFK-05	FP-006
			077ME-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008
		3	115ME-S1A	115/1/60	DFK-01	FP-003	DFK-05	FP-007
			115ME-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008

### Low Temperature, 6 FPI, with Standard Shaded Pole Motors

TEMP	FPI	# of Fans	Model BTL	Voltage	1 X EVAPORATOR		2 X EVAPORATOR	
					Defrost Kit	Fuse Package	Defrost Kit	Fuse Package
LE - LOW TEMPERATURE	6	1	009LE-S1A	115/1/60	DFK-01	FP-001	DFK-05	FP-004
			009LE-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008
			013LE-S1A	115/1/60	DFK-01	FP-001	DFK-05	FP-004
			013LE-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008
			017LE-S1A	115/1/60	DFK-01	FP-001	DFK-05	FP-004
			017LE-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008
			021LE-S1A	115/1/60	DFK-01	FP-001	DFK-05	FP-004
			021LE-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008
			028LE-S1A	115/1/60	DFK-01	FP-001	DFK-05	FP-004
			028LE-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008
			033LE-S1A	115/1/60	DFK-01	FP-001	DFK-05	FP-004
			033LE-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008
		2	052LE-S1A	115/1/60	DFK-01	FP-001	DFK-05	FP-004
			052LE-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008
			066LE-S1A	115/1/60	DFK-01	FP-002	DFK-05	FP-006
			066LE-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008
		3	099LE-S1A	115/1/60	DFK-01	FP-003	DFK-05	FP-007
			099LE-S2A	208-230/1/60	DFK-02	FP-004	DFK-06	FP-008

