



Supersedes all earlier versions

LIST PRICES

April, 2018

All products, except surface coils and parts, are shipped F.O.B. point of shipment with full freight allowed on single orders with a net price value of \$10,000 or more, within the continental USA (excluding Alaska and Hawaii). Buyer will bear all additional costs for special routing or handling requests. See page 44 additional freight instructions.

Table with 2 columns: Product Category and Page. Categories include Reach-In Unit Coolers, Walk-In Unit Coolers, Condensing Units, and Air Cooled Condensers.

Due to ongoing product development, specification and prices are subject to change without notice.

TELEPHONE (256) 259-7400
FAX ORDER HOTLINE (256) 259-7478

Call or email us for help with replacement parts at: parts@htpgusa.com

ASL SPECIAL UNIT COOLERS

COOLER APPLICATION - AIR DEFROST

AIR DEFROST MODEL NUMBER	EC MOTORS	PSC MOTORS	SP MOTORS	RUSS PROOF MODEL NUMBER	RUSS PROOF COIL w/ ECM	RUSS PROOF COIL w/ PSC	RUSS PROOF COIL w/ SP	DIMENSIONS			SHIP WT. (LBS)
	115 or 230V	115V only	115 or 230V		115 or 230V	115 or 230V	115V only	115 or 230V	HT (IN)	LT (IN)	
ASLA 25-48	\$3,151	\$2,330	\$2,223	ASLA 25-48RP	\$4,215	\$3,497	\$3,128	9-3/16	46-3/16	19-3/16	83
ASLA 25-61	3,243	2,666	2,273	ASLA 25-61RP	4,278	3,544	3,209	9-3/16	56-3/16	19-3/16	105
ASLA 35-73	3,477	2,717	2,325	ASLA 35-73RP	4,607	3,717	3,260	9-3/16	69-3/16	19-3/16	125
ASLA 45-98	4,176	3,209	2,711	ASLA 45-98RP	5,249	4,173	3,752	9-3/16	92-3/16	19-3/16	151
ASLA 55-122	4,896	3,707	3,094	ASLA 55-122RP	5,975	4,686	4,207	9-3/16	115-3/16	19-3/16	185
ASLA 65-158	5,563	4,159	3,438	ASLA 65-158RP	6,720	5,211	4,642	9-3/16	138-3/16	19-3/16	222

Specify voltage when ordering - add an "A" for 115V and "D" for 230V. See example below.
230V PSC motors are not available for ASLA or ASLE models



For normal and low temperature glass display and solid door uprights, walk-ins salad boxes and back bars from 4,600 to 15,800 BTUH.

FREEZER APPLICATION - ELECTRIC DEFROST

ELECTRIC DEFROST MODEL NUMBER	230V EC MOTORS 230V1 HEATERS	230V/1 w/ SP MOTORS and 230V1 HEATERS	DIMENSIONS			SHIP WT. (LBS)
			HT (IN)	LT (IN)	DP (IN)	
ASLE 25-46	\$3,370	\$2,507	9-3/16	46-3/16	19-3/16	83
ASLE 25-58	\$3,527	2,581	9-3/16	56-3/16	19-3/16	105
ASLE 35-70	\$3,791	2,701	9-3/16	69-3/16	19-3/16	125
ASLE 45-94	\$4,547	3,372	9-3/16	92-3/16	19-3/16	151
ASLE 55-117	\$5,293	4,146	9-3/16	115-3/16	19-3/16	185
ASLE 65-150	\$6,004	4,522	9-3/16	138-3/16	19-3/16	222

\$319 List adder for adjustable termination/fan delay control in lieu of a fixed controls.
230V PSC motors are not available for ASLA or ASLE models

SLIM TEMP UNIT COOLERS

Space saving design for reach-ins, salad bars, back bars, etc. from 900 to 7,000 BTUH.



COOLER APPLICATION

MODEL NUMBER	UNCOATED CORE		RUSS PROOF MODEL NO.	RUSS PROOF COIL		DIMENSIONS			SHIP WT. (LBS)
	115V	230V		115V	230V	HT (IN)	LT (IN)	DP (IN)	
SLA 17-10	\$664	\$694	SLA 17-10RP	\$731	\$768	4-3/4	16-1/2	13-1/2	15
SLA 17-13	854	919	SLA 17-13RP	920	985	4-3/4	20-1/2	13-1/2	18
SLA 27-17	1,002	1,075	SLA 27-17RP	1,051	1,123	4-3/4	24	14-1/2	22
SLA 27-23	1,250	1,307	SLA 27-23RP	1,340	1,400	4-3/4	31-1/2	14-1/2	29
SLA 37-30	1,529	1,657	SLA 37-30RP	1,652	1,766	4-3/4	40	14-1/2	37
SLA 47-40	2,084	2,248	SLA 47-40RP	2,221	2,376	4-3/4	53-1/2	14-1/2	45
SLA 57-50	2,694	2,875	SLA 57-50RP	2,858	3,034	6-3/4	53-1/2	14-1/2	61

Specify voltage when ordering - add an "A" for 115V and "D" for 230V.

No EC or PSC motors for SLA models.

FREEZER APPLICATION - ELECTRIC DEFROST

MODEL NUMBER	SINGLE SPEED EC MOTORS		SHADED POLE MOTORS		DIMENSIONS			SHIP WT. (LBS)
	115V	230 V	115V	230V	HT (IN)	LT (IN)	DP (IN)	
SLE 15-9	N/A	N/A	\$1,097	\$1,097	4-3/4	16-1/2	13-1/2	16
SLE 15-12	N/A	N/A	1,318	1,318	4-3/4	20-1/2	13-1/2	19
SLE 25-16	N/A	N/A	1,646	1,646	4-3/4	24	14-1/2	23
SLE 25-21	\$3,030	\$3,030	1,860	1,860	6-3/4	24	15-1/2	31
SLE 25-28	3,431	3,431	2,297	2,297	6-3/4	31-1/2	15-1/2	39
SLE 35-36	4,305	4,305	2,587	2,587	6-3/4	38-1/2	15-1/2	48
SLE 45-54	5,852	5,852	3,583	3,583	6-3/4	48-1/4	16-1/2	70
SLE 35-70	N/A	6,286	N/A	4,514	6-3/4	76-1/2	20-1/2	105

Specify voltage when ordering

\$319 List adder for adjustable termination/fan delay control in lieu of a fixed controls on defrost models.

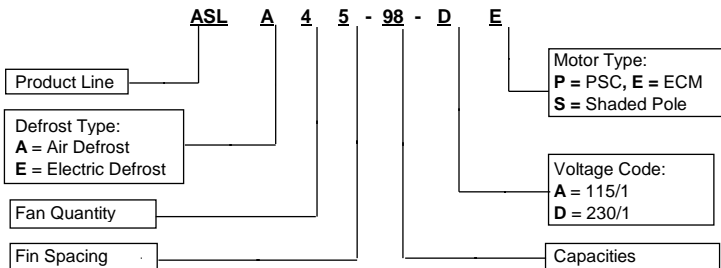
\$47 List adder for 3-prong electrical connector.

ECM = Electronically Commutated Motors

PSC = Permanent Split Capacitor

SP = Shaded Pole

Reach-In Nomenclature



WEDGE-TEMP - CEILING MOUNTED UNIT COOLERS

Designed for reach-ins, beverage coolers and back bars from 1,200 to 5,500 BTU/HR



COOLER APPLICATION

MODEL NUMBER	UNCOATED CORE		UNCOATED CORE SHADED POLE		RUSS PROOF CORE MODEL NO.	RUSS PROOF CORE Single speed ECM		RUSS PROOF CORE SHADED POLE		DIMENSIONS			SHIP WT. (LBS)
	Single speed ECM		115V	230V		115V	230V	115V	230V	HT (IN)	LT (IN)	DP (IN)	
	115V	230V											
WE17-12	\$1,426	\$1,442	\$847	\$864	WE17-12RP	\$1,480	\$1,526	\$908	\$953	8-5/16	15-1/4	15-7/8	16
WE17-15	1,436	1,467	866	897	WE17-15RP	1,524	1,571	945	992	8-5/16	15-1/4	15-7/8	19
WE17-18	1,461	1,505	894	939	WE17-18RP	1,543	1,609	968	1,033	8-5/16	17-3/4	15-7/8	22
WE17-25	1,626	1,671	1047	1091	WE17-25RP	1,695	1,772	1,112	1,189	8-5/16	19-7/8	16-7/8	29
WE17-35	1,850	2,001	1,290	1,442	WE17-35RP	2,110	2,200	1,530	1,622	9-1/2	22-7/8	17-7/8	36
WE17-45	2,179	2,284	1,623	1,728	WE17-45RP	2,547	2,716	1,971	2,140	9-5/8	26-3/4	20-1/2	57
WE18-55	2,773	2,880	2,182	2,290	WE18-55RP	3,079	3,188	2,488	2,597	9-5/8	26-3/4	20-1/2	65

Specify voltage when ordering - add an "A" for 115V and "D" for 230V. See Page 2 for nomenclature.

\$47 List adder for 3-prong electrical connector.

FLEX-TEMP LIMITED SPACE UNIT COOLERS

Designed for limited space, reach-ins, back bars, and beverage coolers, 600 to 3,100 BTU/HR.



COOLER APPLICATION

MODEL NUMBER	UNCOATED CORE		UNCOATED CORE SHADED POLE		RUSS PROOF CORE MODEL NO.	RUSS PROOF CORE Single speed ECM		RUSS PROOF CORE SHADED POLE		DIMENSIONS			SHIP WT. (LBS)
	Single speed ECM		115V	230V		115V	230V	115V	230V	HT (IN)	LT (IN)	DP (IN)	
	115V	230V											
FT18-6	N/A	N/A	\$637	\$659	FT18-6RP	N/A	N/A	\$665	\$681	6-3/4	12-1/2	9	9
FT18-8	N/A	N/A	689	712	FT18-8RP	N/A	N/A	716	733	6-3/4	12-1/2	9	9
FT28-12	N/A	N/A	785	855	FT28-12RP	N/A	N/A	870	955	7-3/4	18	9	14
FT18-17	\$1,467	\$1,545	894	972	FT18-17RP	\$1,558	\$1,636	995	1,080	9-5/8	14	10-1/2	15
FT18-23	2,030	2,136	1,439	1,545	FT18-23RP	2,150	2,256	1,540	1,625	11-5/8	16-3/4	13	20
FT18-31	2,242	2,365	1,651	1,775	FT18-31RP	2,376	2,510	1,785	1,913	11-5/8	16-3/4	13	23

Specify voltage when ordering - add an "A" for 115V and "D" for 230V. See Page 2 for nomenclature.

Unit is supplied with a three prong electrical connector.

MULLION-TEMP PANEL UNIT COOLERS

Designed for mullion, back wall, and side wall mounting from 1,300 to 2,300 BTU/HR.



COOLER APPLICATION

MODEL NUMBER MUF/MDF	UNCOATED CORE		RUSS PROOF CORE MODEL NO.	RUSS PROOF CORE		DIMENSIONS			SHIP WT. (LBS)
	115V	230V		115V	230V	HT (IN)	LT (IN)	DP (IN)	
27-13	\$1,186	\$1,247	27-13RP	\$1,206	\$1,290	17-1/8	15-5/8	5-5/8	20
27-17	1,415	1,461	27-17RP	1,446	1,531	17-1/8	15-5/8	5-5/8	22
37-23	1,692	1,811	37-23RP	1,721	1,848	17-1/8	22	5-5/8	30

Specify voltage when ordering - add an "A" for 115V and "D" for 230V. See Page 2 for nomenclature.

Unit is supplied with a three prong electrical connector.

T-TEMP UNIT COOLERS

Designed for reach-ins, beverage coolers and back bars from 800 to 1,700 BTU/HR



COOLER APPLICATION - AIR DEFROST									
MODEL NUMBER	UNCOATED CORE		RUSS PROOF MODEL NO.	RUSS PROOF CORE		DIMENSIONS			SHIP WEIGHT (LBS)
	115V	230V		115V	230V	HT (IN)	LT (IN)	DP (IN)	
	TT18-8	\$594	\$641	TT18-8RP	\$676	\$723	7-1/4	13-3/4	7-1/2
TT28-13	816	871	TT28-13RP	868	932	7-1/4	19-1/4	7-1/2	15
TT28-17	910	972	TT28-17RP	970	1,042	7-1/4	19-1/4	8-1/2	16

Specify voltage when ordering - add an "A" for 115V and "D" for 230V. See Page 2 for nomenclature.

TWIN-TEMP TWO WAY CEILING UNIT COOLERS

Designed for reach-ins, beverage coolers and back bars from 900 to 12,000 BTU/HR.



COOLER APPLICATION													
MODEL NUMBER	UNCOATED CORE Single speed ECM		UNCOATED CORE SHADED POLE		RUSS PROOF CORE MODEL NO.	RUSS PROOF CORE Single speed ECM		RUSS PROOF CORE SHADED POLE		DIMENSIONS			SHIP WT. (LBS)
	115V	230V	115V	230V		115V	230V	115V	230V	HT (IN)	LT (IN)	DP (IN)	
	TW17-9	\$1,277	\$1,322	\$698	\$743	TW17-9RP	\$1,391	\$1,436	\$818	\$863	7-5/8	19	16-1/2
TW17-12	1,481	1,548	903	969	TW17-12RP	1,554	1,626	981	1,053	7-5/8	19	16-1/2	19
TW17-18	1,599	1,674	1,037	1,112	TW17-18RP	1,789	1,859	1,222	1,292	9-1/8	19	16-1/2	23
TW17-25	1,832	1,912	1,270	1,350	TW17-25RP	2,085	2,169	1,515	1,599	9-5/8	21	18-1/2	26
TW17-35	2,209	2,301	1,648	1,739	TW17-35RP	2,493	2,588	1,933	2,026	11-1/4	11	18-1/2	28
TW17-45	2,665	2,816	2,097	2,248	TW17-45RP	3,006	3,156	2,433	2,583	10	32	21-1/2	44
TW17-55	3,194	3,324	2,640	2,770	TW17-55RP	3,578	3,712	3,011	3,145	12	32	21-1/2	50
TW18-65	3,759	3,759	3,168	3,168	TW18-65RP	3,982	3,982	3,391	3,391	12	32	21-1/2	55
TW17-75	N/A	N/A	3,276	3,276	TW17-75RP	N/A	N/A	3,507	3,507	11	36-1/2	36	109
TW18-85	N/A	N/A	3,806	3,806	TW18-85RP	N/A	N/A	4,070	4,070	11	36-1/2	36	115
TW17-105	N/A	N/A	4,357	4,357	TW17-105RP	N/A	N/A	4,662	4,662	13	36-1/2	36	121
TW18-120	N/A	N/A	4,858	4,858	TW18-120RP	N/A	N/A	5,202	5,202	13	36-1/2	36	128

Specify voltage when ordering - add an "A" for 115V and "D" for 230V. See Page 2 for nomenclature.

ECM = Electronically Commutated Motors

MINI TWIN-TEMP TWO WAY UNIT COOLER ONLY 3-1/4" HIGH



COOLER APPLICATION									
MODEL NUMBER	UNCOATED CORE SHADED POLE		RUSS PROOF MODEL NO.	RUSS PROOF CORE SHADED POLE		DIMENSIONS			SHIP WT. (LBS)
	115V	230V		115V	230V	HT (IN)	LT (IN)	DP (IN)	
	MTW18-8	\$696	\$696	MTW18-8RP	\$825	\$825	3-1/4	14-1/4	13
MTW28-13	917	917	MTW28-13RP	993	993	3-1/4	19-1/4	13	15
MTW28-18	1,044	1,044	MTW28-18RP	1,226	1,226	3-1/4	19-1/4	13	18
MTW28-21	1,170	1,170	MTW28-21RP	1,255	1,255	3-1/4	19-1/4	13	20
MTW38-27	1,303	1,303	MTW38-27RP	1,502	1,502	3-1/4	28-1/2	13	23

Specify voltage when ordering - add an "A" for 115V and "D" for 230V. See Page 2 for nomenclature.

WALL-TEMP PANEL UNIT COOLERS

Designed for mullion back wall and side wall mounting.
From 600 to 4,500 BTU/HR.



COOLER APPLICATION

MODEL NUMBER	UNCOATED CORE ECM	UNCOATED CORE SHADED POLE	RUSS PROOF MODEL NO.	RUSS PROOF CORE ECM	RUSS PROOF CORE SHADED POLE	DRAIN PAN*	DIMENSIONS			SHIP WT. (LBS)
	115V/230V	115V/230V		115V/230V	115V/230V		HT (IN)	WD (IN)	DP (IN)	
WA17-6	\$1,709	\$1,088	WA17-6RP	\$1,792	\$1,173	\$148	20-7/8	12	4-3/8	11
WA17-9	2,005	1,385	WA17-9RP	2,088	1,467	148	20-7/8	12	4-3/8	14
WA17-12	2,491	1,806	WA17-12RP	2,574	1,954	148	22-7/8	18	4-3/4	20
WA17-18	2,576	1,949	WA17-18RP	2,659	2,038	148	22-7/8	18	4-3/4	24
WA17-25	2,659	2,041	WA17-25RP	2,748	2,127	174	29	18	8-1/2	28
WA17-35	2,841	2,250	WA17-35RP	2,930	2,309	174	29	18	8-1/2	29
WA17-45	N/A	2,552	WA17-45RP	N/A	2,611	174	32-1/8	18	10-1/2	40

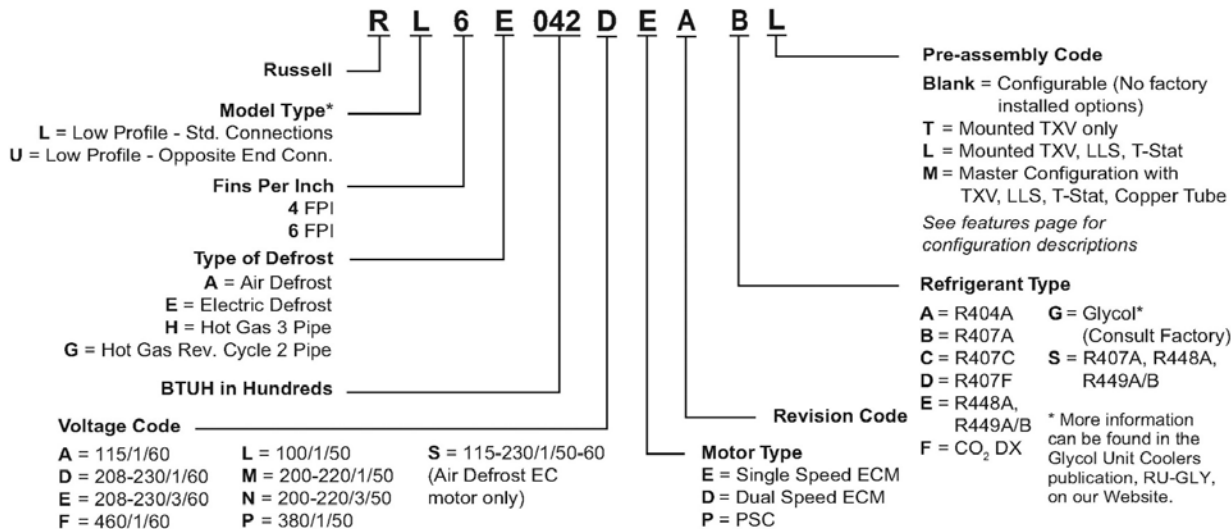
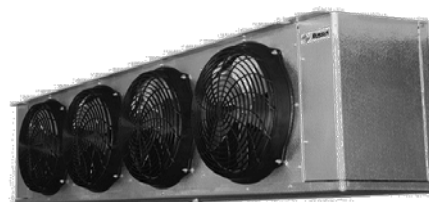
Specify voltage when ordering - add an "A" for 115V and "D" for 230V. See Page 2 for nomenclature.

\$47 List adder for 3-prong electrical connector.

*Drain Pan is optional.

ECM = Electronically Commutated Motors

NEXT-GEN ALL-TEMP LOW PROFILE UNIT COOLERS



* **NOTE:** Refrigerant and electrical connection locations have been changed for the Next-Gen All-Temp design. Standard connections ("L") are now opposite of the legacy All-Temp models. Mirror image connections ("U" - same end as legacy All-Temp models) are available only as built-to-order base units with no installed options.

STANDARD FEATURES

- Textured aluminum construction
- All units are provided with sweat refrigerant connections
- All units suitable for use with R404A, R407A, R407C, R407F, R448A, R449A/B. Can be configured for use with CO₂ DX or Glycol
- U. L. approved black plastic fan guards and deep draw venturi provide optimal air flow
- Flush ceiling mount with slotted hangers and hinged access end panels
- Face mounted heaters and fixed defrost termination, fan delay and heater safety controls
- Single or dual voltage EC motors. Optional Dual speed available

ORDERING INFORMATION

1. Model number
2. Motor Type
3. Motor electrical (voltage/phase/frequency)
4. Heater electrical (voltage/phase/frequency)
5. Units with mounted components require the following information: refrigerant type, evaporator temperature and T.D.

NEXT-GEN ALL-TEMP • AIR DEFROST MODELS - 6 FPI

MODEL NUMBER	Electronically Commutated Motors†			Single Speed PSC Motors					Russ-Proof Coil Coating (Other coatings are also available. Contact Applications for a special quote). See note 6 below.	Insulated Drain Pan	Heat Exchanger (Shipped loose) selected @10" T.D./R407A		Unit Cooler Approx. Ship Wt (LBS)
	Configurable Model - Single speed operation (Motor code "E". No accessories mounted)	Configurable Model - Dual speed operation (Motor code "D". No accessories mounted)	Pre-Assembled with factory mounted accessories - Assembly Code L or M (Motor code "E" or "D"). See notes 1, 2 & 3 below.	Configurable Model - Single speed operation (Motor code "P". No accessories mounted)	Pre-Assembled with factory mounted accessories - Assembly Code L or M (Motor code "P"). See notes 1, 2 & 3 below.	Configurable Model - Single speed operation (Motor code "P". No accessories mounted)	Pre-Assembled with factory mounted accessories - Assembly Code L or M (Motor code "P"). See notes 1, 2 & 3 below.	Configurable Model - Single speed operation (Motor code "P". No accessories mounted)			Model	List Price	
	115V/208-230V/1 Voltage code "S"	115V/208-230V/1 Voltage code "S"	115V Voltage code "A"	115V/1 (Voltage code "A")	115V/1 (Voltage code "A")	208-230V/1 (Voltage code "D")	208-230V/1 (Voltage code "D")	460V/1 (Voltage code "F")					
RL6A041*	\$1,693	\$1,693	\$2,682	\$1,339	\$2,328	\$1,391	\$2,380	\$1,559	\$397	\$545	HX-25	\$156	41
RL6A052*	1,739	1,739	2,728	1,389	2,378	1,411	2,400	1,585	407	545	HX-25	156	44
RL6A066*	2,018	2,018	3,007	1,668	2,657	1,792	2,781	1,966	436	545	HX-50	184	47
RL6A073*	2,637	2,637	3,626	1,916	2,905	2,068	3,057	2,424	593	688	HX-50	184	52
RL6A094*	2,987	2,987	3,976	2,266	3,255	2,302	3,291	2,661	614	688	HX-50	184	55
RL6A117*	3,138	3,138	4,127	2,465	3,454	2,498	3,487	2,829	645	688	HX-75	253	58
RL6A130*	3,351	3,351	4,340	2,701	3,690	2,740	3,729	3,084	675	688	HX-75	253	62
RL6A141*	4,054	4,054	5,043	3,011	4,000	3,054	4,043	3,568	914	835	HX-75	253	72
RL6A161*	4,502	4,502	5,491	3,432	4,421	3,489	4,478	4,015	939	835	HX-75	253	78
RL6A181*	4,907	4,907	5,896	3,859	4,848	3,914	4,903	4,436	965	835	HX-100	324	85
RL6A195*	5,286	5,286	6,275	4,164	5,153	4,219	5,208	4,773	1,003	960	HX-100	324	115
RL6A235*	6,411	6,411	7,400	4,850	5,839	5,236	6,225	6,009	1,052	960	HX-150	374	124
RL6A260*	6,986	6,986	7,975	5,087	6,076	5,480	6,469	6,132	1,101	960	HX-150	374	147
RL6A295*	8,012	8,012	9,336	6,053	7,377	6,539	7,863	7,504	1,299	1,096	HX-150	374	218
RL6A330*	8,599	8,599	9,923	6,409	7,733	6,921	8,245	8,005	1,608	1,246	HX-250	517	257
RL6A390*	9,655	9,655	10,979	7,471	8,795	7,939	9,263	9,022	1,668	1,246	HX-250	517	262

†Electronically Commutated motors are not available for 380V, 460V, or 575V. Use PSC motors for 460V volts. Use EC motors for 100-230V 50HZ operations.

††These models utilize dual voltage EC motors that are configurable for single or dual speed operation. **Dual speed EC motors are compliant with California Title 24 regulations.**

†††Dual speed motor operation employs a relay to control motor speed. LLS voltage must match the voltage applied to the motor. Electric default: dual speed relay voltage is 230V.

†††Specify motor speed: single (motor code E) or dual speed (motor code D) at time of order. (115 and 230 volt dual speed relays are both included with S voltage code.)

MODEL NUMBER	Electronically Commutated Motors††			Single Speed PSC Motors			Contact Applications for Coil Coating prices for electric defrost models	Insulated Drain Pan	Heat Exchanger (Shipped loose) selected @10" T.D./R407A		Unit Cooler Approx. Ship Wt (LBS)	
	Configurable Model Single speed operation (Motor code "E". No accessories mounted)	Configurable Model Dual speed operation (Motor code "D". No accessories mounted)	Pre-Assembled with factory mounted accessories - Assembly Code L or M (Motor code "E" or "D"). See notes 1, 2 & 3.	Configurable Model Single speed operation (Motor code "P". No accessories mounted)	Pre-Assembled with factory mounted accessories - Assembly Code L or M (Motor code "P"). See notes 1, 2 & 3 below.	Configurable Model Single speed operation (Motor code "P". No accessories mounted)			Model	List Price		
	208-230V/1 or 3ph‡ (Voltage code "D" or "E")	208-230V/1 or 3ph‡ (Voltage code "D" or "E")	208-230V/1 or 3ph‡ (Voltage code "D" or "E")	208-230V/1 or 3ph‡ (Voltage code "D" or "E")	208-230V/1 or 3ph‡ (Voltage code "D" or "E")	460V/1 (Voltage code "F")						
6 F P I	RL6E035*	\$2,355	\$2,355	\$3,344	\$2,023	\$3,012	\$2,305	C/F	\$545	HX-25	\$156	41
	RL6E042*	2,619	2,619	3,608	2,257	3,246	2,513	C/F	545	HX-25	156	44
	RL6E049*	2,883	2,883	3,872	2,522	3,511	2,865	C/F	545	HX-25	156	47
	RL6E066*	3,633	3,633	4,622	3,292	4,281	3,274	C/F	688	HX-50	184	52
	RL6E077*	3,821	3,821	4,810	3,112	4,101	3,683	C/F	688	HX-50	184	55
	RL6E090*	3,934	3,934	4,923	3,259	4,248	3,870	C/F	688	HX-50	184	58
	RL6E105*	4,608	4,608	5,597	3,803	4,792	4,145	C/F	688	HX-50	184	62
	RL6E121*	5,153	5,153	6,142	4,108	5,097	4,893	C/F	835	HX-75	253	78
	RL6E142*	5,880	5,880	6,869	4,829	5,818	5,645	C/F	835	HX-75	253	85
	RL6E162*	6,895	6,895	7,884	5,497	6,486	6,460	C/F	960	HX-75	253	124
	RL6E182*	7,609	7,609	8,598	6,212	7,201	7,254	C/F	960	HX-100	324	147
	RL6E200*	8,558	8,558	9,547	6,918	7,907	8,040	C/F	1,096	HX-100	324	195
	RL6E244*	10,039	10,039	11,363	7,928	8,917	9,244	C/F	1,246	HX-150	374	238
	RL6E281*	11,114	11,114	12,438	9,034	10,358	10,482	C/F	1,246	HX-150	374	238
4 F P I	RL4E027*	\$1,514	\$1,514	\$2,503	\$1,350	\$2,339	\$1,609	C/F	\$545	HX-25	\$156	40
	RL4E032*	1,892	1,892	2,881	1,601	2,590	1,860	C/F	545	HX-25	156	42
	RL4E038*	2,380	2,380	3,369	2,060	3,049	2,326	C/F	545	HX-25	156	46
	RL4E051*	2,903	2,903	3,892	2,576	3,565	2,846	C/F	688	HX-25	156	50
	RL4E064*	3,644	3,644	4,633	2,993	3,982	3,297	C/F	688	HX-50	184	52
	RL4E080*	4,152	4,152	5,141	3,462	4,451	3,749	C/F	688	HX-50	184	55
	RL4E094*	4,669	4,669	5,658	3,715	4,704	4,435	C/F	835	HX-50	184	79
	RL4E110*	5,465	5,465	6,454	4,347	5,336	5,141	C/F	835	HX-50	184	84
	RL4E125*	6,158	6,158	7,147	4,890	5,879	5,860	C/F	960	HX-75	253	124
	RL4E141*	6,947	6,947	7,936	5,515	6,504	6,499	C/F	960	HX-75	253	144
	RL4E155*	7,719	7,719	8,756	6,146	7,170	7,169	C/F	1,096	HX-75	253	191
	RL4E195*	9,252	9,252	10,289	7,731	8,760	9,055	C/F	1,246	HX-100	324	257
	RL4E230*	10,654	10,654	11,691	8,626	9,655	9,965	C/F	1,246	HX-150	374	262

†† Electronically Commutated motors are not available for 380V, 460V, or 575V. Use PSC motors for 460V volts. Use EC motors for 100-230V 50HZ operations.

†††These models utilize dual voltage EC motors that are configurable for single or dual speed operation. **Dual speed EC motors are compliant with California Title 24 regulations.**

††††Dual speed motor operation employs a relay to control motor speed. LLS voltage must match the voltage applied to the motor. Electric default: Dual speed relay voltage is 230V.

†††††Specify operating voltage 230V/1 (voltage code D) or 230/3 (voltage code E) and motor speed, single (motor code E) or dual speed (motor code D) operation at time of order. (All motors are single phase.)

* Refer to nomenclature example to complete the model number.

‡ Reference the catalog for 3 phase heater availability.

1. Pre-Assembly code L indicates that the unit includes factory mounted txv, liquid line solenoid, mechanical room t-stat.

2. Pre-Assembled code M designates a **Master unit** for a 2 evaporator Master / Slave evaporator setup. A master unit includes a mounted txv, liquid line solenoid, mechanical room t-stat and copper tee. Code M models are to be matched with an identical model, suffix code T, in order to complete the Master/Slave combination. See note 3 for description of code T models.

3. For Pre-Assembled code T (mounted TXV only), select a configurable model then add \$377 for up to 3 ton requirement or \$664 for 4 to 9 ton mounted txv to price of the configurable unit.

4. See page 18 for expansion valve pricing.

5. \$319 List adder for adjustable termination/fan delay control in lieu of a fixed controls.

6. Russ-Proof coating covers the coil only. Contact Application Engineering for coated housing or alternate coil coating. ElectroFin (not NSF approved), Bronz-Glow and Heresite are available coating options.

7. Electric default: Dual speed relay voltage is 230V.

NEXT-GEN ALL-TEMP

HOT GAS DEFROST / REVERSE CYCLE MODELS												
MODEL NUMBER	Electronically Commutated Motors†				PSC Motors			Insulated Drain Pan	Heat Exchanger Field Installed		Unit Cooler Approx. Ship Wt. (LBS)	
	Configurable Model - <u>Single</u> speed operation (Motor code "E". No accessories mounted)		Configurable Model - <u>Dual</u> speed motor operation (Motor code "D". No accessories mounted.)		Configurable Model - <u>Single</u> speed operation (Motor code "P". No accessories mounted)				Model	List Price		
	115V/1 (Voltage code "A")	208-230V/1 (Voltage code "D")	115V/1 (Voltage code "A")	208-230V/1 (Voltage code "D")	115V/1 (Voltage code "A")	208-230V/1 (Voltage code "D")	460V/1 (Voltage code "F")					
6 F P I	RL6G035*	\$2,292	\$2,345	\$2,292	\$2,345	\$1,948	\$2,000	\$2,174	\$545	HX-25	\$156	41
	RL6G042*	2,589	2,650	2,589	2,650	2,226	2,286	2,467	545	HX-25	156	44
	RL6G049*	2,922	2,990	2,922	2,990	2,562	2,631	2,814	545	HX-25	156	47
	RL6G066*	3,508	3,733	3,508	3,733	2,806	3,031	3,378	688	HX-25	156	52
	RL6G077*	3,884	4,107	3,884	4,107	3,176	3,399	3,746	688	HX-50	184	55
	RL6G090*	4,115	4,392	4,115	4,392	3,427	3,705	4,054	688	HX-50	184	58
	RL6G105*	4,824	5,102	4,824	5,102	4,018	4,372	4,725	688	HX-50	184	62
	RL6G121*	5,066	5,389	5,066	5,389	4,032	4,344	4,862	835	HX-75	253	78
	RL6G142*	5,930	6,142	5,930	6,142	4,879	5,091	5,611	835	HX-75	253	85
	RL6G162*	6,585	7,000	6,585	7,000	5,186	5,601	6,301	960	HX-75	253	124
	RL6G182*	7,375	7,921	7,375	7,921	5,979	6,525	7,221	960	HX-75	253	147
	RL6G200*	7,796	8,289	7,796	8,289	6,078	6,571	7,442	1,096	HX-100	324	195
RL6G244*	9,441	10,134	9,441	10,134	7,325	8,032	9,104	1,246	HX-100	324	238	
RL6G281*	10,514	11,345	10,514	11,345	8,435	9,258	10,313	1,246	HX-100	324	262	
4 F P I	RL4G027*	\$1,579	\$1,640	\$1,579	\$1,640	\$1,350	\$1,411	\$1,924	\$545	HX-25	\$156	40
	RL4G032*	1,863	1,923	1,863	1,923	1,595	1,655	2,169	545	HX-25	156	42
	RL4G038*	2,358	2,412	2,358	2,412	2,016	2,070	2,252	545	HX-25	156	46
	RL4G051*	2,994	3,097	2,994	3,097	2,476	2,741	3,006	688	HX-25	156	50
	RL4G064*	3,757	3,860	3,757	3,860	3,107	3,202	3,446	688	HX-25	156	52
	RL4G080*	4,223	4,345	4,223	4,345	3,532	3,654	3,914	688	HX-50	184	55
	RL4G094*	4,546	4,865	4,546	4,865	3,593	3,990	4,387	835	HX-50	184	79
	RL4G110*	5,320	5,638	5,320	5,638	4,203	4,537	4,958	835	HX-50	184	84
	RL4G125*	5,922	6,327	5,922	6,327	4,653	5,177	5,700	960	HX-50	184	124
	RL4G141*	6,680	7,085	6,680	7,085	5,248	5,653	6,186	960	HX-75	253	144
	RL4G155*	7,262	7,759	7,262	7,759	5,687	6,135	6,729	1,096	HX-75	253	191
	RL4G195*	8,913	9,496	8,913	9,496	6,926	7,479	8,228	1,246	HX-100	324	257
RL4G230*	10,274	10,982	10,274	10,982	8,246	8,933	9,697	1,246	HX-100	324	262	

- \$379 List adder for liquid txv bypass check valve, shipped loose. \$582 list price adder for liquid txv bypass check valve - factory mounted.
- Consult factory for installed suction check valve prices.
- Hot Gas reverse cycle includes a fixed defrost termination control and a fixed fan delay control, factory wired.

