

REF PLUS[®]

REACH-IN UNIT COOLERS

Top mounted single flow
units from 1000 to 5500
Btu/hr/10°F T.D.

ESA Models for coolers
above +34°F

ESE Models for coolers
and freezers from
-20°F to +34°F



Top mounted dual flow
units from 1000 to
3300 Btu/hr/10°F T.D.

EDA Models for coolers
above +34°F



Top or wall mounted
compact units from 1000
to 1500 Btu/hr/10°F TD

ECA Models for coolers
above +34°F

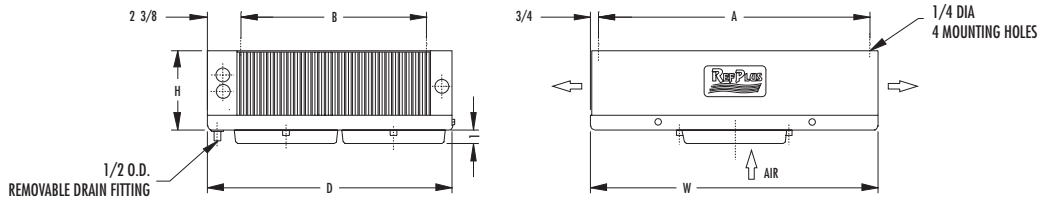


Wall or mullion mounted
units from 1300 to
2300 Btu/hr/10°F TD

EWA Models for coolers
above +34°F



EDA

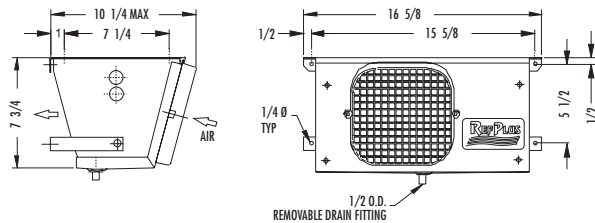


FOR COOLERS ABOVE +34°F

AIR DEFROST

MODEL	CFM	CAPACITY BTU/H				FAN MOTORS 120V		UNIT DIMENSIONS INCHES					CONNECTIONS		R-134A OPERATING CHARGE LBS	SHIPPING WEIGHT LBS
		8°F _{TD}	10°F _{TD}	12°F _{TD}	15°F _{TD}	QTY	FLA	W	H	D	A	B	LIQ. F.N.	SUCT. O.D.		
EDA102-1	195	800	1000	1200	1500	1	0.7	18 1/8	3 1/2	14 1/8	17	10	1/2	3/8	0.3	11.5
EDA132-1	185	1040	1300	1560	1950	1	0.7	18 1/8	3 1/2	14 1/8	17	10	1/2	3/8	0.4	12.5
EDA152-1	245	1200	1500	1800	2250	1	0.7	18 1/8	4 1/2	14 1/8	17	10	1/2	3/8	0.4	13.0
EDA182-1	225	1440	1800	2160	2700	1	0.7	18 1/8	4 1/2	14 1/8	17	10	1/2	3/8	0.6	14.0
EDA232-1	505	1840	2300	2760	3450	2	1.4	20 1/8	5 1/2	17 1/8	19	13	1/2	3/8	0.5	17.0
EDA282-1	450	2240	2800	3360	4200	2	1.4	20 1/8	5 1/2	17 1/8	19	13	1/2	3/8	0.7	18.5
EDA332-1	430	2640	3300	3960	4950	2	1.4	20 1/8	5 1/2	17 1/8	19	13	1/2	3/8	0.9	20.0

