



ASL SLIM - TEMP INSTALLATION AND MAINTENANCE MANUAL

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Inspection

When the equipment is received, the number of crates and cartons should be checked against the bill of lading for possible shortages. Any damage should be noted immediately and a report given to the carrier and the HTP factory. It is the customer's responsibility to file all freight claims with the carrier. Unit name plates should be checked to make sure voltages are in agreement with the power available.

Installation

Installation and maintenance to be performed by qualified personnel who are familiar with the local codes and regulations and who are experienced with this type of equipment. Caution: Avoid contact with sharp edges and coil surface as they are potential hazards.

The unit must be installed level for proper drainage. This rear discharge unit, draws air up through the fan blades and discharges out the coils length. Proper clearances should be maintained for proper air flow and service access to the unit as follows: 6" minimum between each coil and wall. The unit should be supported on #10 screws or 1/4" diameter bolts. To meet NSF requirements, the unit must be positioned flush with the ceiling and all gaps properly caulked.

Refrigerant Connections

Refrigerant connections should be installed in accordance with all applicable codes and using good refrigeration practices. A suction line trap must be installed prior to any risers in the suction line. Horizontal suction lines should be sloped to provide proper oil return to the compressor. Suction lines should be properly insulated to prevent sweating and higher return gas temperatures.

Drain Line

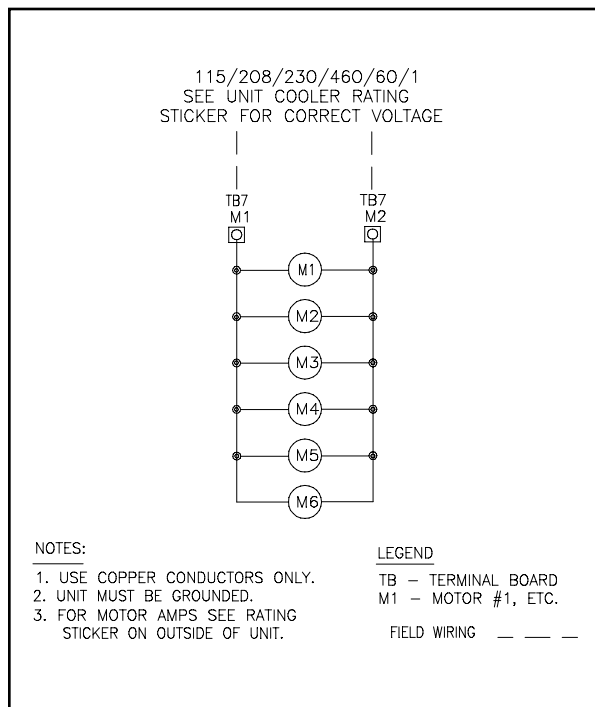
The drain line should be sharply pitched and should exit the enclosure as quickly as possible. The drain line should be insulated and sealed where it passes through the wall and trapped outside the refrigerated area and protected from freezing. In room temperatures below 34° F, the drain line should be heated and insulated.

