Russell

SLIM TEMP
UNIT COOLER

Low and Medium Temperature Small Walk-in Coolers, Freezers & Display Cases

Air Defrost

4,800 to 17,300 BTUH

Electric Defrost

4,600 to 16,200 BTUH

FEATURES

The Slim-Temp ALSA/ASLE Unit Coolers are compact and versatile products that are designed for cooling small walk-in coolers and freezers and display cases. Units feature smaller diameter tubing that reduces total refrigerant charge, energy-efficient EC motors that are IP67 rated to protect against dust, sand and water, and the slim profile maximizes available shelf space. Units are available with air or electric defrost, for low or medium temperature applications.

FEATURES AND OPTIONS

● Standard ○ Optional

DESCRIPTION	MEDIUM & LOW TEMPERATURE
Models meet DOE AWEF performance and California Title 24 regulations	●
Dual Speed EC Motors	●
All models require externally equalized Thermostatic expansion valves	●
ASLA capacity ratings at +25°F evaporator temperature	●
ASLE capacity ratings at -10°F evaporator temperature.	●
All Aluminum low silhouette housing	●
Fan motors are totally enclosed, permanently lubricated and thermally protected	●
Electrical connection made at internal terminal blocks located at end opposite refrigerant connections for easier installation	●
UL & cUL listed	●
NSF approved	●
Protective Russ-Proof epoxy coil coating extends the life of the coil	○

MODEL NOMENCLATURE

ASL	A	2	5	061	A	D	A
Style	Defrost Type	Number of Fans	Fins Per Inch	BTUH in Hundreds	Unit Voltage	Motor Type	Vintage
Slim-Temp Display Case	A = Air E = Electric Defrost	2 - 6 Fans	6 FPI	XXX	A - 115/1/60 D - 208-230/1/60	D - Dual Speed EC	

APPLICATION RATING & ELECTRICAL DATA // ALL MODELS

AIR DEFROST MODELS

Model No.	BTUH Capacity @ 25°F SST & 10°F TD		CFM	No. of Fans	Total Fan Motor AMPS Dual Speed EC		MCA	MOPD
	R404A	R407A/ R448A/ R449A/B			115V/1	208-230V/1		
ASLA25048*DA	4,800	5,100	950	2	1.2	0.6	15.0	20
ASLA25061*DA	6,100	6,500	1,000	2	1.2	0.6	15.0	20
ASLA35073*DA	7,300	7,700	1,425	3	1.8	0.9	15.0	20
ASLA45098*DA	9,800	10,700	1,900	4	2.4	1.2	15.0	20
ASLA55122*DA	12,200	13,300	2,375	5	3.0	1.5	15.0	20
ASLA65158*DA	15,800	17,300	2,850	6	3.6	1.8	15.0	20

* Asterisk represents a variable character based on voltage ordered. See nomenclature page for details.

ELECTRIC DEFROST MODELS

Model No.	BTUH Capacity @ -10°F SST & 10°F TD		CFM	No. of Fans	Total Fan Motor AMPS Dual Speed EC			Heaters	
	R404A	R407A/ R448A/ R449A/B			208-230V/1	MCA^	MOPD^	Amps	Watts
ASLE25046DDA	4,600	5,000	950	2	0.6	15.0	20	5.7	1,300
ASLE25058DDA	5,800	6,300	1,000	2	0.6	15.0	20	8.6	1,970
ASLE35070DDA	7,000	7,600	1,425	3	0.9	15.0	20	8.0	1,850
ASLE45094DDA	9,400	10,100	1,900	4	1.2	15.0	20	10.9	2,500
ASLE55117DDA	11,700	12,600	2,375	5	1.5	15.0	20	13.9	3,200
ASLE65150DDA	15,000	16,200	2,850	6	1.8	15.0	20	16.0	3,700

^ MCA/MOPD represents motor circuit since defrost heaters are powered via condensing unit.
Air Defrost Models show selection at +25°F suction. Electric Defrost Models how selection at -10°F suction.