**Defrost Kits**

Number of Evaps.	Kit Part Number	Description
1	<b>DFK-01</b>	Time Clock, HtrCont - 1x 40A (3P), FB 1x 30A (1P)
1	<b>DFK-02</b>	Time Clock, HtrCont - 1x 40A (3P), FB 1x 30A (2P)
1	<b>DFK-03</b>	Time Clock, HtrCont - 1x 40A (3P), FB 1x 30A (3P)
1	<b>DFK-04</b>	Time Clock, HtrCont - 1x 40A (3P), FB 1x 60A (2P)
2	<b>DFK-05</b>	Time Clock, HtrCont - 1x 40A (3P), FB 2x 30A (1P)
2	<b>DFK-06</b>	Time Clock, HtrCont - 1x 40A (3P), FB 2x 30A (2P)
2	<b>DFK-07</b>	Time Clock, HtrCont - 1x 40A (3P), FB 2x 30A (3P)
2	<b>DFK-08</b>	Time Clock, HtrCont - 1x 50A (3P), FB 2x 60A (2P)
2	<b>DFK-09</b>	Time Clock, HtrCont - 1x 50A (3P), FB 2x 30A (2P)
1	<b>DFK-10</b>	Time Clock, HtrCont - 1x 40A (3P), FanCont - 1x 40A (3P), FB 2x 30A (2P)
1	<b>DFK-11</b>	Time Clock, HtrCont - 1x 40A (3P), FanCont - 1x 40A (3P), FB 2x 30A (3P)
2	<b>DFK-12</b>	Time Clock, HtrCont - 1x 40A (3P), FanCont - 1x 40A (3P), FB 4x 30A (2P)
2	<b>DFK-13</b>	Time Clock, HtrCont - 1x 40A (3P), FanCont - 1x 40A (3P), FB 4x 30A (3P)
1	<b>DFK-14</b>	Time Clock, HtrCont - 1x 40A (3P), FanCont - 1x 40A (3P), FB 1x 30A (2P), FB 1x 30A (3P)
1	<b>DFK-15</b>	Time Clock, HtrCont - 1x40A (3P), FanCont - 1x 40A (3P), FB 1x 30A (2P), FB 1x 60A (2P)
1	<b>DFK-16</b>	Time Clock, HtrCont - 1x 40A (3P), FanCont - 1x 40A (3P), FB 1x 30A (2P), FB 1x 60A (3P)
1	<b>DFK-17</b>	Time Clock, HtrCont - 1x 40A (3P), FanCont - 1x 40A (3P), FB 1x 30A (3P), FB 1x 60A (3P)
2	<b>DFK-18</b>	Time Clock, HtrCont - 1x 40A (3P), FanCont - 1x 40A (3P), FB 2x 30A (2P), FB 2x 30A (3P)
2	<b>DFK-19</b>	Time Clock, HtrCont - 1x 50A (3P), FanCont - 1x 40A (3P), FB 4x 30A (2P)
2	<b>DFK-20</b>	Time Clock, HtrCont - 1x 50A (3P), FanCont - 1x 40A (3P), FB 4x 30A (3P)
1	<b>DFK-21</b>	Time Clock, HtrCont - 1x 50A (3P), FanCont - 1x 40A (3P), FB 1x 30A (2P), FB 1x 60A (2P)
1	<b>DFK-22</b>	Time Clock, HtrCont - 1x 50A (3P), FanCont - 1x 40A (3P), FB 1x 30A (3P), FB 1x 60A (3P)
2	<b>DFK-23</b>	Time Clock, HtrCont - 1x 50A (3P), FanCont - 1x 40A (3P), FB 2x 30A (2P), FB 2x 30A (3P)
2	<b>DFK-24</b>	Time Clock, HtrCont - 1x 50A (3P), FanCont - 1x 40A (3P), FB 2x 30A (3P), FB 2x 60A (3P)
1	<b>DFK-25</b>	Time Clock, HtrCont - 2x 40A (3P), FanCont - 1x 40A (3P), FB 1x 30A (2P), FB 2x 60A (2P)
1	<b>DFK-26</b>	Time Clock, HtrCont - 2x 40A (3P), FanCont - 1x 40A (3P), FB 1x 30A (3P), FB 2x 60A (3P)
2	<b>DFK-27</b>	Time Clock, HtrCont - 2x 40A (3P), FanCont - 1x 40A (3P), FB 2x 30A (2P), FB 2x 60A (2P)
2	<b>DFK-28</b>	Time Clock, HtrCont - 2x 40A (3P), FanCont - 1x 40A (3P), FB 2x 30A (2P), FB 2x 60A (3P)
2	<b>DFK-29</b>	Time Clock, HtrCont - 2x 40A (3P), FanCont - 1x 40A (3P), FB 2x 30A (3P), FB 2x 60A (3P)
2	<b>DFK-30</b>	Time Clock, HtrCont - 2x 40A (3P), FanCont - 1x 50A (3P), FB 2x 30A (2P), FB 2x 60A (3P)
1	<b>DFK-31</b>	Time Clock, HtrCont - 2x 50A (3P), FanCont - 1x 40A (3P), FB 1x 30A (3P), FB 2x 60A (3P)
2	<b>DFK-32</b>	Time Clock, HtrCont - 2x 50A (3P), FanCont - 1x 40A (3P), FB 2x 30A (2P), FB 2x 60A (2P)
2	<b>DFK-33</b>	Time Clock, HtrCont - 2x 50A (3P), FanCont - 1x 40A (3P), FB 2x 30A (3P), FB 2x 60A (3P)
2	<b>DFK-34</b>	Time Clock, HtrCont - 4x 40A (3P), FanCont - 1x 40A (3P), FB 2x 30A (2P), FB 4x 60A (2P)
2	<b>DFK-35</b>	Time Clock, HtrCont - 4x 40A (3P), FanCont - 1x 40A (3P), FB 2x 30A (3P), FB 4x 60A (3P)
2	<b>DFK-36</b>	Time Clock, HtrCont - 4x 40A (3P), FanCont - 1x 50A (3P), FB 2x 30A (2P), FB 4x 60A (2P)
2	<b>DFK-37</b>	Time Clock, HtrCont - 4x 40A (3P), FanCont - 1x 50A (3P), FB 2x 30A (3P), FB 4x 60A (3P)
2	<b>DFK-38</b>	Time Clock, HtrCont - 4x 50A (3P), FanCont - 1x 50A (3P), FB 2x 30A (3P), FB 4x 60A (3P)
1	<b>DFK-39</b>	Time Clock, HtrCont1 - 1x 40A (3P), HtrCont2 - 2x 50A (3P), FanCont - 1x 40A (3P), FB 4x 60A (3P)

