

# Copeland™ C-Line

Copelametic™ air-cooled condensing units



## Product Information

Horsepower: 1 – 10  
Temperature Applications: Low/Medium/High  
Refrigerants: R-12, R-134a, R-404A,  
R-22, R-407C  
Installation Applications: A variety of applications  
including walk-ins





## Copelametic™ air-cooled condensing units

Features	Benefits
Copeland™ Semi-hermetic Compressor Copeland Discus™ Compressor with Unique 'Discus' Valve Design	Reliability High Energy Efficiency
Modular Components	Replacement Serviceability
Positive Displacement Oil Pump	Application Flexibility
Low Profile	More Cooler Space, Fewer Stockouts, Application Flexibility
Low Re-expansion Volumes	Decrease Energy Costs, Greater Capacity
Lower Operating Speeds	Reduces Operating Component Stress Low Sound Lower Maintenance Costs

### Resources and Support

#### EmersonClimate.com

- Online Product Information and Technical Data
  - Application Engineering Bulletins
  - Instruction Sheets
  - Marketing Brochures
- Where to Buy

### Application Engineering Bulletins

- 4-1094 Identification of Port Locations in Heads of Copelametic™ Compressors
- 4-1135 Cooling Requirement for Copelametic Compressors
- 4-1166 Copeland™ Oil Pumps
- 4-1283 Discus™ R-22 Envelope Extended
- 4-1287 Copeland Discus™ Demand Cooling
- 4-1336 Discus™ Optimized Medium Temperature Models Bulletin
- 8-1275 Sentronic and Sentronic+ Electronic Oil Pressure Control
- 8-1376 Electronic Unit Controller
- 11-1147 Suction Accumulators
- 11-1297 Liquid Line Filter-Driers
- 17-1234 Low Ambient Compressor Operation
- 17-1260 Compressor Overheating
- 17-1268 Compression Ratio as it Affects Compressor Reliability
- 22-1182 Liquid Refrigerant Control in Refrigeration and Air Conditioning Systems

For more information, visit [EmersonClimate.com](http://EmersonClimate.com) and login to the Customer Portal to view Online Product Information

# R-12 Med/High Temp

# Copeland air-cooled condensing units

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45	50	55
90° Ambient														
CBAM-0103	KAK1-0100		5150	5780	6450	7170	7940	8750						
CBAM-0153	KAT*-0150	6540	7430	8420	9430	10500	11700	13000						
C7AB-0200	EAV*-0200		8380	9730	11100	12400	13800	15200	16600	18100	19700	21300	23000	24900
C7AB-0300	LAH1-0310		14700	16500	18400	20500	22700	25000	27500	30200	32900	35800		
CFDP-0300	2DF3F16KE	16900	19200	21800	24400	27200	30100	33200	36500	39900	43500	47300		
100° Ambient														
CBAM-0103	KAK1-0100		4700	5280	5890	6560	7260	8020						
CBAM-0153	KAT*-0150	5950	6770	7700	8650	9670								
C7AB-0200	EAV*-0200		7860	9110	10300	11600	12800	14100	15500	16800	18300	19800	21400	
C7AB-0300	LAH1-0310		13600	15300	17000	18900	21000	23200	25500	27900	30400	33100		
CFDP-0300	2DF3F16KE	15800	17900	20300	22800	25300	28100	31000	34000	37200	40600	44100		
110° Ambient														
CBAM-0103	KAK1-0100		4250	4780	5340	5940	6590	7280						
CBAM-0153	KAT*-0150	5350	6110											
C7AB-0200	EAV*-0200		7370	8510	9620	10700	11900	13000	14200	15500				
C7AB-0300	LAH1-0310		12500	14000	15600	17300	19200	21200	23300	25500	27800	30300		
CFDP-0300	2DF3F16KE	14600	16600	18900	21200	23600	26100	28800						