Wiring

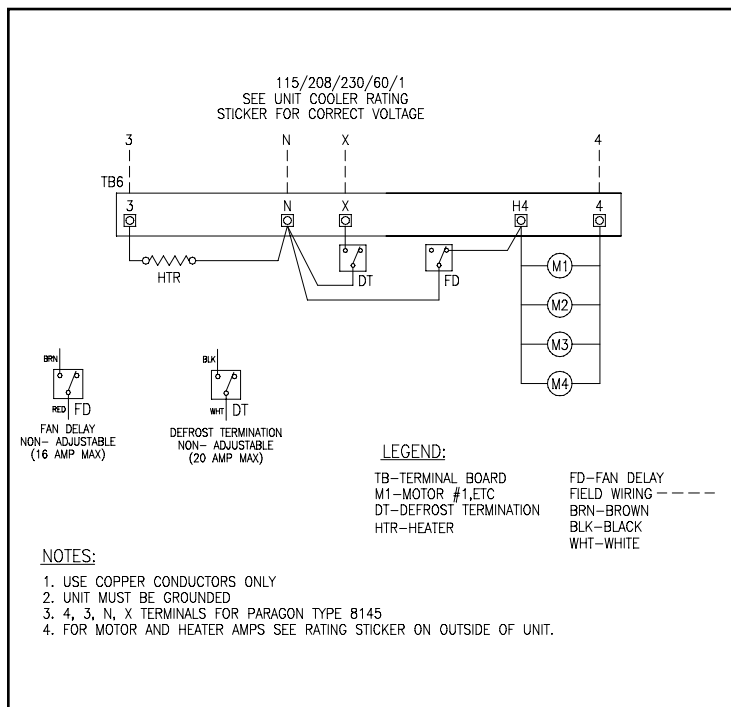
Wiring should be done in accordance with all national and local codes. Electric defrost units are supplied with a temperature sensing defrost termination switch which will terminate the defrost at a preset temperature. A fan delay switch is also provided to allow the coil to cool down prior to the fans turning on after defrost. The time clock should be adjusted to have a maximum of a 30 minute override to prevent overheating and steaming of the coils. The number of defrosts per day will be determined by the usage of the box and the frost buildup on the coils. On hot gas units, refer to the system manufacturer's recommendations.

Wiring Diagrams

Air Defrost Wiring



Electric Defrost Wiring



Expansion Valve

Expansion valves are to be installed in accordance with the specific manufacturer's recommendations. Units that require an external equalized expansion valve must have that line connected. Proper location of the bulb is extremely important to the performance of the coil. Good thermal contact to the suction line is also essential. On solder type valves, a wet cloth wrapped around the valve during installation will protect it from overheating and damage. Superheat settings should be checked after the system has balanced out at the desired room temperature. On systems sized for a 10° to 12°F TD, the valve should be adjusted to maintain 5° to 6°F superheat. Higher TD applications will allow a higher superheat setting. On multiple evaporator systems, the piping should be arranged such that the flow from any valve cannot affect the bulb of an other.

General Maintenance

General maintenance involves an occasional cleaning of dirt accumulation on the fan, fan guard or coil. The motors are life lubricated and do not require any regular maintenance.

SPECIFICATIONS — Air Defrost Models (+25°F)

Model Number	BTUH @ 10° TD	Fan Motors	CFM	Motor Amps	
				115/1	230/1
ASLA 25-48	4,800	2-16 watt	950	2.2	1.1
ASLA 25-61	6,100	2-16 watt	1,000	2.2	1.1
ASLA 35-73	7,300	3-16 watt	1,425	3.3	1.7
ASLA 45-98	9,800	4-16 watt	1,900	4.4	2.2
ASLA 55-122	12,200	5-16 watt	2,375	5.5	2.8
ASLA 65-158	15,800	6-16 watt	2,850	6.6	3.3

Connections		Dimension*		Ship Wt. (Lbs)
Liquid	Suction	A	W	
1/2 FN	7/8 ODS	39	46-3/16	83
1/2 FN	7/8 ODS	49	56-3/16	105
1/2 FN	7/8 ODS	31	69-3/16	125
1/2 FN	1-1/8 ODS	28 1/4	92-3/16	151
1/2 FN	1-1/8 ODS	36	115-3/16	185
1/2 FN	1-1/8 ODS	32 3/4	138-3/16	222