NOTE: HtrCont = Heater Contactor, FanCont = Fan Contactor, FB = Fuse Block, (1P), (2P), (3P) = Number of Poles

(cont'd)

**Fuse Packages**

Package Part Number	Description	Package Part Number	Description
FP-001	FUSES (1) 15AMP	FP-054	FUSES (3)15AMP (6) 35AMP
FP-002	FUSES (1) 20AMP	FP-055	FUSES (2) 15AMP (2) 45AMP
FP-003	FUSES (1) 25AMP	FP-056	FUSES (2) 15AMP (2) 40AMP
FP-004	FUSES (2) 15AMP	FP-057	FUSES (2) 20AMP (3) 50AMP
FP-006	FUSES (2) 20AMP	FP-058	FUSES (2) 15AMP (3) 45AMP
FP-007	FUSES (2) 25AMP	FP-059	FUSES (2) 15AMP (3) 30AMP
FP-008	FUSES (4) 15AMP	FP-060	FUSES (2) 15AMP (2) 35AMP
FP-010	FUSES (4) 25AMP	FP-061	FUSES (2) 15AMP (2) 50AMP
FP-012	FUSES (2) 35AMP	FP-062	FUSES (2) 15AMP (2) 60AMP
FP-013	FUSES (3) 15AMP	FP-063	FUSES (2) 15AMP (3) 25AMP
FP-014	FUSES (3) 20AMP	FP-064	FUSES (2) 15AMP (3) 35AMP
FP-015	FUSES (4) 20AMP	FP-065	FUSES (2) 15AMP (3) 40AMP
FP-016	FUSES (4) 20AMP (6) 45AMP	FP-066	FUSES (2) 15AMP (3) 20AMP
FP-017	FUSES (4) 35AMP	FP-067	FUSES (4) 15AMP (4) 35AMP
FP-018	FUSES (6) 15AMP	FP-068	FUSES (4) 15AMP (4) 50AMP
FP-019	FUSES (6) 20AMP	FP-069	FUSES (4) 15AMP (4) 60AMP
FP-020	FUSES (2) 30AMP	FP-070	FUSES (4) 15AMP (6) 25AMP
FP-021	FUSES (4) 30AMP	FP-071	FUSES (4) 15AMP (6) 35AMP
FP-022	FUSES (8) 15AMP	FP-072	FUSES (4) 15AMP (6) 40AMP
FP-023	FUSES (2) 25AMP (3) 50AMP	FP-073	FUSES (4) 15AMP (6) 20AMP
FP-024	FUSES (2) 20AMP (3) 45AMP	FP-074	FUSES (3) 20AMP (3) 60AMP
FP-025	FUSES (6) 20AMP (6) 60AMP	FP-075	FUSES (3) 20AMP (6) 35AMP
FP-026	FUSES (6) 15AMP (12) 40AMP	FP-076	FUSES (3) 25AMP (6) 50AMP
FP-027	FUSES (6) 15AMP (6) 40AMP	FP-077	FUSES (3) 35AMP (9) 45AMP
FP-028	FUSES (6) 20AMP (12) 40AMP	FP-078	FUSES (3) 15AMP (3) 35AMP
FP-029	FUSES (6)15AMP (6) 50AMP	FP-079	FUSES (3)15AMP (3) 45AMP
FP-030	FUSES (6) 15AMP (6) 45AMP	FP-080	FUSES (3) 15AMP (3) 50AMP
FP-031	FUSES (6) 15AMP (6) 35AMP	FP-081	FUSES (3) 20AMP (6) 40AMP
FP-032	FUSES (6) 15AMP (6) 30AMP	FP-082	FUSES (3) 15AMP (3) 40AMP
FP-033	FUSES (6) 25AMP (12) 50AMP	FP-083	FUSES (3) 15AMP (6) 40AMP
FP-034	FUSES (6) 20AMP (12) 35AMP	FP-084	FUSES (6) 15AMP (6) 60AMP
FP-035	FUSES (4) 25AMP (6) 50AMP	FP-085	FUSES (6) 15AMP (12) 35AMP
FP-036	FUSES (6) 25AMP (12) 60AMP	FP-086	FUSES (3) 35AMP (3) 45AMP (6) 60AMP
FP-037	FUSES (6) 20AMP (12) 60AMP	FP-087	FUSES (4) 20AMP (4) 40AMP (4) 50AMP
FP-038	FUSES (6) 20AMP (12) 50AMP	FP-088	FUSES (4) 15AMP (4) 35AMP (4) 40AMP
FP-039	FUSES (6) 20AMP (12) 45AMP	FP-089	FUSES (2) 20AMP (2) 40AMP (2) 50AMP
FP-040	FUSES (6) 15AMP (12) 45AMP	FP-090	FUSES (2) 15AMP (2) 35AMP (2) 40AMP
FP-041	FUSES (5) 15AMP	FP-091	FUSES (2) 20AMP (2) 35AMP (2) 40AMP
FP-042	FUSES (10) 15AMP	FP-092	FUSES (2) 25AMP (2) 40AMP (2) 50AMP
FP-043	FUSES (3) 25AMP (6) 60AMP	FP-093	FUSES (4) 20AMP (4) 35AMP (4) 40AMP
FP-044	FUSES (3) 20AMP (6) 60AMP	FP-094	FUSES (6) 15AMP (6) 25AMP
FP-045	FUSES (3) 20AMP (6) 50AMP	FP-095	FUSES (3) 15AMP (3) 25AMP
FP-046	FUSES (3) 25AMP (6) 45AMP	FP-096	FUSES (3) 15AMP (3) 30AMP
FP-047	FUSES (3) 15AMP (6) 45AMP	FP-097	FUSES (4) 15AMP (4) 30AMP
FP-048	FUSES (4) 15AMP (4) 45AMP	FP-098	FUSES (4) 15AMP (4) 25AMP
FP-049	FUSES (4) 15AMP (4) 40AMP	FP-099	FUSES (4) 15AMP (4) 20AMP
FP-050	FUSES (3) 15AMP (3) 60AMP	FP-100	FUSES (2) 15AMP (2) 20AMP
FP-051	FUSES (4) 20AMP (6) 50AMP	FP-101	FUSES (2) 15AMP (2) 25AMP
FP-052	FUSES (4) 15AMP (6) 45AMP	FP-102	FUSES (2) 15AMP (2) 30AMP
FP-053	FUSES (4) 15AMP (6) 30AMP	FP-103	FUSES (4) 25AMP (4) 40AMP (4) 50AMP