Capacities rated at 65°F return gas, 5°F subcooling

# R-134a

# Copeland air-cooled condensing units

Unit Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45
90° Ambient																
CTAH-0100	KAJA-011E						4620	5210	5840	6510	7230	7990	8790	9630	10500	11400
CTAH-0150	KAL*-01*E						6220	7050	7930	8870	9880	10940	12050	13210	14410	15650
CNAG-0200	EAV*-021E						8120	9380	10700	12000	13500	15000	16600	18300	20100	22000
CTAM-0300	LAHA-031E					11300	13300	15400	17700	20000	22500	25200				
CFDP-0300	2DF3F16KE					16600	18900	21600	24300	27200	30300	33600	37000	40700	44700	48800
CFDP-0400	2DA3F23KE					20900	23900	27200	30700	34500	38500	42700	47100	51900	56800	62100
CFDP-0500	3DA3F28KE						29700	33900	38400	43200	48200	53500	59200	65200	71500	78100
CFDP-0550	3DB3F33KE						34100	38900	44000	49300	55000	61000	67300	74000	81000	88300
CFDP-0600	3DF3F40KE	12600	18600	24500	30400	36400	42500	48800	55400	62300	69600	77400	85700	94600	104100	114300
CFDP-0700	3DS3F46KE	14800	21100	27300	33500	39800	46400	53200	60300	67800	75800	84300	93400	103100	113500	124600
100° Ambient																
CTAH-0100	KAJA-011E						4230	4780	5350	5970	6630	7330	8070	8840	9650	10500
CTAH-0150	KAL*-01*E						5690	6460	7280	8170	9100	10090	11130	12210	13340	14500
CNAG-0200	EAV*-021E						7350	8530	9730	11000	12300	13800	15300	16800	18500	20300
CTAM-0300	LAHA-031E					10200	12100	14000	16100	18300	20600	23100				
CFDP-0300	2DF3F16KE					15200	17400	19900	22500	25200	28100	31100	34400	37900	41600	45500
CFDP-0400	2DA3F23KE					19200	22000	25100	28400	31900	35600	39500	43700	48200	52800	57800
CFDP-0500	3DA3F28KE						27400	31400	35600	40100	44900	49900	55200	60800	66700	72900
CFDP-0550	3DB3F33KE						31300	35900	40800	45800	51200	56800	62700	68900	75500	82300
CFDP-0600	3DF3F40KE	10100	16000	21800	27500	33200	39100	45000	51200	57800	64700	72000	79800	88100	97100	106700
CFDP-0700	3DS3F46KE	12200	18400	24400	30400	36500	42700	49200	55900	63000	70500	78500	87000	96100	105900	116400
110° Ambient																
CTAH-0100	KAJA-011E						3840	4340	4860	5420	6030	6660	7340	8050	8790	9550
CTAH-0150	KAL*-01*E						5130	5850	6610	7430	8300	9220	10180	11190	12250	
CNAG-0200	EAV*-021E						6590	7680	8790	9970	11200	12500	13900			
CTAM-0300	LAHA-031E					9070	10800	12600	14600	16600	18700	21000				
CFDP-0300	2DF3F16KE					13800	15900	18100	20500	23100	25800	28700				
CFDP-0400	2DA3F23KE					17400	20100	23000	26000	29300	32800	36500	40400			
CFDP-0500	3DA3F28KE						24900	28800	32800	37100	41600	46300	51300	56500	62100	
CFDP-0550	3DB3F33KE						28400	32900	37500	42300	47300	52600	58100			
CFDP-0600	3DF3F40KE	7420	13300	19000	24600	30100	35700	41400	47300	53400	59900	66800	74200	82000	90500	99600
CFDP-0700	3DS3F46KE	9550	15600	21500	27400	33200	39200	45300	51600	58300	65300	72900	80900	89500	98700	108600

Capacities rated at 65°F return gas, 5°F subcooling

## Copelametic™ air-cooled condensing units

### Capacity Data

### R-22 Low Temp

### Copeland air-cooled condensing units

Unit Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
90° Ambient										
CNAG-0100	KAJ*-01*E	2210	2660	3140	3670	4250	4870	5540	6280	7060
CLAL-0152	EADB-0200	3110	3890	4730	5640	6630	7690	8840	10100	11400
C8AL-0151	EADA-020E	3410	4180	5020	5930	6910	7960	9100	10300	11600
C8AL-0200	EAVA-021E	4120	4730	5580	6630	7850	9180	10600	12100	13500
CNAG-0200	EAV*-021E	4110	4720	5570	6620	7820	9140	10600	12000	13400
CLAL-0300	LAH*-031*	5590	6960	8570	10400	12400	14600	16900	19400	21900
100° Ambient										
CNAG-0100	KAJ*-01*E	1970	2400	2860	3360	3890	4470	5090	5780	6490
CLAL-0152	EADB-0200	2670	3390	4170	5010	5920	6910	7980	9140	10400
C8AL-0151	EADA-020E	3000	3710	4480	5320	6220	7190	8250	9380	10600
CNAG-0200	EAVA-021E	3720	4260	5030	5980	7080	8280	9560	10900	12200
C8AL-0200	EAVB-021E	3730	4270	5040	6000	7110	8320	9610	11000	12300
CLAL-0300	LAH*-031*	5060	6330	7820	9500	11400	13400	15500	17800	20100
110° Ambient										
CNAG-0100	KAJ*-01*E	1720	2130	2560	3030	3520	4050	4630		
CLAL-0152	EADB-0200	2220	2890	3610	4390	5250	6180	7190	8290	
C8AL-0151	EADA-020E	2590	3240	3940	4710	5540	6440	7420	8480	
CNAG-0200	EAVA-021E	3200	3670	4350	5200	6190	7270	8420		
C8AL-0200	EAVB-021E	3200	3680	4370	5230	6220	7310	8470		
CLAL-0300	LAH*-031*	4330	5520	6900	8450	10200	12000	14000	16100	18200

