

ASLA/ASLE SLIM-TEMP UNIT COOLER

Russell

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

2021

DEALER DESIGN AWARDS

Air Defrost 4,800 to 17,300 BTUH

Electric Defrost 4,600 to 16,200 BTUH



SLIM-TEMP

Features

The Slim-Temp ALSA / ASLE Unit Coolers are compact and versatile products that are designed for cooling small walkin 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.

Standard Features

- 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

Optional Features

• Protective Russ-Proof epoxy coil coating extends the life of the coil

CONFIGURABLE BASE MODEL											
ASL	Α	2	5	061	А	D	Α				
Slim-Temp Display Case	Defrost Type	Number of Fans	Fins Per Inch	BTUH in Hundreds	Unit Voltage	Motor Type	Revision				
	A - Air E - Electric	2 - 6 fans			A - 115/1/60 D - 208-230/1/60	D - Dual Speed EC					

MODEL NUMBER NOMENCLATURE

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.

Russell's published application ratings are a guideline for proper equipment selection. They account for true operating conditions experienced by equipment.

Application Rating and Electrical Data - Air Defrost Models

	BTU			Dual Speed EC Motors					
Model	@ 25°F S	CFM	No. of	Tota	al Amps				
Number	R404A	R407A/ R448A/ R449A/B		Fans	115V/1	208-230V/1	MCA	MOPD	
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	

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DISPLAY CASE UNIT COOLER

		Capacity PF S.T. &			Dual Spee	Usstava			
Model	۳-10 10°		No.	Total Amps			Heaters		
Number	R404A	R407A/ R448A/ R449A/B	CFM	of Fans	208-230V/1	MCA^	MOPD^	Amps Watt	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

Application Rating and Electrical Data - Electric Defrost Models

Distributor Nozzle and Expansion Valves - All Models

	Part Numbers											
Model		R404A			R40	No.						
Number	Nozzle @ 100°F Liquid	тхv	EEV	LSV	Nozzle @ 100°F Liquid	тхv	EEV	LSV	of Circuits			
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			

Specifications - All Models

Model Number	Refrigerant Connections		Figure		Approx.			
	Liquid Line	Suction Line	Number	Width	Length (W)	Height	Between Mounts (A)	Ship Wt. (Lbs.)
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

^ MCA/MOPD represents motor circuit since defrost heaters are powered via condensing unit. * All dimensions are in inches. 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.

SLIM-TEMP

Specifications - AWEF Ratings - All Models

Department of Energy Annual Walk-In Energy Factor (AWEF) Rating											
Base Model Number	AWEF		Base Model Number	AWEF		Base Model Number	AWEF				
Cooler Models ¹ - Air Defrost Cooler Models ¹ - Electric						Freezer Models ² - Elec	tric Defrost				
ASLA25048*DA	9.00		ASLE25046DDA	9.00		ASLE25046DDA	3.99				
ASLA25061*DA	9.00		ASLE25058DDA	9.00		ASLE25058DDA	3.99				
ASLA35073*DA	9.00		ASLE35070DDA	9.00		ASLE35070DDA	4.02				
ASLA45098*DA	9.00		ASLE45094DDA	9.00		ASLE45094DDA	4.07				
ASLA55122*DA	9.00		ASLE55117DDA	9.00		ASLE55117DDA	4.09				
ASLA65158*DA	9.00		ASLE65150DDA	9.00		ASLE65150DDA	4.12				

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."



 Russell

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