ECA

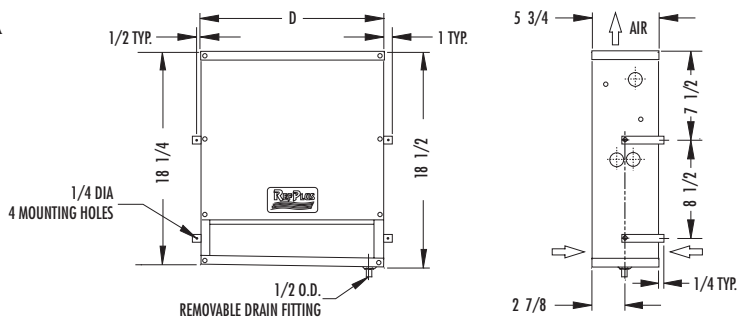


FOR COOLERS ABOVE +34°F

AIR DEFROST

MODEL	CFM	CAPACITY BTU/H				FAN MOTORS 120V		CONNECTIONS		R-134A OPERATING CHARGE LBS	SHIPPING WEIGHT LBS
		8°F _{TD}	10°F _{TD}	12°F _{TD}	15°F _{TD}	QTY	FLA	LIQ. F.N.	SUCT. O.D.		
ECA100-1	220	800	1000	1200	1500	1	0.7	1/2	3/8	0.3	10.5
ECA130-1	200	1040	1300	1560	1950	1	0.7	1/2	3/8	0.4	11.5
ECA150-1	190	1200	1500	1800	2250	1	0.7	1/2	3/8	0.6	12.5

EWA



FOR COOLERS ABOVE +34°F

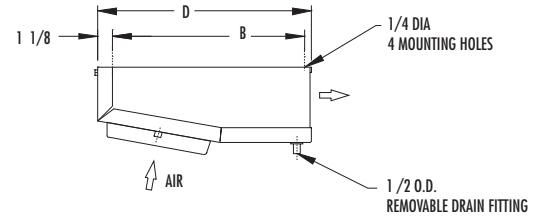
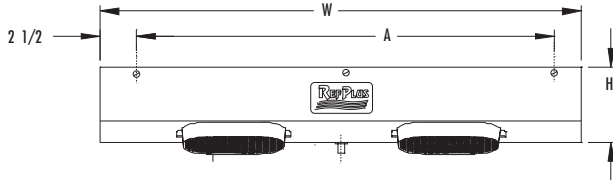
AIR DEFROST

MODEL	CFM	CAPACITY BTU/H				FAN MOTORS 120V		UNIT DIM. INCHES D	CONNECTIONS		R-134A OPERATING CHARGE LBS	SHIPPING WEIGHT LBS
		8°F _{TD}	10°F _{TD}	12°F _{TD}	15°F _{TD}	QTY	FLA		LIQ. F.N.	SUCT. O.D.		
EWA130-1	220	1040	1300	1560	1950	1	0.7	15 3/4	1/2	3/8	0.4	13.0
EWA180-1	200	1440	1800	2160	2700	1	0.7	15 3/4	1/2	3/8	0.6	14.0
EWA230-1	380	1840	2300	2760	3450	2	1.4	21 3/4	1/2	3/8	0.9	17.0

- Operating charge are based on 30% liquid, 70% vapor at 25°F suction
- Use R-134 chart for R-22

- Use suffix 1 for 120/1/60, suffix 2 for 240/1/60.
- For 200-220/1/50 use suffix 2 and multiply capacity by 0.92