DISTRIBUTOR NOZZLES & EXPANSION VALVES // ALL MODELS

Model No.	R404A				R407A/ R448A/ R449A/B				No. of Circuits
	Nozzle @ 100°F Liquid	TXV	EEV	LSV	Nozzle @ 100°F Liquid	TXV	EEV	LSV	
ASLA25048*DA	1/2	SBFSE-AA-C	SER-A	E3	1/2	SBFDE-AA-C	SER-AA	E3	2
ASLA25061*DA	3/4	SBFSE-A-C	SER-A	E3	3/4	SBFDE-AA-C	SER-A	E3	2
ASLA35073*DA	3/4	SBFSE-A-C	SER-A	E3	3/4	SBFDE-AA-C	SER-A	E3	3
ASLA45098*DA	1	SBFSE-A-C	SER-B	E3	1	SBFDE-A-C	SER-A	E3	4
ASLA55122*DA	1-1/2	SBFSE-A-C	SER-B	E3	1-1/2	SBFDE-A-C	SER-B	E3	6
ASLA65158*DA	2	SBFSE-B-C	SER-B	E5	1-1/2	SBFDE-B-C	SER-B	E5	6
ASLE25046DDA	3/4	SBFSE-AA-Z	SER-A	E3	3/4	SBFDE-AA-Z	SER-AA	E3	3
ASLE25058DDA	1	SBFSE-A-Z	SER-A	E3	3/4	SBFDE-A-Z	SER-A	E3	3
ASLE35070DDA	1-1/2	SBFSE-A-Z	SER-A	E3	1	SBFDE-A-Z	SER-A	E3	4
ASLE45094DDA	1-1/2	SBFSE-A-Z	SER-B	E3	1-1/2	SBFDE-A-Z	SER-A	E3	6
ASLE55117DDA	2	SBFSE-A-Z	SER-B	E5	1-1/2	SBFDE-B-Z	SER-B	E5	6
ASLE65150DDA	2-1/2	SBFSE-B-Z	SER-B	E5	2	SBFDE-B-Z	SER-B	E5	6

* Asterisk represents a variable character based on voltage ordered. See nomenclature page for details.
Air Defrost Models show selection at +25°F suction. Electric Defrost Models how selection at -10°F suction.
Distributor tubes are 3/16" diameter and 18" long.

SPECIFICATIONS // ALL MODELS

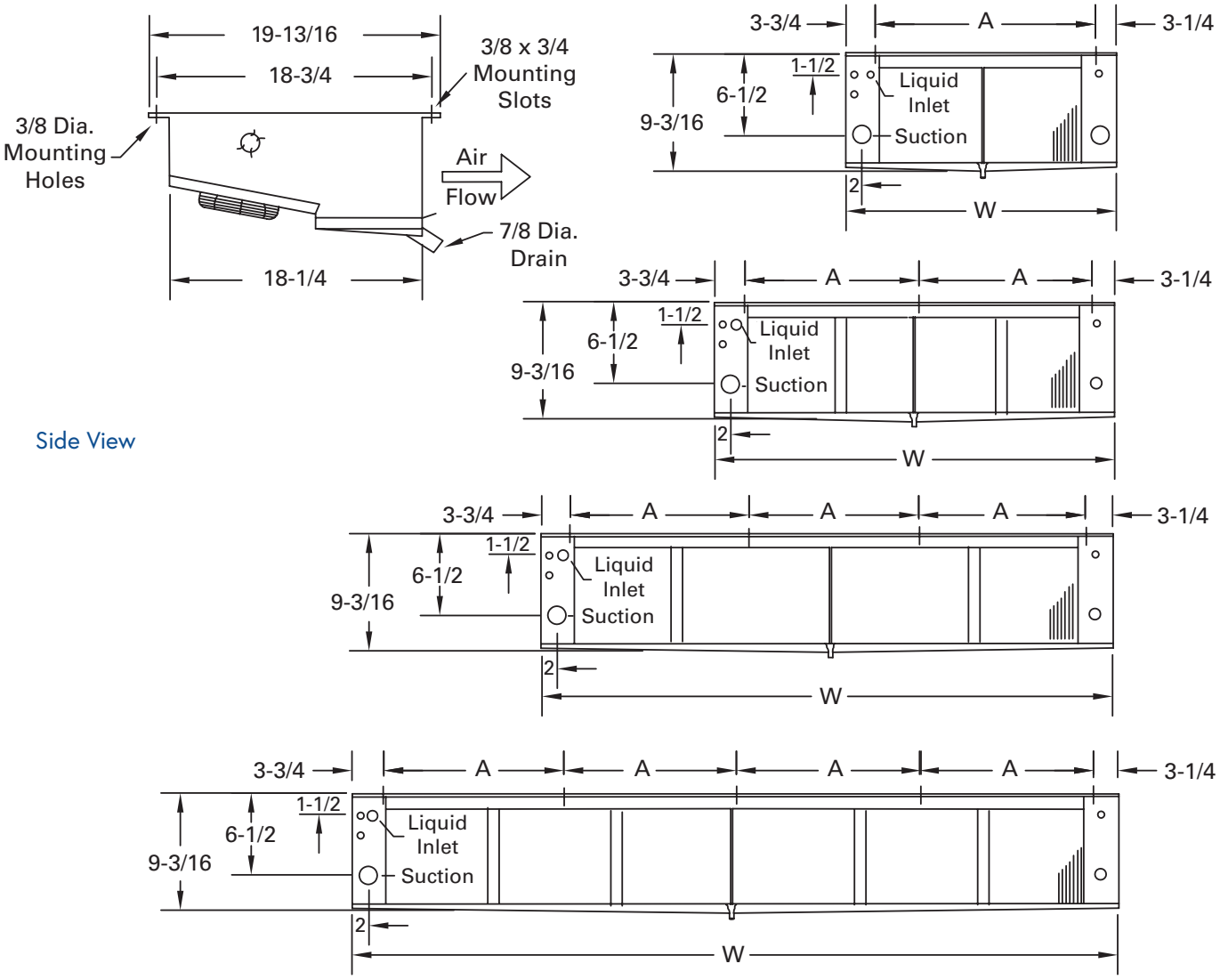
Model No.	Refrigerant Connections		Figure No.	Dimension (Inches)				Approx. Ship Wt. (Lbs.)
	Liquid Line	Suction Line		Width	Length (W)	Height	Between Mounts (A)	
ASLA25048*DA	1/2	7/8	1	19-13/16	46-3/16	9-3/16	39	83
ASLA25061*DA	1/2	7/8	1	19-13/16	56-3/16	9-3/16	49	105
ASLA35073*DA	1/2	7/8	2	19-13/16	69-3/16	9-3/16	31	125
ASLA45098*DA	1/2	1-1/8	3	19-13/16	92-3/16	9-3/16	28-1/4	151
ASLA55122*DA	1/2	1-1/8	3	19-13/16	115-3/16	9-3/16	36	185
ASLA65158*DA	1/2	1-1/8	4	19-13/16	138-3/16	9-3/16	32-3/4	222
ASLE25046DDA	1/2	7/8	1	19-13/16	46-3/16	9-3/16	39	83
ASLE25058DDA	1/2	7/8	1	19-13/16	56-3/16	9-3/16	49	105
ASLE35070DDA	1/2	7/8	2	19-13/16	69-3/16	9-3/16	31	125
ASLE45094DDA	1/2	1-1/8	3	19-13/16	92-3/16	9-3/16	28-1/4	151
ASLE55117DDA	1/2	1-1/8	3	19-13/16	115-3/16	9-3/16	36	185
ASLE65150DDA	1/2	1-1/8	4	19-13/16	138-3/16	9-3/16	32-3/4	222