HOT GAS DEFROST / 3 PIPE DEFROST MODELS											
MODEL NUMBER	Electronically Commutated Motors†				PSC Motors			Insulated Drain Pan	Unit Cooler Approx. Ship Wt (LBS)		
	Configurable Model - <u>Single</u> speed operation (Motor code "E". No accessories mounted)		Configurable Model - <u>Dual</u> speed motor operation (Motor code "D". No accessories mounted.)		Configurable Model - <u>Single</u> speed operation (Motor code "P". No accessories mounted)						
	115V/1 (Voltage code "A")	208-230V/1 (Voltage code "D")	115V/1 (Voltage code "A")	208-230V/1 (Voltage code "D")	115V/1 (Voltage code "A")	208-230V/1 (Voltage code "D")	460V/1 (Voltage code "F")				
6 F P I	RL6H035*	\$2,292	\$2,345	\$2,292	\$2,345	\$1,948	\$2,000	\$2,174	\$545		41
	RL6H042*	2,589	2,650	2,589	2,650	2,226	2,286	2,467	545		44
	RL6H049*	2,922	2,990	2,922	2,990	2,562	2,631	2,814	545		47
	RL6H066*	3,508	3,733	3,508	3,733	2,806	3,031	3,378	688		52
	RL6H077*	3,884	4,107	3,884	4,107	3,176	3,399	3,746	688		55
	RL6H090*	4,115	4,392	4,115	4,392	3,427	3,705	4,054	688		58
	RL6H105*	4,824	5,102	4,824	5,102	4,018	4,372	4,725	688		62
	RL6H121*	5,066	5,389	5,066	5,389	4,032	4,344	4,862	835		78
	RL6H142*	5,930	6,142	5,930	6,142	4,879	5,091	5,611	835		85
	RL6H162*	6,585	7,000	6,585	7,000	5,186	5,601	6,301	960		124
	RL6H182*	7,375	7,921	7,375	7,921	5,979	6,525	7,221	960		147
	RL6H200*	7,796	8,289	7,796	8,289	6,078	6,571	7,442	1,096		195
RL6H244*	9,441	10,134	9,441	10,134	7,325	8,032	9,104	1,246		238	
RL6H281*	10,514	11,345	10,514	11,345	8,435	9,258	10,313	1,246		262	
4 F P I	RL4H027*	\$1,579	\$1,640	\$1,579	\$1,640	\$1,350	\$1,411	\$1,924	\$545		40
	RL4H032*	1,863	1,923	1,863	1,923	1,595	1,655	2,169	545		42
	RL4H038*	2,358	2,412	2,358	2,412	2,016	2,070	2,252	545		46
	RL4H051*	2,994	3,097	2,994	3,097	2,476	2,741	3,006	688		50
	RL4H064*	3,757	3,860	3,757	3,860	3,107	3,202	3,446	688		52
	RL4H080*	4,223	4,345	4,223	4,345	3,532	3,654	3,914	688		55
	RL4H094*	4,546	4,865	4,546	4,865	3,593	3,990	4,387	835		79
	RL4H110*	5,320	5,638	5,320	5,638	4,203	4,537	4,958	835		84
	RL4H125*	5,922	6,327	5,922	6,327	4,653	5,177	5,700	960		124
	RL4H141*	6,680	7,085	6,680	7,085	5,248	5,653	6,186	960		144
	RL4H155*	7,262	7,759	7,262	7,759	5,687	6,135	6,729	1,096		191
	RL4H195*	8,913	9,496	8,913	9,496	6,926	7,479	8,228	1,246		257
RL4H230*	10,274	10,982	10,274	10,982	8,246	8,933	9,697	1,246		262	

- Hot Gas 3 Pipe Defrost models include a fixed defrost termination control and a fixed fan delay control, factory wired.
 - Use EC motors for 50HZ operation.
 - See page 18 for expansion valve pricing.
- † Electronically Commutated motors are not available for 380V, 460V, or 575V. Use PSC motors for 460V volts. Use EC motors for 100-230V 50HZ operations.
- † These models utilize single voltage EC motors that are configurable for single or dual speed operation. **Dual speed EC motors are compliant with California Title 24 regulations.**
- † Dual speed motor operation employs a relay to control motor speed. LLS voltage must match the voltage applied to the motor. Electric default: dual speed relay voltage is 230V.
- † Specify operating voltage: 115V (voltage code A) or 230V/1 (voltage code D) and motor speed: single (motor code E) or dual speed (motor code D) at time of order.
- \$319 List adder for adjustable termination/fan delay control in lieu of a fixed controls.
- Contact Application Engineering for coated housing or coil coating. ElectroFin (not NSF approved), Bronz-Glow and Heresite are available coating options.
- * Reference nomenclature example to complete the model number.

INTER-TEMP MEDIUM PROFILE UNIT COOLERS



IT A 2 8 - 151 - A E

INTER-TEMP

A = Air Defrost
E = Electric Defrost
G = Hot Gas Rev. Cycle
H = Hot Gas Re-Evap

Motor Type:
P = PSC, E = Single Speed ECM
D = Dual Speed ECM
V = Variable Speed ECM

Voltage Code:
A = 115V/1, D = 230V/1
E = 208/230/3
F = 460V/1, H = 575V/1

BTUH in Hundreds

Fins Per Inch

Number of Fans

STANDARD FEATURES

- Use with R404A, R407A, R407C, R407F, R448A, R449A
- Textured Aluminum Construction
- U.L. approved epoxy coated fan guards
- Separate fixed defrost termination and fan delay controls
- Permanently lubricated, high efficiency, ECM or PSC motors with
- Thermal overload protection
- All components are factory wired to terminal board. Connection points are marked for easy identification.
- Partitioned fan sections.

ORDERING INFORMATION

1. Model number
2. Voltage, frequency, phase
3. Refrigerant type
4. Suction Temperature
5. Evaporator T.D.

OPTIONS

Air Straightener - Fan Guards (price per fan)	LIST	\$337
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AIR DEFROST MODELS

MODEL NUMBER	Electronically Commutated Motors†									PSC Motors								
	Single Speed Motors		Dual Speed Motors			Variable Speed Motors			Single Speed Motors									
	115V/1	230V/1	115V/1	230V/1	460V/1**	115V/1	230V/1	460V/1**	115V/1	230V/1	460V/1	575V/1						
8	ITA28-151	\$5,191	\$5,269	\$5,620	\$5,764	\$6,153	No longer available		\$4,550	\$4,639	\$4,819	\$4,916						
	ITA28-210	6,261	6,338	6,690	6,833	7,222			5,168	5,247	5,320	5,427						
	ITA38-260	7,750	7,869	8,392	8,612	9,195			6,441	6,571	6,909	7,049						
F	ITA38-320	9,479	9,858	10,122	10,600	11,184			No longer available		8,309	8,722	8,812	8,988				
	ITA28-410	12,056	12,536	12,584	13,064	13,420					10,102	10,560	10,778	10,993				
	ITA28-450	13,660	13,974	14,188	14,502	14,858					11,656	11,956	12,318	12,566				
P	ITA38-540	16,826	17,403	17,618	18,195	18,729					No longer available		14,022	14,576	14,877	15,174		
	ITA38-690	17,622	17,992	18,415	18,785	19,318							15,286	15,651	16,174	16,498		
	ITA26-145	5,018	5,084	5,447	5,579	5,968							4,375	4,450	4,634	4,726		
6	ITA26-191	6,074	6,087	6,503	6,582	6,971							No longer available		4,871	4,883	5,095	5,197
	ITA36-240	7,485	7,649	8,128	8,391	8,975									6,130	6,306	6,655	6,789
	ITA36-305	9,219	9,467	9,862	10,209	10,793									7,890	8,154	8,427	8,596
F	ITA26-370	11,700	12,026	12,229	12,554	12,910	No longer available								9,721	10,030	10,372	10,579
	ITA36-415	13,242	13,457	14,034	14,250	14,783									11,362	11,580	11,827	12,064
	ITA36-490	16,267	16,610	17,060	17,403	17,936									13,516	13,847	14,446	14,736
P	ITA36-620	17,080	17,355	17,873	18,147	18,681			No longer available						14,465	14,731	15,510	15,820
	ITA24-126	4,821	4,903	5,249	5,398	5,787									4,217	4,311	4,465	4,555
	ITA24-169	5,845	5,948	6,274	6,443	6,832									4,719	4,826	4,971	5,070
F	ITA34-224	7,200	7,351	7,843	8,094	8,677					No longer available				5,878	6,040	6,642	6,775
	ITA34-287	8,886	9,223	9,529	9,966	10,549									7,631	7,993	8,408	8,575
	ITA24-340	11,236	11,482	11,764	12,010	12,366									9,397	9,633	9,934	10,133
P	ITA24-395	12,694	13,319	13,222	13,847	14,203							No longer available		11,002	11,614	12,183	12,428
	ITA34-465	15,671	15,855	16,464	16,648	17,181									12,961	13,138	13,918	14,196
	ITA34-585	16,447	16,968	17,240	17,761	18,294									13,997	14,506	15,458	15,768

† Single speed Electronically Commutated motors are not available in 460V.

Units with dual speed motors include a relay which controls motor speed when wired to the room T-stat. Field wiring is required unless the T-Stat is mounted on the unit.

Dual speed EC motors are compliant with California Title 24 regulations.

** These 460V/1 models use 1/3 HP motors for all units.

* Russ Proof coating on coil only.

Contact Application Engineering for coated housing or other types of coil coatings.

	MODEL NUMBER	*Russ-Proof Coil Coating	Insulated Drain Pan	HEAT. EXCHANGER @ 10° T.D./R404A		APPROX. SHIPPING WEIGHT (LBS)	
				MODEL	LIST		
8	ITA28-151	\$1,220	\$1,859	HX-75	\$253	125	
	ITA28-210	1,438	1,859	HX-75	253	145	
	ITA38-260	1,637	2,085	HX-100	324	295	
	F	ITA38-320	1,846	2,085	HX-150	374	330
		ITA28-410	2,134	1,859	HX-150	374	370
		ITA28-450	2,262	1,859	HX-250	517	390
P	ITA38-540	2,574	2,085	HX-250	517	430	
	ITA38-690	2,677	2,085	HX-250	517	540	
	ITA26-145	1,167	\$1,859	HX-75	253	120	
6	ITA26-191	1,375	1,859	HX-75	253	140	
	ITA36-240	1,567	2,085	HX-100	324	290	
	ITA36-305	1,770	2,085	HX-150	374	320	
F	ITA26-370	2,040	1,859	HX-150	374	360	
	ITA36-415	2,162	2,085	HX-150	374	395	
	ITA36-490	2,462	2,085	HX-250	517	415	
P	ITA36-620	2,564	2,085	HX-250	517	520	
	ITA24-126	1,088	\$1,859	HX-50	184	115	
	ITA24-169	1,283	1,859	HX-75	253	130	
4	ITA34-224	1,458	2,085	HX-100	324	280	
	ITA34-287	1,645	2,085	HX-150	374	310	
	ITA24-340	1,898	1,859	HX-150	374	345	
F	ITA24-395	2,013	1,859	HX-150	374	375	
	ITA34-465	2,294	2,085	HX-250	517	400	
	ITA34-585	2,383	2,085	HX-250	517	505	

INTER-TEMP • ELECTRIC DEFROST MODELS												
MODEL NUMBER	Electronically Commutated Motors†					Single Speed PSC Motors			WIDTH (INCHES)	Insulated Drain Pan	Approx. Ship Wt. (LBS)	
	Single Speed		Dual Speed		Variable Speed		230V/1	460V/1				575V/1
	230V/1	230V/1	460V/1**	230V/1	460V/1**							
F P I 6	ITE26-130	\$5,614	\$6,109	\$6,498	No longer available	\$4,592	\$4,822	\$4,919	55	\$1,859	125	
	ITE26-150	5,891	6,386	6,775		5,221	5,465	5,574	55	1,859	140	
	ITE36-185	8,831	9,574	10,157		7,020	7,670	7,824	76	2,085	295	
	ITE26-270	11,029	11,584	11,913		9,871	10,408	10,616	76	1,859	320	
	ITE26-320	12,469	13,024	13,353		10,692	11,449	11,679	76	1,859	365	
	ITE36-385	15,563	16,396	16,889		13,130	13,759	14,034	106	2,085	450	
	ITE36-460	16,166	16,999	17,492		14,396	15,418	15,726	106	2,085	490	
	ITE36-520	18,333	19,166	19,659	16,411	17,242	17,587	106	2,085	535		
F P I 4	ITE24-105	5,245	5,740	6,129	No longer available	4,495	4,763	4,859	55	1,859	120	
	ITE24-140	6,769	7,264	7,653		5,090	5,269	5,375	55	1,859	135	
	ITE34-175	7,703	8,445	8,587		6,392	6,889	7,027	76	2,085	285	
	ITE24-230	10,588	11,143	11,472		8,869	9,578	9,769	76	1,859	315	
	ITE24-325	14,835	15,390	15,719		12,558	13,316	13,582	76	1,859	350	
	ITE34-390	15,686	16,519	17,012		13,760	14,686	14,981	106	2,085	425	
	ITE34-510	17,859	18,692	19,185		16,726	17,977	18,338	106	2,085	530	

1. Electric defrost models include fixed defrost termination and fan delay controls.
 2. Standard motor wiring is single phase (208/230V/1 or 460V/1.)
 3. Standard heater wiring is 3 phase (208/230V/3, 460V/3).
 4. ** These 460V/1 models use 1/3 HP motors for all units.
- † EC motors are not available for 575V applications.
- NOTE:** Units with dual speed motors include a relay which controls motor speed when wired to the room T-stat. Field wiring is required unless T-Stat is factory mounted.
- Dual speed EC motors are compliant with California Title 24 regulations.**

Specify voltage when ordering.
See page 8 for voltage codes.

INTER-TEMP • HOT GAS/ 3 PIPE DEFROST MODELS													
MODEL NUMBER	Electronically Commutated Motors†						Single Speed PSC motors				Insulated Drain Pan	Heat Exchanger Accumulator	Approx. Ship Wt. (LBS)
	Single Speed		Dual Speed		Variable Speed		115V/1	230V/1	460V/1	575V/1			
	115V/1	230V/1	230V/1	460V/1**	115V/1	230V/1							
F P I 6	ITH26-130	\$7,569	\$7,950	\$8,064	\$8,453	No longer available	\$6,130	\$6,522	\$6,805	\$6,940	\$1,859	Discontinued	125
	ITH26-150	9,328	9,421	9,823	10,212		7,633	7,724	8,073	8,208	1,859	Discontinued	140
	ITH36-185	11,507	11,700	12,250	12,833		10,083	10,292	10,848	11,050	2,085	Discontinued	295
	ITH26-270	14,342	14,697	14,897	15,226		13,057	13,419	14,097	14,232	1,859	Discontinued	320
	ITH26-320	16,013	16,418	16,569	16,897		13,961	14,358	15,282	15,359	1,859	Discontinued	365
	ITH36-385	18,517	18,717	19,350	19,843		16,469	16,676	17,675	17,891	2,085	Discontinued	450
	ITH36-460	21,832	22,168	22,665	23,158		19,143	19,474	20,665	20,926	2,085	Discontinued	490
	ITH36-520	23,540	23,972	24,373	24,866	20,875	21,304	22,476	22,755	2,085	Discontinued	535	
F P I 4	ITH24-105	7,261	7,631	7,756	8,145	No longer available	5,920	6,304	6,740	6,875	1,859	Discontinued	120
	ITH24-140	8,671	9,035	9,166	9,555		7,380	7,758	8,312	8,479	1,859	Discontinued	135
	ITH34-175	11,080	11,278	11,822	11,964		9,677	9,889	10,526	10,737	2,085	Discontinued	285
	ITH24-230	14,098	14,273	14,653	14,982		12,727	12,909	13,454	13,723	1,859	Discontinued	315
	ITH24-325	17,775	18,088	18,330	18,659		15,966	16,276	17,208	17,554	1,859	Discontinued	350
	ITH34-390	20,391	20,699	21,224	21,717		17,966	18,276	19,417	19,806	2,085	Discontinued	425
	ITH34-510	21,202	21,543	22,035	22,528		18,434	18,765	20,007	20,407	2,085	Discontinued	530

1. Hot Gas 3 -Pipe defrost models include factory installed fixed defrost terminator and fan delay controls.
 2. ** These 460V/1 models use 1/3 HP motors for all units.
- † EC motors are not available for 575V applications.
- NOTE:** Units with dual speed motors include a relay which controls motor speed when wired to the room T-stat. Field wiring is required unless T-Stat is factory mounted.
- Dual speed EC motors are compliant with California Title 24 regulations.**

Specify voltage when ordering.
See page 8 for voltage codes.

INTER-TEMP • HOT GAS/ REVERSE CYCLE MODELS															
MODEL NUMBER	Electronically Commutated Motors†						Single Speed PSC motors				Insulated Drain Pan	TXV Bypass Check Valve	Approx. Ship Wt. (LBS)		
	Single Speed		Dual Speed		Variable Speed		115V/1	230V/1	460V/1	575V/1					
	115V/1	230V/1	230V/1	460V/1**	115V/1	230V/1								460V/1**	
F P I 6	ITG26-130	\$6,776	\$7,157	\$7,271	\$7,660	\$7,371	\$7,398	\$8,190	\$5,338	5,729	\$6,016	\$6,135	\$1,859	\$379	125
	ITG26-150	8,537	8,631	9,032	9,421	9,132	9,159	9,665	6,842	6,934	7,284	7,429	1,859	379	140
	ITG36-185	9,424	9,572	10,166	10,750	10,316	10,357	11,122	8,000	8,163	8,807	8,983	2,085	379	295
	ITG26-270	12,226	12,443	12,781	13,110	13,089	13,151	13,477	10,940	11,165	11,867	12,105	1,859	379	320
	ITG26-320	13,827	14,159	14,383	14,711	14,690	14,753	15,193	11,775	12,099	13,042	13,303	1,859	779	365
	ITG36-385	16,162	16,392	16,995	17,488	17,457	17,550	17,943	14,114	14,350	15,353	15,660	2,085	779	450
F P I 4	ITG36-460	18,232	18,634	19,065	19,558	19,526	19,620	20,185	15,542	15,941	17,217	17,561	2,085	779	490
	ITG36-520	20,017	20,448	20,850	21,343	21,312	21,406	21,999	17,353	17,779	19,034	19,414	2,085	779	535
	ITG24-105	6,472	6,838	6,967	7,356	7,067	7,094	7,872	5,132	5,511	5,951	6,070	1,859	379	120
	ITG24-140	7,875	8,241	8,370	8,759	8,470	8,497	9,275	6,585	6,964	7,522	7,672	1,859	379	135
	ITG34-175	9,052	9,186	9,794	9,936	9,944	9,984	10,736	7,649	7,796	8,459	8,628	2,085	379	285
F P I 4	ITG24-230	11,895	12,112	12,450	12,779	12,758	12,821	13,146	10,524	10,748	11,087	11,308	1,859	379	315
	ITG24-325	15,611	15,840	16,166	16,495	16,474	16,536	16,873	13,801	14,028	14,481	14,772	1,859	779	350
	ITG34-390	17,729	18,038	18,562	19,055	19,024	19,118	19,589	15,305	15,616	16,411	16,739	2,085	779	425
	ITG34-510	19,382	19,727	20,215	20,708	20,677	20,770	21,278	16,614	16,949	18,191	18,555	2,085	779	530

1. Liquid (TXV Bypass) check valve is shipped loose for field installation. Consult factory for installed liquid check valve pricing.
 2. Hot Gas Reverse Cycle models include factory installed fixed defrost terminator and fan delay controls.
 3. ** These 460V/1 models use 1/3 HP motors for all units. - All Models
- NOTE:** Units with dual speed motors include a relay which controls motor speed when wired to the room T-stat. Field wiring is required unless T-Stat is factory mounted.
- † EC motors are not available for 575V applications.
- Dual speed EC motors are compliant with California Title 24 regulations.**

Specify voltage when ordering.
See page 8 for voltage codes.

LOW AIR VELOCITY UNIT COOLERS

LOW VELOCITY UNIT COOLER NOMENCLATURE

R W F 050 A E 1 B 1 1 A 1 A
 I II III IV V VI VII VIII IX X XI XII XIII

I. Model Series

R – Russell

II. Unit type

W – Walk In Unit Cooler

III. Series

F – Low Air Velocity

IV. Capacity – Three Number Characters

050, 075, 100, 130, 160, 190, 220, 270, 340

V. Voltage Code

A – 115/1/60
 D – 208-230/1/60
 F – 460/1/60
 L – 100/1/50
 M – 200-220/1/50
 P – 380/1/50
 X – Other

VI. Motor/Fan Type

E – (EC) Electronically Commutated
 P – (PSC) Permanent Split Capacitor
 S – (SP) Shaded Pole
 X – Other

VII. Length in Fans

1, 2, 3, 4, 5, 6

VIII. Coil Density

B – 6 fpi

IX. Coil Material and Coating Options

1 – Aluminum Fins (Al)
 2 – Copper Fins (Cu)
 3 – Al + AST Coating
 4 – Al + Blygold
 5 – Al + Bronz-Glow
 6 – Al + Heresite
 8 – Baked Epoxy Coating
 X – Other

} Post Coat Materials

X. Housing Material and Coatings

1 – Aluminum, Embossed
 3 – White Painted
 6 – Stainless Steel 304
 X – Other

XI. Unit Design Configuration

A – Air Defrost
 E – Electric Defrost
 G – Hot Gas Reverse Cycle Defrost with Drain Pan Loop
 H – Hot Gas Re-Evaporative Defrost with Drain Pan Loop
 K – Hot Gas Reverse Cycle Defrost with 115V Heater
 L – Hot Gas Reverse Cycle Defrost with 208/230V Heater
 X – Other

XII. Not Currently used

XIII. Revision Code – Single Alphanumeric Character

A – Initial Release

LOW AIR VELOCITY UNIT COOLERS

BASE MODELS

Model Number	Air Defrost 115/1/60	Fan Configuration	Approx. Net Weight (lbs)
RWF050AE1B11A1A	\$3,885	1 x 1	50
RWF075AE2B11A1A	4,456	1 x 2	75
RWF100AE2B11A1A	5,622	1 x 2	85
RWF130AE3B11A1A	6,424	1 x 3	100
RWF160AE3B11A1A	7,143	1 x 3	110
RWF190AE4B11A1A	8,909	1 x 4	120
RWF220AE4B11A1A	10,241	1 x 4	130
RWF270AE5B11A1A	11,309	1 x 5	150
RWF340AE6B11A1A	14,439	1 x 6	180

POSITION V

Voltage options

Note: "N/A" = Not available, "N/C" = No additional charge, "—" = Base model features, "C/F" = Contact Factory

Voltage Code	Adder/(Deduct) Per Fan Section	Available Based Upon Position VI Motor Options
A – 115/1/60	—	Available for motor codes E, P, S
D – 208-230/1/60	\$50	Available for motor codes E, P, S
F – 460/1/60	16	Available for motor code P only
L – 100/1/50	—	Available for motor codes E, P, S
M – 200-220/1/50	50	Available for motor codes E, P, S
P – 380/1/50	16	Available for motor code P only

POSITION VI

Motor / Fan Type options

Note: "N/A" = Not available, "N/C" = No additional charge, "—" = Base model features, "C/F" = Contact Factory

Motor / Fan Type	Adder/(Deduct) Per Fan Section	Available Based Upon Position V
E - Electronically Commutated - Single Speed	—	Available for A,D,L,M
D - Electronically Commutated - Dual Speed	\$248 248	Available for A,L Available for D,M
P - Permanent Split Capacitor - Price deduct	(459)	Available for A,L,D,M,F,P

POSITION VII Length in Fans - No additional charge

POSITION VIII Coil Density - 6 FPI - No additional charge

Position - IX

Coil Material and Coating options

Contact Application Engineering to obtain price quotes for special fin materials or coatings.

Position - X

Housing Material and Coating options

Contact Application Engineering to obtain price quotes for special housing materials or coatings.

LOW AIR VELOCITY UNIT COOLERS

Position - XI

Unit Design Configuration - Horizontal Air Discharge Only

Note: "N/A" = Not available, "N/C" = No additional charge, "—" = Base model features, "C/F" = Contact Factory

ELECTRIC DEFROST - Code E		
Voltage Code	Adder/(Deduct) Per Fan Section	Available Based Upon Position VI Motor Options
A - 115/1/60	N/A	N/A
D - 208-230/1/60	\$250	Available for motor codes E, P, S
F - 460/1/60	338	Available for motor code P only
L - 100/1/50	N/A	N/A
M - 200-220/1/50	250	Available for motor codes E, P, S
P - 380/1/50	338	Available for motor code P only

HOT GAS DEFROST - Reverse Cycle with Hot Gas drain pan loop - Code G		
Voltage Code	Adder/(Deduct) Per Fan Section	Available Based Upon Position VI Motor Options
A - 115/1/60	\$438	Available for motor codes E, P, S
D - 208-230/1/60	438	Available for motor codes E, P, S
F - 460/1/60	438	Available for motor code P only
L - 100/1/50	438	Available for motor codes E, P, S
M - 200-220/1/50	438	Available for motor codes E, P, S
P - 380/1/50	438	Available for motor code P only

HOT GAS DEFROST - Reverse Cycle with electric drain pan heater - Code K or L		
Voltage Code	Adder/(Deduct) Per Fan Section	Available Based Upon Position VI Motor Options
A - 115/1/60	\$286	Available for motor codes E, P, S
D - 208-230/1/60	286	Available for motor codes E, P, S
F - 460/1/60	N/A	N/A
L - 100/1/50	286	Available for motor codes E, P, S
M - 200-220/1/50	286	Available for motor codes E, P, S
P - 380/1/50	N/A	N/A

HOT GAS DEFROST - 3 pipe with Drain Pan loop - Code H		
Voltage Code	Adder/(Deduct) Per Fan Section	Available Based Upon Position VI Motor Options
A - 115/1/60	\$372	Available for motor codes E, P, S
D - 208-230/1/60	372	Available for motor codes E, P, S
F - 460/1/60	372	Available for motor code P only
L - 100/1/50	372	Available for motor codes E, P, S
M - 200-220/1/50	372	Available for motor codes E, P, S
P - 380/1/50	372	Available for motor code P only

Heat Exchanger/Accumulator (HEA) No Longer Available.

Position - XII

Insulated Drain Pan		
Fan Configuration	No Insulation	Insulated Drain Pan ¹
1 X 1	—	\$2,557
1 X 2	—	3,281
1 X 3	—	4,242
1 X 4	—	4,820
1 X 5	—	5,717
1 X 6	—	6,615

1. Insulated Drain Pan not available with stainless steel or galvanized steel pans.

Position - XIII

Revision Code: A - Initial Release

Optional Expansion Valves

Balanced Port Expansion Valve - Loose	1/4 thru 3 Tons	\$333
	4 thru 9 Tons	426
Balanced Port Expansion Valve - Mounted	1/4 thru 3 Tons	377
	4 thru 9 Tons	664

Optional Room T-Stat

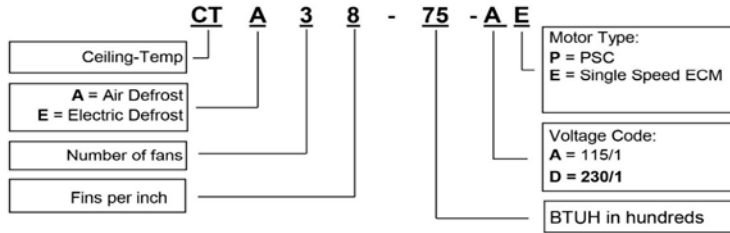
Type	RANGE	LIST
Mechanical - Loose	-30 to + 100	\$285
Mechanical - Mounted @ Evap	-30 to + 100	309
Electronic - Loose	-30 to + 100	368
Electronic - Mounted @ Evap	-30 to + 100	386

Optional Liquid Line Solenoid Valve

HORSEPOWER RANGE	LOOSE	MTD
1/2 thru 3 HP	\$281	\$303
4 thru 8 HP	315	351

CEILING-TEMP DUAL DISCHARGE - LOW SILHOUETTE UNIT COOLERS

Center mount with two way air discharge.
Designed for applications that require minimal coil height.



AIR DEFOST MODELS

MODEL NUMBER	Single Speed EC Motors†		PSC ¹ Motors	Approx. Ship Weight (LBS)	INSULATED DRAIN PAN
	115V/1	230V/1	115V/1		
CTA38-75	\$2,970	\$3,270	\$2,135	95	\$4,196
CTA38-88	3,763	4,058	2,604	100	4,196
CTA38-98	4,151	4,634	2,911	105	4,196
CTA48-112	4,387	4,810	3,252	125	4,982
CTA48-130	4,539	5,613	3,604	130	4,982
CTA48-150	5,628	6,149	3,839	135	4,982
CTA58-162	6,108	6,701	4,320	150	5,596
CTA48-210	7,142	7,776	4,769	155	4,982
CTA58-230	7,916	10,013	5,353	165	5,596
CTA68-250	9,496	10,318	6,513	185	6,743
CTA36-64	2,911	3,028	2,093	90	4,196
CTA36-82	3,690	3,757	2,553	95	4,196
CTA36-93	4,070	4,290	2,854	100	4,196
CTA46-100	4,301	4,454	3,188	120	4,982
CTA46-123	5,031	5,197	3,533	125	4,982
CTA46-140	5,518	5,693	3,764	130	4,982
CTA56-157	5,989	6,205	4,235	145	5,596
CTA46-190	7,002	7,199	4,675	150	4,982
CTA56-208	7,767	8,019	5,248	160	5,596
CTA66-232	9,310	9,554	6,385	180	6,743

ELECTRIC DEFOST MODELS

MODEL NUMBER	Single Speed EC Motors†	Approx. Ship Weight (LBS)	INSULATED DRAIN PAN
	230V/1		
CTE36-53	\$4,709	95	\$4,196
CTE36-62	4,862	100	4,196
CTE36-69	4,852	105	4,196
CTE46-77	5,586	125	4,982
CTE46-90	6,250	130	4,982
CTE46-100	6,532	135	4,982
CTE56-125	6,786	150	5,596
CTE46-140	7,828	155	4,982
CTE56-160	8,769	165	5,596
CTE66-218	10,781	185	6,743
CTE34-48	3,401	90	4,196
CTE34-58	4,726	95	4,196
CTE34-65	4,870	100	4,196
CTE44-72	5,577	120	4,982
CTE44-84	6,218	125	4,982
CTE44-95	6,233	130	4,982
CTE54-115	6,506	145	5,596
CTE44-128	6,752	150	4,982
CTE54-145	7,818	160	5,596
CTE64-173	8,782	180	6,743

1. PSC motors are not available for models with 230V/1 requirements. Use models with EC motors for 230V/1 applications.

EC motors = Electronically Commutated Motors

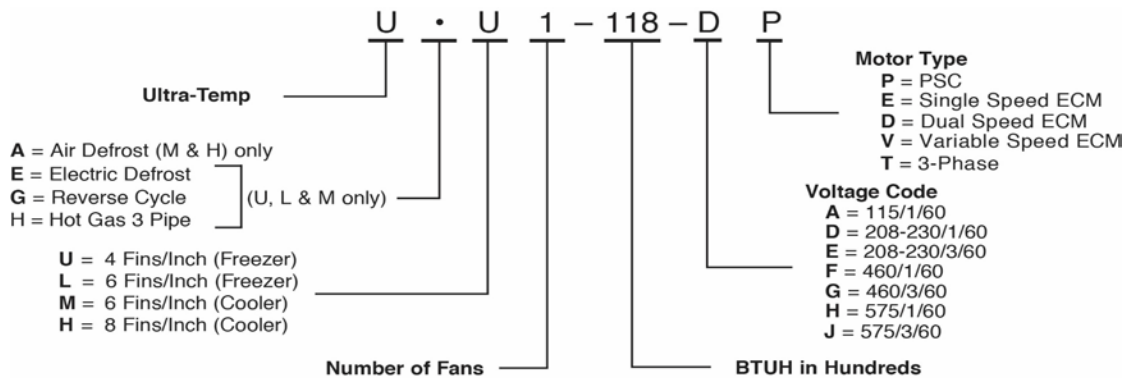
†EC motors are not available in 460V/1 for these models.

†Use EC motors for 50HZ operation.

All units are provided with sweat refrigerant connections. 230V/1/60 models also valid for 208V/1/60

Specify voltage when ordering. See nomenclature for available voltage and motor codes.