ESA
ESE



FOR COOLERS ABOVE +34°F

AIR DEFROST

MODEL	CFM	CAPACITY BTU/H				FAN MOTORS		UNIT DIMENSIONS					CONNECTIONS		R-134A OPERATING CHARGE LBS	SHIPPING WEIGHT LBS
		8°F _{TD}	10°F _{TD}	12°F _{TD}	15°F _{TD}	QTY	FLA	INCHES					LIQ. F.N.	SUCT. O.D.		
ESA102-1	195	800	1000	1200	1500	1	0.7	17 1/4	4 1/2	15	13	13 1/4	1/2	3/8	0.4	9.0
ESA132-1	185	1040	1300	1560	1950	1	0.7	17 1/4	4 1/2	15	13	13 1/4	1/2	3/8	0.5	10.0
ESA152-1	195	1200	1500	1800	2250	1	0.7	21 3/4	4 1/2	15	17 1/2	13 1/4	1/2	3/8	0.6	11.5
ESA182-1	225	1440	1800	2160	2700	1	0.7	25 3/4	4 1/2	15	21 1/2	13 1/4	1/2	3/8	0.7	13.0
ESA232-1	395	1840	2300	2760	3450	2	1.4	33 3/4	4 1/2	15	29 1/2	13 1/4	1/2	3/8	0.8	17.0
ESA282-1	385	2240	2800	3360	4200	2	1.4	33 3/4	4 1/2	15	29 1/2	13 1/4	1/2	3/8	0.9	18.5
ESA332-1	420	2640	3300	3960	4950	2	1.4	33 3/4	5 1/2	15	29 1/2	13 1/4	1/2	3/8	1.2	20.0
ESA452-1	625	3600	4500	5400	6750	3	2.1	43 3/4	5 1/2	17	39 1/2	15 1/4	1/2	1/2	1.5	27.5
ESA552-1	615	4400	5500	6600	8250	3	2.1	43 3/4	5 1/2	17	39 1/2	15 1/4	1/2	1/2	1.8	32.5

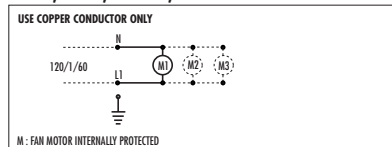
FOR COOLERS AND FREEZERS FROM -20°F TO +34°F

ELECTRIC DEFROST

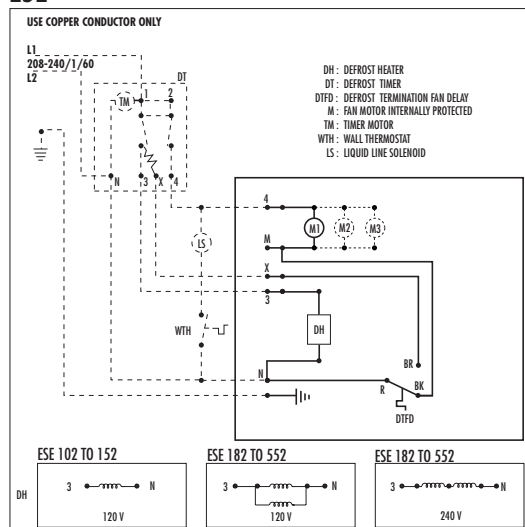
MODEL	CFM	CAPACITY BTU/H			FAN MOTORS			HEATERS			UNIT DIMENSIONS					CONNECTIONS		R-134A OPERATING CHARGE LBS	SHIPPING WEIGHT LBS
		-20°F	0°F	+20°F	QTY	120V FLA	240V FLA	KW	FLA		INCHES					LIQ. F.N.	SUCT. O.D.		
ESE102-1	195	850	925	1000	1	0.7	NA	0.64	5.3	NA	17 1/4	4 1/2	15	13	13 1/4	1/2	3/8	0.6	9.0
ESE132-1	185	1105	1203	1300	1	0.7	NA	0.64	5.3	NA	17 1/4	4 1/2	15	13	13 1/4	1/2	3/8	1.0	10.0
ESE152-1	195	1275	1388	1500	1	0.7	NA	0.80	6.7	NA	21 3/4	4 1/2	15	17 1/2	13 1/4	1/2	3/8	1.3	11.5
ESE182-1(1)(2)	225	1530	1665	1800	1	0.7	0.42	0.96	8.0	4.0	25 3/4	4 1/2	15	21 1/2	13 1/4	1/2	3/8	1.0	13.0
ESE232-1(1)(2)	395	1955	2128	2300	2	1.4	0.84	1.28	10.7	5.3	33 3/4	4 1/2	15	29 1/2	13 1/4	1/2	3/8	1.5	17.0
ESE282-1(1)(2)	385	2380	2590	2800	2	1.4	0.84	1.28	10.7	5.3	33 3/4	4 1/2	15	29 1/2	13 1/4	1/2	3/8	2.0	18.5
ESE332-1(1)(2)	420	2805	3053	3300	2	1.4	0.84	1.28	10.7	5.3	33 3/4	5 1/2	15	29 1/2	13 1/4	1/2	3/8	2.5	20.0
ESE452-1(1)(2)	625	3825	4163	4500	3	2.1	1.26	1.60	13.3	6.7	43 3/4	5 1/2	17	39 1/2	15 1/4	1/2	3/8	2.9	27.5
ESE552-1(1)(2)	615	4675	5088	5500	3	2.1	1.26	1.60	13.3	6.7	43 3/4	5 1/2	17	39 1/2	15 1/4	1/2	3/8	3.6	32.5