NOTE: FUSES 30AMP and Below - Class CC Type, FUSES 35AMP and Above - Class J Type



## 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.

Electrical characteristics should also be checked at this time to ensure that they are as ordered.

## APPLICATION

Two-Way evaporators are designed for use in coolers and freezers such as reach in boxes, display cases, back bars, walk-in rooms and any other cooler applications where a low velocity, uniform air flow is required. The compact and low height unit provides maximum useable product storage space.

At room temperatures above 34°F (**1.1°C**) and evaporating temperatures no lower than 27°F (**-2.8°C**) the air flowing through the coil will accomplish the defrost (Air Defrost).

At room temperatures 34°F and below (to -10°F) positive defrosting is required (Electric defrost).

These will require the use of:

1. *Time Clock* (to initiate and terminate the defrost cycle),
2. *Defrost termination thermostat* (to prevent unnecessary prolonged heating and steaming of the coil once all the frost and ice has melted). And if a freezer,
3. *Fan delay thermostat* (to prevent evaporator fans starting up right away and blowing water on to the fan blades, guards and floor).

This evaporator coil must not be exposed to any abnormal environments (acidic or caustic) that can result in coil corrosion and leaks. Consult factory for optional baked on phenolic protective coatings. These evaporators are for use primarily on R448A/R407A/R407C/R404A/R507/R22 and R134a refrigerants and their approved alternatives / replacements.

## INSTALLATION

The installation and start up of evaporators should only be performed by qualified refrigeration mechanics. This equipment should be installed in accordance with all applicable codes, ordinances, and local by-laws.