Capacities rated at 65°F return gas, 5°F subcooling

### R-22 Med Temp/High Temp

### Copeland air-cooled condensing units

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45
90° Ambient												
C8AJ-0100	KAR*-01*E		5070	5730	6440	7220	8040	8910	9830	10800	11800	12800
C3AH-0100	KAR*-0100		5090	5760	6480	7260	8100	8980	9910	10900	11900	12900
C3AM-0100	KAM1-0100		5450	6240	7060	7930	8840	9810				
C3AM-0101	KAM*-0100		5710	6540	7410	8330	9300	10300				
C3AH-0150	KAG*-0150		6130	7040	7990	8990	10100	11200	12400	13600	14900	16300
C3AH-0203	ERA*-0200		5460	6940	8490	10100	11800	13600	15400	17200	19100	21000
C3AH-0204	KAKA-0200		7860	9280	10700	12100	13500	15000	16500	18100	19800	21600
C8AJ-0200	KAK*-02*E		7860	9280	10700	12100	13500	15000	16500	18100	19800	21600
C3AM-0203	KAKA-0200	6450	7890	9320	10730	12140	13590	15070				
C3AM-0202	ERC2-0200	7980	9100	10300	11700	13200	14800	16500				
C8AM-0202	ERCA-02*E	8010	9150	10400	11800	13300	15000	16700				
C3AH-0303	ERF*-03*0		14750	16780	18950	21300	23800	26470	29300	32290	35440	38730
C8AJ-0300	ERFA-031E		14750	16780	18950	21300	23800	26470	29300	32290	35440	38730
CFDP-0451	2DC3R53KE	19400	22600	26000	29600	33400	37400	41700	46200	50900	55900	61100
CFDP-0501	2DD3R63KE	22700	26300	30100	34100	38300	42800	47400	52300	57500	62900	68500
CFDP-0751	2DA3R89KE	32800	38300	44000	49800	55900	62200	68700	75400	82400	89600	97100
CFDP-1001	3DB3R12ME	55200	62000	69400	77200	85600	94500	104000	114100	124800	136000	147900

Capacities rated at 65°F return gas, 5°F subcooling

# Copelametic™ air-cooled condensing units

## Capacity Data

### R-22 Med Temp/High Temp

### Copeland air-cooled condensing units

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45
100° Ambient												
C8AJ-0100	KAR*-01*E		4610	5230	5900	6620	7400	8210	9070	9960	10900	11800
C3AH-0100	KAR*-0100		4630	5260	5940	6670	7450	8280	9150	10100	11000	12000
C3AM-0100	KAM1-0100		4960	5690	6450	7260	8120	9040				
C3AM-0101	KAM*-0100		5210	5970	6780	7630	8540	9510				
C3AH-0150	KAG*-0150		5640	6490	7380	8310	9310	10400	11500	12700	13900	15200
C3AH-0203	ERA*-0200		4590	5920	7300	8770	10300	11900	13500	15200	16900	18700
C3AH-0204	KAKA-0200		7160	8540	9900	11200	12600	14000	15400	16900	18500	20200
C8AJ-0200	KAK*-02*E		7160	8540	9900	11200	12600	14000	15400	16900	18500	20200
C3AM-0203	KAKA-0200	5760	7180	8580	9940	11300	12660	14070				
C3AM-0202	ERC2-0200	7250	8260	9400	10600	12000	13500	15100				
C8AM-0202	ERCA-02*E	7290	8350	9550	10800	12200	13700	15300				
C3AH-0303	ERF*-03*0		13470	15340	17350	19520	21830	24300	26910	29680	32600	35640
C8AJ-0300	ERFA-031E		13470	15340	17350	19520	21830	24300	26910	29680	32600	35640
CFDP-0451	2DC3R53KE	17200	20300	23600	27000	30600	34400	38500	42700	47200	51900	56900
CFDP-0501	2DD3R63KE	20400	23800	27500	31300	35300	39500	43900	48600	53400	58500	63800
CFDP-0751	2DA3R89KE	29100	34500	40100	45800	51700	57700	63900	70200	76800	83600	90500
CFDP-1001	3DB3R12ME	51400	57900	64900	72300	80200	88700	97600	107100	117200	127800	139000
110° Ambient												
C8AJ-0100	KAR*-01*E		4150	4740	5370	6050	6780	7540				
C3AH-0100	KAR*-0100		4180	4770	5410	6090	6830	7610	8420			
C3AM-0100	KAM1-0100		4500	5190	5900	6660	7480	8350				
C3AM-0101	KAM*-0100		4730	5430	6180	6980	7830	8750				
C3AH-0150	KAG*-0150		5170	5960	6780	7650	8580	9560	10600			
C3AH-0203	ERA*-0200		3680	4840	6060	7360	8720	10100	11600	13100		
C3AH-0204	KAKA-0200		6440	7800	9100	10400	11700	13000	14300			
C8AJ-0200	KAK*-02*E		6440	7800	9100	10400	11700	13000	14300			
C3AM-0203	KAKA-0200	5060	6470	7830	9140	10440	11730	13040				
C3AM-0202	ERC2-0200	6510	7420	8460	9580	10800	12200	13800				
C8AM-0202	ERCA-02*E	6560	7560	8670	9870	11200	12500	14000				
C3AH-0303	ERF*-03*0		12190	13910	15740	17720	19840	22090	24490	27020	29700	32500
C8AJ-0300	ERFA-031E		12190	13910	15740	17720	19840	22090	24490	27020	29700	32500
CFDP-0451	2DC3R53KE	18000	21200	24500	27900	31600	35400	39400	43600			
CFDP-0501	2DD3R63KE		25000	28600	32400	36400	40500	44900				
CFDP-0751	2DA3R89KE		36100	41600	47300	53000	58900	64900				
CFDP-1001	3DB3R12ME		53700	60300	67300	74800	82700	91200	100100	109500	119500	130100

Capacities rated at 65°F return gas, 5°F subcooling

## R-404A Ultra Low Temp

## Copeland air-cooled condensing units

Unit Model	Compressor	-60	-55	-50	-45	-40	-35	-30	-25	-20
90° Ambient										
CJAU-0503	9TK2-050E	7410	9020	10800	12600	14600	16500	18500	20400	
100° Ambient										
CJAU-0503	9TK2-050E	7040	8590	10200	12000	13800	15600	17300	19000	
110° Ambient										
CJAU-0503	9TK2-050E	6630	8090	9630	11200	12800	14400	16000	17400	