* Asterisk represents a variable character based on voltage ordered. See nomenclature page for details.
All dimensions are in inches.
Distributor tubes are 3/16" diameter and 18" long.

DIMENSIONAL DRAWINGS

Figure 1

Bottom View



Side View

All dimensions are in inches.
Distributor tubes are 3/16" diameter and 18" long.

EVAPORATOR APPLICATION RATINGS

Multiple conditions combine to determine the application capacity of an evaporator. Walk-in space temperature, relative humidity, saturated suction temperature difference, and outdoor ambient temperature. All of the factors are considered when calculating an evaporator application rating. These ratings are considerably higher than the net capacity value used for DOE ratings (AWEF).

The AWEF of an evaporator is calculated using the dry coil capacity and the daily evaporator power consumption. Power consumption included fan and defrost power. Evaporator net capacity reported to the DOE database is dry coil capacity less the full power fan watts. DOE test conditions are at 10°F evaporator/SST temperature difference and less than 50% relative humidity and 96°F liquid temperature. These conditions create a uniform test method, but should not be used for equipment selection. The equipment selected would be too large for the application.

Published application ratings are a guideline for proper equipment selection. They account for true operating conditions experienced by equipment.

DEPARTMENT OF ENERGY ANNUAL WALK-IN ENERGY FACTOR (AWEF) RATINGS

COOLER AND FREEZER MODELS

Base Model No.	Defrost Type	AWEF
COOLER MODELS[1]		
ASLA25048*DA	Air Defrost	9.00
ASLA25061*DA	Air Defrost	9.00
ASLA35073*DA	Air Defrost	9.00
ASLA45098*DA	Air Defrost	9.00
ASLA55122*DA	Air Defrost	9.00
ASLA65158*DA	Air Defrost	9.00
ASLE25046DDA	Electric Defrost	9.00
ASLE25058DDA	Electric Defrost	9.00
ASLE35070DDA	Electric Defrost	9.00
ASLE45094DDA	Electric Defrost	9.00
ASLE55117DDA	Electric Defrost	9.00
ASLE65150DDA	Electric Defrost	9.00

Base Model No.	Defrost Type	AWEF
FREEZER MODELS[2]		
ASLE25046DDA	Electric Defrost	3.99
ASLE25058DDA	Electric Defrost	3.99
ASLE35070DDA	Electric Defrost	4.02
ASLE45094DDA	Electric Defrost	4.07
ASLE55117DDA	Electric Defrost	4.09
ASLE65150DDA	Electric Defrost	4.12

* Asterisk represents a variable character based on voltage ordered. See nomenclature page for details.

[1] If the model has a numerical value in the AWEF table, the following statement applies:
"The refrigeration system is designed and certified for use in walk-in cooler applications."

[2] If the model has a numerical value in the AWEF table, the following statement applies:
"The refrigeration system is designed and certified for use in walk-in freezer applications."

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