ULTRA-TEMP HIGH PERFORMANCE WAREHOUSE UNIT COOLERS



ULTRA-TEMP HIGH PERFORMANCE WAREHOUSE UNIT COOLERS

STANDARD FEATURES

- All units suitable for R404A, R507, R407A, R407C, R407F, R448A, R449A
- Textured Aluminum Construction
- U.L. approved epoxy coated wire fan guards
- All 2 through 6 fan models shipped upright for easier installation
- Adjustable defrost termination and fan delay
- PSC motors with overload protection
- All electrical components are factory wired to a terminal board, and with connection points clearly marked for easy identification
- Fully Partitioned fan sections

ORDERING INFORMATION REQUIRED

1. Model number
2. Motor electrical wiring connections (voltage, phase, frequency)
3. Heater wiring connections (voltage, phase, frequency)
4. Evaporator temperature, T.D. and refrigerant type

OPTIONS		LIST PRICE
DESCRIPTION		
Air Straightener - Fan Guards (price per fan)	\$452	
Copper Finned Coil	Contact factory	
Coated Coil (ElectroFin, Heresite, etc.) Air Defrost and Hot Gas Only	Contact factory	

AIR DEFROST - ROOM TEMPERATURE 35°F AND ABOVE

MODEL NUMBER	Electronically Commutated Motors ¹							Single Speed PSC Motors ¹				Inherent 3 Phase Motors	
	Single Speed		Dual Speed		Variable Speed								
	115V / 230V/1	115V/1	208-230V/1	460V/1	115V/1	208-230V/1	460V/1	115V/1	208-230V/1	460V/1	575V/1	208-230V/3	460V/3
UAH1-182	\$5,434	\$5,699	\$5,712	\$5,876	No longer available	\$4,700	\$4,700	\$4,937	\$5,036	N/A	N/A		
UAH1-232	6,061	6,325	6,338	6,503		5,326	5,326	5,782	5,898	N/A	N/A		
UAH2-300	9,105	9,633	9,660	9,989		7,636	7,636	7,888	8,047	N/A	N/A		
UAH2-365	9,987	10,515	10,542	10,871		8,518	8,518	8,935	9,115	N/A	N/A		
UAH2-433	11,591	12,120	12,147	12,475		10,123	10,123	10,622	10,835	N/A	N/A		
UAH2-490	12,800	13,328	13,355	13,684		11,331	11,331	11,895	12,134	N/A	N/A		
UAH3-530	13,180	13,973	14,013	14,506		10,978	10,978	11,463	11,694	N/A	N/A		
UAH3-648	14,654	15,447	15,487	15,980		12,451	12,451	12,833	13,090	N/A	N/A		
UAH3-736	17,539	18,332	18,372	18,865		15,336	15,336	15,988	16,309	N/A	N/A		
UAH4-866	18,303	19,360	19,414	20,071		15,366	15,366	16,138	16,462	N/A	N/A		
UAH4-980	19,868	20,924	20,978	21,636		16,931	16,931	17,934	18,293	N/A	N/A		
UAH4-1100	21,643	22,700	22,754	23,411		18,706	18,706	19,647	20,040	N/A	N/A		
UAH4-1452†	29,999	N/A	31,401	31,913		N/A	26,472	27,792	28,349	28,978	28,978		
UAH4-1821†	36,945	N/A	38,347	38,859		N/A	33,418	35,093	35,795	35,904	35,904		
UAH5-2275†	39,490	N/A	41,243	41,882		N/A	35,081	37,302	38,333	38,995	38,995		
UAH6-2730†	47,051	N/A	49,154	49,922		N/A	41,760	43,449	44,319	47,371	47,371		
UAM1-164	5,281	5,545	5,558	5,723	No longer available	4,546	4,546	4,771	4,868	N/A	N/A		
UAM1-209	5,995	6,259	6,273	6,512		5,261	5,261	5,517	5,627	N/A	N/A		
UAM2-270	9,103	9,631	9,658	9,987		7,634	7,634	8,018	8,179	N/A	N/A		
UAM2-329	9,947	10,475	10,502	10,831		8,479	8,479	8,903	9,082	N/A	N/A		
UAM2-390	11,279	11,808	11,835	12,163		9,811	9,811	10,296	10,502	N/A	N/A		
UAM2-441	12,557	13,086	13,113	13,441		11,089	11,089	11,636	11,869	N/A	N/A		
UAM3-583	13,441	14,234	14,274	14,767		11,239	11,239	11,313	11,540	N/A	N/A		
UAM3-662	14,635	15,428	15,468	15,961		12,433	12,433	12,875	13,134	N/A	N/A		
UAM4-780	17,340	18,397	18,451	19,108		14,403	14,403	14,826	15,123	N/A	N/A		
UAM4-882	18,481	19,538	19,592	20,249		15,544	15,544	15,993	16,313	N/A	N/A		
UAM4-1100†	22,171	N/A	23,573	24,085		N/A	18,644	20,106	20,508	N/A	N/A		
UAM4-1320†	29,881	N/A	31,283	31,794		N/A	26,353	27,428	27,978	28,841	28,841		
UAM4-1656†	31,756	N/A	33,158	33,669		N/A	28,228	29,061	29,644	30,717	30,717		
UAM5-2065†	36,451	N/A	38,204	39,322		N/A	32,042	34,198	34,882	35,904	35,904		
UAM6-2480†	44,909	N/A	46,661	47,779		N/A	39,617	40,623	41,436	45,242	45,242		

MODEL NUMBER	HT.EXCH @10 T.D./R404A		Insulated Drain Pan	SHIP WT. (LBS)
	MODEL	LIST		
UAH1-182	HX-150	\$324	\$2,424	210
UAH1-232	HX-150	324	2,424	230
UAH2-300	HX-250	517	2,715	370
UAH2-365	HX-250	517	2,715	410
UAH2-433	HX-250	517	2,715	435
UAH2-490	HX-250	517	2,715	458
UAH3-530	HX-250	517	3,006	550
UAH3-648	HX-350	530	3,006	600
UAH3-736	HX-350	530	3,006	635
UAH4-866	HX-350	530	3,253	690
UAH4-980	HX-500	841	3,253	746
UAH4-1100	(2) HX-350	1,060	3,253	785
UAH4-1452†	(2) HX-350	1,060	3,253	905
UAH4-1821†	(2) HX-500	1,682	3,253	930
UAH5-2275†	(2) HX-500	1,682	3,549	1,160
UAH6-2730†	(2) HX-500	1,682	3,843	1,395

MODEL NUMBER	HT.EXCH @10 T.D./R404A		Insulated Drain Pan	SHIP WT. (LBS)
	MODEL	LIST		
UAM1-164	HX-150	\$324	\$2,424	200
UAM1-209	HX-150	324	2,424	220
UAM2-270	HX-250	517	2,715	360
UAM2-329	HX-250	517	2,715	400
UAM2-390	HX-250	517	2,715	425
UAM2-441	HX-250	517	2,715	446
UAM3-583	HX-350	530	3,006	585
UAM3-662	HX-350	530	3,006	620
UAM4-780	HX-350	530	3,253	675
UAM4-882	HX-350	530	3,253	726
UAM4-1100†	(2) HX-350	1,060	3,253	830
UAM4-1320†	(2) HX-350	1,060	3,253	885
UAM4-1656†	(2) HX-500	1,682	3,253	910
UAM5-2065†	(2) HX-500	1,682	3,549	1,135
UAM6-2480†	(2) HX-500	1,682	3,843	1,365

1. Motors are single phase. 3 thru 6 fan models are delta wired for 3 phase supply voltage unless otherwise specified.

2. Single speed Electronically Commutated motors are not available in 460V or 575V.

Dual speed EC motors are compliant with California Title 24 regulations.

† 115V motors are not available for these models.

230V motors are suitable for 208V operation.

Specify voltage and motor type when ordering. See page 13 for codes and nomenclature.

**ULTRA-TEMP
HIGH PERFORMANCE WAREHOUSE UNIT COOLERS**

ELECTRIC DEFROST - LOW TEMPERATURE - BELOW +20°F ROOM

MODEL NUMBER	Electronically Commutated Motors					Single Speed PSC Motors			3 Phase Motors		Heat Exchanger @10° TD		Insulated Drain Pan	Approx. Ship Wt. (LBS)
	Single Speed	Dual Speed		Variable Speed		230V/1	460V/1	575V/1	208-230V/3	460V/3	MODEL	LIST		
	208-230V/1 ††	208-230V/1	460V/1	208-230V/1	460V/1									
UEL1-125	N/A	N/A	N/A	No longer available	\$5,080	\$5,530	\$5,641	N/A	N/A	HX-150	\$324	\$2,424	180	
UEL1-152	N/A	N/A	N/A		5,636	6,242	6,367	N/A	N/A	HX-150	324	2,424	200	
UEL1-193	N/A	N/A	N/A		6,957	7,412	7,560	N/A	N/A	HX-150	324	2,424	220	
UEL2-240	N/A	N/A	N/A		9,592	10,074	10,276	N/A	N/A	HX-250	517	2,715	360	
UEL2-304	N/A	N/A	N/A		10,476	11,000	11,220	N/A	N/A	HX-250	517	2,715	400	
UEL2-361	\$13,489	\$14,190	\$14,446		11,725	12,308	12,554	12,668	12,668	HX-350	530	2,715	425	
UEL2-408	14,459	15,160	15,415		12,695	12,873	13,130	13,637	13,637	HX-350	530	2,715	446	
UEL3-445	15,789	16,840	17,224		13,143	13,291	13,557	14,556	14,556	HX-500	841	3,006	525	
UEL3-540	17,598	18,650	19,034		14,953	15,704	16,019	16,363	16,363	HX-500	841	3,006	585	
UEL3-613	18,927	19,979	20,363		16,282	17,063	17,405	18,165	18,165	HX-500	841	3,006	620	
UEL3-660	20,799	21,851	22,235		18,154	18,978	19,359	20,017	20,017	HX-500	841	3,006	645	
UEL4-722	22,144	23,546	24,058		18,616	20,392	20,799	21,119	21,119	HX-500	841	3,253	675	
UEL4-817	27,340	28,742	29,254		23,812	25,004	25,505	26,314	26,314	HX-500	841	3,253	726	
UEL4-950*	29,946	31,348	31,860		26,419	26,957	27,497	28,908	28,908	HX-500	841	3,253	850	
UEL4-1100*	30,298	31,700	32,211		26,770	27,775	28,331	29,267	29,267	(2) HX-500	1,682	3,253	885	
UEL4-1260*	34,940	36,342	36,854		31,413	32,100	32,743	33,921	33,921	(2) HX-500	1,682	3,253	900	
UEL4-1380*	37,787	39,189	39,700		34,259	35,139	35,843	36,768	36,768	(2) HX-500	1,682	3,253	910	
UEL5-1575*	47,149	48,901	49,541		42,739	45,992	46,913	46,670	46,670	(2) HX-500	1,682	3,549	1,125	
UEL5-1725*	50,398	52,150	52,790		45,988	47,460	50,489	47,495	47,495	(2) HX-500	1,682	3,549	1,175	
UEL6-1890*	55,171	57,274	58,042		50,254	53,627	54,700	51,911	51,911	(2) HX-500	1,682	3,843	1,345	
UEL6-2070*	61,793	63,896	64,664		56,502	57,672	58,826	58,283	58,283	(2) HX-500	1,682	3,843	1,365	
UEU1-118	N/A	N/A	N/A		No longer available	5,810	6,099	N/A	N/A	N/A	HX-150	324	2,424	180
UEU2-236	N/A	N/A	N/A			10,144	10,647	N/A	N/A	N/A	HX-250	517	2,715	370
UEU2-355	14,749	15,800	16,184			12,985	13,166	13,430	13,927	13,927	HX-350	530	2,715	440
UEU3-474	17,776	19,178	19,690			15,130	15,234	15,539	16,572	16,572	HX-350	530	3,006	570
UEU4-711	22,879	24,281	24,793			19,352	19,603	19,997	21,811	21,811	HX-500	841	3,253	665
UEU4-851*	29,502	30,904	31,416	25,974		26,181	26,707	28,483	28,483	(2) HX-500	1,682	3,253	875	
UEU4-1080*	33,885	35,287	35,798	30,357		31,337	31,964	32,852	32,852	(2) HX-500	1,682	3,253	900	
UEU5-1350*	46,655	48,407	49,047	42,245		42,908	43,767	46,115	46,115	(2) HX-500	1,682	3,549	1,125	
UEU6-1620*	58,563	60,666	61,433	53,271		57,514	58,665	58,882	58,882	(2) HX-500	1,682	3,843	1,350	

ELECTRIC DEFROST - MEDIUM TEMPERATURE - ABOVE + 30°F ROOM

MODEL NUMBER	Electronically Commutated Motors					Single Speed PSC Motors			3 Phase Motors		Heat Exchanger @10° TD		Insulated Drain Pan	Approx. Ship Wt. (LBS)
	Single Speed	Dual Speed		Variable Speed		230V/1	460V/1	575V/1	208-230V/3	460V/3	MODEL	LIST		
	208-230V/1 ††	208-230V/1	460V/1	208-230V/1	460V/1									
UEM1-164	\$6,574	\$6,852	\$7,016	No longer available	\$5,840	\$6,138	\$6,261	N/A	N/A	HX-150	\$324	\$2,424	200	
UEM1-209	7,616	7,894	8,058		6,882	7,338	7,484	N/A	N/A	HX-150	324	2,424	220	
UEM2-270	10,357	10,912	11,241		8,888	9,473	9,663	N/A	N/A	HX-250	517	2,715	360	
UEM2-329	11,696	12,252	12,580		10,228	10,901	11,119	N/A	N/A	HX-250	517	2,715	400	
UEM2-390	13,766	14,321	14,650		12,297	12,779	13,036	N/A	N/A	HX-250	517	2,715	425	
UEM2-441	15,044	15,599	15,928		13,576	14,255	14,541	N/A	N/A	HX-250	517	2,715	446	
UEM3-583	17,907	18,740	19,233		15,704	16,749	17,084	16,294	16,294	HX-350	530	3,006	585	
UEM3-662	19,288	20,121	20,614		17,086	17,773	18,129	17,776	17,776	HX-350	530	3,006	620	
UEM4-780	23,165	24,276	25,079		20,228	20,448	20,858	21,275	21,275	HX-350	530	3,253	675	
UEM4-882	26,893	28,004	28,806		23,956	24,843	25,340	25,542	25,542	HX-350	530	3,253	726	
UEM4-1100	30,556	31,958	32,469		27,028	28,379	28,947	28,565	28,565	(2) HX-350	1,060	3,253	830	
UEM4-1320	37,154	38,556	39,068		33,627	35,839	36,556	35,169	35,169	(2) HX-350	1,060	3,253	885	
UEM4-1656	48,252	49,654	50,166		44,725	46,254	47,180	46,338	46,338	(2) HX-500	1,682	3,253	910	
UEM5-2065	59,572	61,324	61,964		55,162	56,528	57,658	56,951	56,951	(2) HX-500	1,682	3,549	1,140	
UEM6-2480	69,151	71,254	72,022		61,403	62,743	63,998	64,504	64,504	(2) HX-500	1,682	3,843	1,365	

1. Standard motors are single phase. Three thru six fan models are delta wired for 3 phase supply unless otherwise specified.

2. Single speed Electronically Commutated motors are not available in 460V or 575V.

230V motors are suitable for 208V operation.

Dual speed EC motors are compliant with California Title 24 regulations.

* - 2 liq. and suction connections per evaporator - 2 TXV's needed when ordering with unit.

EC motors are not available for models with 1625 RPM motors.

†† ECM motors only available in single phase. Can be delta wired for 3 phase operation.

Ordering Information Required:

1. Model Number.
2. Motor type
3. Electrical connections (voltage/phase/frequency). See page 13 for codes and nomenclature.
4. Evaporator temperature, T.D. and refrigerant type

**ULTRA-TEMP
HOT GAS 3 PIPE DEFROST**

LOW TEMPERATURE - BELOW + 20°F ROOM

MODEL NUMBER	Electronically Commutated Motors			Single Speed PSC Motors			3 Phase Motors		Ht. Exch./Re-Evap No Longer Available	Insulated Drain Pan	Approx. Ship Wt. (LBS)		
	Single Speed	Dual Speed		Variable Speed		230V/1	460V/1	575V/1				208-230V/3	460V/3
	230V ††	230V/1	460V/1	230V/1	460V/1								
UHL1-125	N/A	N/A	N/A	No longer available	\$6,256	\$6,568	N/A	N/A	N/A	Discontinued	\$2,424	180	
UHL1-152	N/A	N/A	N/A		6,773	7,111	N/A	N/A	N/A	Discontinued	2,424	200	
UHL1-193	N/A	N/A	N/A		7,925	8,314	N/A	N/A	N/A	Discontinued	2,424	220	
UHL2-240	N/A	N/A	N/A		11,068	11,622	N/A	N/A	N/A	Discontinued	2,715	370	
UHL2-304	N/A	N/A	N/A		11,941	12,542	N/A	N/A	N/A	Discontinued	2,715	400	
UHL2-361	\$16,129	\$16,830	\$17,086		14,365	15,082	\$15,384	N/A	N/A	Discontinued	2,715	425	
UHL2-408	17,709	18,410	18,665		15,945	16,740	17,075	N/A	N/A	Discontinued	2,715	446	
UHL3-445	19,494	20,546	20,929		16,848	17,698	18,053	\$16,848	\$16,848	Discontinued	3,006	525	
UHL3-540	21,147	22,198	22,582		18,501	19,430	19,819	18,501	18,501	Discontinued	3,006	585	
UHL3-613	21,902	22,953	23,337		19,388	20,356	20,764	19,388	19,388	Discontinued	3,006	620	
UHL3-660	23,549	24,601	24,984		21,036	22,092	22,533	21,036	21,036	Discontinued	3,006	645	
UHL4-722	27,291	28,693	29,205		23,622	24,804	25,301	23,622	23,622	Discontinued	3,253	675	
UHL4-817	31,803	33,205	33,716		28,134	29,536	30,127	28,134	28,134	Discontinued	3,253	726	
UHL4-950*	36,156	37,558	38,070		32,699	34,336	35,022	32,699	32,699	Discontinued	3,253	850	
UHL4-1100*	40,956	42,358	42,869		37,428	39,300	40,086	37,428	37,428	Discontinued	3,253	885	
UHL4-1260*	46,722	48,124	48,636		43,195	45,349	46,257	43,195	43,195	Discontinued	3,253	900	
UHL4-1380*	51,450	52,852	53,364		47,923	50,319	51,326	47,923	47,923	Discontinued	3,253	910	
UHU1-118	N/A	N/A	N/A	No longer available	6,687	7,017	N/A	N/A	N/A	Discontinued	2,424	180	
UHU2-236	N/A	N/A	N/A		11,908	12,500	N/A	N/A	N/A	Discontinued	2,715	370	
UHU2-355	18,189	18,890	19,146		16,425	17,244	17,589	N/A	N/A	Discontinued	2,715	440	
UHU3-474	23,715	24,766	25,150		21,069	21,738	22,173	22,619	22,619	Discontinued	3,006	570	
UHU4-711	33,373	34,424	34,808		29,845	31,333	31,960	31,913	31,913	Discontinued	3,253	665	
UHU4-851*	38,361	39,412	39,796		34,833	36,576	37,308	36,901	36,901	Discontinued	3,253	875	
UHU4-1080*	49,274	50,325	50,709		45,746	48,036	48,997	47,813	47,813	Discontinued	3,253	900	

MEDIUM TEMPERATURE - ABOVE + 28°F ROOM

MODEL NUMBER	Electronically Commutated Motors			Single Speed PSC Motors			3 Phase Motors		Ht. Exch./Re-Evap No Longer Available	Insulated Drain Pan	Approx. Ship Wt. (LBS)		
	Single Speed	Dual Speed		Variable Speed		115V/230V ††	460V/1	575V/1				208-230V/3	460V/3
	115/230V ††	230V/1	460V/1	230V/1	460V/1								
UHM1-164	\$7,235	\$7,512	\$7,677	No longer available	\$6,500	\$6,824	\$6,961	N/A	N/A	Discontinued	\$2,424	200	
UHM1-209	8,048	8,326	8,490		7,343	7,707	7,861	N/A	N/A	Discontinued	2,424	220	
UHM2-270	11,517	12,073	12,401		10,078	10,580	10,792	N/A	N/A	Discontinued	2,715	360	
UHM2-329	12,535	13,090	13,419		11,104	11,665	11,898	N/A	N/A	Discontinued	2,715	400	
UHM2-390	14,675	15,230	15,559		13,265	13,922	14,200	N/A	N/A	Discontinued	2,715	425	
UHM2-441	17,881	18,437	18,765		16,324	17,138	17,481	N/A	N/A	Discontinued	2,715	446	
UHM3-583	20,870	21,703	22,196		18,557	19,486	19,875	\$19,224	\$18,484	Discontinued	3,006	585	
UHM3-662	21,784	22,617	23,110		19,582	20,561	20,973	20,182	19,405	Discontinued	3,006	620	
UHM4-780	24,549	25,659	26,317		21,612	22,688	23,143	22,496	21,630	Discontinued	3,253	675	
UHM4-882	28,881	29,992	30,649		25,944	27,241	27,786	26,808	25,776	Discontinued	3,253	726	
UHM4-1100†	34,158	35,560	36,072		30,631	32,173	32,817	31,456	30,246	Discontinued	3,253	830	
UHM4-1320†	39,857	41,259	41,771		36,330	38,140	38,904	37,246	35,813	Discontinued	3,253	885	
UHM4-1656†	50,349	51,751	52,263		46,821	49,161	50,145	47,667	45,833	Discontinued	3,253	910	

† - Models not available with 115V motors.

230V motors are suitable for 208V operation.

* - Two liquid and suction connections per evaporator - 2 TXV's required.

EC motors not available for models with 1625 RPM motors.

1. Standard motors are single phase. 3 thru 6 fan models are delta wired for 3 phase supply.

2. Single speed Electronically Commutated motors are not available in 460V or 575V.

3. Models with 24" fans not available with 115V motors.

Dual speed EC motors are compliant with California Title 24 regulations.

†† ECM motors only available in single phase. Can be delta wired for 3 phase operation.

Ordering Information Required:

1. Model Number
2. Electrical connections. See page 13 for voltage codes and an example of nomenclature layout.
3. Evaporator temperature, T.D. and refrigerant type

**ULTRA-TEMP
HOT GAS - REVERSE CYCLE**

LOW TEMPERATURE - BELOW + 20°F ROOM

MODEL NUMBER	Electronically Commutated Motors					Single Speed PSC Motors			3 Phase Motors		Insulated Drain Pan	Heat Exchanger @10° TD		Approx. Ship Wt. (LBS)
	Single Speed	Dual Speed		Variable Speed		230V/1	460V/1	575V/1	208-230V/3	460V/3		MODEL	LIST	
	230V ††	230V/1	460V/1	230V/1	460V/1									
UGL1-125	N/A	N/A	N/A	No longer available	\$5,483	\$5,758	N/A	N/A	N/A	\$2,424	HX-150	\$324	180	
UGL1-152	N/A	N/A	N/A		6,006	6,303	N/A	N/A	N/A	2,424	HX-150	324	200	
UGL1-193	N/A	N/A	N/A		7,025	7,382	N/A	N/A	N/A	2,424	HX-150	324	220	
UGL2-240	N/A	N/A	N/A		9,705	10,188	N/A	N/A	N/A	2,715	HX-250	517	370	
UGL2-304	N/A	N/A	N/A		10,584	11,113	N/A	N/A	N/A	2,715	HX-250	517	400	
UGL2-361	\$13,800	\$14,151	\$14,279		12,036	12,521	\$12,772	\$13,718	\$13,718	2,715	HX-350	530	425	
UGL2-408	14,554	14,905	15,033		12,790	13,303	13,569	14,516	14,516	2,715	HX-350	530	446	
UGL3-445	18,654	19,004	19,132		15,585	16,209	16,533	17,234	17,234	3,006	HX-500	841	525	
UGL3-540	20,300	20,651	20,779		17,310	18,002	18,362	18,894	18,894	3,006	HX-500	841	585	
UGL3-613	20,767	21,118	21,246		17,883	18,601	18,973	19,573	19,573	3,006	HX-500	841	620	
UGL3-660	22,082	22,432	22,560		19,119	19,882	20,279	21,414	21,414	3,006	HX-500	841	645	
UGL4-722	24,839	25,189	25,317		21,134	21,876	22,314	24,416	24,416	3,253	HX-500	841	675	
UGL4-817	28,867	29,217	29,345		25,163	25,669	26,181	28,635	28,635	3,253	HX-500	841	726	
UGL4-950*	31,635	31,986	32,114		28,037	28,875	29,452	31,328	31,328	3,253	HX-500	841	850	
UGL4-1100*	32,955	33,305	33,433		29,322	29,815	30,412	32,673	32,673	3,253	(2) HX-500	1,682	885	
UGL4-1260*	36,815	37,166	37,294		33,217	34,218	34,902	37,403	37,403	3,253	(2) HX-500	1,682	900	
UGL4-1380*	40,481	40,832	40,960		36,883	38,448	39,218	41,285	41,285	3,253	(2) HX-500	1,682	910	
UGL5-1575*	44,862	45,212	45,340		40,452	45,608	46,521	45,190	45,190	3,549	(2) HX-500	1,682	1,125	
UGL5-1725*	48,454	48,805	48,932		44,044	46,509	47,440	49,893	49,893	3,549	(2) HX-500	1,682	1,175	
UGL6-1890*	55,018	55,368	55,496		49,938	51,685	52,719	56,773	56,773	3,843	(2) HX-500	1,682	1,250	
UGL6-2070*	59,554	59,904	60,032		54,792	59,318	60,505	62,061	62,577	3,843	(2) HX-500	1,682	1,300	
UGU1-118	N/A	N/A	N/A		No longer available	5,739	6,029	N/A	N/A	N/A	\$2,424	HX-150	324	180
UGU2-236	N/A	N/A	N/A			10,232	10,747	N/A	N/A	N/A	2,715	HX-250	517	370
UGU2-355	16,598	17,299	17,555			14,426	14,956	16,598	15,369	15,369	2,715	HX-350	530	440
UGU3-474	19,614	20,665	21,049			17,378	18,262	19,614	18,602	18,602	3,006	HX-350	530	570
UGU4-711	26,555	27,957	28,468			19,994	20,314	26,555	25,401	25,401	3,253	HX-500	841	665
UGU4-851*	32,099	33,501	34,013			25,961	26,853	32,099	31,148	31,148	3,253	(2) HX-500	1,682	875
UGU4-1080*	35,230	36,632	37,144			30,118	32,184	35,230	35,797	35,797	3,253	(2) HX-500	1,682	900
UGU5-1350*	47,686	49,438	50,078	42,514		45,071	47,686	52,069	52,069	3,549	(2) HX-500	1,682	1,150	
UGU6-1620*	62,862	62,862	64,297	59,053		63,931	62,862	69,099	69,099	3,843	(2) HX-500	1,682	1,275	

MEDIUM TEMPERATURE - ABOVE + 30°F ROOM

MODEL NUMBER	Electronically Commutated Motors					Single Speed PSC Motors			3 Phase Motors		Insulated Drain Pan	Ht.Exch @10° TD		Approx. Ship Wt. (LBS)
	Single Speed	Dual Speed		Variable Speed		230V/1	460V/1	575V/1	208-230V/3	460V/3		MODEL	LIST	
	115V / 230V/1	230V/1	460V/1	230V/1	460V/1									
UGM1-164	\$6,848	\$7,126	\$7,290	No longer available	\$6,070	\$6,378	\$6,505	N/A	N/A	\$2,424	HX-150	\$324	200	
UGM1-209	7,640	7,918	8,082		6,890	7,230	7,374	N/A	N/A	2,424	HX-150	324	220	
UGM2-270	10,736	11,292	11,620		9,239	9,706	9,900	N/A	N/A	2,715	HX-250	517	360	
UGM2-329	11,731	12,286	12,615		10,232	10,742	10,957	N/A	N/A	2,715	HX-250	517	400	
UGM2-390	13,870	14,425	14,754		12,372	12,993	13,253	N/A	N/A	2,715	HX-250	517	425	
UGM2-441	17,756	18,312	18,640		16,024	16,827	17,164	N/A	N/A	2,715	HX-250	517	446	
UGM3-583	20,739	21,572	22,065		18,162	19,064	19,444	\$19,635	\$19,635	3,006	HX-350	530	585	
UGM3-662	21,750	22,583	23,076		19,173	20,133	20,535	20,987	20,987	3,006	HX-350	530	620	
UGM4-780	22,835	23,945	24,603		19,545	22,370	22,817	23,422	23,422	3,253	HX-350	530	675	
UGM4-882	27,106	28,217	28,874		23,728	27,604	28,156	28,604	28,604	3,253	HX-350	530	726	
UGM4-1100†	33,015	34,417	34,929		29,206	30,668	31,281	32,311	32,311	3,253	(2) HX-350	1,060	830	
UGM4-1320†	37,369	38,771	39,282		33,665	35,346	36,053	42,320	42,320	3,253	(2) HX-350	1,060	885	
UGM4-1656†	44,574	45,976	46,487		40,076	44,317	45,203	50,921	50,921	3,253	(2) HX-500	1,682	910	
UGM5-2065†	49,420	51,173	51,812		44,922	55,390	56,497	61,842	61,842	3,549	(2) HX-500	1,682	1,130	
UGM6-2480†	60,001	62,104	62,872		55,269	63,858	65,135	71,063	71,063	3,843	(2) HX-500	1,682	1,250	

† - These models not available with 115V motors.

* Two liquid and suction connections per evaporator - 2 TXV's required.

1. Standard motors are single phase. Three thru six fan models are delta wired for 3 phase supply voltage.

2. List adder - Liquid TEV bypass check valve, shipped loose. \$379 (Through 270), \$1044 (Through 583), \$1654 (Through 2840).

3. Single speed Electronically Commutated motors are not available in 460V or 575V.

4. Models with 24" fans not available with 115V motors. 230V motors are suitable for 208V operation.

Dual speed EC motors are compliant with California Title 24 regulations.

†† ECM motors only available in single phase. Can be delta wired for 3 phase operation.

EC motors not available for models with 1625 RPM motors.

Ordering Information Required:

1. Model Number.
2. Electrical connections (voltage/phase/frequency). See page 13 for codes and nomenclature layout.
3. Evaporator temperature, T.D. and refrigerant type.

SYSTEM PRICING EXAMPLES

Example 1:

5 HP, R404A +35°F cooler matched with 2 unit coolers,
95°F summer ambient, 10°F winter ambient.

QTY.		LIST PRICE
1	RFDS05M4SEA Outdoor Condensing Unit 230/3/60 53,000 BTUH @ 25° S.T. and 95° ambient	\$21,567
2	RL6A235-AE Unit Coolers 115V/1/60	12,822
Field installed components		
2	Thermostatic expansion valves	656
1	Liquid line solenoid valve (loose)	315
1	Room thermostat (loose)	285
Optional accessories		
1	Air defrost timer installed	554
TOTAL LIST PRICE		\$36,199
1	Additional 4 year Compressor Protection Plans	NET PRICE \$454

Example 2:

10HP, R404A, -10°F Freezer, matched with 2 unit coolers
95°F Summer ambient, 35°F winter ambient

QTY.		
1	RFDS10L4SEA Outdoor Condensing 230/3/60 50,300 BTUH @ -20° S.T. and 95° ambient	\$37,521
1	DMB35 Electric defrost provisions, factory installed	2,132
2	UEL2-304 unit coolers, 230/1/60 motors, 230/3/60 defrost 25,150 BTUH each @ 9 T.D.	20,952
Field installed components		
2	Thermostatic expansion valves (loose)	1,102
1	Liquid line solenoid valve (loose)	455
1	Room thermostat (loose)	285
Optional accessories		
1	Suction Accumulator (mounted)	1,154
1	Oil separator (mounted)	1,424
2	RXH - 350 Heat exchangers (field installed)	1,060
TOTAL LIST PRICE		\$66,085
1	Additional 4 year Compressor Protection Plans	NET PRICE \$821

OPTIONAL SYSTEM COMPONENTS

HEAT EXCHANGERS - Shipped Loose

MODEL NUMBER	PART NUMBER	LIST PRICE	CONNECTIONS (inches)		APPROXIMATE LENGTH (inches)
			LIQUID	SUCTION	
HX-25	105065001	\$156	1/4	1/2	12
HX-50	105065003	184	3/8	5/8	13
HX-75	105065004	253	3/8	7/8	14
HX-100	105065005	324	3/8	1-1/8	14
HX-150	105065006	374	1/2	1-1/8	14
HX-250	105065007	517	5/8	1-3/8	14
HX-350	105065008	530	5/8	1-5/8	16
HX-500	105065009	841	7/8	2-1/8	17
LHX-15	105065010	2,307	7/8	2-1/8	30
LHX-20	105065011	2,469	1-1/8	2-1/8	30
LHX-25	105065012	2,644	1-1/8	2-5/8	38

EXPANSION VALVES

BALANCED PORT TXV'S		LIST
1/4 - 3 Tons	Loose	\$333
	Installed	377
4 - 9 Tons	Loose	426
	Installed	664
10 - 30 Tons	Loose	741
	Installed	1097
Electronic Expansion Valves		List
1 to 15 Tons	Loose	\$1,020
	Installed	1,348
16 to 25 Tons	Loose	1,465
	Installed	1,793

- EEV prices include cable.
- EEV prices DO NOT include controller.

KE2 EVAP-OEM EVAPORATOR DEFROST CONTROL *

DESCRIPTION	PART NUMBER	LIST EACH
Factory Installed - For NEXT-GEN ALL-TEMP Low Profile 115V or 230V/1 (Air or Electric Defrost Models)	0829632	\$3,792

*1Ø units only. Internally mounted control board, external display, mounted sensors and EEV.

SURVEILLANT EVAPORATOR DEFROST CONTROL*

DESCRIPTION	PART NUMBER	LIST EACH
Factory Installed - For CTA models - 115V (Air Defrost Only)	08219551	\$5,506
Factory Installed - For CTA/CTE models - 230V/1 (Air or Electric Defrost)	08219552	
Smartgate Router (Shipped Loose)	08219541	\$2,890

*1Ø units only. Externally mounted control enclosure, mounted sensors and EEV

ROOM THERMOSTATS

TYPE	RANGE	LIST
Mechanical - Loose	-30°F to + 100°F	\$285
Mechanical - Installed @ Evap		\$309
Electronic - Loose	-30°F to + 100°F	\$368
Electronic - Installed @ Evap		\$386

LIQUID LINE SOLENOID VALVE - LIST PRICE EACH

HORSEPOWER RANGE	LOOSE	MTD*
1/2 thru 3 HP	\$281	\$303
4 thru 8 HP	315	351
9 thru 10 HP	455	581
12 thru 15 HP	562	725
22 HP	717	831

* Mounted at the evaporator. LLS mounted at the condensing unit is not available.

NEXT-GEN MINICON • AIR COOLED CONDENSING UNITS

1/2 THRU 6 H.P.

Standard Features (all models)

- Hermetic or Scroll compressors
- Weather resistant painted galvanized steel housing on a raised galvanized steel base
- Generously sized condenser. Enhanced Copper tubing / Aluminum fins
- Integrated subcooling loop increases system efficiency
- Easy access liquid & suction line shut off valves mounted external to cabinet
- Liquid receiver with isolation valve and pressure relief plug
- **Liquid line filter/drier and sight glass with moisture indicator**
- Suction line piping (filter optional)
- Encapsulated auto reset high pressure control
- Mild Ambient Fan Cycle control (RB models only)
- Large electrical control panel with hinged/lift off door
- Color coded wiring with point-to-point wiring diagram
- Crankcase heater
- PSC condenser fan motor(s)
- **Air Defrost Timer on all Medium Temp. models**
- **All Low temp. models include Electric Defrost provisions**
- UL and CUL listed for indoor / outdoor use
- Adjustable low pressure control for low temp models
- Encapsulated auto reset low pressure control (medium temps)

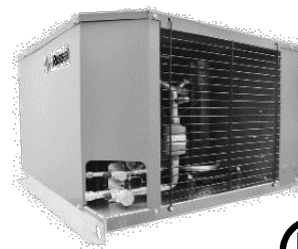
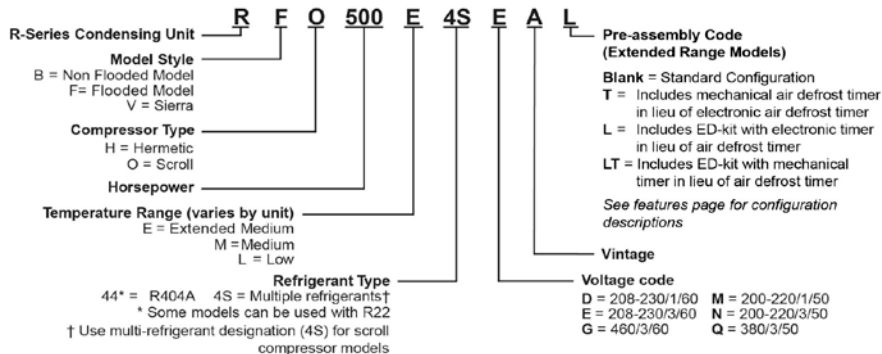
RF models also include a Flooded Head Pressure Control Valve (70°F) as a standard feature.