Capacities rated at 65°F return gas, 5°F subcooling

## R-404A Low Temp

## Copeland air-cooled condensing units

Unit Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
90° Ambient										
CJAL-0100	KAJ*-01*E	2430	2900	3410	3960	4550	5190	5870	6590	7310
CNAG-0100	KAJ*-01*E	2430	2900	3410	3960	4550	5190	5870	6590	7310
CJAL-0150	KAL*-01*E	3580	4270	5000	5790	6620	7510	8450	9450	10400
CJAL-0152	KALA-016E	3470	4300	5120	5940	6790	7670	8600	9590	10600
CPAK-0150	KAL*-01*E	3690	4390	5140	5960	6830	7760	8750	9810	10900
CJAL-0151	EADB-021E	3830	4540	5330	6220	7190	8230	9370	10600	11800
C8AL-0151	EADA-020E	3850	4690	5570	6500	7490	8560	9720	11000	12300
C8AL-0200	EAVA-021E	4180	5020	6010	7120	8340	9630	11000	12400	13800
CJAL-0200	EAV*-021E	4180	5020	6010	7120	8340	9630	11000	12410	13750
CNAG-0200	EAV*-021E	4180	5020	6010	7120	8340	9630	11000	12410	13750
CJAL-0300	LAH*-032E	6790	8510	10420	12530	14820	17270	19880	22630	25370
CFDP-0300	2DF3F16KE	10800	12800	14900	17300	19800	22500	25300	28300	31200
CFDP-0350	2DL3F20KE	12800	15100	17600	20200	23100	26100	29200	32600	35900
CFDP-0400	2DA3F23KE	15000	17700	20500	23400	26600	29900	33400	37100	40800
CFDP-0500	3DA3F28KE	19000	22000	25300	29000	32900	37100	41600	46300	51200
CFDP-0550	3DB3F33KE	22200	25700	29500	33500	37800	42300	47100	52100	57300
CFDP-0600	3DF3F40KE	27800	32400	37400	42900	48800	55200	62100	69500	77200
CFDP-0700	3DS3F46KE	32100	37100	42600	48400	54600	61300	68300	75700	83500

Capacities rated at 65°F return gas, 5°F subcooling



# R-404A Low Temp

# Copeland air-cooled condensing units

Unit Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
100° Ambient										
CJAL-0100	KAJ*-01*E	2070	2490	2950	3450	3990	4570	5190	5850	6510
CNAG-0100	KAJ*-01*E	2070	2490	2950	3450	3990	4570	5190	5850	6510
CJAL-0150	KAL*-01*E	3050	3700	4400	5130	5910	6730	7600	8510	9390
CJAL-0152	KALA-016E	2820	3640	4430	5220	6020	6830	7680	8570	9470
CPAK-0150	KAL*-01*E	3150	3820	4540	5300	6120	6970	7890	8850	9810
CJAL-0151	EADB-021E	3250	3860	4560	5350	6230	7180	8230	9350	10500
C8AL-0151	EADA-020E	3190	4010	4840	5700	6620	7600	8660	9800	11000
C8AL-0200	EAVA-021E	3620	4370	5250	6260	7360	8540	9780	11100	12300
CJAL-0200	EAV*-021E	3620	4370	5250	6260	7360	8540	9780	11070	12290
CNAG-0200	EAV*-021E	3620	4370	5250	6260	7360	8540	9780	11070	12290
CJAL-0300	LAH*-032E	5550	7090	8830	10760	12870	15140	17570	20140	22710
CFDP-0300	2DF3F16KE	9160	11100	13200	15400	17800	20300	22900	25600	28200
CFDP-0350	2DL3F20KE	11200	13300	15700	18100	20800	23500	26400	29500	32600
CFDP-0400	2DA3F23KE	13200	15700	18400	21100	24100	27100	30300	33700	37200
CFDP-0500	3DA3F28KE	16900	19800	23000	26400	30100	34000	38100	42400	46800
CFDP-0550	3DB3F33KE	19800	23300	26900	30700	34700	38900	43300	47800	52500
CFDP-0600	3DF3F40KE	25100	29500	34200	39400	44900	50800	57200	64000	71100
CFDP-0700	3DS3F46KE	29300	34100	39200	44600	50400	56600	63000	69800	76800
110° Ambient										
CJAL-0100	KAJ*-01*E	1720	2090	2500	2950	3430	3940	4500	5100	
CNAG-0100	KAJ*-01*E	1720	2090	2500	2950	3430	3940	4500	5100	
CJAL-0150	KAL*-01*E	2440	3070	3730	4420	5140	5890	6680		
CJAL-0152	KALA-016E	2060	2890	3680	4440	5190	5950	6730	7540	8340
CPAK-0150	KAL*-01*E	2550	3200	3870	4590	5340	6130	6970	7850	8710
CJAL-0151	EADB-021E	2890	3390	3970	4650	5420	6280	7220		
C8AL-0151	EADA-020E	2530	3310	4090	4890	5720	6610	7570	8600	
C8AL-0200	EAVA-021E	3240	3870	4630	5510	6490	7540	8650		
CJAL-0200	EAV*-021E	3240	3870	4630	5510	6490	7540	8650		
CNAG-0200	EAV*-021E	3240	3870	4630	5510	6490	7540	8650		
CJAL-0300	LAH*-032E	4180	5550	7120	8870	10810	12900	15150	17550	19930
CFDP-0300	2DF3F16KE	7380	9330	11400	13500	15700	18000	20300		
CFDP-0350	2DL3F20KE	9570	11600	13800	16000	18500	21000	23600		
CFDP-0400	2DA3F23KE	11400	13800	16300	18900	21600	24400	27300		
CFDP-0500	3DA3F28KE	14400	17200	20300	23500	27000	30600	34400	38300	
CFDP-0550	3DB3F33KE	17200	20700	24200	27800	31600	35500			
CFDP-0600	3DF3F40KE	22300	26500	31000	35900	41000	46500	52400	58600	65000
CFDP-0700	3DS3F46KE	25900	30400	35300	40400	45800	51400	57400	63500	69900