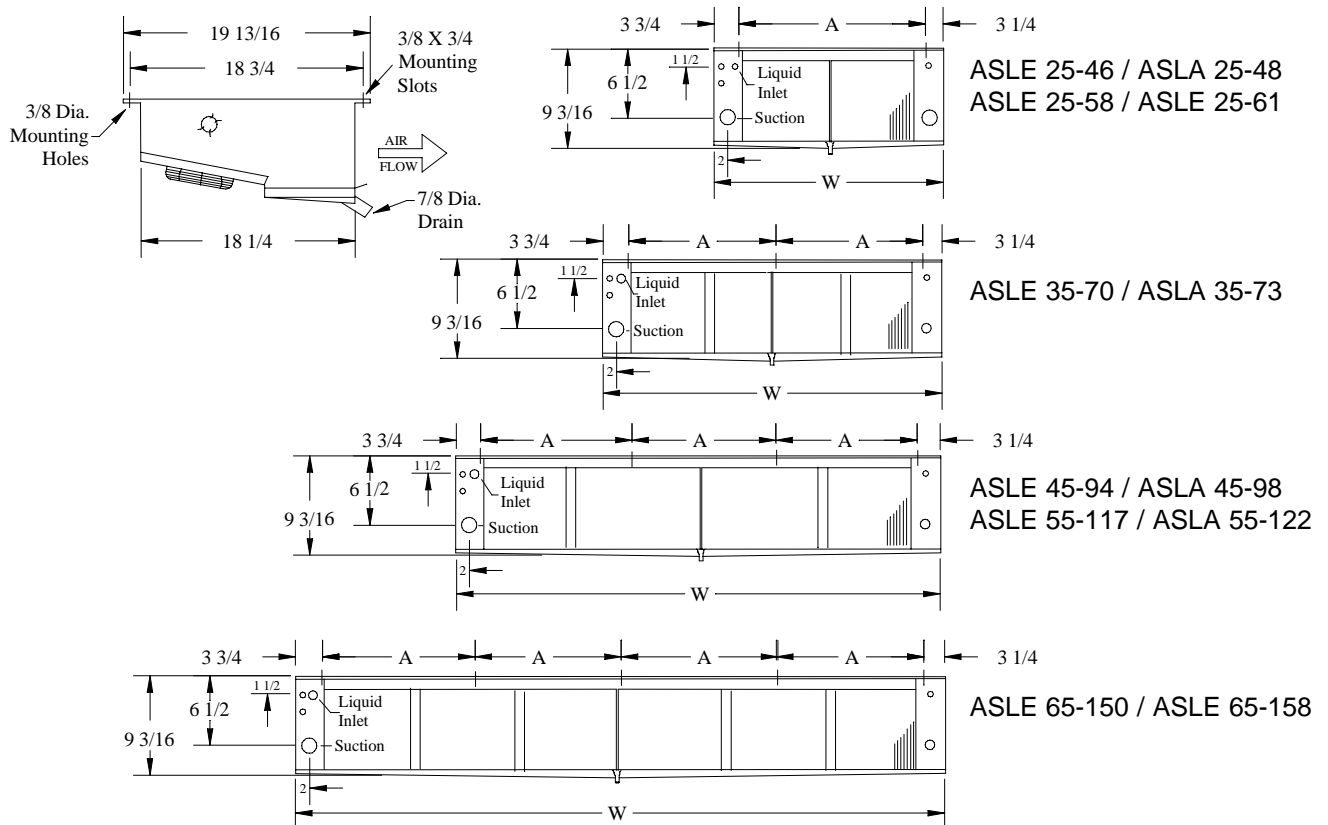
* All dimensions are in inches.

SPECIFICATIONS — Electric Defrost Models (-10°F)

Model Number	BTUH @ 10° TD	Fan Motors	CFM	Motor Amps		Defrost 230/1		Connections		Dimension*		Ship Wt. (Lbs)
				230/1	Watts	Amps	Liquid	Suction	A	W		
ASLE 25-46	4,600	2-16 watt	950	1.1	1,300	5.7	1/2 FN	7/8 ODS	39	46-3/16	83	
ASLE 25-58	5,800	2-16 watt	1,000	1.1	1,970	8.6	1/2 FN	7/8 ODS	49	56-3/16	105	
ASLE 35-70	7,000	3-16 watt	1,425	1.7	1,850	8.1	1/2 FN	7/8 ODS	31	69-3/16	125	
ASLE 45-94	9,400	4-16 watt	1,900	2.2	2,400	10.5	1/2 FN	1-1/8 ODS	28 1/4	92-3/16	151	
ASLE 55-117	11,700	5-16 watt	2,375	2.8	3,000	13.1	1/2 FN	1-1/8 ODS	36	115-3/16	185	
ASLE 65-150	15,000	6-16 watt	2,850	3.3	3,500	15.2	1/2 FN	1-1/8 ODS	32 3/4	138-3/16	222	

* All dimensions are in inches.