RV models feature the Sierra™ refrigeration system and no refrigerant receiver.

Optional Components

- Electric Defrost on Extended range med.temp models
- Suction line filter
- Mounted replaceable core liquid or suction line filter (4 to 6 HP)
- Suction Accumulator
- Oil Separator (may not be available with accumulator)
- Liquid line piping only (no filter)
- Copper or polyester coated fins
- Electro-Fin coated condenser coil
- Single Speed EC condenser mtr.
- Pump down toggle switch
- Thru-the-door disconnect switch (some models)
- External fused or non-fused disconnect
- Paragon Mechanical timer
- CPC timer
- Phase loss monitor
- Snow / Hail guards

NOMENCLATURE:



†Not all options available for Sierra models

HERMETIC COMPRESSOR MODELS																
REF TYPE	NOM. H.P.	Model Number	Compressor	RF OUTDOOR FLOODED LIST PRICE			RV SIERRA UNIT LIST PRICE			RB INDOOR / OUTDOOR BASE UNIT LIST PRICE			ECM Cond. Motor Add.	4 year Compressor Protection Plan	Approx. Ship Wt. (LBS)	
				(Includes Flooded Head Pressure Control Valve, Liquid Line Kit with Filter/Drier and Sight Glass with Moisture Indicator, and Defrost Timer or Kit)												
				208-230V/3	208-230V/1	460V/3	208-230V/3	208-230V/1	460V/3	208-230V/3	208-230V/1	460V/3				
EXTENDED RANGE MEDIUM TEMP R404A	0.50	R*H055E4S	RST45C1E	N/A	\$6,665	N/A	N/A	\$6,665	N/A	N/A	N/A	\$6,245	N/A	\$248	\$105 NET	152
	0.75	R*H080E4S	RST55C1E	N/A	6,721	N/A	N/A	6,721	N/A	N/A	N/A	6,327	N/A	248	105 NET	156
	0.75	R*H090E4S	RST64C1E	N/A	7,143	N/A	N/A	7,143	N/A	N/A	N/A	6,707	N/A	248	105 NET	160
	1.00	R*H100E4S	RST70C1E	\$7,395	7,479	N/A	\$7,395	7,479	N/A	\$6,928	7,013	N/A	248	105 NET	167	
	1.25	R*H125E4S	RST97C1E	7,745	7,833	N/A	7,745	7,833	N/A	7,285	7,356	N/A	496	118 NET	195	
	1.50	R*H150E44	CS10K6E	8,027	8,052	\$8,528	8,027	8,052	\$8,528	7,573	7,582	\$7,980	496	118 NET	205	
	2.00	R*H200E44	CS12K6E	8,608	8,452	N/A	8,608	8,452	N/A	8,137	7,993	N/A	496	129 NET	228	
	3.00	R*H300E44	CS18K6E	8,853	9,040	9,807	8,853	9,040	9,807	8,416	8,604	9,374	496	142 NET	253	
LOW TEMP R404A	1.00	R*H100L44	CF04K6E	7,415	7,294	N/A	7,415	7,294	N/A	6,955	6,916	N/A	496	118 NET	195	
	1.50	R*H150L44	CF06K6E	7,453	7,324	7,757	7,453	7,324	7,757	6,996	6,944	7,316	496	118 NET	195	
	2.00	R*H200L44	CF09K6E	8,339	8,002	8,475	8,339	8,002	8,475	7,867	7,621	8,031	496	129 NET	243	
	3.00	R*H300L44	CF12K6E	10,591	10,448	11,104	10,591	10,448	11,104	10,169	10,017	10,672	496	142 NET	255	

§ For R507 models, use equivalent R404A model prices.

* Models 055E4S, 080E4S, and 090E4S are not suitable for use with R507. Use Scroll compressors for refrigerants other than R404A/507.

†Additional price to order optional ECM condenser fan motors. Not available for 460V.

NOTE: An optional Electric Defrost kit must be ordered in lieu of the standard Air Defrost Timer when Extended range medium temperature models are used for low temperature applications.

NEXT-GEN R-Series MINICON • AIR COOLED CONDENSING UNITS
1/2 THRU 6 H.P. Scroll Compressors

Minicon Next-Gen Scroll:

Minicon Next-Gen Air Cooled Condensing Units are configured with quiet and reliable scroll compressors.

Models range from 1/2 to 6 horsepower. Refer to page 21 for a list of optional components and publication number RU-RFH for detailed specifications.



NEXT-GEN MINICON • SCROLL CONDENSING UNITS

Temp Range	NOM H.P.	Model Number	Compressor	RF FLOODED UNIT LIST PRICE (Includes Flooded Head Pressure Control Valve, Liquid Line Kit with Filter/Drier and Sight Glass with Moisture Indicator, and Defrost Timer or Kit)*			RV SIERRA UNIT LIST PRICE (Includes Flooded Head Pressure Control Valve, Sierra System, Liquid Line Kit with Filter/Drier and Sight Glass with Moisture Indicator, and Defrost Timer or Kit)*			RB NON FLOODED UNIT LIST PRICE (Includes Liquid Line Kit with Filter/Drier and Sight Glass with Moisture Indicator, and Defrost Timer or Kit)*			EC ¹ Motor Adder	4 Year Compressor Protection Plan	Approx. Ship Wt. (LBS)	
				208-230V/3	208-230V/1	460/3	208-230V/3	208-230V/1	460/3	208-230V/3	208-230V/1	460/3				
Medium Temp	0.5	R*O060M4S	ZB06KAE	\$7,429	\$7,341	N/A	\$7,429	\$7,341	N/A	\$7,059	\$6,976	N/A	\$248	\$194	NET	195
	0.75	R*O080M4S	ZB07KAE	7,955	7,752	N/A	7,955	7,752	N/A	7,589	7,386	N/A	248	194	NET	195
	1.0	R*O100M4S	ZB08KAE	8,050	7,897	N/A	8,050	7,897	N/A	7,684	7,527	N/A	248	194	NET	195
	1.0	R*O130E4S	ZS09KAE	8,336	8,362	\$9,176	8,336	8,362	\$9,176	7,958	7,950	\$8,803	248	194	NET	195
	1.25	R*O150E4S	ZS11KAE	8,473	8,418	9,398	8,473	8,418	9,398	8,092	8,010	9,018	248	194	NET	205
	1.5	R*O180E4S	ZS13KAE	9,157	9,311	9,849	9,157	9,311	9,849	8,691	8,719	9,427	248	194	NET	210
	2.0	R*O200E4S	ZS15KAE	9,385	9,321	9,962	9,385	9,321	9,962	8,937	8,874	9,540	248	194	NET	215
	2.5	R*O250E4S	ZS19KAE	9,621	9,496	10,103	9,621	9,496	10,103	9,181	9,047	9,681	248	194	NET	230
	3.0	R*O300E4S	ZS21KAE	10,341	10,165	10,774	10,341	10,165	10,774	9,951	9,787	10,408	442	253	NET	305
	3.0	R*O350E4S	ZS26KAE	11,340	11,165	11,743	11,340	11,165	11,743	10,899	10,720	11,317	442	253	NET	325
4.0	R*O400E4S	ZS29KAE	11,096	11,318	12,205	11,096	11,318	12,205	10,699	10,883	11,812	442	264	NET	352	
4.5	R*O450E4S	ZS33KAE	11,971	12,213	13,176	11,971	12,213	13,176	11,544	11,802	12,656	442	271	NET	375	
5.0	R*O500E4S	ZS38KAE	12,920	12,780	13,320	12,920	12,780	13,320	12,543	12,398	12,915	442	271	NET	383	
6.0	R*O600E4S	ZS45K4E	14,337	N/A	14,739	14,337	N/A	14,739	13,842	N/A	14,314	442	271	NET	405	
Low Temp	1.0	R*O100L4S	ZF03KAE	8,575	8,462	N/A	8,575	8,462	N/A	8,005	8,003	N/A	248	194	NET	195
	1.3	R*O130L4S	ZF04KAE	8,948	8,830	N/A	8,948	8,830	N/A	8,445	8,403	N/A	248	194	NET	195
	1.5	R*O160L4S	ZF05KAE	9,349	9,225	N/A	9,349	9,225	N/A	8,891	8,819	N/A	248	194	NET	195
	2.3	R*O230L4S	ZF07K4E	9,921	9,788	N/A	9,921	9,788	N/A	9,534	9,405	N/A	248	194	NET	230
	2.5	R*O250L4S	ZF08K4E	10,760	10,571	11,601	10,760	10,571	11,601	10,394	10,205	11,021	248	194	NET	240
	3.0	R*O300L4S	ZF09K4E	11,152	10,948	11,799	11,152	10,948	11,799	10,786	10,826	11,381	248	253	NET	245
	3.5	R*O350L4S	ZF11K4E	12,233	12,096	12,635	12,233	12,096	12,635	11,866	11,693	12,269	248	253	NET	255
	4.0	R*O400L4S	ZF13K4E	13,766	13,629	13,960	13,766	13,629	13,960	13,400	13,263	13,594	442	264	NET	352
5.0	R*O500L4S	ZF15K4E	14,160	14,084	14,393	14,160	14,084	14,393	13,794	13,653	14,027	442	264	NET	367	
6.0	R*O600L4S	ZF18K4E	14,983	N/A	15,223	14,983	N/A	15,223	14,617	N/A	14,857	442	271	NET	383	

¹Additional list price to order optional ECM condenser fan motors. Not available for 460V.

* See page 19 for a complete list of features, voltage codes and an example of nomenclature layout.

NOTE: An optional Electric Defrost kit must be ordered in lieu of the standard Air Defrost Timer when Extended Range Medium Temperature Models are used for low temperature applications.

LEGACY MINICON / R-SERIES • AIR COOLED CONDENSING UNITS

Standard features for Legacy RE style Indoor / Outdoor models:

- Semi-hermetic compressors
- Heavy gauge galvanized steel weather-proof housing on a raised base
- Compressor Contactor (three phase) or Start Kit (single phase)
- Main Power Block and Control Circuit Fuses
- High-low Pressure Control and Oil Pressure Control (when required)
- Liquid Receiver with Shut-off Valve and Pressure Relief Plug
- Liquid and suction line piping (filters are optional)
- PSC condenser fan motor(s)
- UL and cUL listed.

Standard features for Legacy RL style models:

- Same features as RE models, plus:
- Liquid Line Filter/Drier, Sight Glass & Pre-bent Piping
- Crankcase Heater
- Low ambient Head Pressure Valve.
- Air Defrost Timer on 2-1/2 to 3 H.P. Medium & High Temp models
- Electric Defrost Timer with Defrost Contactor/Relay on Low Temp models (ED10-230/1 on 1/2 thru 3 HP)

SEMI-HERMETIC COMPRESSOR MODELS

REF TYPE	NOM H.P.	Model Number	Compressor	RL OUTDOOR PACKAGE LIST PRICE			RE INDOOR/ OUTDOOR LIST PRICE			4 Year Compressor Protection Plan	Approx. Ship Wt (LBS)	EC ¹ Motor Adder	
				208-230V/3	208-230V/1	460V/3	208-230V/3	208-230V/1	460V/3				
MEDIUM TEMP R404A	0.75	R*S075M44	KAN-007E	\$8,015	\$8,015	N/A	\$7,086	\$7,086	N/A	\$194	NET	215	\$248
	1.0	R*S100M44	KAR-010E	8,253	8,253	N/A	6,804	6,804	N/A	194	NET	220	248
	1.5	R*S150M44	KAG-010E	9,988	N/A	N/A	8,158	N/A	N/A	194	NET	245	496
	2.0	R*S200M44	KAK-02xE	11,728	11,728	N/A	10,150	10,150	N/A	194	NET	270	496
	2.5	R*S250M44	ERC-02xE	12,192	N/A	13,334	11,719	N/A	\$12,785	194	NET	194	496
LOW TEMP R404A	3.0	R*S300M44	ERF-031E	13,650	14,005	14,291	12,540	12,892	13,357	253	NET	415	496
	0.50	R*S050L44	KAN-005E	8,584	8,584	N/A	6,250	6,035	N/A	194	NET	189	248
	0.75	R*S075L44	KAM-007E	9,216	9,216	N/A	6,584	6,402	N/A	194	NET	205	248
	1.0	R*S100L44	KAJ-01xE	9,638	9,638	9,977	7,258	7,244	7,538	194	NET	220	248
	1.5	R*S150L44	KAL-01xE	10,057	9,900	11,000	8,474	8,337	9,900	194	NET	248	496
	2.0	R*S200L44	EAV-021E	12,410	12,477	13,143	10,314	10,467	12,343	194	NET	290	496
3.0	R*S300L44*	LAH-032E	13,792	13,792	14,191	12,402	12,683	13,382	253	NET	383	496	

* Model R*S300L44 is not available for 208V/1 (230V only).

¹Additional list price to order optional Electronically Commutated condenser fan motors. Not available for 460V.

MINICON WITH DISCUS COMPRESSOR

No Longer Available. Select Next Gen II model - See Page 22

MINICON / R-SERIES • AIR COOLED CONDENSING UNITS
1/2 THRU 6 H.P.

FACTORY INSTALLED OPTIONS

OPTIONS / ACCESSORIES	OPTION NUMBER	H.P. RANGE	RF MODELS	RV MODELS	RB MODELS	RL PACKAGE	RE MODELS
CRANKCASE HEATER	CCH-1	1/2 - 6 H.P.	STD.	STD.	STD.	STD.	\$206
DEDUCT CRANKCASE HEATER	CCH-DED	1/2 - 6 H.P.	-\$206	-\$206	-\$206	-\$206	N/A
LIQUID LINE COMPONENTS	LK-MC1	1/2 - 3 H.P.	STD.	STD.	STD.	STD.	518
- Filter drier, sight-glass and piping	LK-MC2	4 - 6 H.P.	STD.	STD.	STD.	STD.	601
LIQUID LINE ONLY (Deduct liquid line filter and sight glass)	LL-MC1	1/2 - 3 H.P.	-330	N/A	-330	N/A	STD.
	LL-MC2	4 - 6 H.P.	-393	N/A	-393	N/A	STD.
Replaceable Core Liquid Filter/Dryer (4 - 6 H.P. only) Must add LK for RE unit	RPL-4	4 - 6 H.P.	486	486	486	486	486
SUCTION LINE COMPONENTS	SK-MC1	1/2 - 3 H.P.	330	330	330	330	330
- Filter and Piping	SK-MC2	4 - 6 H.P.	393	393	393	393	393
REPLACEABLE CORE SUCTION FILTER (4 - 6 H.P. only)	RPS-4	4 - 6 H.P.	470	470	470	470	470
SUCTION LINE ACCUMULATOR - Must add SK option	ASK-3	1/2 - 2 HP	508†	508†	508†	508†	508†
	ASK-4	2½ - 6 H.P.	785†	785†	785†	785†	785†
OIL SEPARATOR 4-6 HP (Due to space limits, may not be available with ASK opt)	OS-4	4 - 6 H.P.	1,337	1,337	1,337	1,337	1,337
OVER-SIZED RECEIVER – Refers to Next Gen CU frame sizes FM1 through FM4. See product catalogue for details. Contact factory for Legacy model oversized receiver prices.	OSR-1	FM1	422	N/A	422	Contact Application Engineering for pricing this option	
	OSR-2	FM2	503	N/A	503		
	OSR-3	FM3	1,203	N/A	1,203		
	OSR-4	FM4	1,235	N/A	1,235		
SPRING MOUNT AND DISCHARGE VIBRASORBER - Semi-Hermetics only. - Standard on 4 - 6 H.P. models,	SPR-VB	1/2 - 3 H.P.	N/A	N/A	N/A	253	253
		4 - 6 H.P.	N/A	N/A	N/A	NLA	NLA
LOW AMBIENT FLOODED HEAD PRESSURE CONTROL	FLD-SF	1/2 - 2 H.P.	STD.	N/A	N/A	STD.	367
	FLD-F	2½ - 3 H.P.	STD.	N/A	N/A	STD.	367
MILD AMBIENT FAN CYCLE	FC-1	RB all, RE 2 fan only	N/A	N/A	STD	N/A	359
ADJUSTABLE LOW PRESSURE CONTROL (For medium temperature units)	ADJ-LP	1/2 - 6 H.P.	153	153	153	153	153
ADJUSTABLE HI/LOW PRESSURE CONTROL	204464041	1/2 - 6 H.P.	344	344	344	344	344
PUMPDOWN TOGGLE SWITCH	PDS	1/2 - 6 H.P.	324	N/A	324	324	324
AIR DEFROST TIMER ¹ (Electronic timer is standard. No additional charge to substitute mechanical timer. Specify at time of order.)	TMR ¹	1/2 - 6 H.P.	STD.	STD.	STD.	554	554
DEDUCT AIR DEFROST TIMER ¹	DEDUCT TMR ¹	2 1/2 - 6 H.P.	-554	-554	-554	-554	N/A
SUBSTITUTE ED KIT (ED5 THRU ED10) FOR AIR DEFROST TIMER ²	REPLACE TMR ²	1 - 6 H.P. ²	114	114	114	N/A	N/A
ELEC. DEFR. TIMER WITH BLOCK-OUT RELAY 230/1 ^{††}	ED-5 THRU ED-10	1/2 - 6 H.P.	STD.*	STD.*	STD.*	STD.*	668
[†] 2 EVAP ELEC. DEFR. TIMER WITHOUT BLOCK-OUT RELAY 230/1 ^{††}	ED-210-A2	1/2 - 6 H.P.	SPECIFY	SPECIFY	SPECIFY	SPECIFY	668
ELECTRIC DEFR. TIMER WITH BLOCK-OUT AND CONTACTOR 230/3 ^{††}	ED-11-B2	1/2 - 6 H.P.	STD.*	STD.*	STD.*	STD.*	668
DEDUCT STANDARD EVAP ELECTRIC DEFROST COMPONENTS		1/2 - 6 H.P.	-668	-668	-668	-668	N/A
^{††} 2 EVAP ELEC. DEFR. TMR WITH ONE 30 AMP DEFR. CONTACTOR 230/3 ^{††}	ED-211-B2	1/2 - 6 H.P.	SPECIFY	SPECIFY	SPECIFY	SPECIFY	668
2 EVAP ELEC. DEFR. TMR WITH ONE 50 AMP DEFR. CONTACTOR 230/3 ^{††}	ED-213-B2	1/2 - 6 H.P.	742	742	742	742	1,296
2 EVAP. ELEC. DEFR. WITH SEQUENCING & B.O. RELAYS 230/1 ^{††}	ED-20-A2	4 - 6 H.P.	1,183	1,183	1,183	1,183	1,851
2 EVAP. ELEC. DEFR. WITH SEQ. & B.O. W/ CONTACTORS 230/3 ^{††}	ED-21-B2	4 - 6 H.P.	1,183	1,183	1,183	1,183	1,851
HEATED AND INSULATED RECEIVER	HIR	1/2 - 6 H.P.	689	N/A	689	689	689
PHASE LOSS MONITOR	PLM	1/2 - 6 H.P.	1,129	1,129	1,129	1,129	1,129
CRANKCASE PRESSURE REGULATING VALVE - (LOOSE ONLY)	CPR-1	1/2 - 6 H.P.	752	752	752	752	752
POLYESTER COATED CONDENSER FINS	PCF	1/2 - 3 H.P.	957	957	957	957	957
		4 - 6 H.P.	1,245	1,245	1,245	1,245	1,245
COPPER FINS OR ELECTRO FIN COATED COIL	CONTACT APPLICATIONS ENGINEERING FOR PRICING						
THRU THE DOOR NON - FUSED DISCONNECT SWITCH	TDNM-1	1/2 - 3 H.P.	485	485	485	485	485
	TDNM-2	4 - 6 H.P.	643	643	643	643	643
THRU THE DOOR FUSED DISCONNECT SWITCH	TDFM-1	1/2 - 3 H.P.	N/A	N/A	N/A	N/A	N/A
	TDFM-2	4 - 6 H.P.	1,318	1,318	1,318	1,318	1,318
EXTERNAL FUSED DISCONNECT (Mounted)	EFDN-1	1/2 - 3 H.P.	545	545	545	545	545
	EFDN-2	4 - 6 H.P.	1,003	1,003	1,003	1,003	1,003

FIELD INSTALLED OPTIONS

OPTIONS AND ACCESSORIES		H.P. RANGE	RF MODELS	RV MODELS	RB MODELS	RL MODELS	RE MODELS
EXTERNAL FUSED DISCONNECT (Shipped loose)	EFDL-2	4 - 6 H.P.	\$902	\$902	\$902	\$902	\$902
TWO TIERED STACKING RACK	08357263	1/2 - 3 H.P.	9,925	9,925	9,925	C/F	C/F
	08357286	4 - 6 H.P.	9,925	9,925	9,925	C/F	C/F
SNOW / HAIL GUARDS (Shipped loose)	SG-A	Config. A, FM1	370	370	370	370	370
	SG-B	Config. B, FM2	407	407	407	407	407
	SG-C	Config. C, FM3	441	441	441	441	441
	SG-D	Config. D, FM4	541	541	541	541	541

Negative numbers represent the price to be deducted from base price if a standard feature is removed.

¹ AIR DEFROST TIMER IS STANDARD ON 2-1/2 - 6 HP HIGH/MEDIUM TEMP RL MODELS AND STANDARD FOR ALL RF AND RB MED. TEMP. MODELS

² SUBSTITUTE ED KIT (ED5 THRU ED10) FOR AIR DEFROST TIMER. VALID FOR NEXT-GEN EXTENDED RANGE MINICONS ONLY. APPLIES TO PRE-ASSEMBLY CODES L AND LT. SEE NOMENCLATURE ON PAGE 19.

[†] ELECTRIC DEFROST PROVISIONS (ED KIT) FOR ONE EVAP IS A STANDARD FEATURE ON LOW TEMPERATURE UNITS (ED Kits are optional for RE models).

^{††} REFER TO THE APPROPRIATE EVAPORATOR PRODUCT BULLETIN TO IDENTIFY THE CORRECT E.D. KIT FOR YOUR REQUIREMENT.

NOT ALL E.D. KITS FIT INTO ALL CONTROL PANELS. CONTACT APPLICATIONS ENGINEERING WITH QUESTIONS.

† MUST ADD SK OPTION TO ADD A SUCTION LINE ACCUMULATOR IF SK IS NOT ALREADY INCLUDED (See R-Series publication for details).

NOTE: NOT ALL OPTIONS ARE AVAILABLE FOR SIERRA CONDENSING UNITS. CONTACT YOUR RUSSELL REPRESENTATIVE FOR A SPECIAL PRICE QUOTE.

NEXT-GEN II AIR COOLED CONDENSING UNITS

3 THRU 22 H.P.



Unit is shown with optional components mounted

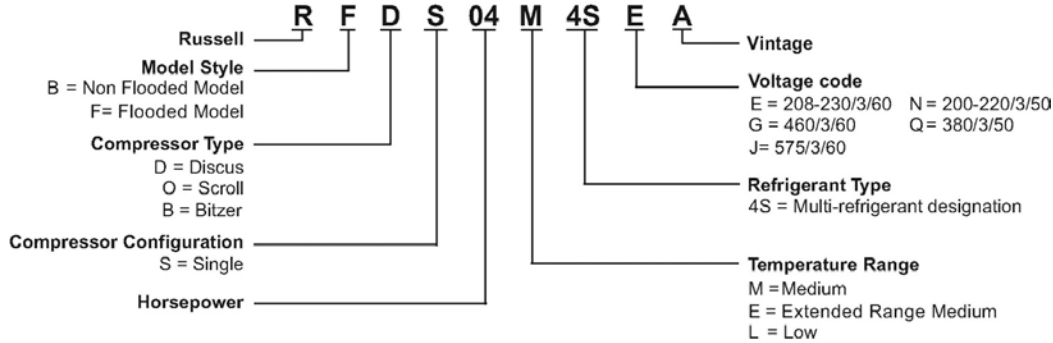
Standard Features (all models):

- Copeland Discus™, Copeland Scroll™ or Bitzer Semi-Hermetic Compressor
- All weather G90 galvanized steel painted enclosure
- Removable side panels for ease of service
- Generously sized high efficiency condenser, with enhanced copper tubes/and aluminum fins
- Liquid line kit with sealed filter/drier and sight glass with moisture indicator
- Easy access base mounted service valves placed external to cabinet
- Dual pressure (auto reset) controls with flexible Reflex® hoses
- Vertical receiver with isolation valves
- Refrigerant pressure relief valve (Larger models in FD2 and FD3 cabinets)
- Integral liquid subcooling circuit
- Suction line piping (filter optional)
- Heavy duty three phase condenser fan motor(s)
- Crankcase heater
- Control circuit fuses
- Pump down toggle switch
- Large electrical panel with hinged door
- 208-230V control voltage
- Color coded point-to-point wiring
- Fan cycling on RB models
- Liquid injection / Demand Cooling™ for low temp compressors

RF models also include a Flooded Head Pressure Control Valve (70°F) as a standard feature

Optional Features (all models):

- Electronic air defrost timer
- Electric defrost kits
- Mechanical timer in lieu of electronic timer
- 50 Hz timer and/or defrost kit
- Current sensing relay
- Thru the door Non-fused disconnect
- Suction line filter (sealed)
- Suction accumulator
- Oil separator
- Replaceable core liquid filter with bypass
- Replaceable core suction filter with bypass
- External fused or non-fused disconnect - loose or mounted
- Heated and insulated receiver (Temp controlled with low pressure bypass timer)
- Refrigerant pressure relief valve (for models in FD1 cabinet).
- Oversized receiver
- Insulated receiver
- Hail / Snow Guard - shipped loose (only)
- 316 Grade stainless steel housing
- Crankcase pressure regulator



Temp Range	Compressor (Discus™)	H.P.	Model Number	RF	VOLTAGE	Model Number	RB	4 Year Compressor Protection Plan	Approx. Ship Wt. (LBS)
				Flooded Unit List Price			Non Flooded List Price		
Medium Temp Discus	2DC3R53K	04	RFDS04M4SEA	\$21,185	208/230/3/60	RBDS04M4SEA	\$20,204	\$454 NET	825
			RFDS04M4SGA	22,504	460/3/60	RBDS04M4SGA	21,522		
			RFDS04M4SJA	22,955	575/3/60	RBDS04M4SJA	21,974		
	2DD3R63K	05	RFDS05M4SEA	21,567	208/230/3/60	RBDS05M4SEA	20,585	454 NET	850
			RFDS05M4SGA	22,832	460/3/60	RBDS05M4SGA	21,850		
			RFDS05M4SJA	23,406	575/3/60	RBDS05M4SJA	22,424		
	2DL3R78K	06	RFDS06M4SEA	26,786	208/230/3/60	RBDS06M4SEA	25,804	550 NET	1,075
			RFDS06M4SGA	28,650	460/3/60	RBDS06M4SGA	27,669		
			RFDS06M4SJA	29,220	575/3/60	RBDS06M4SJA	28,239		
	2DA3R89K	07	RFDS07M4SEA	27,354	208/230/3/60	RBDS07M4SEA	26,372	558 NET	1,100
			RFDS07M4SGA	29,027	460/3/60	RBDS07M4SGA	28,045		
			RFDS07M4SJA	29,598	575/3/60	RBDS07M4SJA	28,616		
	3DA3R10M	08	RFDS08M4SEA	30,677	208/230/3/60	RBDS08M4SEA	29,696	558 NET	1,130
			RFDS08M4SGA	32,515	460/3/60	RBDS08M4SGA	31,533		
			RFDS08M4SJA	33,178	575/3/60	RBDS08M4SJA	32,196		
	3DB3R12M	10	RFDS10M4SEA	32,896	208/230/3/60	RBDS10M4SEA	31,914	721 NET	1,330
			RFDS10M4SGA	34,599	460/3/60	RBDS10M4SGA	33,617		
			RFDS10M4SJA	35,237	575/3/60	RBDS10M4SJA	34,255		
	3DF3R15M	12	RFDS12M4SEA	35,635	208/230/3/60	RBDS12M4SEA	34,653	865 NET	1,330
			RFDS12M4SGA	37,030	460/3/60	RBDS12M4SGA	36,048		
			RFDS12M4SJA	N/A	575/3/60	RBDS12M4SJA	N/A		
	3DS3R17M	15	RFDS15M4SEA	37,127	208/230/3/60	RBDS15M4SEA	36,146	1,116 NET	1,350
			RFDS15M4SGA	38,381	460/3/60	RBDS15M4SGA	37,399		
			RFDS15M4SJA	39,033	575/3/60	RBDS15M4SJA	38,051		

Voltage codes: E = 208-230/3/60, G = 460V/3/60, J = 575V/3/60

* See next page for condensing units with low temp Discus™ or Scroll™ compressors.

NEXT-GEN II AIR COOLED CONDENSING UNITS
3 THRU 22 H.P. - DISCUS™ and SCROLL™

Temperature Range	Compressor (Discus™)	H.P.	Model Number	RF	VOLTAGE	Model Number	RB	4 Year Compressor Protection Plan	Approx. Ship Wt. (LBS)
				Flooded List Price			Non Flooded List Price		
Low Temp Discus	2DF3F16K	03	RFDS03L4SEA	\$23,541	208/230/3/60	RBDS03L4SEA	\$22,559	\$306 NET	710
			RFDS03L4SGA	24,997	460/3/60	RBDS03L4SGA	24,015		
			RFDS03L4SJA	25,528	575/3/60	RBDS03L4SJA	24,547		
	2DL3F20K	04	RFDS04L4SEA	25,566	208/230/3/60	RBDS04L4SEA	24,584	454 NET	760
			RFDS04L4SGA	27,043	460/3/60	RBDS04L4SGA	26,061		
			RFDS04L4SJA	27,521	575/3/60	RBDS04L4SJA	26,539		
	2DA3F23K	05	RFDS05L4SEA	26,122	208/230/3/60	RBDS05L4SEA	25,140	454 NET	805
			RFDS05L4SGA	27,800	460/3/60	RBDS05L4SGA	26,818		
			RFDS05L4SJA	28,301	575/3/60	RBDS05L4SJA	27,319		
	3DA3F28K	06	RFDS06L4SEA	28,257	208/230/3/60	RBDS06L4SEA	27,276	550 NET	870
			RFDS06L4SGA	29,947	460/3/60	RBDS06L4SGA	28,966		
			RFDS06L4SJA	30,620	575/3/60	RBDS06L4SJA	29,638		
	3DB3F33K	08	RFDS08L4SEA	31,332	208/230/3/60	RBDS08L4SEA	30,350	558 NET	1,130
			RFDS08L4SGA	32,696	460/3/60	RBDS08L4SGA	31,714		
			RFDS08L4SJA	33,730	575/3/60	RBDS08L4SJA	32,748		
	3DF3F40K	09	RFDS09L4SEA	34,762	208/230/3/60	RBDS09L4SEA	33,781	721 NET	1,275
			RFDS09L4SGA	36,668	460/3/60	RBDS09L4SGA	35,686		
			RFDS09L4SJA	37,344	575/3/60	RBDS09L4SJA	36,362		
	3DS3F46K	10	RFDS10L4SEA	37,521	208/230/3/60	RBDS10L4SEA	36,539	821 NET	1,275
			RFDS10L4SGA	38,126	460/3/60	RBDS10L4SGA	37,144		
			RFDS10L4SJA	39,018	575/3/60	RBDS10L4SJA	38,036		
	4DBNF54K	12	RFDS12L4SEA	38,216	208/230/3/60	RBDS12L4SEA	37,235	865 NET	1,290
			RFDS12L4SGA	39,031	460/3/60	RBDS12L4SGA	38,049		
			RFDS12L4SJA	39,765	575/3/60	RBDS12L4SJA	38,783		
4DHNF63K	15	RFDS15L4SEA	40,037	208/230/3/60	RBDS15L4SEA	39,059	1,116 NET	1,310	
		RFDS15L4SGA	40,634	460/3/60	RBDS15L4SGA	39,653			
		RFDS15L4SJA	41,435	575/3/60	RBDS15L4SJA	40,453			
4DJNF76K	22	RFDS22L4SEA	45,040	208/230/3/60	RBDS22L4SEA	44,058	1,382 NET	1,420	
		RFDS22L4SGA	45,752	460/3/60	RBDS22L4SGA	44,770			
		RFDS22L4SJA	46,852	575/3/60	RBDS22L4SJA	45,871			

Temperature Range	Compressor (Scroll™)	H.P.	Model Number	RF	VOLTAGE	Model Number	RB	4 Year Compressor Protection Plan	Approx. Ship Wt. (LBS)
				Flooded LIST PRICE			Non Flooded List Price		
Medium Temp Scroll	ZS29KAE	04	RFOS04E4SEA	\$19,470	208/230/3/60	RBOS04E4SEA	\$18,489	\$264 NET	700
			RFOS04E4SGA	21,008	460/3/60	RBOS04E4SGA	20,027		
			RFOS04E4SJA	21,463	575/3/60	RBOS04E4SJA	20,481		
	ZS33KAE	05	RFOS05E4SEA	19,817	208/230/3/60	RBOS05E4SEA	18,835	264 NET	710
			RFOS05E4SGA	21,328	460/3/60	RBOS05E4SGA	20,346		
			RFOS05E4SJA	21,844	575/3/60	RBOS05E4SJA	20,862		
	ZS38K4E	06	RFOS06E4SEA	22,582	208/230/3/60	RBOS06E4SEA	21,600	271 NET	710
			RFOS06E4SGA	24,393	460/3/60	RBOS06E4SGA	23,411		
			RFOS06E4SJA	24,906	575/3/60	RBOS06E4SJA	23,925		
	ZS45K4E	07	RFOS07E4SEA	23,022	208/230/3/60	RBOS07E4SEA	22,040	448 NET	870
			RFOS07E4SGA	24,737	460/3/60	RBOS07E4SGA	23,755		
			RFOS07E4SJA	25,251	575/3/60	RBOS07E4SJA	24,269		
	ZB58K5E	08	RFOS08E4SEA	23,477	208/230/3/60	RBOS08E4SEA	22,496	448 NET	915
			RFOS08E4SGA	25,212	460/3/60	RBOS08E4SGA	24,230		
			RFOS08E4SJA	25,760	575/3/60	RBOS08E4SJA	24,778		
	ZB66K5E	09	RFOS09E4SEA	24,778	208/230/3/60	RBOS09E4SEA	23,797	485 NET	980
			RFOS09E4SGA	26,329	460/3/60	RBOS09E4SGA	25,347		
			RFOS09E4SJA	26,852	575/3/60	RBOS09E4SJA	25,870		
	ZB76K5E	10	RFOS10E4SEA	28,968	208/230/3/60	RBOS10E4SEA	27,986	485 NET	1,085
			RFOS10E4SGA	30,069	460/3/60	RBOS10E4SGA	29,087		
			RFOS10E4SJA	30,687	575/3/60	RBOS10E4SJA	29,705		
	ZB95K5E	13	RFOS13E4SEA	32,082	208/230/3/60	RBOS13E4SEA	31,101	560 NET	1,105
			RFOS13E4SGA	32,156	460/3/60	RBOS13E4SGA	31,174		
			RFOS13E4SJA	33,207	575/3/60	RBOS13E4SJA	32,225		
ZB114K5E	15	RFOS15E4SEA	35,821	208/230/3/60	RBOS15E4SEA	34,839	571 NET	1,200	
		RFOS15E4SGA	37,457	460/3/60	RBOS15E4SGA	36,475			
		RFOS15E4SJA	38,188	575/3/60	RBOS15E4SJA	37,206			