Capacities rated at 65°F return gas, 5°F subcooling

## R-404A Med Temp/High Temp

## Copeland air-cooled condensing units

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45
90° Ambient												
C8AJ-0100	KAR*-01*E	4870	5420	6110	6800	7520	8230	8900				
CJAM-0100	KAR*-010E	4900	5460	6150	6860	7590	8300	8990				
CJAM-0150	KAG*-010E	5730	6440	7240	8030	8890	9820	10850				
C8AJ-0200	KAK*-02*E	8170	9240	10300	11300	12400	13700	15100				
C8AM-0202	ERCA-02*E	9350	10570	11890	13160	14490	15900	17420				
CJAM-0300	ERFA-031E	14450	16260	18370	20520	22810	25240	27800				
C8AJ-0300	ERFA-031E	14800	16600	18800	20900	23200	25700	28300				
CFDP-0451	2DC3R53KE	22200	24900	28100	31500	35000	38800	42700	46800	51000	55400	59800
CFDP-0501	2DD3R63KE	26300	29400	32800	36400	40300	44300	48400	52700	57000	61400	65800
CFDP-0751	2DA3R89KE	39600	43900	48500	53400	58500	63800	69300	75000	81000	87100	93400
CFDP-1001	3DB3R12ME	58100	64700	71900	79400	87300	95600	104300	113500	123000	133000	143400
100° Ambient												
C8AJ-0100	KAR*-01*E	4360	4850	5480	6120	6770	7430	8040				
CJAM-0100	KAR*-010E	4390	4880	5520	6170	6840	7500	8130				
CJAM-0150	KAG*-010E	5080	5730	6460	7180	7960	8810	9760				
C8AJ-0200	KAK*-02*E	7400	8390	9370	10300	11300	12400	13600				
C8AM-0202	ERCA-02*E	8270	9370	10590	11740	12950	14230	15630				
CJAM-0300	ERFA-031E	12930	14580	16510	18460	20550	22780	25130				
C8AJ-0300	ERFA-031E	13100	14900	16800	18800	21000	23200	25600				
CFDP-0451	2DC3R53KE	20000	22500	25400	28400	31700	35100	38600	42300	46200	50200	54200
CFDP-0501	2DD3R63KE	23900	26600	29700	32900	36300	39900	43600	47400	51300	55200	59200
CFDP-0751	2DA3R89KE	35900	39900	44200	48600	53200	58000	63000	68100	73500	79100	84800
CFDP-1001	3DB3R12ME	53400	59500	66000	72900	80000	87500	95300	103500	112100	121100	130400
110° Ambient												
C8AJ-0100	KAR*-01*E	3830	4250	4820	5400	6000	6590	7150				
CJAM-0100	KAR*-010E	3850	4280	4860	5450	6060	6660	7230				
CJAM-0150	KAG*-010E	4430	5010	5680	6330	7030	7800	8660				
C8AJ-0200	KAK*-02*E	6620	7510	8390	9190	10000	11000	12200				
C8AM-0202	ERCA-02*E	7190	8190	9290	10320	11410	12570	13850				
CJAM-0300	ERFA-031E	11410	12880	14620	16380	18270	20280	22410				
C8AJ-0300	ERFA-031E	11500	13100	14900	16700	18600	20700	22900				
CFDP-0451	2DC3R53KE	17900	20100	22800	25500	28400	31400	34600	38000	41500	45100	48800
CFDP-0501	2DD3R63KE	21500	23900	26600	29400	32400	35600	38800	42200			
CFDP-0751	2DA3R89KE	32200	35900	39800	43900	48000	52400	56800	61500			
CFDP-1001	3DB3R12ME	48600	54200	60200	66300	72700	79400	86400	93700	101400	109300	117700

Capacities rated at 65°F return gas, 5°F subcooling

## R-407C Med Temp/High Temp

## Copeland air-cooled condensing units

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45
90° Ambient												
CFDP-0451	2DC3R53KE	18400	20700	23500	26600	30100	34000	38300	43000	48200	53700	59600
CFDP-0501	2DD3R63KE	22600	25300	28400	31900	35800	40200	45000	50200	55900	62000	68500
CFDP-0751	2DA3R89KE	31000	35100	39800	44900	50600	56700	63400	70500	78200	86500	95200
CFDP-1001	3DB3R12ME	51000	57600	64800	72600	80900	89900	99300	109300	119900	130800	142300
100° Ambient												
CFDP-0451	2DC3R53KE		19000	21600	24500	27800	31500	35600	40100	45000	50300	56100
CFDP-0501	2DD3R63KE	21100	23400	26200	29500	33200	37300	41800	46900	52300	58200	
CFDP-0751	2DA3R89KE		32300	36700	41600	47000	52800	59200	66100	73500	81400	
CFDP-1001	3DB3R12ME	45900	52600	59800	67300	75400	83900	92800	102200	111900	122100	132600
110° Ambient												
CFDP-0451	2DC3R53KE			19900	22600	25700	29100	33000	37400			
CFDP-0501	2DD3R63KE			24400	27300	30800	34700	39000	43800			
CFDP-0751	2DA3R89KE			33800	38400	43600	49200	55300				
CFDP-1001	3DB3R12ME		46300	53500	61100	68900	77100	85600	94500	103600	113000	122700