## LOCATION

The evaporator is designed to be mounted to the ceiling of the box or cabinet. Refrigeration piping and electrical connections are routed to the rear sides (through the knock-outs). The unit must be mounted to a level ceiling to ensure complete drainage from the condensate pan to the drain fitting. Refer to the dimensional drawings for the drain fitting and mounting location details.

On freezer applications it is important that warm, humid infiltrated air is **not drawn directly towards the evaporator**. Keeping the evaporator away from the door, using strip curtains, and using door switches to lock out and de-energize the liquid solenoid valve are all effective methods to minimize any unnecessary frost build-up of the fan guard. (Air enters the fan and discharges out each side of the coil).

## TXV SELECTION (thermostatic expansion valve)

For normal operating conditions refer to the TXV selection chart. When selecting valves ensure they are sized to meet the capacity at the actual evaporating temperature, liquid temperature and operating TD of the system. All these conditions can greatly affect the size and selection. Consult the factory or valve manufacturer for assistance. All models that use a distributor (larger models) must use a nozzle. Smaller models do not have distributors or nozzles.

The TXV superheat setting should NOT be initially adjusted. After the room has reached or is close to the required operating temperature the TXV superheat should then be checked and only adjusted if necessary. Refer to Section on SYSTEM CHECK.

**To avoid overheating the valve or distributor wrap a wet cloth around the valve diaphragm and body.**

## MOUNTING

Mounting brackets with 7/32 - 5/16" diameter holes are provided for flush mounting to the ceiling. Ensure the evaporator is located correctly with the air flowing in the two desired directions. Avoid discharging the air directly on to glass doors or door openings.

After mounting the coil **check the slope** of the drain pan with a level. If the ceiling is not level the drain pan slope may not be correct which can result in defrosting (ice-up) problems.

**DRAIN LINE**

The drain line should be run from the drain connection, sloping at least 4" vertical drop for every foot of horizontal distance. A trap outside the room will allow proper draining throughout the line. Connection should be made to proper drainage facilities that comply with local codes and regulations.

In freezers, to prevent drain line freeze up problems, the line must be heated and insulated. A heat input of 20 W per foot in a 0°F room and 30 W per foot in a -20°F room is usually satisfactory. Once the line has been completed, double check the slope in the drain pan to ensure proper drainage (prevention of ice build-up on pan).

**PIPING**

Refrigerant line sizes are important and are not necessarily the same size as the connections at the condensing unit or evaporator. If in doubt refer to a recognized source. (Manufacturer's Engineering Manual, Ashrae Manuals, etc.)

**WIRING**

Wire system in accordance with local codes and regulations. A 36" cord is provided for single fan air defrost models (AD). Multiple fans have a junction terminal box for conduit connections.

When fan delay thermostats are installed the fans may not start up until the coil temperature reaches approximately 26°F. On initial start up it may be necessary to bypass (jumper) this control temporarily until the coil is cold enough.

**SYSTEM CHECK**

**Before Start Up:**

1. Ensure wiring is in accordance with codes.
2. Refrigerant lines are properly sized and routed.
3. Thorough leak check, evacuation and dehydration has been performed.
4. Drain line has been checked for free flow.

**After Start Up:**

1. Fan has been checked for correct air flow and no obstructions.
2. Expansion valve superheat has been checked for proper operation. (Superheat of the coil should be around 5 to 6°F for a 10°F TD.)


**MAINTENANCE**

The unit should be periodically inspected for any dirt or build up on the fin surface and cleaned if necessary with a soft whisk or brush.

The fan motor is permanently lubricated and should not require service.

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

 <p><b>PRODUCT SUPPORT</b></p>	<p><i>web:</i> <a href="http://www.b-rp.ca/btl">www.b-rp.ca/btl</a> <i>email:</i> <a href="mailto:evaps@b-rp.ca">evaps@b-rp.ca</a> <i>call:</i> 1-844-893-3222 x520</p>
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# “AS BUILT” SERVICE PARTS LIST

Service Parts List  
Label  
To Be Attached  
*HERE*



Bally Refrigeration  
Morehead City, NC • Brantford, ON • Longview, TX  
1-800-242-2559 [ballysales@ballyrefboxes.com](mailto:ballysales@ballyrefboxes.com) [www.ballyrefboxes.com](http://www.ballyrefboxes.com)



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