Low Temp Scroll	ZF25K4E	08	RFOS08L4SEA	\$22,186	208/230/3/60	RBOS08L4SEA	\$21,204	\$448 NET	850
			RFOS08L4SGA	23,498	460/3/60	RBOS08L4SGA	22,516		
			RFOS08L4SJA	23,958	575/3/60	RBOS08L4SJA	22,976		
	ZF34K5E	10	RFOS10L4SEA	27,538	208/230/3/60	RBOS10L4SEA	26,556	485 NET	1,025
			RFOS10L4SGA	29,158	460/3/60	RBOS10L4SGA	28,176		
			RFOS10L4SJA	29,756	575/3/60	RBOS10L4SJA	28,774		
	ZF41K5E	13	RFOS13L4SEA	31,125	208/230/3/60	RBOS13L4SEA	30,143	560 NET	1,050
			RFOS13L4SGA	31,658	460/3/60	RBOS13L4SGA	30,676		
			RFOS13L4SJA	32,520	575/3/60	RBOS13L4SJA	31,538		
	ZF49K5E	15	RFOS15L4SEA	32,159	208/230/3/60	RBOS15L4SEA	31,178	571 NET	1,105
			RFOS15L4SGA	32,885	460/3/60	RBOS15L4SGA	31,904		
			RFOS15L4SJA	33,542	575/3/60	RBOS15L4SJA	32,560		

Voltage codes: E = 208-230/3/60, G = 460V/3/60, J = 575V/3/60

* See next Page for Condensing units with Bitzer Compressors

**NEXT-GEN II AIR COOLED CONDENSING UNITS
3 THRU 22 H.P. - BITZER**

Temperature Range	Compressor (Bitzer)	H.P.	Model Number	RF Flooded List Price	VOLTAGE	Model Number	RB Non Flooded List Price	4 Year Compressor Protection Plan	Approx. Ship Wt. (LBS)
Medium Temp Bitzer	2DES-3	03	RFBS03E4SEA	\$23,247	208/230/3/60	RBBS03E4SEA	\$22,265	\$454 NET	800
			RFBS03E4SGA	24,771	460/3/60	RBBS03E4SGA	23,789		
			RFBS03E4SJA	25,001	575/3/60	RBBS03E4SJA	24,019		
	2CES-4	04	RFBS04E4SEA	23,613	208/230/3/60	RBBS04E4SEA	22,631	454 NET	825
			RFBS04E4SGA	25,083	460/3/60	RBBS04E4SGA	24,101		
			RFBS04E4SJA	25,439	575/3/60	RBBS04E4SJA	24,457		
	4FES-5	05	RFBS05E4SEA	23,994	208/230/3/60	RBBS05E4SEA	23,013	454 NET	850
			RFBS05E4SGA	25,411	460/3/60	RBBS05E4SGA	24,429		
			RFBS05E4SJA	25,879	575/3/60	RBBS05E4SJA	24,897		
	4EES-6	06	RFBS06E4SEA	26,300	208/230/3/60	RBBS06E4SEA	25,318	550 NET	1,075
			RFBS06E4SGA	27,293	460/3/60	RBBS06E4SGA	26,311		
			RFBS06E4SJA	29,056	575/3/60	RBBS06E4SJA	28,074		
	4DES-7	07	RFBS07E4SEA	28,573	208/230/3/60	RBBS07E4SEA	27,592	558 NET	1,100
			RFBS07E4SGA	29,143	460/3/60	RBBS07E4SGA	28,162		
			RFBS07E4SJA	32,201	575/3/60	RBBS07E4SJA	31,219		
	4CES-9	08	RFBS08E4SEA	32,201	208/230/3/60	RBBS08E4SEA	31,219	558 NET	1,130
			RFBS08E4SGA	33,811	460/3/60	RBBS08E4SGA	32,829		
			RFBS08E4SJA	34,538	575/3/60	RBBS08E4SJA	33,556		
	4TES-12	10	RFBS10E4SEA	32,589	208/230/3/60	RBBS10E4SEA	31,607	721 NET	1,330
			RFBS10E4SGA	34,514	460/3/60	RBBS10E4SGA	33,532		
			RFBS10E4SJA	35,151	575/3/60	RBBS10E4SJA	34,170		
	4PES-15	12	RFBS12E4SEA	33,974	208/230/3/60	RBBS12E4SEA	32,992	865 NET	1,330
			RFBS12E4SGA	35,745	460/3/60	RBBS12E4SGA	34,764		
			RFBS12E4SJA	36,383	575/3/60	RBBS12E4SJA	35,401		
4NES-20	15	RFBS15E4SEA	34,747	208/230/3/60	RBBS15E4SEA	33,765	1,116 NET	1,350	
		RFBS15E4SGA	36,447	460/3/60	RBBS15E4SGA	35,466			
		RFBS15E4SJA	37,081	575/3/60	RBBS15E4SJA	36,099			

Low Temp Bitzer	4FES-3	03	RFBS03L4SEA	\$23,135	208/230/3/60	RBBS03L4SEA	\$22,154	\$281 NET	710
			RFBS03L4SGA	23,943	460/3/60	RBBS03L4SGA	22,962		
			RFBS03L4SJA	24,460	575/3/60	RBBS03L4SJA	23,478		
	4EES-4	04	RFBS04L4SEA	25,176	208/230/3/60	RBBS04L4SEA	24,194	281 NET	760
			RFBS04L4SGA	25,984	460/3/60	RBBS04L4SGA	25,002		
			RFBS04L4SJA	26,501	575/3/60	RBBS04L4SJA	25,519		
	4DES-5	05	RFBS05L4SEA	26,326	208/230/3/60	RBBS05L4SEA	25,344	312 NET	805
			RFBS05L4SGA	27,218	460/3/60	RBBS05L4SGA	26,237		
			RFBS05L4SJA	27,718	575/3/60	RBBS05L4SJA	26,736		
	4CES-6	06	RFBS06L4SEA	31,041	208/230/3/60	RBBS06L4SEA	30,060	324 NET	870
			RFBS06L4SGA	32,198	460/3/60	RBBS06L4SGA	31,216		
			RFBS06L4SJA	32,539	575/3/60	RBBS06L4SJA	31,557		
	4TES-9	08	RFBS08L4SEA	33,027	208/230/3/60	RBBS08L4SEA	32,045	324 NET	1,130
			RFBS08L4SGA	34,138	460/3/60	RBBS08L4SGA	33,157		
			RFBS08L4SJA	34,582	575/3/60	RBBS08L4SJA	33,600		
	4PES-12	09	RFBS09L4SEA	35,183	208/230/3/60	RBBS09L4SEA	34,201	324 NET	1,275
			RFBS09L4SGA	36,232	460/3/60	RBBS09L4SGA	35,250		
			RFBS09L4SJA	37,217	575/3/60	RBBS09L4SJA	36,235		
	4NES-14	10	RFBS10L4SEA	37,370	208/230/3/60	RBBS10L4SEA	36,388	324 NET	1,275
			RFBS10L4SGA	38,419	460/3/60	RBBS10L4SGA	37,437		
			RFBS10L4SJA	39,404	575/3/60	RBBS10L4SJA	38,422		
	4JE-15	12	RFBS12L4SEA	40,083	208/230/3/60	RBBS12L4SEA	39,101	439 NET	1,290
			RFBS12L4SGA	41,132	460/3/60	RBBS12L4SGA	40,151		
			RFBS12L4SJA	42,117	575/3/60	RBBS12L4SJA	41,136		
4HE-18	15	RFBS15L4SEA	42,859	208/230/3/60	RBBS15L4SEA	41,877	545 NET	1,310	
		RFBS15L4SGA	43,905	460/3/60	RBBS15L4SGA	42,923			
		RFBS15L4SJA	44,893	575/3/60	RBBS15L4SJA	43,911			
4GE-23	22	RFBS22L4SEA	44,325	208/230/3/60	RBBS22L4SEA	40,826	620 NET	1,420	
		RFBS22L4SGA	45,434	460/3/60	RBBS22L4SGA	44,452			
		RFBS22L4SJA	46,422	575/3/60	RBBS22L4SJA	45,440			

Voltage codes: E = 208-230/3/60, G = 460V/3/60, J = 575V/3/60

3 THRU 22 H.P. CONDENSING UNITS - FACTORY INSTALLED DEFROST KITS

1 EVAPORATOR PER CU	Max Defrost Load	List Price
DMA15	15	\$1,273
DMA20	20	
DMA24	24	
DMA30	30	
DMA35	35	1,421
DMA40	40	
DMA48	48	
DMB60	60	2,773
DMB96	96	

2 EVAPS PER CU	Max Defrost Load	List Price
DMB35	35	\$1,928
DMB40	40	
DMB48	48	
DMB60	60	2,773
DMB96	96	

3 EVAPS PER CU	Max Defrost Load	List Price
DMC35	35	\$2,900
DMC40	40	
DMC48	48	
DMC60	60	3,586
DMC96	96	

AIR DEFROST TIMER \$554

Note: All electric defrost kits include 1 fan contactor and are suitable for single or three phase loads. Defrost amp values are the maximum load for a kit. Smaller loads may be attached.

3 THRU 22 H.P. CONDENSING UNITS - FACTORY INSTALLED OPTIONS

All options are factory mounted unless otherwise noted.	OPTION NUMBER	H.P. RANGE	LIST PRICE†
Electrical options			
THROUGH THE DOOR NON-FUSED DISCONNECT SWITCH	TDNM-3	3-10	\$1,552
	TDNM-4	12-22	1,735
EXTERNAL FUSED DISCONNECT - Loose or Mounted	EFDM-2 (230V)	3 - 6	1,003
	EFDM-3 (230V)	7 - 10	1,194
	EFDM-4 (230V)	12 - 22	2,546
	EFDM-2 (460V)	3 - 6	1,179
	EFDM-3 (460V)	7 - 10	2,122
MAIN CIRCUIT BREAKER	EFDM-4 (460V)	12 - 22	3,501
	BKR-2	3 - 6	1,433
	BKR-3	7 - 10	1,804
† PHASE LOSS MONITOR	BKR-4	12 - 22	2,271
	PLM	ALL	1,129
ANTI SHORT CYCLE TIMER	ASC	ALL	667
CURRENT SENSING RELAY (Run proof)	CSR	All	739
COMPRESSOR UNLOADERS (Suction pressure control. Medium Temp reciprocating compressors only. 1 Step for 3D and larger compressors.	UNL-1	When Available	2,075

See Page 24 for defrost component prices

Mechanical options			
SUCTION LINE FILTER (Sealed)	SK-5	3 - 8	\$486
	SK-6	9 - 10	825
	SK-7	12 - 22	1,316
REPLACEABLE CORE SUCTION FILTER (With Bypass)	RSK-5	3 - 8	1,094
	RSK-6	9 - 10	1,400
	RSK-7	12 - 22	1,974
REPLACEABLE CORE LIQUID FILTER (With Bypass)	RLK-5	3 - 8	1,148
	RLK-6	9 - 10	1,432
	RLK-7	12 - 22	2,073
SUCTION LINE ACCUMULATOR (Must add Suction line filter option.)	ASK-4	3 - 8	785
	ASK-5	9 - 10	1,154
	ASK-6	12 - 22	2,411
OIL SEPARATOR	OS-1	3 - 6	1,337
	OS-2	7 - 10	1,424
	OS-3	12 - 22	1,674
OVERSIZED RECEIVERS	OSR-1	1 FAN	1,180
	OSR-2	2 FAN	661
	OSR-3	2 FAN TALL	668
PRESSURE RELIEF VALVE (For models built on FD1 cabinet base. Requires Oversized Receiver OSR-1 option)	RV	FD1 Cabinet	299
HEATED AND INSULATED RECEIVER (Temperature controlled with low pressure bypass timer)	HIR	ALL	776
CRANKCASE PRESSURE REGULATOR (Do not use with MOP style TXV's. Must provide refrigerant type, holding temperature, suction temperature, and maximum design capacity.)	CPR VALVE	3 - 5	1,539
		6 - 9	1,707
		10 - 15	3,179
		22	4,976
LIQUID INJECTION / DEMAND COOLING™ PRICE DEDUCT - to optionally remove the feature from low temperature models (not available for Scroll™ compressors)	LNJ-deduct	ALL	2,518
HAIL / SNOW GUARDS (Shipped loose to prevent shipping damage. Requires field installation)	SG-E	1 FAN	933
	SG-F	2 FAN	1,276
	SG-G	2 FAN TALL	1,429
2 UNIT STACKING RACK (Shipped empty. Condensing units must be field installed.)	SR-2	1 or 2 FAN	C/A
3 UNIT STACKING RACK (Shipped empty. Condensing units must be field installed.)	SR-3	1 or 2 FAN	C/A

C/A = Contact Application Engineering for a special quote on options not found in the price list.

† Phase Loss monitor is a standard feature for K5 Scroll Series CoreSense modules. Extended Range models

*OS8E4S thru OS15E4s and Low Temp OS10L4L thru *OS15L4S use K5 Series Scroll compressors.

QV-SERIES AIR COOLED CONDENSING UNITS

15 THRU 100 H.P.



Standard Features (all models)

- Copeland Discus compressor
- Available in single, dual or parallel compressor configurations
- Prepaint gray exterior/ G60 galvanized steel outdoor cabinet construction
- Heavy gauge G90 galvanized steel frame
- Award-winning floating coil design with generously sized condensers for energy savings
- Integral subcooling circuit boosts energy efficiency
- Mechanically formed pre-bent tubing reduces potential leaks
- Compatible with multiple refrigerants
- Optimized for high glide refrigerants
- Separate power and control electrical panels
- Swept wing fan/Venturi improves airflow and sound
- Hinged and removable access panels
- Flip top hinged Venturi panels for easy servicing
- Floored compressor cabinet with removable compressor tray
- Color-coded control wiring diagram with diagnostic terminals/ color-coded high and low pressure hoses
- LED control and compressor panel lighting
- 110V service convenience outlet
- Service gauge hooks
- 3 Phase condenser fan motors
- Electronic oil failure control
- Horizontal receiver
- Receiver isolation valves
- Refrigerant relief valve
- Replaceable core liquid line filter
- Suction line and discharge line vibrasorbers
- Liquid line isolation valve with sight glass
- Single point alarm with liquid line solenoid lockout
- Control circuit and condenser fan fusing
- Condenser fan contactors
- UL and cUL listed for outdoor use

Flooded (RF) Models include an adjustable head pressure control valve

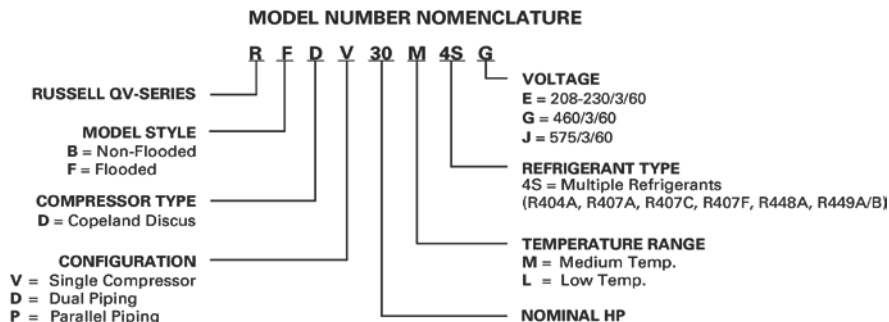
Non-Flooded (RB) Models include electronic fan cycling control and a minimum charge monitor

Parallel Compressor Models (RF*P/ RB*P) include an oil management system

Options

- EC fan motors for variable speed
- Air defrost timer or electric defrost components
- Electric defrost kits available for up to 4 evaporators
- Oversized receiver
- ElectroFin[®], polyester coated fins or Bronz-Glow coil coating
- Liquid injection on low temp. compressors
- Heated and insulated receiver
- Oil separator with check valve
- Fan cycling control (RF models)
- Suction accumulator
- Liquid filter isolation valve
- Suction isolation valve
- Suction filter isolation valve
- Replaceable core suction filter
- Crankcase pressure regulator
- Hot gas bypass (Discharge tee, regulator or ball valve)
- Heat reclaim (Sporlan 3 way valve)
- Thru-the-door non-fused disconnect switch
- Thru-the-door fused disconnect (200 amp Max)
- Thru-the-door breaker disconnect (200 amp Max)
- Phase loss monitor
- Anti short cycle timer

QV-SERIES AIR COOLED CONDENSING UNITS



NOMINAL COMPRESSOR HP		
SINGLE COMP.	DUAL PIPING	PARALLEL PIPING
15 HP	30 (2) 15 HP	-
20 HP	40 (2) 20 HP	-
22 HP	44 (2) 22 HP	44 (2) 22 HP
25 HP	50 (2) 25 HP	50 (2) 25 HP
27 HP	54 (2) 27 HP	54 (2) 27 HP
30 HP	60 (2) 30 HP	60 (2) 30 HP
35 HP	70 (2) 35 HP	70 (2) 35 HP
40 HP	80 (2) 40 HP	80 (2) 40 HP
50 HP	100 (2) 50 HP	100 (2) 50 HP

QV-SERIES • SINGLE DISCUS COMPRESSOR MODELS

TEMP. RANGE	NOM H.P.	MODEL NUMBER	COMPRESSOR NUMBER (1 Compressor)	FLOODED MODELS (RF)			NON-FLOODED MODELS (RB)			4 Year Compressor Protection Plan (NET PRICE)
				208-230V/3	460V/3	575V/3	208-230V/3	460V/3	575V/3	
Medium Temp.	15	R*DV015M4S	3DS3R17ME	\$41,933	\$42,619	\$43,647	\$41,679	\$42,388	\$43,161	\$1,116
	20	R*DV020M4S	4DBNR20ME	46,411	47,065	47,895	45,424	46,353	47,392	1,382
	25	R*DV025M4S	4DHNR22ME	55,420	56,028	57,181	54,294	55,233	56,265	1,544
	30	R*DV030M4S	4DJNR28ME	64,777	65,483	66,900	61,268	62,028	63,094	1,656
	35	R*DV035M4S	6DHNR35ME	73,363	73,783	75,491	70,656	70,849	72,350	1,744
	40	R*DV040M4S	6DJNR40ME ¹	80,735	81,856	83,188	77,617	78,755	80,419	1,821
Low Temp.	50	R*DV050M4S	6DUNR49ME	N/A	97,721	N/A	N/A	92,805	N/A	2,061
	22	R*DV022L4S	4DJNF76KE	52,133	53,230	54,332	52,125	52,784	53,942	1,382
	27	R*DV027L4S	6DHNF93KE	60,346	60,828	61,883	59,178	60,245	60,971	1,544
	30	R*DV030L4S	6DJNF11ME	66,672	67,287	68,661	65,298	66,390	67,835	1,656
40	R*DV040L4S	6DUNF13ME	N/A	83,782	N/A	N/A	82,413	N/A	1,993	

QV-SERIES • DUAL DISCUS COMPRESSOR MODELS

TEMP. RANGE	NOM H.P.	MODEL NUMBER	COMPRESSOR NUMBER (2 Compressor)	FLOODED MODELS (RF)			NON-FLOODED MODELS (RB)			4 Year Compressor Protection Plan (NET PRICE)
				208-230V/3	460V/3	575V/3	208-230V/3	460V/3	575V/3	
Medium Temp.	30	R*DD030M4S	3DS3R17ME	\$83,866	\$85,238	\$87,294	\$83,358	\$84,776	\$86,322	\$2,232
	40	R*DD040M4S	4DBNR20ME	92,822	94,130	95,790	90,848	92,706	94,784	2,764
	50	R*DD050M4S	4DHNR22ME	110,840	112,056	114,362	108,588	110,466	112,530	3,088
	60	R*DD060M4S	4DJNR28ME	129,554	130,966	133,800	122,536	124,056	126,188	3,312
	70	R*DD070M4S	6DHNR35ME	146,726	147,566	150,982	141,312	141,698	144,700	3,488
	80	R*DD080M4S	6DJNR40ME ¹	161,470	163,712	166,376	155,234	157,510	160,838	3,642
Low Temp.	100	R*DD100M4S	6DUNR49ME	N/A	195,442	N/A	N/A	185,610	N/A	4,122
	44	R*DD044L4S	4DJNF76KE	104,266	106,460	108,664	104,250	105,568	107,884	2,764
	54	R*DD054L4S	6DHNF93KE	120,692	121,656	123,766	118,356	120,490	121,942	3,088
	60	R*DD060L4S	6DJNF11ME	133,344	134,574	137,322	130,596	132,780	135,670	3,312
80	R*DD080L4S	6DUNF13ME	N/A	167,564	N/A	N/A	164,826	N/A	3,986	

QV-SERIES • PARALLEL PIPED DISCUS COMPRESSOR MODELS

TEMP. RANGE	NOM H.P.	MODEL NUMBER	COMPRESSOR NUMBER (2 Compressor)	FLOODED MODELS (RF)			NON-FLOODED MODELS (RB)			4 Year Compressor Protection Plan (NET PRICE)
				208-230V/3	460V/3	575V/3	208-230V/3	460V/3	575V/3	
Medium Temp.	50	R*DP050M4S	4DHNR22ME	\$124,549	\$125,615	\$128,127	\$121,966	\$123,807	\$126,041	\$3,088
	60	R*DP060M4S	4DJNR28ME	142,103	143,395	146,263	133,964	135,407	137,440	3,312
	70	R*DP070M4S	6DHNR35ME	159,773	160,491	163,701	153,652	153,845	156,594	3,488
	80	R*DP080M4S	6DJNR40ME ¹	173,297	175,997	179,517	166,335	169,067	173,335	3,642
	100	R*DP100M4S	6DUNR49ME	N/A	216,941	N/A	N/A	205,449	N/A	4,122
Low Temp.	44	R*DP044L4S	4DJNF76KE	118,274	120,446	122,855	118,256	119,429	121,967	2,764
	54	R*DP054L4S	6DHNF93KE	133,799	134,594	137,286	131,158	133,292	135,233	3,088
	60	R*DP060L4S	6DJNF11ME	145,618	146,711	149,645	142,554	144,729	147,823	3,312
	80	R*DP080L4S	6DUNF13ME	N/A	185,996	N/A	N/A	182,906	N/A	3,986

¹6DJNR40ME on 575/3

QV-SERIES AIR COOLED CONDENSING UNITS • OPTIONS AND ACCESSORIES

QV-SERIES • SINGLE COMPRESSOR MODEL OPTIONS

OPTION FAMILY	OPTION NAME	OPTION AVAILABLE ON MODELS:	LIST PRICE
Compressor Options	Compressor Unloading with Pressure Control for 1 Cycle Bank	020M-30M, 50M; 022L - 040L	\$2,079
	Compressor Unloading with Pressure Control for 2 Cycle Bank	035M & 045M	2,993
	Head Cooling Fan	All Models	1,721
	Liquid Injection	022L - 040L	3,779
Electrical and Control Panel Options	Air Defrost Time Clock	All Medium Temperature Models	554
	Anti-Short Cycle Timer	All Models	480
	Condenser Fan Breaker	015M -030M; 022L - 040L	725
	Condenser Fan Breaker	035M -050M	1,100
	Control Circuit Breaker	All Models	236
	EC Fan Motors with Electronic Variable Speed Control	015M -030M; 022L - 040L	Call Factory
	EC Fan Motors with Electronic Variable Speed Control	035M -050M	Call Factory
	Thru-the-door Fused Disconnect	Models with MOPD < 61A	1,464
	Thru-the-door Fused Disconnect	Models with 61A < MOPD < 101A	2,167
	Thru-the-door Fused Disconnect	Models with 101A < MOPD < 201A	3,713
	Thru-the-door Main Breaker	Models with MOPD ≤ 100A	1,871
	Thru-the-door Main Breaker	Models with 101A < MOPD < 201A	3,036
	Thru-the-door Non-Fused Disconnect	Models with MCA < 59A	1,318
	Thru-the-door Non-Fused Disconnect	Models with 59A < MCA > 99A	1,913
	Thru-the-door Non-Fused Disconnect	Models with 99A < MCA < 199A	3,164
	Phase-Loss Monitor - 250A	230V & 460V	925
	Phase-Loss Monitor - ICM450	230V	1,350
Phase-Loss Monitor - ICM450	460V	960	
Refrigeration Options	Crankcase Pressure Regulator Valves	015M	3,250
	Crankcase Pressure Regulator Valves	020M - 040M; 022L - 030L	4,093
	Crankcase Pressure Regulator Valves	050M & 040L	8,121
	Fan Cycling - Temperature or Pressure	All Flooded Models; Standard on Non-Flooded Models	1,460
	Heat Reclaim Valve	All Models	3,379
	Heated & Insulated Receiver	All Models	2,569
	Hot Gas Bypass Tee & Ball Valve	All Models	792
	Hot Gas Bypass Tee, Ball Valve & Regulator	All Models	4,592
	Liquid-line Filter Isolation Valve (Single Valve)	All Models	457
	Oil Separator with Check Valve	015 - 030	1,857
	Oil Separator with Check Valve	035 - 050	3,307
	Oil Separator with Check Valve & Oil Return Service Kit	015 - 030	3,486
	Oil Separator with Check Valve & Oil Return Service Kit	035 - 050	4,936
	Oversized Receiver	All Models	1,093
	Receiver Level Gauge	All Models	1,357
	Suction Accumulator - Standard	015	2,450
	Suction Accumulator - Standard	020-050	2,833
	Suction Accumulator - Heat Exchanger	015	3,036
	Suction Accumulator - Heat Exchanger	020-050	4,700
	Suction-line Filter - Replaceable Core	015M	1,069
	Suction-line Filter - Replaceable Core	020M - 040M; 022L - 030L	1,333
	Suction-line Filter - Replaceable Core	050M & 040L	1,385
	Suction-line Filter Isolation Valves	015M	750
Suction-line Filter Isolation Valves	020M - 040M; 022L - 030L	1,207	
Suction-line Filter Isolation Valves	050M & 040L	2,100	
Suction-line Insulation	All Models	1,329	

QV-SERIES AIR COOLED CONDENSING UNITS • OPTIONS AND ACCESSORIES

QV-SERIES • DUAL COMPRESSOR MODEL OPTIONS

OPTION FAMILY	OPTION NAME	OPTION AVAILABLE ON MODELS:	LIST PRICE
Compressor Options	Compressor Unloading with Pressure Control for 1 Cycle Bank	D040M - D060M, D100M; D044L - D080L	\$4,158
	Compressor Unloading with Pressure Control for 2 Cycle Bank	D070M & D080M	5,986
	Head Cooling Fan	All Models	3,442
	Liquid Injection	D044L - D080L	7,558
Electrical and Control Panel Options	Air Defrost Time Clock	All Medium Temperature Models	1,108
	Anti-Short Cycle Timer	All Models	960
	Condenser Fan Breaker	D030M -D060M; D044L - D080L	1,450
	Condenser Fan Breaker	D070M -D100M	2,200
	Control Circuit Breaker	All Models	236
	EC Fan Motors with Electronic Variable Speed Control	D030M -D060M; D044L - D080L	Call Factory
	EC Fan Motors with Electronic Variable Speed Control	D070M -D100M	Call Factory
	Thru-the-door Fused Disconnect	Models with MOPD < 61A	1,464
	Thru-the-door Fused Disconnect	Models with 61A < MOPD < 101A	2,167
	Thru-the-door Fused Disconnect	Models with 101A < MOPD < 201A	3,713
	Thru-the-door Main Breaker	Models with MOPD ≤ 100A	1,871
	Thru-the-door Main Breaker	Models with 101A < MOPD < 201A	3,036
	Thru-the-door Non-Fused Disconnect	Models with MCA < 59A	1,318
	Thru-the-door Non-Fused Disconnect	Models with 59A < MCA > 99A	1,913
	Thru-the-door Non-Fused Disconnect	Models with 99A < MCA < 199A	3,164
Phase-Loss Monitor -250A	230V & 460V	925	
Phase-Loss Monitor - ICM450	460V	1,920	
Refrigeration Options	Crankcase Pressure Regulator Valves	D030M	6,500
	Crankcase Pressure Regulator Valves	D040M - D080M; D044L - D060L	8,186
	Crankcase Pressure Regulator Valves	D100M & D080L	16,242
	Fan Cycling - Temperature or Pressure	All Flooded Models; Standard on Non-Flooded Models	2,920
	Heat Reclaim Valve	All Models	6,758
	Heated & Insulated Receiver	All Models	5,138
	Hot Gas Bypass Tee & Ball Valve	All Models	1,584
	Hot Gas Bypass Tee, Ball Valve & Regulator	All Models	9,184
	Liquid-line Filter Isolation Valve (Single Valve per Circuit)	All Models	914
	Oil Separator with Check Valve	D030 - D060	3,714
	Oil Separator with Check Valve	D070 - D100	6,614
	Oil Separator with Check Valve & Oil Return Service Kit	D030 - D060	6,972
	Oil Separator with Check Valve & Oil Return Service Kit	D070 - D100	9,872
	Oversized Receiver	All Models	2,186
	Receiver Level Gauge	All Models	2,714
	Suction Accumulator - Standard	D030	4,900
	Suction Accumulator - Standard	D040-D100	5,666
	Suction Accumulator - Heat Exchanger	D030	6,072
	Suction Accumulator - Heat Exchanger	D040-D100	9,400
	Suction-line Filter - Replaceable Core	D030M	2,138
	Suction-line Filter - Replaceable Core	D040M - D080M; D044L - D060L	2,666
	Suction-line Filter - Replaceable Core	D100M & D080L	2,770
	Suction-line Filter Isolation Valves	D030M	1,500
	Suction-line Filter Isolation Valves	D040M - D080M; D044L - D060L	2,414
Suction-line Filter Isolation Valves	D100M & D080L	4,200	
Suction-line Insulation	All Models	2,658	

QV-SERIES AIR COOLED CONDENSING UNITS • OPTIONS AND ACCESSORIES

QV-SERIES • PARALLEL COMPRESSOR MODEL OPTIONS

OPTION FAMILY	OPTION NAME	OPTION AVAILABLE ON MODELS:	LIST PRICE
Compressor Options	Compressor Unloading with Pressure Control for 1 Cycle Bank	P050M - P060M, P100M; P044L - P080L	\$4,158
	Compressor Unloading with Pressure Control for 2 Cycle Bank	P070M & P080M	5,986
	Head Cooling Fan	All Models	3,442
	Liquid Injection	P044L - P080L	7,558
Electrical and Control Panel Options	Air Defrost Time Clock	All Medium Temperature Models	554
	Anti-Short Cycle Timer	All Models	480
	Condenser Fan Breaker	P050M -P060M; P044L - P080L	725
	Condenser Fan Breaker	P070M -P100M	1,100
	Control Circuit Breaker	All Models	236
	EC Fan Motors with Electronic Variable Speed Control	P050M -P060M; P044L - P080L	Call Factory
	EC Fan Motors with Electronic Variable Speed Control	P070M -P100M	Call Factory
	Thru-the-door Fused Disconnect	Models with MOPD < 61A	1,464
	Thru-the-door Fused Disconnect	Models with 61A < MOPD < 101A	2,167
	Thru-the-door Fused Disconnect	Models with 101A < MOPD < 201A	3,713
	Thru-the-door Main Breaker	Models with MOPD ≤ 100A	1,871
	Thru-the-door Main Breaker	Models with 101A < MOPD < 201A	3,036
	Thru-the-door Non-Fused Disconnect	Models with MCA < 59A	1,318
	Thru-the-door Non-Fused Disconnect	Models with 59A < MCA > 99A	1,913
	Thru-the-door Non-Fused Disconnect	Models with 99A < MCA < 199A	3,164
Phase-Loss Monitor - 250A	230V & 460V	925	
Phase-Loss Monitor - ICM450	460V	1,920	
Refrigeration Options	Crankcase Pressure Regulator Valves	P050M-P60M	8,121
	Crankcase Pressure Regulator Valves	P070M-P100M; P044L - P080L	9,557
	Fan Cycling - Temperature or Pressure	All Flooded Models; Standard on Non-Flooded Models	2,040
	Heat Reclaim Valve	All Models	3,379
	Heated & Insulated Receiver	All Models	2,569
	Hot Gas Bypass Tee & Ball Valve	All Models	792
	Hot Gas Bypass Tee, Ball Valve & Regulator	All Models	4,592
	Liquid-line Filter Isolation Valve (Single Valve)	All Models	457
	Oversized Receiver	All Models	1,093
	Receiver Level Gauge	All Models	1,357
	Suction Accumulator - Standard	P050M-P60M	3,400
	Suction Accumulator - Standard	P070M-P100M; P044L - P080L	3,700
	Suction Accumulator - Heat Exchanger	P050M-P60M	4,700
	Suction Accumulator - Heat Exchanger	P070M-P100M; P044L - P080L	5,193
	Suction-line Filter - Replaceable Core	P050M-P60M	1,500
	Suction-line Filter - Replaceable Core	P070M-P100M; P044L - P080L	1,662
	Suction-line Filter Isolation Valves	P050M-P60M	2,100
	Suction-line Filter Isolation Valves	P070M-P100M; P044L - P080L	3,314
Suction-line Insulation	All Models	2,658	

QV-SERIES AIR COOLED CONDENSING UNITS • DEFROST KITS

ELECTRIC DEFROST KIT NOMENCLATURE

DL

A

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Defrost Kit Large Condenser	Heater Contactor Quantity A: 1 Heater Contactor B: 2 Heater Contactor C: 3 Heater Contactor D: 4 Heater Contactor	Max Total Heater Amp Value 24	Special Kit Codes -1: 1 Evaporator with Multiple Heater Feeds -2: 2 Evaporators with Multiple Heater Feeds PP: Pressure Prop Kits for Large Evaporators
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When selecting defrost kit, use the next higher amp value above the defrost load.