Capacities rated at 65°F return gas, 5°F subcooling

## Physical and Electrical Data

## Copelametic™ air-cooled condensing units

Models	BOM	Compressor Electrical	Length	Width	Height	Liquid Connection	Suction Connection
C3AH-0076-CAV	001	KAN2-007E-CAV	33.28	20	19.08	3/8 S	5/8 S
C3AH-0076-TAC	001	KAN1-0075-TAC	33.28	20	19.1	3/8 S	5/8 S
C3AH-0150-TAC	001	KAGA-0150-TAC	33.38	20	19.06	3/8 S	7/8 S
C3AH-0204-TAD	001	KAKA-0200-TAD	33.38	20	19.06	1/2 S	7/8 S
C3AH-0303-TAD	020	ERF1-0310-TAD	38.38	30	29.09	1/2 S	1-1/8 S
C3AM-0076-CAV	001	KAE2-007E-CAV	33.28	20	19.08	3/8 S	5/8 S
C3AM-0076-TAC	001	KAEI-0075-TAC	33.28	20	19.08	3/8 S	5/8 S
C3AM-0101-TAC	001	KAM1-0100-TAC	33.38	20	19.06	3/8 S	5/8 S
C3AM-0202-CAB	001	ERC2-0200-CAB	33.38	20	19.06	1/2 S	7/8 S
C7AB-0076-TAC	001	KAMI-0075-TAC	33.28	20	19.08	3/8 S	5/8 S
C7AB-0200-TAD	001	EAV1-0200-TAD	33.38	20	19.06	1/2 S	7/8 S
C7AB-0300-CAB	001	LAH1-0310-CAB	38.38	30	29.09	1/2 S	1-1/8 S
C7AB-0300-TAC	001	LAH1-0310-TAC	38.38	30	29.09	1/2 S	1-1/8 S
C7AB-0300-TAD	001	LAH1-0310-TAD	38.38	30	29.09	1/2 S	1-1/8 S
C8AJ-0076-CAV	001	KANB-007E-CAV	33.3	20	19.1	3/8 S	5/8 S
C8AJ-0076-TAC	001	KANA-007E-TAC	33.28	20	19.1	3/8 S	5/8 S
C8AJ-0100-CAV	001	KARB-010E-CAV	33.38	20	19.06	3/8 S	5/8 S
C8AJ-0100-TAC	001	KARA-010E-TAC	33.38	20	19.06	3/8 S	5/8 S
C8AJ-0100-TAD	001	KARA-011E-TAD	33.38	20	19.06	3/8 S	5/8 S
C8AJ-0200-CAV	001	KAKB-021E-CAV	33.38	20	19.06	1/2 S	7/8 S
C8AJ-0200-TAC	001	KAKA-020E-TAC	33.38	20	19.06	3/8 S	7/8 S
C8AJ-0300-TAC	001	ERFA-031E-TAC	38.32	30	29.12	1/2 S	1-1/8 S
C8AJ-0300-TAD	001	ERFA-031E-TAD	38.32	30	29.12	1/2 S	1-1/8 S
C8AL-0076-TAC	001	KAMA-007E-TAC	33.28	20	19.08	3/8 S	5/8 S
C8AL-0151-TAC	001	EADA-020E-TAC	33.38	20	19.06	3/8 S	7/8 S
C8AL-0200-TAD	001	EAVA-021E-TAD	33.38	20	19.06	1/2 S	7/8 S
C8AM-0202-TAC	001	ERCA-021E-TAC	33.29	20	19.08	1/2 S	7/8 S
C8AM-0202-TAD	001	ERCA-020E-TAD	33.38	20	19.06	1/2 S	7/8 S
CBAM-0103-TAC	001	KAK1-0100-TAC	33.38	20	19.06	3/8 S	5/8 S
CBAM-0153-TAC	001	KATA-0150-TAC	33.38	20	19.06	3/8 S	7/8 S
CFAP-0151-CAV	072	KALB-015E-CAV	33.58	20	19.08	3/8 S	7/8 S
CFAP-0200-CAV	001	EAVB-021E-CAV	33.38	20	19.08	1/2 S	7/8 S
CFDP-0300-CFB	001	2DF3F16KE-CFB	38.38	30	29.09	1/2 S	1-3/8 S
CFDP-0300-TFC	001	2DF3F16KE-TFC	38.4	30	29.1	1/2 S	1-3/8 S
CFDP-0300-TFD	001	2DF3F16KE-TFD	38.4	30	29.1	1/2 S	1-3/8 S
CFDP-0300-TFE	001	2DF3F16KE-TFE	38.4	30	29.1	1/2 S	1-3/8 S
CFDP-0350-TFC	001	2DL3F20KE-TFC	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0350-TFD	001	2DL3F20KE-TFD	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0350-TFE	001	2DL3F20KE-TFE	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0400-TFC	001	2DA3F23KE-TFC	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0400-TFD	001	2DA3F23KE-TFD	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0400-TFE	001	2DA3F23KE-TFE	38.38	30	29.09	5/8 S	1-3/8 S