Air & Electric Defrost



REPLACEMENT PARTS - LISTING BY PRODUCT MODEL NUMBER

ASL MODELS

MODEL NUMBER	DESCRIPTION	PART NUMBER
ASL25-46E	DEFROST HEATERS, CORE, 1300 WATTS, 39" LENGTH, 230 V.	205221013
	DRAIN PAN, 46" LENGTH	20248901
ASL35-70E	DEFROST HEATERS, CORE, 1850 WATTS, 62" LENGTH, 230 V.	205221016
	DRAIN PAN, 69" LENGTH	20248902
ASL45-94E	DEFROST HEATERS, CORE, 1250 WATTS, 42" LENGTH, 230 V. (2 REQ'D)	205221007
	DRAIN PAN, 92" LENGTH	20248903
ASL55-117E	DEFROST HEATERS, CORE, 1600 WATTS, 54" LENGTH, 230 V. (2 REQ'D)	205221010
	DRAIN PAN, 115" LENGTH	20248904
ALL "ASL" MODELS	DEFROST CONTROL, NON-ADJUSTABLE, 3 WIRE	103079002
ALL "ASL" MODELS	HEATER SAFETY SWITCH, 2 WIRE	103079003
ALL "ASL" MODELS	FAN BLADES, 10" DIAM., 31° PITCH, CW, HUBLESS, 1/4" BORE	204395018
ALL "ASL" MODELS	FAN GUARD, WIRE, EPOXY COATED, 10"	201006002
ALL "ASL" MODELS	MOTOR, SHADED POLE, 16 WATT, 1550 RPM, 115 V.	103104007
	MOTOR, SHADED POLE, 16 WATT, 1550 RPM, 230 V.	103104008

ASLA & ASLE

ASLE 25-46	DEFROST HEATERS, CORE, 1300 WATTS, 39" LENGTH, 230 V.	205221013
	DRAIN PAN	202489001
ASLE 25-58	DEFROST HEATERS, CORE, 1970 WATTS, 48" LENGTH, 230 V.	200172026
	DRAIN PAN	202489001
ASLE 35-70	DEFROST HEATERS, CORE, 1850 WATTS, 62" LENGTH, 230 V.	205221016
	DRAIN PAN	202489002
ASLE 45-94	DEFROST HEATERS, CORE, 1250 WATTS, 42" LENGTH, 230 V. (2 REQ'D)	205221007
	DRAIN PAN	202489003
ASLE55-117	DEFROST HEATERS, CORE, 1600 WATTS, 54" LENGTH, 230 V. (2 REQ'D)	205221010
	DRAIN PAN	202489004
ALL "ASL" MODELS	DEFROST CONTROL, DEFROST TERMINATION, (TIMER RESET) 2 WIRE	103079010
ALL "ASL" MODELS	DEFROST CONTROL, FAN DELAY, 2 WIRE	103079009
ALL "ASLE" MODELS	HEATER SAFETY SWITCH, 2 WIRE	103079003
ALL "ASL" MODELS	FAN BLADES, 10" DIAM., 31° PITCH, CW, HUBLESS, 1/4" BORE	204395018
ALL "ASL" MODELS	FAN GUARD, WIRE, EPOXY COATED, 10"	201006002
ALL "ASL" MODELS	MOTOR, SHADED POLE, 16 WATT, 1550 RPM, 115 V.	103104007
	MOTOR, SHADED POLE, 16 WATT, 1550 RPM, 230 V.	103104008