All kits include 1 fan contactor and are suitable for 1 or 3 phase loads.

Electrical resistance loads greater than 48 amps must be split into multiple circuits.

ELECTRIC DEFROST KIT OPTIONS • SINGLE AND PARALLEL COMPRESSOR MODELS

1 HEATER CONTACTOR		2 HEATER CONTACTORS		3 HEATER CONTACTORS		4 HEATER CONTACTORS	
Defrost Kit Model	List Price (\$US)	Defrost Kit Model	List Price (\$US)	Defrost Kit Model	List Price (\$US)	Defrost Kit Model	List Price (\$US)
DLA24 ¹	\$1,530						
DLA30 ¹	1,590						
DLA35 ¹	1,790	DLB35 ¹	\$2,285	DLC35	\$3,120		
DLA40 ¹	1,790	DLB40 ^{1 4}	2,285	DLC40	3,120		
DLA48 ¹	1,790	DLB48 ^{1 4}	2,285	DLC48	3,120		
		DLB60 ^{1 2}	2,375	DLC60 ¹	3,120	DLD60 ⁵	\$3,690
		DLB96 ^{1 2}	2,875	DLC96 ¹	3,310	DLD96	3,720
				DLC144 ¹	4,510	DLD144 ³	4,540
						DLD192 ³	4,770

Defrost Kit selected for Single and Parallel compressor models is for entire unit. Up to 4 contactors.

¹Defrost Kit Available with Pressure Prop Kit for Large Evaporators (Special Kit Code: PP)

²Defrost Kit Available for Evaporator with Multiple Heater Feeds (Special Kit Code: -1)

³Defrost Kit Available for 2 Evaporators with Multiple Heater Feeds (Special Kit Code: -2)

Defrost Kit Available for Evaporator with Multiple Heater Feeds & Pressure Prop Kit (Special Kit Code: -1PP)

Defrost Kit Available for 2 Evaporators with Multiple Heater Feeds & Pressure Prop Kit (Special Kit Code: -2PP)

ELECTRIC DEFROST KIT OPTIONS • DUAL COMPRESSOR MODELS

1 HEATER CONTACTOR PER COMPRESSOR		2 HEATER CONTACTORS PER COMPRESSOR	
Defrost Kit Model	List Price (\$US)	Defrost Kit Model	List Price (\$US)
DLA24 ¹	\$3,060		
DLA30 ¹	3,180		
DLA35 ¹	3,580	DLB35 ¹	\$4,570
DLA40 ¹	3,580	DLB40 ¹	4,570
DLA48 ¹	3,580	DLB48 ¹	4,570
		DLB60 ^{1 2 3}	4,750
		DLB96 ^{1 2 3}	5,750

Defrost Kit selected is per compressor for Dual compressor models. Up to 2 contactors/compressor.

¹Defrost Kit Available with Pressure Prop Kit for Large Evaporators (Special Kit Code: PP)

²Defrost Kit Available for Evaporator with Multiple Heater Feeds (Special Kit Code: -1)

³Defrost Kit Available for Evaporator with Multiple Heater Feeds & Pressure Prop Kit (Special Kit Code: -1PP)

ELECTRIC DEFROST KIT OPTIONS • FUSEBLOCK AND CIRCUIT BREAKERS

MAX HEATER AMPS	1 HEATER CONTACTOR		2 HEATER CONTACTORS		3 HEATER CONTACTORS		4 HEATER CONTACTORS	
	Fuseblock List Price Adder	Circuit Breaker List Price Adder	Fuseblock List Price Adder	Circuit Breaker List Price Adder	Fuseblock List Price Adder	Circuit Breaker List Price Adder	Fuseblock List Price Adder	Circuit Breaker List Price Adder
24	\$107	\$807						
30	143	1,257						
35	143	1,257	\$143	\$1,491	\$214	\$1,600		
40	143	1,257	143	1,491	214	1,600		
48	143	1,257	143	1,491	214	1,600		
60			200	2,507	307	2,645	\$330	\$2,770
96			257	2,521	350	3,371	425	3,475
144					443	3,486	580	4,186
192							583	4,229

Dual Compressor Units require 2 Fuseblocks & 2 Circuit Breaker, 1 per compressor. Up to 2 contactors/compressor.

FAN CONTACTOR KIT OPTIONS • SINGLE AND PARALLEL COMPRESSOR MODELS

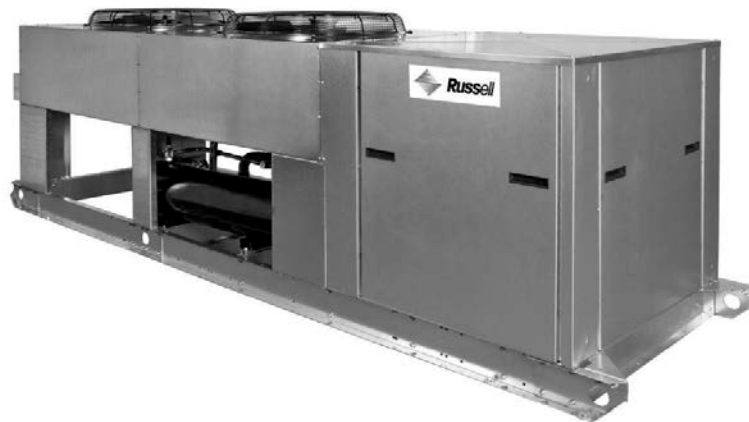
1 FAN CONTACTOR		
Kit Number	Max Motor Amps	List Price (\$US)
TMR-EF-15A	15	\$845
TMR-EF-30A	30	895

Kit Includes: Defrost Timer & Evaporator Fan Contactor

LEGACY V-SERIES DISCUS AIR COOLED CONDENSING UNITS

18 THRU 82 H.P.

Legacy V-Series models are being discontinued. Last day orders will be accepted is July 1, 2018. Use QV-Series Air Cooled Condensing Units instead.



Model VCD Standard Features

- Copeland Discus Compressor with service valves
- Crankcase Heater
- Solid state compressor motor protection
- Compressor Head Cooling Fan (Low Temp models only)
- Oil Pressure Control
- Condenser Coil - Copper tubes, Aluminum fins, with subcooling circuit
- Condenser fan motors - 1140 RPM inherent 3 phase, with thermal overload protection with ball bearings
- Condenser fans - heavy duty, individually balance Aluminum fan blades
- Epoxy Coated Wire Fan Guards
- Receiver with inlet, and outlet shut-off valves, pressure relief valve
- Suction Line Components - filter (replaceable core on all parallel piped models)
- Liquid Line Components - sight glass/moisture indicator, liquid line drier replaceable core on all models
- Vibration Absorbers - suction and discharge line
- Control Panel with hinged access door
- High-Low Pressure Controls with flexible lines
- Fan Cycling Control, temperature actuated
- Compressor Contactor(s)
- Condenser Fan Contactors (as required)
- Control Circuit Branch Fusing
- Heavy galvanized steel frame and panels
- All Weather Housing, UL listed, cUL listed

Model VLD Standard Features

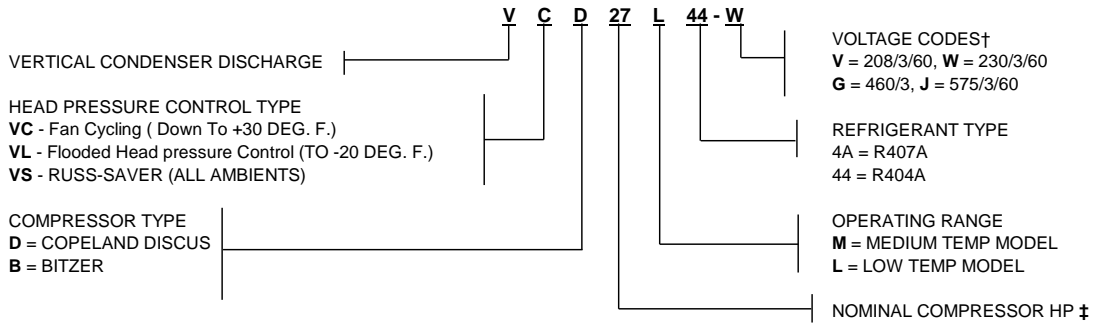
- All of the features included in the VCD package plus:
- Low Ambient Flooded Condenser Head Pressure Control

Model VSD Standard Features

- All of the features included in the VCD package plus:
- Energy Saving RUSS-SAVER Floating Head Pressure System
- Suction Line Pressure Stat (Low Temp. models only)

LEGACY V-SERIES CONDENSING UNIT NOMENCLATURE

Legacy V-Series models are being discontinued. Last day orders will be accepted is July 1, 2018. Use QV-Series Air Cooled Condensing Units instead.



† VOLTAGE CODES

CODE	VOLTAGE
V	208/3/60
W	230/3/60
G	460/3
J	575/3/60

‡ COMPRESSOR CONFIGURATION

	SINGLE	PARALLEL	DUAL
20HP	—	—	18 (2 - 7.5 HP)
25 HP	—	—	23 (2 - 10 HP)
N/A	24 (2 - 12 HP)	—	26 (2 - 12 HP)
27 HP	31 (2 - 15 HP)	—	32 (2 - 15 HP)
30 HP	41 (2 - 20 HP)	—	42 (2 - 20 HP)
35 HP	44 (2 - 22 HP)	—	46 (2 - 22 HP)
40 HP	51 (2 - 25 HP)	—	52 (2 - 25 HP)
50 HP	54 (2 - 27 HP)	—	56 (2 - 27 HP)
60 HP	61 (2 - 30 HP)	—	62 (2 - 30 HP)
N/A	71 (2 - 35 HP)	—	72 (2 - 35 HP)
N/A	81 (2 - 40 HP)	—	82 (2 - 40 HP)

LEGACY V-SERIES • SINGLE COMPRESSOR MODELS ‡

REF.	MODEL NUMBER	208-230/3/60V			460/3/60V			575/3/60V			4 Year Comp. Protection Plan
		VCD	VLD	VSD	VCD	VLD	VSD	VCD	VLD	VSD	
R407A or R404A	20M4*	\$40,706	\$41,688	\$41,688	\$42,939	\$43,921	\$43,921	\$43,818	\$44,800	\$44,800	\$1,382 NET
	25M4*	48,835	49,829	49,816	49,139	50,121	50,121	50,143	51,125	51,125	1,544 NET
	30M4*	57,321	58,303	58,303	59,682	60,664	60,664	60,895	61,876	61,876	1,656 NET
	35M4*	65,086	66,068	66,068	67,210	68,192	68,192	68,575	69,557	69,557	1,744 NET
	40M4*	71,637	72,618	72,618	74,384	75,366	75,366	75,892	76,874	76,874	1,821 NET
R407A or R404A	27L4*	\$53,380	\$54,361	\$54,361	\$55,435	\$56,416	\$56,416	\$56,564	\$57,546	\$57,546	\$1,544 NET
	30L4*	59,287	60,268	60,268	61,544	62,525	62,525	62,795	63,776	63,776	1,656 NET

LEGACY V-SERIES • DUAL COMPRESSOR MODELS ‡

REF.	MODEL NUMBER	208-230/3/60V			460/3/60V			575/3/60V			4 Year Comp. Protection Plan
		VCD	VLD	VSD	VCD	VLD	VSD	VCD	VLD	VSD	
R407A or R404A	18M4*	\$57,701	\$59,664	\$59,664	\$59,192	\$61,156	\$61,156	\$60,416	\$62,380	\$62,380	\$1,116 NET
	23M4*	69,539	71,503	71,503	70,193	72,157	72,157	71,637	73,600	73,600	1,442 NET
	26M4*	72,987	74,950	74,950	76,343	78,306	78,306	77,909	79,872	79,872	1,730 NET
	32M4*	75,225	77,188	77,188	77,368	79,332	79,332	78,956	80,920	80,920	2,232 NET
	42M4*	84,239	86,203	86,203	86,306	88,269	88,269	88,072	90,035	90,035	2,907 NET
	52M4*	101,198	103,161	103,161	103,798	105,761	105,761	105,913	107,877	107,877	3,108 NET
	62M4*	117,669	119,633	119,633	120,527	122,491	122,491	122,977	124,941	124,941	3,312 NET
	72M4*	134,725	136,689	136,689	137,353	139,317	139,317	140,140	142,104	142,104	3,488 NET
	82M4*	150,346	152,310	152,310	152,738	154,702	154,702	155,833	157,797	157,797	3,642 NET
R407A or R404A	46L4*	\$93,674	\$95,638	\$95,638	\$95,119	\$97,082	\$97,082	\$97,061	\$99,024	\$99,024	\$2,764 NET
	56L4*	107,100	109,063	109,063	109,111	111,075	111,075	111,332	113,296	113,296	3,108 NET
	62L4*	118,840	120,804	120,804	120,171	122,135	122,135	122,614	124,578	124,578	3,312 NET

Dual compressor models are supplied with 2 compressors piped separately (two separate circuits).

LEGACY V-SERIES • PARALLEL COMPRESSOR MODELS ‡

REF.	MODEL NUMBER	208-230/3/60V			460/3/60V			575/3/60V			4 Year Comp. Protection Plan
		VCD	VLD	VSD	VCD	VLD	VSD	VCD	VLD	VSD	
R407A or R404A	24M4*	\$83,630	\$84,612	\$84,612	\$86,989	\$87,971	\$87,971	\$88,749	\$89,731	\$89,731	\$1,730 NET
	31M4*	95,390	96,372	96,372	97,790	98,771	98,771	99,766	100,747	100,747	2,232 NET
	41M4*	104,505	105,487	105,487	106,810	107,791	107,791	108,965	109,947	109,947	2,907 NET
	51M4*	119,607	120,588	120,588	122,405	123,387	123,387	124,873	125,855	125,855	3,108 NET
	61M4*	138,704	139,686	139,686	141,809	142,790	142,790	144,664	145,646	145,646	3,312 NET
	71M4*	153,320	154,302	154,302	156,036	157,018	157,018	159,177	160,158	160,158	3,488 NET
R407A or R404A	81M4*	166,034	167,016	167,016	168,508	169,489	169,489	171,898	172,880	172,880	3,642 NET
	44L4*	\$113,500	\$114,482	\$114,482	\$115,084	\$116,066	\$116,066	\$117,406	\$118,388	\$118,388	\$2,764 NET
	54L4*	126,594	127,576	127,576	128,773	129,755	129,755	131,369	132,351	132,351	3,108 NET
R404A	61L4*	138,596	139,578	139,578	140,030	141,012	141,012	142,851	143,832	143,832	3,312 NET

Parallel compressor models are supplied with 2 compressors piped in parallel (one single circuit), and are equipped with an oil management system and oil separator as standard features.

Condensing units are also available for use with R507, R134a or R407C. Contact factory for details.

*Contact Application Engineering for pricing of condensing units with 2 "un-even" horsepower compressors.

Prices for the 4 year compressor protection plans are NET prices and cannot be discounted.

LEGACY V-SERIES • OPTIONS AND ACCESSORIES

Legacy V-Series models are being discontinued. Last day orders will be accepted is July 1, 2018. Use QV-Series Air Cooled Condensing Units instead.

SINGLE COMPRESSOR MODELS									
MODEL NUMBER	SUCTION ACCUMULATOR	OIL SEPARATOR	LIQUID LINE SOLENOID (2)	CAPACITY CONTROL CYLINDER UNLOADING (3)		HOT GAS BYPASS CAPACITY CONTROL (5)	ANTI-SHORT CYCLE TIMER	THRU - DOOR NON - FUSED DISCONNECT SWITCH	
								208-230V	460V
20M4*	\$3,052	\$1,573	\$758	UNL-1	\$1,615	\$3,391	\$667	\$1,735	\$2,337
25M4*	3,052	1,573	935	UNL-1	1,615	3,391	667	1,735	2,337
30M4*	3,052	1,573	935	UNL-1	1,615	3,391	667	3,461	3,547
35M4*	3,052	1,573	935	UNL-1	1,753	3,391	667	3,461	3,547
40M4*	3,052	1,573	935	UNL-1	1,753	3,391	667	3,461	3,547

27L4*	\$3,052	\$2,774	\$935	(4)		(4)	\$667	\$1,735	\$2,337
30L4*	3,052	2,774	935	(4)		(4)	667	3,461	3,547

PARALLEL COMPRESSOR MODELS									
MODEL NUMBER	SUCTION ACCUMULATOR	OIL SEPARATOR	LIQUID LINE SOLENOID (2)	CYLINDER UNLOADING CAPACITY CONTROL (3)		HOT GAS BYPASS CAPACITY CONTROL (5)	ANTI-SHORT CYCLE TIMER	THRU - DOOR NON - FUSED DISCONNECT SWITCH	
								230 V	460 V
24M4*	3,052	INCL.	717	UNL-2 (2)	1,615	3,494	667	1,735	2,337
31M4*	3,052	INCL.	717	UNL-2 (2)	1,615	3,494	667	3,461	3,547
41M4*	3,052	INCL.	717	UNL-2 (2)	1,615	3,494	667	3,461	3,547
51M4*	4,026	INCL.	1,463	UNL-2 (2)	1,615	4,621	667	----	---
61M4*	4,026	INCL.	1,463	UNL-2 (2)	1,615	4,621	667	----	----
71M4*	4,026	INCL.	1,463	UNL-2 (4)	1,753	4,621	667	----	----
81M4*	4,026	INCL.	1,463	UNL-2 (4)	1,753	4,621	667	----	----

44L4*	\$6,032	INCL.	\$1,463	(4)		(4)	\$667	----	----
54L4*	6,032	INCL.	1,463	(4)		(4)	667	----	----
61L4*	6,032	INCL.	1,463	(4)		(4)	667	----	----

Condensing units are also available for use with R507, R134a or R407C. Contact factory for details.

Legacy V-Series Pricing Notes

- (1) Accessory prices for dual compressor models are for 1 set of the specified option per compressor system.
- (2) Liquid line solenoid valves and hot gas bypass options are shipped loose.
- (3) Capacity unloading is based on the maximum number of unloading steps available for each specific condensing unit. Some compressor models can offer fewer steps of unloading, contact factory for pricing. (See next page for an explanation.)
- (4) This option is typically applicable to high temperature applications and is not normally available low temp. applications.
- (5) HG bypass option contains a HG bypass control valve and solenoid valve. HG is injected into the distributor to help maintain a constant leaving air temp. Option shipped loose. Contact Application Engineering for other HG applications.

LEGACY V-SERIES OPTIONS AND ACCESSORIES • DUAL COMPRESSOR MODELS

Legacy V-Series models are being discontinued. Last day orders will be accepted is July 1, 2018. Use QV-Series Air Cooled Condensing Units instead.

MODEL NUMBER	SUCTION ACCUMULATOR (1)	OIL SEPARATOR (1)	LIQUID LINE SOLENOID (2)	CAPACITY CONTROL CYLINDER UNLOADING (3)		HOT GAS BYPASS CAPACITY CONTROL (1,5)	ANTI-SHORT CYCLE TIMER	THRU - DOOR NON - FUSED DISCONNECT SWITCH	
								230V	460V
18M4*	\$2,308	\$2,848	\$910	UNL-2(2)	\$3,162	\$6,782	\$1,334	\$1,735	\$2,337
23M4*	2,308	2,848	1,124	UNL-2(2)	3,162	6,782	1,334	1,735	2,337
26M4*	4,822	5,548	1,124	UNL-2(2)	3,162	6,782	1,334	1,735	2,337
32M4*	4,822	5,548	1,124	UNL-2(2)	3,162	6,782	1,334	3,461	3,547
42M4*	4,822	5,548	1,434	UNL-2(2)	3,162	6,782	1,334	3,461	3,547
52M4*	6,040	5,548	1,434	UNL-2(2)	3,162	6,782	1,334	C/F	C/F
62M4*	6,040	5,548	1,434	UNL-2(2)	3,162	6,782	1,334	C/F	C/F
72M4*	6,040	5,548	1,434	UNL-2 (4)	6,324	6,782	1,334	C/F	C/F
82M4*	6,040	5,548	1,434	UNL-2 (4)	6,324	6,782	1,334	C/F	C/F
46L4*	\$6,040	\$5,548	\$1,434	(4)	(4)	(4)	\$1,334	C/F	C/F
56L4*	6,040	5,548	1,434	(4)	(4)	(4)	1,334	C/F	C/F
62L4*	6,040	5,548	1,434	(4)	(4)	(4)	1,334	C/F	C/F

LEGACY V-SERIES • ADDITIONAL OPTIONS AND ACCESSORIES

DESCRIPTION	LIST PRICE EACH		
ROOM THERMOSTAT	See page 18		
AIR DEFROST TIMER	\$554		
ED KITS - DETAILED INFORMATION	See pages 30-31		
HOT GAS RE-EVAP DEFROST OPTION - No Longer Available	---		
MAIN CIRCUIT BREAKERS - (Per compressor system)	208V or 230V	10 THRU 15 HP	2,271
		20 THRU 35 HP	2,536
		40 THRU 60 HP	6,716
	460V	10 THRU 15 HP	2,271
		20 THRU 30 HP	2,536
		35 THRU 54 HP 60 HP	4,539 5,244
CURRENT SENSING RELAY (Price is based on one relay per unit. Double the price for Dual Compressor Models.)	754		
HEATED AND INSULATED RECEIVER	20 THRU 35 HP Single or Parallel Comp.	2,581	
	40 THRU 80 HP Single or Parallel Comp.	3,183	
	18 - 32 H.P. Dual Compressor	1,378	
	42-62 H.P. Dual Compressor	5,162	
	72-82 H.P. Dual Compressor	6,366	
HEATED AND INSULATED ACCUMULATOR (Must also add suction accumulator.)	20 THRU 35 HP Single or Parallel Comp.	2,581	
	40 THRU 80 HP Single or Parallel Comp.	4,539	
	18 - 23 H.P. Dual Compressor	1,378	
	42-62 H.P. Dual Compressor	5,162	
	72-82 H.P. Dual Compressor	6,366	
STAINLESS STEEL BRAIDED HOSES (Per compressor System)	371		
PRESSURE GAUGE KIT - HIGH, LOW, AND OIL PRESSURE GAUGES WITH VALVES - PER COMPRESSOR	4,085		
PHASE LOSS PROTECTION (Price is based on one monitor per unit. Double the price for Dual Compressor Models.)	1,129		
STAGED START RELAY FOR DUAL COMPRESSOR	395		
REPLACEABLE CORE SUCTION FILTER - Note: Replaceable core suction filters are standard for all parallel compressor units. See table at the right for all other models. Dual compressor systems include two suction filters (1 per system).	20 THRU 40 HP Single Compressor	1,698	
	18 - 32 H.P. Dual Compressor	1,893	
	42-62 H.P. Dual Compressor	3,462	
	72-82 H.P. Dual Compressor	3,786	
Sub Circuit Fuses (Fuse blocks already included with ED kit) (This price in addition to ED-Kit adder)	For 1 evaporator Electric Defrost Kit (price per kit)	897	
	For 2 evaporators Electric Defrost Kit (price per kit)	1,804	
	For 3 evaporators Electric Defrost Kit (price per kit)	2,719	
CRANKCASE PRESSURE REGULATING VALVE - MTD	20 - 41 H.P. Single or Parallel Compressor	5,126	
	44 - 61 H.P. Single or Parallel Compressor	10,244	
	71 - 81 H.P. Single or Parallel Compressor	12,584	
	18 - 26 HP Dual Compressor	11,354	
	32-42 H.P. Dual Compressor	18,530	
	46-82 H.P. Dual Compressor	19,120	

**** Models are available for R404A, R507, R407A, R407C. Contact Applications Engineering to request a special quote.**

(1) Accessory prices for dual compressor models are for 1 set of the specified option per compressor system.

(2) Liquid line solenoid valves and hot gas bypass options are shipped loose.

(3) Capacity unloading is based on the maximum number of unloading steps available for each specific condensing unit. Some compressor models can offer fewer steps of unloading, contact factory for special pricing.

See notes below for an explanation of unloader codes.

UNL-1 = 1 bank of unloading, 1 compressor per condensing unit.
UNL-2 (1) = 2 banks of unloading, 1 compressor per condensing unit.
UNL-2 (2) = 2 compressors per unit, 1 bank per compressor (2 total).
UNL-2 (4) = 2 compressors per unit, 2 banks per compressor (4 total).

(4) This option is typically applicable to high temperature applications and is not normally available for low temp. units.

(5) HG bypass option contains a HG bypass control valve and solenoid valve. HG is injected into the distributor to help maintain a constant leaving air temp. Option shipped loose. Contact the factory for other HG applications.

C/F = Contact Application Engineering to request a custom quote.

ELECTRIC DEFROST COMPONENTS

(See Page 24 for Next-Gen II and page 31 for QV-Series defrost kits)

The Russell **Electric Defrost System** provides unique features that other defrost systems lack. These energy saving features are as follows:

- The auxiliary switch on 3 phase systems and block-out relays on 1 phase systems prevents the defrost heaters from energizing when the compressor is in operation. This feature holds the maximum amp draw to the largest single load that the system will draw, and therefore reduces the electrical service requirement to the condensing unit.
- On multiple evaporator systems, individual defrost contactors are used in conjunction with sequencing relays* to allow each evaporator to terminate defrost independently. This efficient method of defrost saves electricity, and reduces the potential of overheating and steaming the evaporators. In addition, the amount of heat added to the room is kept to a minimum, reducing the run time of the condensing unit.

KIT NUMBER	TIMER	AUXILIARY SWITCH	BLOCK-OUT RELAY	† DEFROST HEATER CONTACTOR (1)	‡ FAN CONTACTOR	SEQUENCING RELAY
ED-5	1	—	1-15A	—	—	—
ED-6	1	—	1-20A	—	—	—
ED-7	1	—	1-25A	—	—	—
ED-10	1	—	1-30A	—	—	—
ED-210	1	—	1-30A	—	—	—
ED-11	1	1	—	1-30A	—	—
ED-211	1	1	—	1-30A	—	—
ED-12	1	1	—	1-30A	1-25A	—
ED-13	1	1	—	1-50A	—	—
ED-213	1	1	—	1-50A	—	—
ED-14	1	1	—	1-50A	1-25A	—
ED-15	1	1	—	2-75A	—	—
ED-16	1	1	—	2-75A	1-25A	—
ED-17	1	1	—	1-15A	1-25A	—
ED-18	1	1	—	1-20A	1-20A	—
ED-20	1	—	1-30A	—	—	2
ED-21	1	1	—	2-15A	—	2
ED-22	1	1	—	2-15A	1-25A	2
ED-23	1	1	—	2-25A	—	2
ED-24	1	1	—	2-25A	1-25A	2
ED-25	1	1	—	2-50A	—	2
ED-26	1	1	—	2-50A	1-25A	2
ED-27	1	1	—	2-75A	—	2
ED-28	1	1	—	2-75A	1-25A	2
ED-30	1	—	1-30A	—	—	3
ED-31	1	1	—	3-10A	—	3
ED-32	1	1	—	3-10A	1-25A	3
ED-33	1	1	—	3-15A	—	3
ED-34	1	1	—	3-15A	1-25A	3
ED-35	1	1	—	3-30A	—	3
ED-36	1	1	—	3-30A	1-25A	3
ED-37	1	1	—	3-75A	—	3
ED-38	1	1	—	3-75A	1-40A	3

TIMER

Initiates the defrost cycle. Also used as over ride protection for defrost termination.

AUXILIARY SWITCH

Mounted on the compressor contactor, it prevents the defrost contactor from operating whenever the compressor is energized.

BLOCK-OUT RELAY

Serves the same function as auxiliary switch, except used when defrost contactor is not required (single phase only).

FAN CONTACTOR

Used with 460V motors or when 230V motors are wired for 3 phase power.

DEFROST CONTACTOR

Carries amperage load for heaters. Contactor selection is based on the maximum resistive load rating of the contactor.

SEQUENCING RELAYS

Provides interconnection of multiple unit coolers on a single system so that each unit cooler is allowed to individually terminate defrost on temperature.

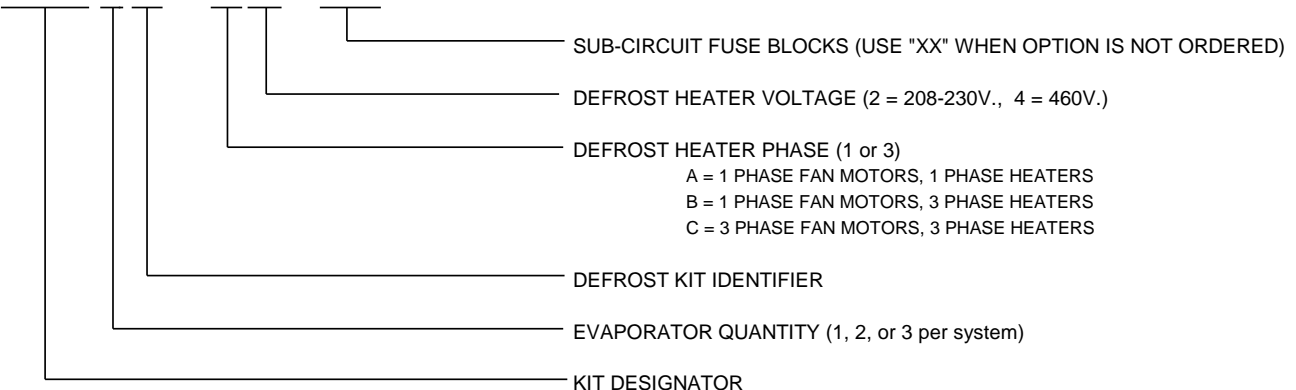
* Except for ED-210, ED-211, ED-213

† Heater contactor amperage is based on its resistive rating.

‡ Fan motor contactor amperage is based on its inductive rating.

ELECTRIC DEFROST KIT NOMENCLATURE (See Page 24 for Next-Gen II and page 31 for QV-Series defrost kits)

ED 12 - A2 - FB



ELECTRIC DEFROST PROVISIONS

(See Page 24 for Next-Gen II and page 31 for QV-Series defrost kits)

QTY OF UNIT COOLERS	DESCRIPTION	† DEFROST KIT NUMBER				LIST PRICE	
		1 PH. FANS 1 PH. HTRS	1 PH. FANS 3 PH. HTRS	230 V.	460 V.	MOUNTED ††	‡ SUB-CIRC. FUSE BLOCKS (LESS FUSES)
				3 PH. FANS 3 PH. HTRS	3 PH. FANS 3 PH. HTRS		

DEFROST KITS WHEN THE EVAPORATOR FAN MOTORS ARE WIRED FOR 230/1.

ONE UNIT COOLER PER SYSTEM	Up to 15 Amps Heater (w/ relay)	ED5-A2-XX	N/A	N/A	N/A	\$668	N/A
	20 Amps Heater (w/ relay)	ED6-A2-XX	N/A	N/A	N/A	668	N/A
	25 Amps Heater (w/ relay)	ED7-A2-XX	N/A	N/A	N/A	668	N/A
	Up to 30 Amps Heater (w/ relay)	ED10-A2-XX	N/A	N/A	N/A	668	N/A
	30 Amps - Heater (w/ contactors)	N/A	ED11-B2-XX	N/A	N/A	668	167
	50 Amps - Heater	ED13-A2-XX	ED13-B2-XX	N/A	N/A	1,296	167
	75 Amps Heater	ED15-A2-XX	ED15-B2-XX	N/A	N/A	1,987	195
TWO UNIT COOLERS PER SYSTEM	Up to 30 Amps Heater (w/ relay)	ED210-A2-XX	N/A	N/A	N/A	668	N/A
	30 Amps Heater	ED211-A2-XX	ED211-B2-XX	N/A	N/A	668	167
	50 Amps Heater	ED213-A2-XX	ED213-B2-XX	N/A	N/A	1,296	203
	Up to 15 Amps Heaters each (w/ relays)	ED20-A2-XX	N/A	N/A	N/A	1,851	N/A
	15 Amps Heaters each	ED21-A2-XX	ED21-B2-XX	N/A	N/A	1,851	300
	25 Amps Heaters each (w/ relays)	ED23-A2-XX	N/A	N/A	N/A	1,901	300
	25 Amps Heaters each (w/ contactors)	N/A	ED23-B2-XX	N/A	N/A	1,901	300
	50 Amps Heaters each	ED25-A2-XX	ED25-B2-XX	N/A	N/A	2,132	300
	75 Amps Heaters each	ED27-A2-XX	ED27-B2-XX	N/A	N/A	2,903	390
THREE UNIT COOLERS PER SYSTEM	Up to 10 Amps Heaters each (w/ relays)	ED30-A2-XX	N/A	N/A	N/A	2,519	N/A
	16 Amps Heaters each (w/ relays)	ED31-A2-XX	N/A	N/A	N/A	2,519	370
	16 Amps Heaters each (w/ relays)	ED33-A2-XX	N/A	N/A	N/A	2,519	370
	16 Amps Heaters each (w/ contactors)	N/A	ED33-B2-XX	N/A	N/A	2,519	370
	30 Amps Heaters each (w/ relays)	ED35-A2-XX	N/A	N/A	N/A	2,827	370
	30 Amps Heaters each (w/ contactors)	N/A	ED35-B2-XX	N/A	N/A	2,827	370
	50 Amps Heaters each	ED37-A2-XX	ED37-B2-XX	N/A	N/A	3,213	439

DEFROST KITS WHEN THE EVAPORATOR FAN MOTORS ARE WIRED FOR 230/3, 460/3, OR 460/1.

ONE UNIT COOLER	Up to 25 Amps Heater	ED17-A4-XX	N/A	N/A	N/A	\$1,351	\$277
	30 Amps Heater	ED12-A4-XX	ED12-BX-XX	ED12-C2-XX	ED12-C4-XX	1,351	277
	50 Amps Heater	N/A	ED14-BX-XX	ED14-C2-XX	ED14-C4-XX	1,580	277
	75 Amps Heater	N/A	N/A	ED16-C2-XX	ED16-C4-XX	2,173	323
TWO UNIT COOLERS	Up to 15 Amps Heaters per Unit Cooler	N/A	ED22-BX-XX	ED22-C2-XX	ED22-C4-XX	2,272	370
	25 Amps Heaters per Unit Cooler	N/A	ED24-BX-XX	ED24-C2-XX	ED24-C4-XX	2,272	370
	50 Amps Heaters per Unit Cooler	N/A	ED26-BX-XX	ED26-C2-XX	ED26-C4-XX	2,395	423
	75 Amps Heaters per Unit Cooler	N/A	N/A	ED28-C2-XX	N/A	3,092	514
THREE UNIT COOLERS	Up to 10 Amps Heaters per Unit Cooler	N/A	ED32-BX-XX	ED32-C2-XX	ED32-C4-XX	2,900	491
	16 Amps Heaters per Unit Cooler	N/A	ED34-BX-XX	ED34-C2-XX	ED34-C4-XX	2,900	491
	30 Amps Heaters per Unit Cooler	N/A	ED36-BX-XX	ED36-C2-XX	ED36-C4-XX	3,586	491
	50 Amps Heaters per Unit Cooler	N/A	ED38-BX-XX	ED38-C2-XX	ED38-C4-XX	3,983	588

† Replace "XX" with "FB" when ordering the sub-circuit fuse block option. For description of "ED" kit nomenclature see page 36.