## Physical and Electrical Data

## Copelametic™ air-cooled condensing units

Model	Receiver Capacity* (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight
	R-12	R-134a	R-22	R-404A	R-407C			
C3AH-0076-CAV			24.6			10.5	15	208
C3AH-0076-TAC			24.6			7.3	15	208
C3AH-0150-TAC			24.6			9.8	15	219
C3AH-0204-TAD			24.6			5.4	15	300
C3AH-0303-TAD			63			10.4	15	415
C3AM-0076-CAV			24.6			6	15	208
C3AM-0076-TAC			24.6			7.2	15	208
C3AM-0101-TAC			24.6			8.5	15	213
C3AM-0202-CAB			24.6			15.4	20	270
C7AB-0076-TAC	27.2					6.3	15	208
C7AB-0200-TAD	27.2					6.2	15	280
C7AB-0300-CAB	69.8					23.3	30	460
C7AB-0300-TAC	69.8					17.8	20	429
C7AB-0300-TAD	69.8					9.4	15	460
C8AJ-0076-CAV			24.6	21.2		10.5	15	208
C8AJ-0076-TAC			24.6	21.2		7.3	15	208
C8AJ-0100-CAV			24.6	21.2		12.2	15	209
C8AJ-0100-TAC			24.6	21.2		8.3	15	202
C8AJ-0100-TAD			24.6	21.2		4.1	15	209
C8AJ-0200-CAV			24.6	21.2		16.2	20	209
C8AJ-0200-TAC			24.6	21.2		11.4	15	212
C8AJ-0300-TAC			63	54.8		19.9	25	388
C8AJ-0300-TAD			63	54.8		9.7	15	440
C8AL-0076-TAC			24.6	21.2		6.9	15	208
C8AL-0151-TAC			24.6	21.2		10.3	15	282
C8AL-0200-TAD			24.6	21.2		6.1	15	207
C8AM-0202-TAC			24.6	21.2		13.9	15	282
C8AM-0202-TAD			24.6	21.2		6.0	15	297
CBAM-0103-TAC	27.2					7.0	15	186
CBAM-0153-TAC	27.2					9.2	15	192
CFAP-0151-CAV	27.2	25	24.6	21.2	23.4	15.3	20	280
CFAP-0200-CAV	27.2	25	24.6	21.2	23.4	20.2	30	307
CFDP-0300-CFB	69.8	64	63	54.8	60	36.7	50	527
CFDP-0300-TFC	69.8	64	63	54.8	60	25.4	35	522
CFDP-0300-TFD	69.8	64	63	54.8	60	12.5	15	513
CFDP-0300-TFE	69.8	64	63	54.8	60	10.3	15	511
CFDP-0350-TFC	69.8	64	63	54.8	60	37.3	50	310
CFDP-0350-TFD	69.8	64	63	54.8	60	15.2	20	534
CFDP-0350-TFE	69.8	64	63	54.8	60	11.5	15	534
CFDP-0400-TFC	69.8	64	63	54.8	60	40.4	60	550
CFDP-0400-TFD	69.8	64	63	54.8	60	15.2	20	528
CFDP-0400-TFE	69.8	64	63	54.8	60	13.3	20	533