WIRING DIAGRAMS
AIR AND ELECTRIC DEFROST

EDA, ECA, EWA, ESA



ESE



REACH-IN UNIT COOLERS

APPLICATIONS:

- **ESA, EDA ECA** and **EWA** Models are for coolers +34°F and above.
- **ESE** Models are for coolers and freezers ranging from -20 to 34°F and above.

ESA, ESE and **ECA** models are a single coil construction for an air distribution directed towards the back of the cooler or the freezer. Fans draw air through the fan guards and discharge it through the evaporator coil on the back of the unit.

EDA models are a dual coil construction for an equal air distribution on both sides of the unit. The fans draw air upward through the fan guards and discharge it through each evaporator coils.

EWA models are a single coil construction for either up or down air flow and can be wall or mullion mounted. Standard configuration is up flow and can be field modified to down flow.

ECA Models can be top or wall mounted and **ESA, EDA** and **ESE** models are top mounted

Coils are manufactured with seamless deoxidised heavy wall smooth copper tubes and aluminum plate fins. For a maximum heat transfer, tubes are mechanically expanded into self spaced plate fins with full collar for a permanent bond. Connections and bends are brazed with high temperature brazing alloy. Coils are factory leak tested at 400 psig and purged with a -40°F dew point dry air. Coils are circuited for HCFC and HFC refrigerant.

The reach-in unit cooler casings are heavy gauge texture aluminum with stainless steel or plated hardware for a light weight and corrosion free assembly.

All units are provided with a removable 1/2" O.D. aluminum drain fitting for easier installation and cleaning.

Heavy duty fan motors are provided for long life and dependable service. They are Permanently lubricated and thermally protected. They are available for 120/1/60 or 208-240/1/60. Note: 208/240/1/60 volt motors can be used for 200-220/1/50.

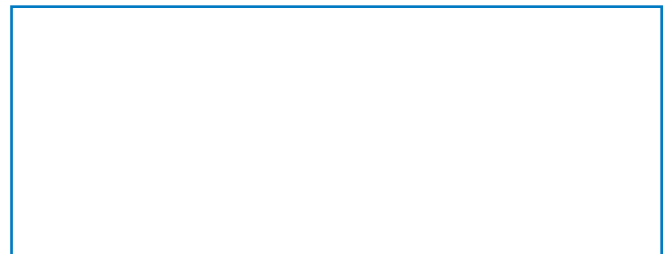
For full protection of moving parts, fan blades and fan guards are injection moulded polymer for corrosion protection and for consistency of dimensions.

All models are provided with terminal block for easier field wiring. Terminals are clearly identified to match wiring diagram supplied with the unit.

ESE models are provided with a sealed non-adjustable fan delay/defrost termination thermostat. All units use incoloy, low watt density, tubular heaters for a positive defrost.

All reach-in coolers are of modular design. Using a minimum of different parts to simplify replacement and to reduce inventory.

Specifications are subject to change without notice.



RCH08-98-R2-5K

Head Office: 1385 A, De Coulomb, Boucherville (Qc) Canada J4B 7L8
Tel.: (450) 641-2665 • Fax: (450) 641-4554 • Toll Free: 1-888-816-2665

Internet: www.refplus.com