‡ Sub-circuit fuse block price includes fuse blocks installed in the condensing unit, **less fuses**, for evaporator(s) motors and defrost heaters.

Sub-circuit fusing option is not available for 1/2 to 6 HP Minicon models due to space limitations in the control panel.

* Add "FB" suffix to ED kit part number when pricing sub-circuit fuse block option.

†† ED-Kits are supplied as mounted components and not available as a "ship loose" accessory.

NEXT-GEN WC-SERIES™ • INDOOR WATER COOLED CONDENSING UNITS

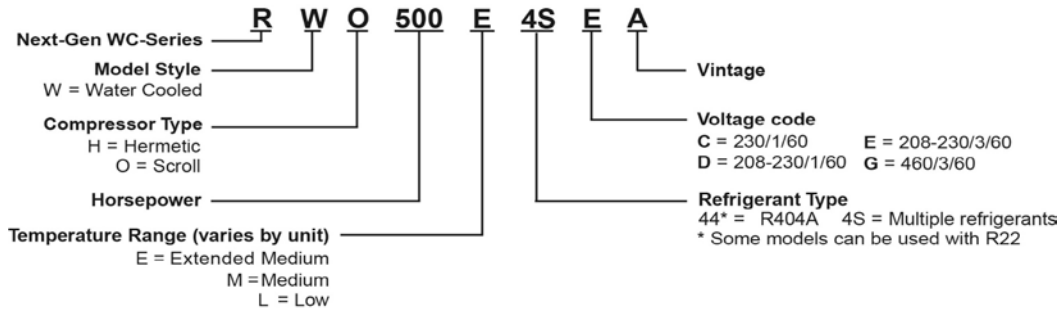
1/2 THRU 6 H.P.

Standard Features (all models)

- Hermetic or Scroll compressors
- Galvanized steel base
- High efficiency water cooled coaxial condenser and heat exchange
- Mechanically formed pre-bent tubing for reduced leak potential
- **Liquid line kit with filter/drier and sight glass with moisture indicator**
- Suction line piping (filter optional)
- Suction and discharge service valves (as required)
- Base mounted shut-off valves
- Color-coded point-to-point wiring
- Large electrical control panel with hinged/removable door
- Refrigerant receiver with isolation valve and pressure relief plug
- Adjustable high and low pressure controls
- Control transformer (460V to 230V) as required
- Compressor contactor (1Ø or 3Ø), start kit (1Ø)
- Crankcase heater
- **Electronic defrost timer with defrost contactor/ relay on low temp. models (2 evaps. Maximum)**
- **Electronic air defrost timer (Medium temperature models)**



For defrost provisions see pages 36 & 37



NEXT-GEN WC-SERIES • HERMETIC COMPRESSOR MODELS

Temp Range	NOM H.P.	Model Number	Compressor	BASE LIST PRICE (Includes Liquid Line Kit with Filter/Drier and Sight Glass with Moisture Indicator, and Defrost Timer or Kit)			Water Reg. Valve‡	Sealed Suction Line Filter	Suction Accum. ^	Pump Down Switch	4 Year Comp. Protection Plan	Approx. Ship Wt. (LBS)
				208-230V/3	208-230V/1	460V/3						
Medium Temp	1/2	RWH055E4S	RST45C1E	N/A	\$4,415	N/A	\$433	\$330	\$508	\$324	\$105 NET	152
	1/2	RWH080E4S	RST55C1E	N/A	4,507	N/A	433	330	508	324	105 NET	156
	3/4	RWH090E4S	RST64C1E	N/A	4,641	N/A	433	330	508	324	105 NET	160
	3/4	RWH100E4S	RST70C1E	\$5,184	5,014	\$5,252	433	330	508	324	105 NET	167
	1	RWH125E4S	RST97C1E	5,330	5,373	N/A	433	330	508	324	118 NET	195
	1-1/2	RWH150E44	CS10K6E	5,481	5,225	6,114	433	330	508	324	118 NET	205
	2	RWH200E44	CS12K6E	6,268	5,769	N/A	433	330	508	324	129 NET	228
	2-1/2	RWH250E44	CS14K6E	6,640	6,192	7,053	470	330	508	324	129 NET	235
	3	RWH300E44	CS18K6E	7,589	7,327	7,890	470	393	785	324	142 NET	253
Low Temp	1-1/2	RWH150L44	CF06K6E	5,393	5,253	N/A	433	330	508	324	118 NET	195
	2	RWH200L44	CF09K6E	5,596	5,456	6,035	433	330	508	324	129 NET	243
	3	RWH300L44	CF12K6E	7,929	7,744	8,059	470	393	785	324	142 NET	255

ADDITIONAL OPTIONS FOR NEXT-GEN WC-SERIES UNITS

DESCRIPTION	LIST PRICE
ANTI-SHORT CYCLE TIMER	\$667
GAUGE KIT, HIGH, LOW, AND OIL PRESSURE	1,866
PHASE LOSS MONITOR	1,129
CUPRONICKEL HEAT EXCHANGER AND WATER PIPING	CF
ELECTRONIC OIL PRESSURE CONTROL (SOPC)	814
TWO-TIERED STACKING RACK	CF

^ For pre-piped Suction Accumulator, the Sealed Suction Line Filter option must also be ordered.

CF = Contact Factory for pricing

‡ OPTIONAL FIELD INSTALLED WATER REGULATING VALVE (ALL MODELS) SHIPPED LOOSE

The V46 pressure-actuated water-regulating valve size estimates are based on 65°F coil inlet water temperature and the refrigerant pressure at 105°F saturated condensing. An adjustable water-pressure reducing valve (0 to 50 psi) is required upstream from the V46 valve, to reduce the inlet water pressure and achieve the required flowrates. Refer to the V46 Pressure-Actuated Water-Regulating Valve Product Bulletin, LIT-125687 on the Johnson Control QuickLIT website for complete information on sizing and adjusting V46 valves.

Water Flowrates (GPM)	Water Regulating Valve
1.5 to 11.5	V46AA-1C
11.5 to 21	V46AB-1C

NEXT-GEN WC-SERIES™ • INDOOR WATER COOLED CONDENSING UNITS

1/2 THRU 6 H.P.

NEXT-GEN WC-SERIES • SCROLL COMPRESSOR MODELS

Temp Range	NOM H.P.	Model Number	Compressor	BASE LIST PRICE (Includes Liquid Line Kit with Filter/Drier and Sight Glass with Moisture Indicator, and Defrost Timer or Kit)*			Water Reg. Valve‡	Sealed Suction Line Filter	Suction Accum.^	Pump Down Switch	4 Year Comp. Protection Plan	Approx. Ship Wt. (LBS)
				208-230V/3	208-230V/1	460V/3						
				Medium Temp	1/2	RWO060M4S						
1/2	RWO080M4S	ZB07KAE	8,452		8,423	N/A	433	330	508	324	194 NET	195
1	RWO100M4S	ZB08KAE	8,562		8,506	N/A	433	330	508	324	194 NET	195
1-1/3	RWO130E4S	ZS09KAE	8,687		8,600	\$9,004	433	330	508	324	194 NET	195
1-1/2	RWO150E4S	ZS11KAE	9,287		9,200	9,604	433	330	508	324	194 NET	205
1-3/4	RWO180E4S	ZS13KAE	9,506		9,419	9,823	433	330	508	324	194 NET	210
2	RWO200E4S	ZS15KAE	9,670		9,582	9,987	433	330	508	324	194 NET	215
2-1/2	RWO250E4S	ZS19KAE	9,799		9,692	10,176	470	330	508	324	194 NET	230
3	RWO300E4S	ZS21KAE	9,965		9,839	10,402	470	393	785	324	253 NET	305
3-1/2	RWO350E4S	ZS26KAE	10,588		10,455	10,899	470	393	785	324	253 NET	325
4	RWO400E4S	ZS29KAE	10,937		10,787	11,238	527	393	785	324	264 NET	352
4-1/2	RWO450E4S	ZS33KAE	10,801		10,649	11,193	527	393	785	324	271 NET	375
Low Temp	6	RWO500E4S	ZS38K4E	11,337	11,184	11,821	816	393	785	324	271 NET	383
	6-1/2	RWO600E4S	ZS45K4E	13,087	N/A	13,296	816	393	785	324	271 NET	405
	1	RWO100L4S	ZF03KAE	9,222	8,740	N/A	433	330	508	324	194 NET	230
	1-1/3	RWO130L4S	ZF04KAE	9,383	8,955	N/A	433	330	508	324	194 NET	230
	1-1/2	RWO160L4S	ZF05KAE	9,603	9,232	N/A	433	330	508	324	194 NET	230
	2	RWO230L4S	ZF07KAE	9,882	9,754	10,192	433	330	508	324	194 NET	230
	2-1/2	RWO250L4S	ZF08K4E	10,233	10,091	10,342	470	330	508	324	194 NET	240
	3	RWO300L4S	ZF09K4E	10,487	10,336	11,744	470	393	785	324	253 NET	245
	3-1/2	RWO350L4S	ZF11K4E	10,957	10,803	11,215	470	393	785	324	253 NET	255
	4	RWO400L4S	ZF13K4E	11,414	11,269	11,673	527	393	785	324	264 NET	352
	5	RWO500L4S	ZF15K4E	11,555	11,415	11,824	816	393	785	324	264 NET	367
	6	RWO600L4S	ZF18K4E	13,027	N/A	13,735	816	393	785	324	271 NET	383

ADDITIONAL OPTIONS FOR NEXT-GEN WC-SERIES UNITS

DESCRIPTION	LIST PRICE
ANTI-SHORT CYCLE TIMER	\$667
GAUGE KIT, HIGH, LOW, AND OIL PRESSURE	1,866
PHASE LOSS MONITOR	1,129
CUPRONICKEL HEAT EXCHANGER AND WATER PIPING	CF
ELECTRONIC OIL PRESSURE CONTROL (SOPC)	814
TWO-TIERED STACKING RACK	CF

* See page 38 for a complete list of features, voltage codes and an example of nomenclature layout.

^ For pre-piped Suction Accumulator, the Sealed Suction Line Filter option must also be ordered.

CF = Contact Factory for pricing

‡ OPTIONAL FIELD INSTALLED WATER REGULATING VALVE (ALL MODELS) SHIPPED LOOSE

The V46 pressure-actuated water-regulating valve size estimates are based on 65°F coil inlet water temperature and the refrigerant pressure at 105°F saturated condensing. An adjustable water-pressure reducing valve (0 to 50 psi) is required upstream from the V46 valve, to reduce the inlet water pressure and achieve the required flowrates. Refer to the V46 Pressure-Actuated Water-Regulating Valve Product Bulletin, LIT-125687 on the Johnson Control QuickLIT website for complete information on sizing and adjusting V46 valves.

Water Flowrates (GPM)	Water Regulating Valve
1.5 to 11.5	V46AA-1C
11.5 to 21	V46AB-1C

LEGACY RW SERIES • INDOOR WATER COOLED CONDENSING UNITS

1/2 THRU 5 H.P.

RW Series 1/2 to 5 H.P. Hermetic models are no longer available.

- Selection of Hermetic, Semi-Hermetic, and Discus Compressors
 - Low Height, Compact Design on a Sturdy Base.
 - High-Low Pressure Control, Compressor Contactor and Control Circuit Fusing.
 - Liquid Receiver with Shut-off Valve and Pressure Relief Plug.
 - Coaxial Condenser as standard, Cleanable Condenser is optional.
- For defrost provisions see pages 30 & 31.



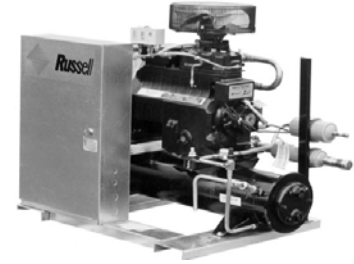
COMP TYPE	§ REF TYPE	NOM H.P.	MODEL NUMBER	BASE LIST PRICE			WATER REG. VALVE‡	CLEANABLE CONDENSER	LIQUID LINE KIT (LK)	* SUCTION LINE KIT (SK)	^ SUCTION ACCUM.	4 Year Comp. Protection Plan	Approx. Ship Wt (LBS)
				230/3	230/1	460/3							
HERMETIC	MED. TEMP R404A	0.5	RWH055M44	<p>RW Series 1/2 to 5 H.P. models are no longer available.</p> <p>Use Next-Gen WC-Series models instead.</p>									
		0.5	RWH080M44										
		0.75	RWH090M44										
		0.75	RWH100M44										
		1.0	RWH125M44										
		1.5	RWH151M44										
		1.5	RWH200M44										
		1.75	RWH251M44										
		2.0	RWH301M44										
		3.0	RWH325M44										
	4.0	RWH400M44											
	5.0	RWH500M44											
	LOW TEMP R404A	0.75	RWH075L44										
		1.0	RWH100L44										
		1.5	RWH165L44										
2.0		RWH215L44											
3.0		RWH315L44											
SEMI-HERMETIC	MED. TEMP R404A	0.75	RWS075M44										
		1.0	RWS100M44										
		1.5	RWS150M44										
		2.0	RWS200M44										
		2.5	RWS250M44										
	3.0	RWS300M44											
	LOW TEMP R404A	0.5	RWS050L44										
		0.75	RWS075L44										
		1.0	RWS100L44										
		1.5	RWS150L44										
		2.0	RWS200L44										
3.0		†RWS300L44											

RW SERIES • INDOOR WATER COOLED CONDENSING UNITS

3 THRU 40 H.P.

STANDARD FEATURES:

- Copeland Discus (RWD model) Compressors.
- High Efficiency, Cleanable Shell and Tube Condenser/Receiver
- Compressor Contactor and Control Circuit Fusing in a NEMA 1 enclosure.
- Models up to 80 HP are available, Contact Factory for pricing.
- High / Low Pressure and Oil Pressure Controls.
- Spring Mounted Compressor.
- Head Cooling Fan (when required).
- Isolation and Pressure Relief Valves.
- UL and C-UL listed.



OPTIONAL FEATURES:

- Oversized Control Panel (OCP) required when adding defrost kits or other electrical components.
- Two tiered stacking racks.

Shown with optional oversized control panel, liquid line assembly, suction line assembly and Electronic oil pressure control.

REFR. TYPE	NOM HP	MODEL NUMBER	LIST PRICE		WATER REG. VALVE‡	LK	* SK	^ SUCTION LINE ACCUM.	OIL SEPARATOR	4 Year Comp. Protection Plan	APPROX. SHIP WT (LBS)
			230/3	460/3							
MED. TEMP. R404A	3.0	RWS3M44	Model no longer available.								
	5.0	RWD5M44	18,535	20,517	816	606	486	785	1,337	558 NET	485
	5.0	RWD6M44	19,947	21,998	816	606	486	785	1,337	558 NET	495
	7.5	RWD7M44	21,354	23,600	1,118	606	486	785	1,424	558 NET	540
	7.5	RWD8M44	23,385	25,410	1,118	606	486	785	1,424	558 NET	590
	10.0	RWD10M44	27,481	28,412	1,118	816	825	1,154	1,424	721 NET	780
	12.0	RWD12M44	29,776	30,309	1,444	1,024	1,316	2,411	1,674	865 NET	790
	15.0	RWD15M44	30,685	31,600	1,444	1,024	1,316	2,411	1,674	1,086 NET	800
	20.0	RWD20M44	35,246	35,924	1,444	1,024	1,316	2,411	1,674	1,382 NET	835
	25.0	RWD25M44	40,680	41,246	1,444	1,196	1,316	3,020	2,774	1,554 NET	1,050
30.0	RWD30M44	48,411	48,850	1,444	1,196	1,316	3,020	2,774	1,656 NET	1,105	
35.0	RWD35M44	54,659	55,094	1,444	1,196	1,316	3,020	2,774	1,744 NET	1,150	
40.0	RWD40M44	59,894	60,595	1,444	1,196	1,316	3,020	2,774	1,821 NET	1,200	
LOW TEMP. R404A	3.0	RWS3L44	Model no longer available.								
	3.0	RWD3L44	15,962	17,748	816	606	486	785	1,337	306 NET	390
	4.0	RWD4L44	17,108	18,834	816	606	486	785	1,337	454 NET	465
	5.0	RWD5L44	17,928	19,262	816	606	486	785	1,337	454 NET	485
	6.0	RWD6L44	20,114	21,219	816	606	486	785	1,337	550 NET	530
	8.0	RWD8L44	21,931	23,449	1,118	606	486	785	1,424	558 NET	590
	9.0	RWD9L44	24,270	25,939	1,118	816	825	1,154	1,424	721 NET	620
	10.0	RWD10L44	26,773	27,395	1,118	816	825	1,154	1,424	721 NET	795
	12.0	RWD12L44	29,734	30,092	1,118	1,024	1,316	2,411	1,674	865 NET	820
	15.0	RWD15L44	32,385	32,770	1,444	1,024	1,316	2,411	1,674	1,116 NET	845
22.0	RWD22L44	38,150	38,439	1,444	1,024	1,316	2,411	1,674	1,382 NET	1,030	
27.0	RWD27L44	53,630	54,000	1,444	1,196	1,316	3,020	2,774	1,554 NET	1,255	
30.0	RWD30L44	55,635	56,391	1,444	1,196	1,316	3,020	2,774	1,656 NET	1,310	

* Suction line assembly option must be ordered to receive the Suction Accumulator pre-piped.

^ For pre-piped Suction Accumulator, the SK option must also be ordered.

‡ Water Reg. Valve shipped Loose for field installation.

OPTIONAL PIPING COMPONENTS			
*LIQUID LINE KIT		* SUCTION LINE KIT	
HP	Kit Num	HP	Kit Num
3 - 8	LK-4	3 - 8	SK-4
9 - 10	LK-5	9 - 10	SK-5
12 - 22	LK-6	12 - 22	SK-6
25 - 40	LK-7	25 - 40	SK-7

See pages 21 & 25 for piping component pricing.

ADDITIONAL OPTIONS FOR RW UNITS	
DESCRIPTION	LIST PRICE
ANTI-SHORT CYCLE TIMER	\$667
GAUGE KIT, HIGH, LOW, AND OIL PRES.	1,866
PHASE LOSS MONITOR	1,129
OVERSIZED CONTROL PANEL (OCP)	637
ELECTRONIC OIL PRESSURE CONTROL (SOPC)	814
TWO-TIERED STACKING OPTION - RWH and RWS	C/F
TWO-TIERED STACKING OPTION - RWD	C/F

LEGACY RW / RN SERIES • SCROLL CONDENSING UNITS

RW SERIES PRICING

REFR. TYPE	NOM. HP	MODEL NUMBER	LIST PRICE			WATER REG. VALVE‡	CLEAN-ABLE COND.	LK	* SK	^ SUCTION LINE ACCUM.	OIL SEP.	4 Year Comp. Protection Plan	APPROX. SHIP WT. (LBS.)
			230/3	230/1	460/3								
MED. TEMP. R404A	1.0	RWO100M44	RW Series 1/2 to 6-1/2 H.P. Scroll models are no longer available. Use Next-Gen WC-Series models instead.										
	1.5	RWO150M44											
	2.0	RWO200M44											
	2.5	RWO250M44											
	3.0	RWO315M44											
	3.0	RWO350M44											
	4.0	RWO400M44	17,647	N/A	18,113	1,118	C/F	606	486	785	1,424	448 NET	405
	6.0	RWO600M44	21,988	N/A	23,577	1,118	C/F	606	486	785	1,424	448 NET	450
	6.5	RWO650M44	27,305	N/A	28,087	1,118	C/F	816	825	1,154	1,424	485 NET	665
	7.5	RWO7M44	27,789	N/A	28,630	1,444	C/F	1,024	1,316	2,411	1,674	560 NET	675
LOW TEMP. R404A	2.0	RWO200L44	RW Series 1/2 to 6-1/2 H.P. Scroll models are no longer available. Use Next-Gen WC-Series models instead.										
	2.5	RWO250L44											
	3.0	RWO300L44											
	3.0	RWO301L44											
	4.0	RWO400L44											
	5.0	RWO500L44											
	6.0	RWO600L44	17,642	N/A	19,035	1,118	C/F	606	486	785	1,424	448 NET	470
	7.5	RWO8L44	22,166	N/A	23,810	1,118	C/F	816	825	1,154	1,424	485 NET	645
	10.0	RWO10L44	24,794	N/A	25,606	1,444	C/F	1,024	1,316	2,411	1,674	560 NET	670
	13.0	RWO13L44											

RN SERIES PRICING

REFR. TYPE	NOM. HP	MODEL NUMBER	LIST PRICE			WATER REG. VALVE‡	CLEAN-ABLE COND.	LK	* SK	^ SUCTION LINE ACCUM.	OIL SEP.	4 Year Comp. Protection Plan	APPROX. SHIP WT. (LBS.)
			230/3	230/1	460/3								
MED. TEMP. R404A	2.0	RNO200M44	RN Series models are no longer available.										
	2.5	RNO250M44											
	3.0	RNO315M44											
	3.0	RNO350M44											
	4.0	RNO400M44											
	6.0	RNO600M44											
	6.5	RNO650M44											
	7.5	RNO7M44											
	7.5	RNO8M44											
	10.0	RNO10M44											
13.0	RNO13M44												
LOW TEMP. R404A	2.0	RNO200L44	RN Series models are no longer available.										
	2.5	RNO250L44											
	3.0	RNO300L44											
	3.0	RNO301L44											
	4.0	RNO400L44											
	5.0	RNO500L44											
	6.0	RNO600L44											
	7.5	RNO8L44											
	10.0	RNO10L44											
	13.0	RNO13L44											

* Suction line assembly option must be ordered to receive the Suction Accumulator pre-piped.

^ For pre-piped Suction Accumulator, the SK option must also be ordered.
C/F = Consult the factory for pricing.

‡ Water Reg. Valve shipped Loose for field installation.

OPTIONAL PIPING COMPONENTS			
* LIQUID LINE KIT		* SUCTION LINE KIT	
HP	Kit Num	HP	Kit Num
1/2 - 3	LK-MC1	1/2 - 3	*SK-MC-1
4 - 6	LK-MC2	4 - 6	*SK-MC-2
3 - 8	LK-4	3 - 8	SK-4
9 - 10	LK-5	9 - 10	SK-5
12 - 22	LK-6	12 - 22	SK-6

See pages 21 & 25 for piping component pricing.

ADDITIONAL OPTIONS FOR RW & RN UNITS	
DESCRIPTION	LIST PRICE
ANTI-SHORT CYCLE TIMER	\$667
GAUGE KIT, HIGH, LOW, AND OIL PRESSURE	1,866
PHASE LOSS MONITOR	1,129
OVERSIZED CONTROL PANEL (OCP)	637
ELECTRONIC OIL PRESSURE CONTROL (SOPC)	814
TWO-TIERED STACKING OPTION - 1 thru 6.5 HP	C/F
TWO-TIERED STACKING OPTION - 7 thru 13 HP	C/F

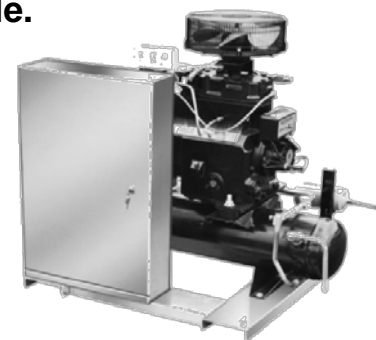
RN SERIES • REMOTE COMPRESSOR UNITS

3 THRU 40 H.P.

RN Series models are no longer available.

STANDARD FEATURES:

- Semi-Hermetic Copeland Discus (RND series) or Reed (RNS series) Compressors.
- Spring Mounted Compressor.
- Compressor Contactor and Control Circuit Fusing in a NEMA 1 enclosure.
- Head Cooling Fan (when required).
- Large Receiver with Isolation and Pressure Relief Valves.
- High / Low Pressure and Mechanical Oil Pressure Controls.
- Models up to 80 HP are available, Contact Factory for pricing.



OPTIONAL FEATURES:

- Oversized Control Panel (OCP) required when adding defrost kits or other electrical components.
- Two tiered stacking racks.
- Remote Air Cooled Condensers are available, see pages 38-42
- All listed options are factory installed.

Shown with optional oversized control panel, liquid line assembly, suction line assembly and Electronic oil pressure control.

REFR. TYPE	NOM. H.P.	MODEL NUMBER	LIST PRICE		*LK	* SK	^ SUCTION LINE ACCUM.	OIL SEP.	4 Year Comp. Protection Plan	APPROX. SHIP WT. (LBS.)	
			208-230V/3	460V/3							
MED. TEMP. R404A	3.0	RNS3M44	<h1>RN Series models are no longer available</h1>								
	5.0	RND5M44									
	6.0	RND6M44									
	7.5	RND7M44									
	7.5	RND8M44									
	10.0	RND10M44									
	12.0	RND12M44									
	15.0	RND15M44									
	20.0	RND20M44									
	25.0	RND25M44									
LOW TEMP. R404A	3.0	RNS3L44									
	3.0	RND3L44									
	4.0	RND4L44									
	5.0	RND5L44									
	6.0	RND6L44									
	8.0	RND8L44									
	9.0	RND9L44									
	10.0	RND10L44									
	12.0	RND12L44									
	15.0	RND15L44									
22.0	RND22L44										
27.0	RND27L44										
30.0	RND30L44										

* Suction line assembly option must be ordered to receive the Suction Accumulator pre-piped.

^ For pre-piped Suction Accumulator, the SK option must also be ordered.

RE-HEAT KITS

Re-heat kits have been discontinued and are no longer available.

HEAT RECLAIM HEATER



MODEL NUMBER	CFM	QTY OF FANS	MOTOR HP	LIST PRICE		APPROX. SHIP WT. (LBS)
				208/230/1460/1/60	208/230/3460/3/60	
HACS001B-08	3,020	1	1/3	\$2,180	\$2,303	97
HACS001B-12	2,890	1	1/3	2,860	2,983	99
HACS002B-08	2,840	1	1/3	3,195	3,318	105
HACS003B-08	4,450	1	1/3	5,838	5,961	128
HACS005B-10	3,900	1	1/3	7,312	7,435	137
HACS008B-10	8,640	2	1/3	8,950	9,073	190
HACS010B-10	7,780	2	1/3	10,048	10,171	205
HACS012B-10	7,080	2	1/3	12,032	12,155	221

Specify voltage and discharge orientation(horizontal or vertical) when ordering

FREIGHT SURCHARGES

The following freight surcharges will be applied to orders (when applicable). For delivery and post delivery issues, the customer will be notified and a second invoice will be generated.

BASIC LTL FREIGHT SURCHARGES	NET Price [†]
Delivery Notification / Call before delivery	\$71
Lift Gate Service	222
Saturday Delivery Request	504
*Failed/Refused delivery attempt (minimum)	102
*Failed/Refused delivery attempt (Maximum)	1,263
Re-Consignment fee	95
Storage (Per 100 LBS for each calendar day)	4.81

BASIC CONTRACT HAUL SURCHARGES	NET [†]
Cancelled truck not used	\$2,247
Reconsignment fee	806
Reconsignment cost per mile (\$1566 Minimum)	3.36
Delay in unloading (4 hours or more past an appointment)	1,566

[†] Net prices are not to be discounted.

* Refused Delivery fee will be calculated @ 12.07 cents per 100 LBS, subject to Minimum and Maximum charges shown above (per incident).

[†] Net prices are not to be discounted.

APEX • TOP MOUNTED REFRIGERATION SYSTEM

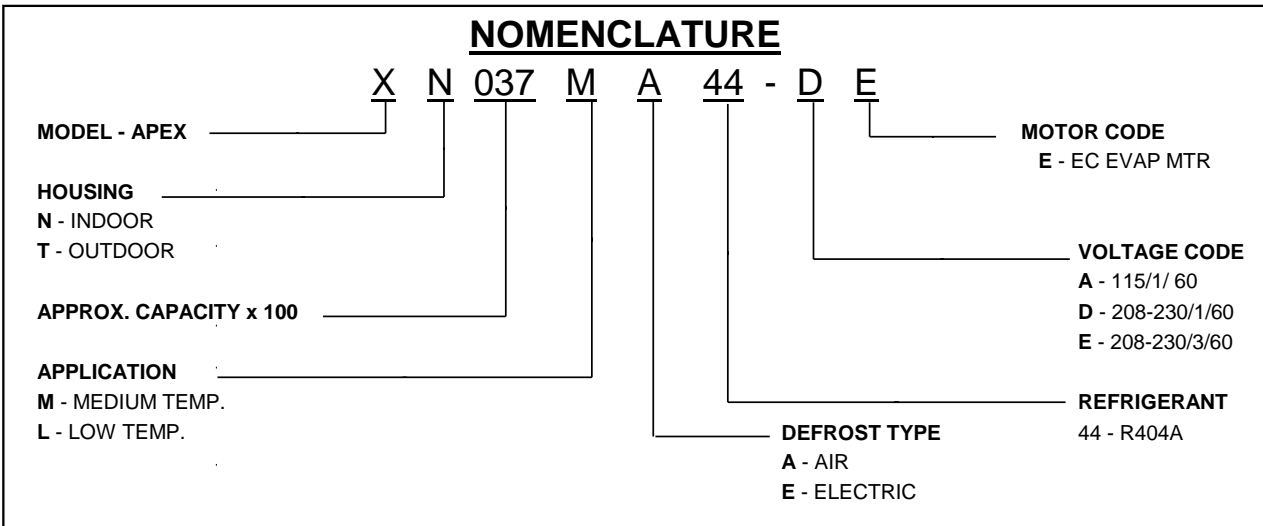
Medium Temperature - Air Defrost

Model Number	Indoor List Price EC Evap Mtr	Outdoor List Price EC Evap Mtr	Indoor Power Cord	Volts/Ph/Hz	INDOOR NET / SHIP WT. (LBS.)	OUTDOOR NET / SHIP WT. (LBS.)	4 Year Compressor Protect. Plan Net Price
XN026MA44AE	\$5,498	N/A	Yes	115/1/60	120 / 185	N/A	\$78
XN029MA44AE	6,022	N/A	Yes	115/1/60	120 / 185	N/A	78
XN037MA44AE	6,211	N/A	Yes	115/1/60	125 / 190	N/A	78
XN050MA44AE	8,216	N/A	Yes	115/1/60	210 / 305	N/A	78
X*050MA44DE	8,223	\$9,338	Yes	208-230/1/60	210 / 305	220 / 360	78
X*068MA44DE	9,511	10,226	Yes	208-230/1/60	220 / 315	230 / 370	78
X*076MA44DE	10,161	11,133	Yes	208-230/1/60	220 / 315	230 / 375	78
X*106MA44DE	12,104	12,520	Yes	208-230/1/60	295 / 420	310 / 485	80
X*106MA44EE	11,356	12,479	No	208-230/3/60	305 / 430	320 / 495	80
X*134MA44DE	13,550	13,707	No	208-230/1/60	310 / 435	325 / 500	96
X*134MA44EE	12,418	13,627	No	208-230/3/60	310 / 435	325 / 500	96

Low Temperature - Electric Defrost

Model Number	Indoor List Price EC Evap Mtr	Outdoor List Price EC Evap Mtr	Indoor Power Cord	Volts/Ph/Hz	INDOOR NET / SHIP WT. (LBS.)	OUTDOOR NET / SHIP WT. (LBS.)	4 Year Compressor Protect. Plan Net Price
XN018LE44AE	\$8,995	N/A	Yes	115/1/60	140 / 200	N/A	\$78
X*024LE44AE	10,226	N/A	Yes	115/1/60	210 / 305	N/A	78
X*024LE44DE	10,841	\$10,729	Yes	208-230/1/60	210 / 305	225 / 365	78
X*031LE44DE	10,799	12,061	Yes	208-230/1/60	245 / 340	255 / 400	78
X*043LE44DE	12,024	13,817	Yes	208-230/1/60	245 / 340	255 / 400	80
X*051LE44DE	13,798	15,600	Yes	208-230/1/60	315 / 445	320 / 510	80
X*051LE44EE	13,794	15,474	No	208-230/3/60	315 / 445	320 / 510	80
X*068LE44DE	14,805	16,614	No	208-230/1/60	320 / 450	335 / 515	94
X*068LE44EE	14,793	16,604	No	208-230/3/60	320 / 450	335 / 515	94

NOMENCLATURE



Save Time and Money

- Fully factory assembled, charged and tested.
- No piping or loose components to install which saves you labor cost \$\$\$.
- Adjustable digital controller is preset for typical cooler or freezer applications.
- **Two-year warranty on all parts***
See Apex IOM M900 for full Warranty Disclosure

* Insert character for housing code or motor code as applicable

Quick Installation

- Installs in a fraction of the time it takes for a typical split refrigeration systems.
- The supply/return register mounts flush with a standard 4" ceiling panel which provides for more storage in your cooler or freezer.
- Condensate is evaporated so no drain line is required on indoor models.
- Outdoor models come standard with a roof and drain line connection (see drawing in Catalog 509).