## Physical and Electrical Data

## Copelametic™ air-cooled condensing units

Models	BOM	Compressor Electrical	Length	Width	Height	Liquid Connection	Suction Connection
CFDP-0451-TFC	001	2DC3R53KE-TFC	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0451-TFD	001	2DA3F23KE-TFD	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0500-TFC	001	3DA3F28KE-TFC	44.88	36	30.73	5/8 S	1-3/8 S
CFDP-0500-TFD	001	3DA3F28KE-TFD	44.88	36	30.73	5/8 S	1-3/8 S
CFDP-0501-TFC	001	2DD3R63KE-TFC	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0501-TFD	001	2DD3R63KE-TFD	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0550-TFC	001	3DB3F33KE-TFC	44.88	36	30.73	5/8 S	1-3/8 S
CFDP-0550-TFD	001	3DB3F33KE-TFD	44.88	36	30.73	5/8 S	1-3/8 S
CFDP-0550-TFE	001	3DB3F33KE-TFE	44.88	36	30.73	5/8 S	1-3/8 S
CFDP-0600-TFC	001	3DF3F40KE-TFC	66.9	39.13	36.26	7/8 S	1-3/8 S
CFDP-0600-TFD	001	3DF3F40KE-TFD	66	39.11	36.26	7/8 S	1-3/8 S
CFDP-0700-TFC	001	3DS3F46KE-TFC	66.9	39.13	36.26	7/8 S	1-3/8 S
CFDP-0700-TFD	001	3DS3F46KE-TFD	66	39.11	36.26	7/8 S	1-3/8 S
CFDP-0751-TFC	001	2DA3R89KE-TFC	44.88	36	31	5/8 S	1-3/8 S
CFDP-1001-TFC	001	3DB3R12ME-TFC	66.9	39.13	36.26	7/8 S	1-3/8 S
CJAL-0100-TAD	001	KAJA-011E-TAD	33.38	20	19.06	3/8 S	5/8 S
CJAL-0150-CAV	072	KALB-015E-CAV	33.58	20	19.06	3/8 S	7/8 S
CJAL-0151-CAB	072	EADB-021E-CAB	33.58	19.05	20	3/8 S	7/8 S
CJAL-0152-TAD	001	KALA-016E-TAD	33.38	20	19.06	3/8 S	7/8 S
CJAL-0200-TAE	001	EAVA-021E-TAE	33.38	20	19.06	1/2 S	7/8 S
CJAL-0300-CAB	001	LAHB-032E-CAB	38.38	30	29.09	1/2 S	1-1/8 S
CJAL-0300-TAC	001	LAHA-032E-TAC	38.31	30	29.12	1/2 S	1-1/8 S
CJAL-0300-TAD	001	LAHA-032E-TAD	38.31	30	29.12	1/2 S	1-1/8 S
CJAL-0300-TAE	001	LAHA-032E-TAE	38.32	30	29.12	1/2 S	1-1/8 S
CJAM-0076-CAV	001	KANB-007E-CAV	33.28	20	19.08	3/8 S	5/8 S
CJAU-0503-TFC	001	9TK2-050E-TFC	46.22	37.57	31.04	5/8 S	7/8 S
CLAL-0152-CAB	001	EADB-0200-CAB	33.38	20	19.06	1/2 S	7/8 S
CLAL-0300-TAC	001	LAHA-0310-TAC	38.38	30	29.09	1/2 S	1-1/8 S
CLAL-0300-TAD	001	LAHA-0310-TAD	38.38	30	29.09	1/2 S	1-1/8 S
CNAG-0076-CAV	001	KAMB-007E-CAV	33.3	20	19.1	3/8 S	5/8 S
CNAG-0100-CAV	001	KAJB-010E-CAV	33.38	20	19.06	3/8 S	5/8 S
CNAG-0100-TAC	001	KAJA-011E-TAC	33.38	20	19.06	3/8 S	5/8 S
CNAG-0200-TAC	001	EAVA-021E-TAC	33.38	20	19.06	1/2 S	7/8 S
CPAK-0150-CAV	001	KALB-015E-CAV	33.38	20	19.06	1/2 S	7/8 S
CTAH-0150-TAC	020	KALA-016E-TAC	33.38	20	19.06	3/8 S	7/8 S
CTAM-0300-TAC	001	LAHA-031E-TAC	38.38	30	29.09	1/2 S	1-1/8 S

## Physical and Electrical Data

## Copelametic™ air-cooled condensing units

Model	Receiver Capacity* (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight
	R-12	R-134a	R-22	R-404A	R-407C			
CFDP-0451-TFC	69.8	64	63	54.8	60	32.3	50	330
CFDP-0451-TFD	69.8	64	63	54.8	60	15.4	20	520
CFDP-0500-TFC	81.6	74.8	73.8	64	70.2	42.3	60	679
CFDP-0500-TFD	81.6	74.8	73.8	64	70.2	19.5	30	550
CFDP-0501-TFC	69.8	64	63	54.8	60	32.3	50	530
CFDP-0501-TFD	69.8	64	63	54.8	60	15.5	50	530
CFDP-0550-TFC	81.6	74.8	73.8	64	70.2	43.8	70	667
CFDP-0550-TFD	81.6	74.8	73.8	64	70.2	22.5	35	661
CFDP-0550-TFE	81.6	74.8	73.8	64	70.2	15.7	20	669
CFDP-0600-TFC	101.1	92.7	91.5	79.2	87	57.6	80	965
CFDP-0600-TFD	101.1	92.7	91.5	79.2	87	25.9	35	965
CFDP-0700-TFC	101.1	92.7	91.5	79.2	87	61.3	90	952
CFDP-0700-TFD	101.1	92.7	91.5	79.2	87	28.1	40	942
CFDP-0751-TFC	81.6	74.8	73.8	64	70.2	45.7	70	601
CFDP-1001-TFC	101.1	92.7	91.5	79.2	87	63.3	90	935
CJAL-0100-TAD				21.2		4.2	15	204
CJAL-0150-CAV				21.2		15.3	20	220
CJAL-0151-CAB				21.2		15.4	20	283
CJAL-0152-TAD				21.2		5.5	15	219
CJAL-0200-TAE				21.2		4.9	15	307
CJAL-0300-CAB				54.8		25.3	35	444
CJAL-0300-TAC				54.8		20.3	25	410
CJAL-0300-TAD				54.8		9.9	15	441
CJAL-0300-TAE				54.8		7.0	15	441
CJAM-0076-CAV				21.2		9.7	15	208
CJAU-0503-TFC				64		31.1	45	732
CLAL-0152-CAB			24.6			12.3	15	240
CLAL-0300-TAC			63			17.8	20	427
CLAL-0300-TAD			63			8.9	15	421
CNAG-0076-CAV		25	24.6	21.2		9.9	15	196
CNAG-0100-CAV		25	24.6	21.2		11.5	15	190
CNAG-0100-TAC		25	24.6	21.2		8.7	15	190
CNAG-0200-TAC		25	24.6	21.2		11.1	15	286
CPAK-0150-CAV		25		21.2		14.2	20	207
CTAH-0150-TAC		25				11.2	15	212
CTAM-0300-TAC		64				15.0	15	421

## About Emerson

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