Standard Features

- Inverter Duty rail mounted motors
- Vertical air flow
- Motors with inherent thermal overload protection
- 3/8"refrigerant saving copper tube, aluminum fin coils*
- 650 PSIG working pressure
- Vinyl coated heavy gauge steel fan guards
- Swept wing fan/Venturi improves airflow and sound
- Hinged Venturi panels for easy servicing
- Hinged leg design for simple installation
- Proprietary floating coil design
- Thru-the-door non-fused disconnect switch
- Heavy gauge painted galvanized steel construction
- Heavy duty lifting eyes for equipment rigging
- UL and cUL listed for outdoor use
- LED control panel lighting
- California Title 24 compliant - see pages 43-44 for applicable models and details

Options

- Fan cycling head pressure control
- Flooded head pressure control
- Subcooling circuit
- Horizontal air flow
- Multi-circuited coils
- Wide selection of fin coatings and materials
- Individual motor fusing
- Individual or paired motor contactors
- EMS control options
- Variable frequency drives
- Multiple control panel locations
- Multiple refrigerant options
- Thru-the-door fused disconnect
- Main circuit breaker disconnect
- Leg height up to 46" (18" standard)
- Fixed box style legs (25")

QUANTUM AIR™ AIR COOLED CONDENSER NOMENCLATURE - LARGE MODELS (Page 49 - 52)

R	D	D	0	8	7	G	D	3	A
1	2	3	4	5	6	7	8	9	10
Position Number and Description									
1	Model Series - R = Russell Model				8	Motor			
2	Unit Type - D = Condenser					B – 1140 RPM, 1.5 HP Motor			
3	Width					D – 850 RPM, 1.5 HP Motor			
	S = Single Wide					L – 850 RPM, 1 HP Motor			
	D = Double Wide					E – 550 RPM, 1/3 HP Motor			
4-6	Capacity (MBTUH)**					G – 900 RPM Variable Speed EC Motor (Rail Mtd.)			
7	Voltage Code					K – 1200 RPM Variable Speed EC Motor (Rail Mtd.)			
	E – 208-230V/3/60		N – 200-220V/3/50			(Enclosed Motors are an option available for certain Voltage/RPM combinations)			
	G – 460V/3/60		Q – 380V/3/50						
	J – 575V/3/60		X – Other -		9	Number of Fans Long - 1 to 7			
	Non-catalogued				10	Vintage Code			

AIR COOLED CONDENSER NOMENCLATURE - SMALL MODELS (Page 48)

R	D	S	007	D	A	2	B	1	2	A	1	A
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII
I. Model Series	R – Russell						IX. Coil Material and Coating Options*	1 – Aluminum fins				
II. Unit Type	D – Condenser							2 – Copper fins				
III. Series	S – Single fan wide							3 – Al + AST coating				
IV. Capacity – Three Number Characters								6 – Al + Heresite				
V. Voltage Code	A – 115V/1/60		H – 575V/1/60				X. Housing Material and Coatings*	1 – Aluminum		7 – Stainless Steel 316L		
	D – 208-230V/1/60		X – Other					2 – Galvanized		X – Other		
	E – 208-230V/3/60						XI. Unit Design Configuration	A – Vertical Fan Discharge, Standard Legs				
	F – 460V/1/60		Codes D, E, F, and G can					E – Vertical Fan Discharge, 30° Legs				
	G – 460V/3/60		be used with 50 or 60 Hz power					N – Horizontal Fan Discharge, Standard Legs				
VI. Motor/Fan Type	A – 1140 RPM, 0.33 HP, Metal Blade						XII. Circuit Splitting Options	1 – Full				
	C – 850 RPM, 0.25 HP, Metal Blade							2 – 50/50				
	H – 1140 RPM, 0.5 HP Totally Enclosed, Metal Blade							X – Other				
	X – Other						XIII. Revision Code – Single Alphanumeric Character	A – Initial Release				
VII. Length in Fans – 1 or 2												
VIII. Coil Density	A – 8 fpi		D – 14 fpi				* Contact Application Engineering to obtain price quotes for special fin materials or coatings.					
	B – 10 fpi		X – Other									
	C – 12 fpi											

When ordering please specify: Motor Voltage, Control Voltage (24, 115V or 208V), Internal or External Control Power, Design Ambient Temperature, the number of compressor systems and FPI required. Also provide the Refrigerant type, THR, T.D. for each compressor system.

SMALL CONDENSERS

1075 RPM .33 HP MOTORS			
Model Number	10 FPI List Price	Fan Configuration	Approx Net Weight (LBS.)
RDS001DA1B12A1A	\$2,180	1 x 1	80
RDS002DA1B12A1A	2,860	1 x 1	86
RDS003DA1B12A1A	3,195	1 x 1	107
RDS005DA1B12A1A	5,838	1 x 1	116
RDS007DA2B12A1A	7,312	1 x 2	164
RDS009DA2B12A1A	8,950	1 x 2	179
RDS011DA2B12A1A	10,048	1 x 2	195

850 RPM .25 HP MOTORS			
Model Number	10 FPI List Price	Fan Config.	Approx Net Weight (LBS.)
RDS001DC1B12A1A	\$2,390	1 x 1	80
RDS002DC1B12A1A	3,429	1 x 1	86
RDS003DC1B12A1A	3,921	1 x 1	107
RDS004DC1B12A1A	6,189	1 x 1	116
RDS006DC2B12A1A	7,633	1 x 2	164
RDS008DC2B12A1A	9,597	1 x 2	179
RDS009DC2B12A1A	10,431	1 x 2	195

1075 RPM .33 HP MOTORS - Totally Enclosed			
Model Number	10 FPI List Price	Fan Config.	Approx. Net Weight (LBS.)
RDS001DH1B12A1A	\$3,172	1 x 1	80
RDS002DH1B12A1A	3,853	1 x 1	86
RDS003DH1B12A1A	4,188	1 x 1	107
RDS005DH1B12A1A	6,830	1 x 1	116
RDS007DH2B12A1A	9,296	1 x 2	164
RDS009DH2B12A1A	10,934	1 x 2	179
RDS011DH2B12A1A	12,032	1 x 2	195

POSITION V - Available Voltage Options*

Voltage Code	Adders Per Fan section	Available Based Upon Position VI - Motor Options
A-115/1/60	N/C	Only available with motor option A
D-208-230/1/60	—	Available with motor options A & C
E-208-230/3/60	\$123	Available with motor options A, C, & H
F-460/1/60	N/C	Available with motor options A & C
G-460/3/60	123	Available with motor options A, C, & H
H-575/1/60	48	Only available with motor option A

Note: "N/A" = Not available, "N/C" = No additional charge, "—" = Base Model Feature

POSITION VI - Available Motor / Fan Type Options

Motor Type	Adder Per Fan	Available Based Upon Position V - Voltage Options
A- 1075, 0.33HP	—	Available in Voltage codes A, D, E, F, G, H
C- 850 RPM, 0.25HP	—	Available in Voltage codes D, E, F, G
H - 1075, 0.5 HP	—	Available in Voltage codes E, G

Note: "N/A" = Not available, "N/C" = No additional charge, "—" = Base Model Feature

Position - VII - Indicates Length in Fans (1 or 2)

Position - VIII - Coil Density Options Price Add or Deduct (8FPI)

Fan Configuration	A - 8 FPI	B - 10 FPI	C - 12 FPI	D - 14 FPI
1 X 1	(\$376)	—	\$378	\$756
1 X 2	(\$752)	—	\$756	\$1,510

Note: "N/A" = Not available, "N/C" = No additional charge, "—" = Base Model Feature

Position - IX - Coil Material and Coating Options**

Aluminum fins (Standard) / Copper fins / Other

No Coating (Standard) / Al + AST coating / Al + Heresite coating / Al + Polyester coat - Pre Coated Fin Material / Other

Position - X - Housing Material and Coating Options**

Galvanized (Standard) / Aluminum / Stainless Steel 316L / Other

Position - XI - Unit Design Configuration

Leg Configuration	Fan Config. 1 x 1	Fan Config. 1 x 2
A – Vertical Fan Discharge, Standard 15" Legs	—	—
E – Vertical Fan Discharge, 30" Legs	\$137	\$273
N – Horizontal Fan Discharge, Standard Legs	—	—

Position - XII - Circuit Splitting Options**

Full (Standard) / 50/50 / Multi-Circuiting / Subcooling Circuit / Other

Available Options**

Fan cycling head pressure control (2 fan model only)
Variable speed fan control (header end fan only)
Flooded head pressure control (shipped loose)

Notes:

* Codes D, E, F and G can be used with 50 or 60 Hz power.

** Contact Application Engineering to obtain price quotes for special fin materials, coating, circuit splitting and available options.

1. Horizontal discharge orientation is available using standard leg arrangement code A.
2. Floating coil is not available for small condensers.

QUANTUM AIR™ LARGE CONDENSERS

1140 RPM 1.5 HP MOTORS (Code B)

SINGLE FAN WIDTH

Model Number	8 FPI	10 FPI	12 FPI	14 FPI	Fans	Approx. Net Weight (LBS.)
RDS004^B1	\$6,769	\$7,173	\$7,564	\$7,955	1 x 1	350
RDS006^B1	8,618	9,022	9,414	9,805	1 x 1	375
RDS007^B1	9,624	10,028	10,419	10,810	1 x 1	400
RDS012^B2	14,156	14,965	15,747	16,529	1 x 2	725
RDS015^B2	19,485	20,294	21,076	21,858	1 x 2	750
RDS018^B2	23,090	23,899	24,681	25,463	1 x 2	775
RDS022^B3	28,495	29,709	30,882	32,055	1 x 3	1,125
RDS027^B3	33,176	34,390	35,563	36,736	1 x 3	1,150
RDS030^B4	39,811	41,429	42,993	44,557	1 x 4	1,500
RDS036^B4	45,034	46,652	48,216	49,780	1 x 4	1,525
RDS039^B5	49,669	51,692	53,647	55,602	1 x 5	1,875
RDS047^B5	57,789	59,812	61,767	63,722	1 x 5	1,900
RDS056^B6	69,157	71,585	73,931	76,277	1 x 6	2,275
RDS065^B7	81,261	84,093	86,830	89,567	1 x 7	2,650

850 RPM 1.5 HP MOTORS (Code D)

SINGLE FAN WIDTH

Model Number	8 FPI	10 FPI	12 FPI	14 FPI	Fans	Approx. Net Weight (LBS.)
RDS004^D1	\$6,698	\$7,103	\$7,494	\$7,885	1 x 1	350
RDS005^D1	8,563	8,967	9,358	9,749	1 x 1	375
RDS007^D1	9,541	9,946	10,337	10,728	1 x 1	400
RDS010^D2	14,478	15,287	16,070	16,852	1 x 2	725
RDS014^D2	19,427	20,236	21,018	21,800	1 x 2	750
RDS015^D2	21,543	22,352	23,134	23,916	1 x 2	775
RDS021^D3	28,666	29,880	31,053	32,226	1 x 3	1,125
RDS024^D3	32,456	33,669	34,843	36,016	1 x 3	1,150
RDS028^D4	38,934	40,552	42,116	43,680	1 x 4	1,500
RDS032^D4	43,660	45,278	46,842	48,406	1 x 4	1,525
RDS035^D5	47,605	49,628	51,583	53,539	1 x 5	1,875
RDS043^D5	57,146	59,169	61,124	63,080	1 x 5	1,900
RDS052^D6	68,573	71,000	73,346	75,693	1 x 6	2,275
RDS060^D7	80,400	83,232	85,969	88,706	1 x 7	2,650

DOUBLE FAN WIDTH

Model Number	8 FPI	10 FPI	12 FPI	14 FPI	Fans	Approx. Net Weight (LBS.)
RDD022^B2	\$29,237	\$30,855	\$32,419	\$33,984	2 x 2	1,500
RDD030^B2	38,903	40,521	42,085	43,649	2 x 2	1,525
RDD036^B2	45,304	46,922	48,486	50,050	2 x 2	1,550
RDD045^B3	58,191	60,618	62,964	65,310	2 x 3	2,275
RDD054^B3	68,083	70,510	72,857	75,203	2 x 3	2,300
RDD059^B4	77,912	81,149	84,277	87,405	2 x 4	3,025
RDD072^B4	89,929	93,166	96,294	99,422	2 x 4	3,050
RDD078^B5	99,341	103,387	107,297	111,208	2 x 5	3,775
RDD094^B5	115,754	119,799	123,710	127,620	2 x 5	3,800
RDD113^B6	138,298	143,152	147,845	152,537	2 x 6	4,550
RDD131^B7	162,921	168,584	174,059	179,534	2 x 7	5,300

DOUBLE FAN WIDTH

Model Number	8 FPI	10 FPI	12 FPI	14 FPI	Fans	Approx. Net Weight (LBS.)
RDD019^D2	\$28,167	\$29,785	\$31,349	\$32,913	2 x 2	1,500
RDD028^D2	38,789	40,408	41,972	43,536	2 x 2	1,525
RDD031^D2	42,362	43,980	45,544	47,108	2 x 2	1,550
RDD041^D3	57,693	60,121	62,467	64,813	2 x 3	2,275
RDD048^D3	65,507	67,934	70,281	72,627	2 x 3	2,300
RDD055^D4	77,952	81,188	84,316	87,445	2 x 4	3,025
RDD065^D4	87,502	90,738	93,867	96,995	2 x 4	3,050
RDD069^D5	95,171	99,216	103,127	107,037	2 x 5	3,775
RDD086^D5	114,495	118,541	122,451	126,362	2 x 5	3,800
RDD103^D6	137,213	142,068	146,760	151,453	2 x 6	4,550
RDD121^D7	160,821	166,485	171,959	177,434	2 x 7	5,300

^ Insert voltage code here.

\$219 List price adder per fan 575/3/60 motors.

\$860 List Price adder (per fan) for Totally Enclosed Motor. 1.5 HP 1140 or 850 RPM, or 1.0 HP 850 RPM only. Not available for 550 RPM models.

^ Insert voltage code here.

575V motors are not available for units with 850RPM, 1.5 HP motors.

QUANTUM AIR™ LARGE CONDENSERS

850 RPM 1.0 HP MOTORS (Code L)†

SINGLE FAN WIDTH

Model Number	8 FPI	10 FPI	12 FPI	14 FPI	Fans	Approx. Net Weight (LBS.)
RDS004^L1	\$6,260	\$6,665	\$7,056	\$7,447	1 x 1	350
RDS006^L1	8,105	8,510	8,901	9,292	1 x 1	375
RDS008^L1	9,688	10,093	10,484	10,875	1 x 1	400
RDS010^L2	13,596	14,406	15,188	15,970	1 x 2	725
RDS012^L2	17,154	17,963	18,745	19,528	1 x 2	750
RDS015^L2	20,740	21,549	22,331	23,113	1 x 2	775
RDS019^L3	27,099	28,312	29,486	30,659	1 x 3	1,125
RDS023^L3	31,013	32,227	33,400	34,573	1 x 3	1,150
RDS026^L4	37,518	39,137	40,701	42,265	1 x 4	1,500
RDS030^L4	42,553	44,171	45,736	47,300	1 x 4	1,525
RDS032^L5	45,694	47,717	49,672	51,627	1 x 5	1,875
RDS040^L5	56,283	58,306	60,261	62,216	1 x 5	1,900
RDS048^L6	67,909	70,337	72,683	75,029	1 x 6	2,275
RDS056^L7	79,466	82,298	85,035	87,772	1 x 7	2,650

550 RPM 1/3 HP MOTORS (Code E)†

SINGLE FAN WIDTH

Model Number	8 FPI	10 FPI	12 FPI	14 FPI	Fans	Approx. Net Weight (LBS.)
RDS004^E1	\$7,230	\$7,634	\$8,025	\$8,416	1 x 1	350
RDS005^E1	8,511	8,915	9,306	9,697	1 x 1	375
RDS006^E1	9,588	9,993	10,384	10,775	1 x 1	400
RDS008^E2	14,251	15,060	15,842	16,624	1 x 2	725
RDS011^E2	18,782	19,591	20,373	21,155	1 x 2	750
RDS012^E2	20,771	21,580	22,363	23,145	1 x 2	775
RDS016^E3	28,746	29,960	31,133	32,306	1 x 3	1,125
RDS018^E3	31,503	32,717	33,890	35,063	1 x 3	1,150
RDS021^E4	39,403	41,021	42,585	44,150	1 x 4	1,500
RDS025^E4	44,180	45,798	47,362	48,926	1 x 4	1,525
RDS028^E5	50,060	52,083	54,038	55,993	1 x 5	1,875
RDS032^E5	55,484	57,507	59,462	61,418	1 x 5	1,900
RDS040^E6	70,597	73,024	75,370	77,717	1 x 6	2,275
RDS046^E7	82,534	85,366	88,103	90,840	1 x 7	2,650

DOUBLE FAN WIDTH

Model Number	8 FPI	10 FPI	12 FPI	14 FPI	Fans	Approx. Net Weight (LBS.)
RDD017^L2	\$26,197	\$27,815	\$29,379	\$30,944	2 x 2	1,500
RDD026^L2	37,504	39,122	40,686	42,250	2 x 2	1,525
RDD030^L2	42,570	44,188	45,752	47,316	2 x 2	1,550
RDD038^L3	56,709	59,136	61,482	63,828	2 x 3	2,275
RDD046^L3	66,169	68,597	70,943	73,289	2 x 3	2,300
RDD051^L4	76,150	79,387	82,515	85,643	2 x 4	3,025
RDD060^L4	86,730	89,967	93,095	96,223	2 x 4	3,050
RDD063^L5	92,437	96,482	100,393	104,303	2 x 5	3,775
RDD080^L5	114,073	118,118	122,029	125,939	2 x 5	3,800
RDD097^L6	137,004	141,859	146,551	151,244	2 x 6	4,550
RDD113^L7	160,574	166,238	171,713	177,187	2 x 7	5,300

DOUBLE FAN WIDTH

Model Number	8 FPI	10 FPI	12 FPI	14 FPI	Fans	Approx. Net Weight (LBS.)
RDD016^E2	\$30,547	\$32,166	\$33,730	\$35,294	2 x 2	1,500
RDD021^E2	39,403	41,021	42,585	44,150	2 x 2	1,525
RDD025^E2	43,787	45,405	46,969	48,533	2 x 2	1,550
RDD032^E3	60,464	62,891	65,238	67,584	2 x 3	2,275
RDD037^E3	66,219	68,647	70,993	73,339	2 x 3	2,300
RDD043^E4	80,898	84,134	87,263	90,391	2 x 4	3,025
RDD050^E4	90,126	93,362	96,491	99,619	2 x 4	3,050
RDD055^E5	103,201	107,246	111,157	115,067	2 x 5	3,775
RDD063^E5	113,301	117,347	121,257	125,168	2 x 5	3,800
RDD080^E6	143,667	148,522	153,214	157,907	2 x 6	4,550
RDD093^E7	167,057	172,721	178,195	183,670	2 x 7	5,300

^ Insert voltage code here.

575V motors are not available for units with 550RPM, 1/3 HP motors.

\$860 List Price adder (per fan) for Totally Enclosed Motor. 1.5 HP 1140 or 850 RPM, or 1.0 HP 850 RPM only. Not available for 550 RPM models.

† These models fulfill California Title 24 condenser efficiency requirements when utilizing Variable Frequency Drives and 10 FPI coils.

^ Insert voltage code here.

QUANTUM AIR™ LARGE CONDENSERS

VSEC 1200 RPM (Code K)						
SINGLE FAN WIDTH						
Model Number	8 FPI	10 FPI	12 FPI	14 FPI	Fans	Approx. Net Weight (LBS.)
RDS005^K1	\$12,281	\$12,685	\$13,076	\$13,467	1 x 1	350
RDS006^K1	14,130	14,534	14,926	15,317	1 x 1	375
RDS008^K1	15,136	15,540	15,931	16,322	1 x 1	400
RDS013^K2	25,180	25,989	26,771	27,553	1 x 2	725
RDS016^K2	30,509	31,318	32,100	32,882	1 x 2	750
RDS019^K2	34,114	34,923	35,705	36,487	1 x 2	775
RDS024^K3	45,031	46,245	47,418	48,591	1 x 3	1,125
RDS028^K3	49,712	50,926	52,099	53,272	1 x 3	1,150
RDS032^K4	61,859	63,477	65,041	66,605	1 x 4	1,500
RDS038^K4	67,082	68,700	70,264	71,828	1 x 4	1,525
RDS041^K5	77,229	79,252	81,207	83,162	1 x 5	1,875
RDS049^K5	85,349	87,372	89,327	91,282	1 x 5	1,900
RDS059^K6	102,229	104,657	107,003	109,349	1 x 6	2,275
RDS069^K7	119,845	122,677	125,414	128,151	1 x 7	2,650

VSEC 900 RPM (Code L)						
SINGLE FAN WIDTH						
Model Number	8 FPI	10 FPI	12 FPI	14 FPI	Fans	Approx. Net Weight (LBS.)
RDS004^G1	\$12,281	\$12,685	\$13,076	\$13,467	1 x 1	350
RDS005^G1	14,130	14,534	14,926	15,317	1 x 1	375
RDS007^G1	15,136	15,540	15,931	16,322	1 x 1	400
RDS010^G2	25,180	25,989	26,771	27,553	1 x 2	725
RDS014^G2	30,509	31,318	32,100	32,882	1 x 2	750
†RDS015^G2*	34,114	34,923	35,705	36,487	1 x 2	775
RDS021^G3	45,031	46,245	47,418	48,591	1 x 3	1,125
†RDS025^G3*	49,712	50,926	52,099	53,272	1 x 3	1,150
RDS028^G4	61,859	63,477	65,041	66,605	1 x 4	1,500
†RDS033^G4*	67,082	68,700	70,264	71,828	1 x 4	1,525
RDS035^G5	77,229	79,252	81,207	83,162	1 x 5	1,875
†RDS044^G5*	85,349	87,372	89,327	91,282	1 x 5	1,900
†RDS052^G6*	102,229	104,657	107,003	109,349	1 x 6	2,275
†RDS061^G7*	119,845	122,677	125,414	128,151	1 x 7	2,650

DOUBLE FAN WIDTH						
Model Number	8 FPI	10 FPI	12 FPI	14 FPI	Fans	Approx. Net Weight (LBS.)
RDD023^K2	\$51,285	\$52,903	\$54,467	\$56,032	2 x 2	1,500
RDD032^K2	60,951	62,569	64,133	65,697	2 x 2	1,525
RDD038^K2	67,352	68,970	70,534	72,098	2 x 2	1,550
RDD047^K3	91,263	93,690	96,036	98,382	2 x 3	2,275
RDD057^K3	101,155	103,582	105,929	108,275	2 x 3	2,300
RDD063^K4	122,008	125,245	128,373	131,501	2 x 4	3,025
RDD075^K4	134,025	137,262	140,390	143,518	2 x 4	3,050
RDD082^K5	154,461	158,507	162,417	166,328	2 x 5	3,775
RDD099^K5	170,874	174,919	178,830	182,740	2 x 5	3,800
RDD118^K6	204,442	209,296	213,989	218,681	2 x 6	4,550
RDD138^K7	240,096	245,760	251,234	256,709	2 x 7	5,300

DOUBLE FAN WIDTH						
Model Number	8 FPI	10 FPI	12 FPI	14 FPI	Fans	Approx. Net Weight (LBS.)
RDD020^G2	\$51,285	\$52,903	\$54,467	\$56,032	2 x 2	1,500
RDD028^G2	60,951	62,569	64,133	65,697	2 x 2	1,525
†RDD032^G2*	67,352	68,970	70,534	72,098	2 x 2	1,550
RDD042^G3	91,263	93,690	96,036	98,382	2 x 3	2,275
†RDD049^G3*	101,155	103,582	105,929	108,275	2 x 3	2,300
RDD056^G4	122,008	125,245	128,373	131,501	2 x 4	3,025
†RDD065^G4*	134,025	137,262	140,390	143,518	2 x 4	3,050
RDD070^G5	154,461	158,507	162,417	166,328	2 x 5	3,775
†RDD087^G5*	170,874	174,919	178,830	182,740	2 x 5	3,800
†RDD105^G6*	204,442	209,296	213,989	218,681	2 x 6	4,550
†RDD122^G7*	240,096	245,760	251,234	256,709	2 x 7	5,300

^ Insert voltage code here.

^ Insert voltage code here.

† These selected models fulfill California Title 24 condenser efficiency requirements when utilizing 10 FPI coils.

Large Air Cooled Condenser Options

Fan configuration

	1X1	1X2	1X3	1X4	1X5	1X6	1X7	2X2	2X3	2X4	2X5	2X6	2X7
Disconnect Options													
Through the door non-fused disconnect	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
Through the door fused disconnect	\$442	508	749	850	935	1,022	1,107	850	1,022	1,318	1,617	1,917	2,214
Main Power Circuit Breaker	\$908	908	1,123	1,123	1,123	1,123	1,123	1,123	1,123	1,204	1,204	1,204	1,204
Bladed Safety Switch, Non-fused	\$809	809	1,558	1,558	1,558	1,558	1,558	1,558	1,558	1,965	1,965	1,965	1,965
110 VAC - 20 Amp Convenience Outlet powered by separate building feed or transformer	\$326	326	326	326	326	326	326	326	326	326	326	326	326

Fan Cycling Options - Requires Contactor Option													
Ambient fan cycling†	—	\$902	1,230	1,638	2,046	2,456	2,866	901	1,230	1,638	2,046	2,456	2,866
Mechanical Pressure fan cycling (per circuit) W/O Header†	—	\$1,357	1,485	1,979	2,474	2,969	3,462	1,357	1,485	1,979	2,474	2,969	3,462
Mechanical Pressure fan cycling (per circuit) W/ Header†	—	\$1,729	2,225	2,723	3,221	3,718	4,225	1,729	2,225	2,723	3,221	3,718	4,225
Electronic Pressure fan cycling (per circuit) W/O Header†	—	\$1,408	1,764	2,930	4,097	5,262	6,180	1,408	1,764	2,930	4,097	5,262	6,180
Electronic Pressure fan cycling (per circuit) W/ Header†	—	\$1,999	3,164	4,330	5,497	6,405	7,526	1,999	3,164	4,330	5,497	6,405	7,526

Note: Header fan is continuous run and not cycled.

Electronic Header End Fan Speed Control - Req. Contactor & Fan Cycle on 1x2 and Larger													
Variable speed header end fan (1 or 2 Circuit) ambient controlled†	\$2,242	2,553	2,879	3,289	3,699	4,110	4,518	2,551	2,961	3,374	3,784	4,195	4,605
Variable speed header end fan (1 or 2 Circuit) Mechanical control - pressure†	\$2,673	2,871	3,176	3,669	4,166	4,661	5,153	2,871	3,176	3,669	4,166	4,661	5,153
Variable speed header end fan (1 or 2 Circuit) Electronic control - pressure†	\$2,831	3,136	3,455	4,621	5,788	6,685	7,808	3,136	3,455	4,621	5,788	6,685	7,808

Variable Frequency Drive (VFD)													
VFD Package - Shipped Loose†	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F
VFD Package - Factory Mounted†	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F

Control Boards - Items with this mark also ‡ require the contactor option													
CPC relay board + xfmr (1x1 thru 2x4 config) ‡	\$2,912	2,912	2,912	2,912	2,912	2,912	2,912	2,912	2,912	2,912	-	-	-
CPC relay boards (2)+ xfmr (2x5 thru 2x7 config) ‡	—	—	—	—	—	—	—	—	—	—	\$5,460	5,460	5,460
CPC relay board condenser split 50/50 (1 board + relay)	\$3,030	3,030	3,030	3,030	3,030	3,030	3,030	3,030	3,030	3,030	3,030	3,030	3,030
CPC analog speed control board and transformer	\$3,048	3,048	3,048	3,048	3,048	3,048	3,048	3,048	3,048	3,048	3,048	3,048	3,048
DANFOSS relay board + xfmr (1x1 thru 2x4 config) ‡	\$2,923	2,923	2,923	2,923	2,923	2,923	2,923	2,923	2,923	2,923	-	-	-
DANFOSS relay boards (2) + xfmr (2x5 thru 2x7 config) ‡	—	—	—	—	—	—	—	—	—	—	\$5,991	5,991	5,991
DANFOSS relay board condenser split 50/50 (relay) ‡	\$4,292	4,292	4,292	4,292	4,292	4,292	4,292	4,292	4,292	4,292	4,292	4,292	4,292
DANFOSS analog speed control board and transformer	\$3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375
VSEC Stand alone motor control (C450)	\$4,431	4,431	4,431	4,431	4,431	4,431	4,431	4,431	4,431	4,431	4,431	4,431	4,431

Consult Application Engineering For Other Relay Board Options

Control Options													
Control Circuit Breaker (2P - 15A)	\$291	291	291	291	291	291	291	291	291	291	291	291	291
Control circuit transformer†	\$551	551	551	551	551	551	551	551	551	551	551	551	551

Fan Control Options (Contactors)													
Individual Motor Contactors†	\$232	463	693	924	1,154	1,385	1,615	924	1,385	1,845	2,307	2,768	3,229
Paired Motor Contactors†	—	—	—	—	—	—	—	\$463	694	925	1,156	1,387	1,618
NEMA rated Contactors - Individual†	\$950	1,900	2,849	3,798	4,747	5,697	6,646	3,798	5,697	7,595	9,494	11,392	13,291
NEMA rated Contactors - PAIRED†	—	—	—	—	—	—	—	\$1,900	2,849	3,798	4,747	5,697	6,646
Individual motor fuses†	\$234	467	699	932	1,165	1,397	1,630	932	1,397	1,863	2,329	2,794	3,260
Paired motor fuses†	—	—	—	—	—	—	—	\$467	699	932	1,165	1,397	1,630
Individual circuit breakers††	\$648	930	1,384	1,854	2,308	2,778	3,208	1,854	2,778	3,687	4,614	5,540	6,196
Paired circuit breakers††	—	—	—	—	—	—	—	\$930	1,384	1,854	2,308	2,778	3,208
Individual motor terminal boards†	\$164	325	487	648	812	973	1,134	648	973	1,556	1,881	2,202	2,527
Paired motor terminal blocks†	—	—	—	—	—	—	—	\$325	487	648	812	973	1,134
Fan toggle switches - per fan (to control contactors)†	\$97	195	289	386	482	579	675	386	579	772	964	1,156	1,348
Fan toggle switches - PAIRED (to control contactors)†	—	—	—	—	—	—	—	\$195	289	386	482	579	675
Fan toggle switches - per fan (to control Motors)†	\$442	442	442	442	442	442	442	1,554	2,330	3,107	3,884	4,660	5,437
Fan toggle switches - PAIRED (to control Motors)†	—	—	—	—	—	—	—	\$777	1,165	1,554	1,942	2,330	2,719

Build Options**													
Horizontal Air Discharge	\$654	958	1,410	1,730	2,035	2,340	2,626	1,915	2,789	3,460	4,068	4,679	5,256
Aluminum Housing	\$260	520	780	1,039	1,299	1,559	1,818	1,039	1,559	2,078	2,598	3,117	3,636
Stainless Steel Housing	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A
Leg length - 21" or 30" - Standard Vertical air discharge	\$137	273	408	408	408	503	639	273	408	408	408	503	639
Leg length - 46" (Vertical air discharge only)	\$163	323	483	483	483	594	754	323	483	483	483	594	754
Box Style Leg at every location- 25" (Vertical air discharge only)	\$475	712	949	1,186	1,423	1,660	1,897	712	949	1,186	1,423	1,660	1,897
Sealtite wiring to motor rail	\$204	253	383	515	637	767	895	515	767	1,022	1,280	1,534	1,780
Sealtite wiring to electrical box	\$675	1,350	2,025	2,699	3,374	4,049	4,724	2,699	4,049	5,398	6,748	8,097	9,447
Condenser Base with 18" legs (Vertical air discharge only)	\$1,656	2,389	3,125	4,475	5,414	6,208	7,210	2,389	3,125	4,475	5,414	6,456	7,499
Condenser Base with 30 or 46" legs (Vertical air discharge only)	\$1,772	2,624	3,475	4,432	6,000	6,883	7,998	2,624	3,475	4,944	6,000	7,158	8,318
Condenser / Receiver Assembly (Vertical air discharge only)	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A
Header End control panel mounting (Specify location change)	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C

Flooded Head Pressure Controls (Shipped loose only)													
List Price per compressor system†	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A
Number of Controls per compressor system†	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A
Manifold included†	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A

* Multiple valves or manifolds are required for multi-circuit condensers.

** Contact Application Engineering to obtain price quotes for special fin materials or coatings.

N/C = No additional charge for this feature.

C/A = Contact Application engineering for custom price quote.

† This option is not available for condensers with VSEC motors.

†† Units with VSEC motors include individual circuit breaker. Paired circuit breakers are not available.



PRINCIPAL TERMS AND CONDITIONS OF SALE

Supersedes all earlier versions

1. **Applicable Law and Terms of Sale:** All orders shall be subject to the following terms and conditions notwithstanding any additional or contrary printed terms and conditions of Buyer. Such additional or contrary terms shall not bind Seller unless accepted in writing even though such terms do not materially alter the terms hereof. No oral statements, warranties, stipulations, representations or terms shall have any binding effect or be any part of the contract whatsoever.
2. **Orders:** All orders must be in writing and will be binding when our order acknowledgment is mailed. Orders are accepted subject to strikes, fires, accidents, and other causes beyond our reasonable control. Acceptance of your order is conditioned upon an agreement to hold us harmless by reason of delivery delays.
3. **Prices:** Prices are subject to change without notice, and all quotations, unless otherwise specified, are binding only for immediate acceptance. Prices are based on material made to Seller's standard tolerances, unless otherwise specified.
4. **Freight:** All products are shipped FOB Point of Shipment with full freight allowed on single orders with a net price value of \$10,000.00 or more, except surface coils and parts, within the continental USA (excluding Alaska and Hawaii). Shipments to destinations outside the continental USA, that meet freight allowance requirements, will incur charges for the additional transport beyond the USA border. Seller reserves the choice of transportation mode (DRY VAN, FLATBED, LTL, AND PARCEL), carrier, and shipping point. For special routing requests, Buyer will bear all additional costs for such routing. The responsibility of the Seller shall cease upon delivery of the product in good condition to a common carrier (TL, LTL, FLATBED, etc.). Since all goods are shipped at Buyer's risk, they should carefully examine before signing delivery receipt. If common carrier tenders delivery of goods in damaged condition or if packages delivered do not correspond with the number called for on the freight bill, Buyer should insist on common carrier's agent (DRIVER) making notation of the condition of shortages of damage on delivery receipt. The Buyer should never refuse freight from the common carrier. Filing freight claims are under the responsibility of the Buyer, and this will enable them to secure prompt payment of claim for damaged or lost material. Refer to HTPG's freight policy for further information.
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9. **Cancellations and Returned Goods:** Permission to return any part or product must be obtained from Seller and may be subject to a restocking charge. Credits for new material accepted for return will be at the original sales price or current market price, whichever is lower, less handling and restocking charges. Buyer must prepay all transportation charges. Any costs for putting material in condition for resale will be charged to the Buyer. Shipment of material returned without authorization or not properly tagged with a Return Material Authorization Number or not freight prepaid cannot be received by Seller. Obsolete products or material made to special order are not returnable.
10. **Catalog Materials and Drawings:** Seller is not responsible for typographical errors or other errors of omission in Seller's catalogs or drawings.
11. **Late Charge Provision:** Buyer agrees to pay a late charge of 1-1/2% per month (18% per year) for any invoice or bill not paid within (30) thirty days of the date of the billing invoice.
12. **Choices of law, Disputes:** This agreement and the performance of the parties hereunder shall be construed in accordance with and governed by the laws of the State of Georgia and shall be deemed made in the state. Buyer irrevocably consents to the exclusive jurisdiction of the courts of Fulton County, on all matters arising out of or relating to this sale and Buyer further irrevocably consents to service of process by certified mail, return receipt requested, at Buyer's address set forth in the order acknowledgement.

The above terms and conditions apply to all orders placed with the Seller. Buyer acknowledges having read and understood these terms and conditions and agrees to abide by them upon placement of any order with the Seller. In the event it becomes necessary to refer the account to a collection agency or to institute legal action to obtain payment of the account, Buyer agrees to pay all reasonable attorney fees and court costs incurred by such action.



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