

PRODUCT SPECIFICATIONS

Goodman®

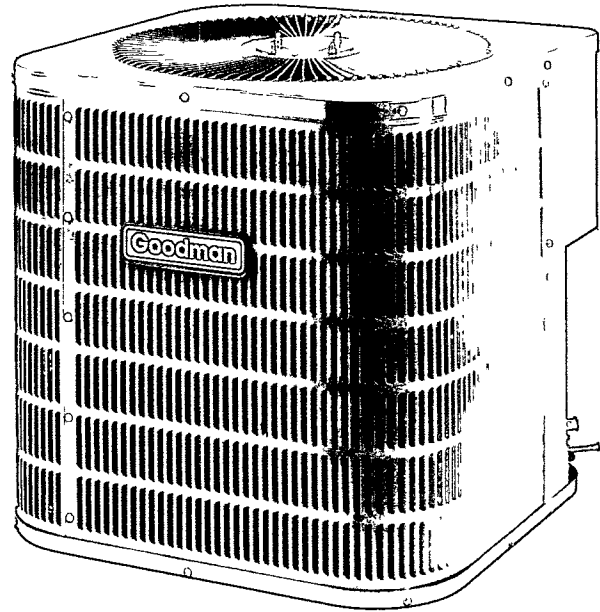
Air Conditioning & Heating

CKL COMMERCIAL SERIES

10.3 EER

Split System Air Conditioner

7½ to 10 Ton



The CKL Commercial split system air conditioner is designed for ground-level or rooftop mount application.

Standard Features

- Single-scroll compressor with crankcase heater
- Louvered guard protects the coil from damage and adds strength to unit
- Bottom pan rails elevate the unit above slab
- Quiet operating top discharge
- Permanently lubricated condenser motor
- Copper tube, aluminum fin coil
- Brass suction ball valve and liquid front-seating shut-off valve with sweat connections
- Large-capacity liquid line filter drier
- High- and low-pressure switches

Air Handler and Coil Compatibilities

- U and UC fan-less indoor coils are designed to fit our furnaces for light commercial cooling and heating applications
- AR versatile up, horizontal (left only) air handler

Cabinet Construction

- Polyester powder paint provides premium durability and improved UV protection
- Heavy-gauge, zinc-clad, G90 galvanized steel
- When properly anchored, meets the 2001 Florida Building Code unit integrity requirements for hurricane-type winds

Accessories

- Standard room thermostat with 1-stage cool/1-stage heat (CHT18-60)
- Digital room thermostat with 1-stage cool/1-stage heat (CHTD18-60)



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Specifications

Model	Refrigerant Line Connection		Type	Approximate Shipping Weight (pounds)
	Liquid	Suction		
CKL090-3/-3L	5/8"	1 ³ / ₈ "	Sweat	370
CKL090-4/-4L	5/8"	1 ³ / ₈ "	Sweat	370
CKL120-3/-3L	5/8"	1 ³ / ₈ "	Sweat	420
CKL120-4/-4L	5/8"	1 ³ / ₈ "	Sweat	420

Electrical Data

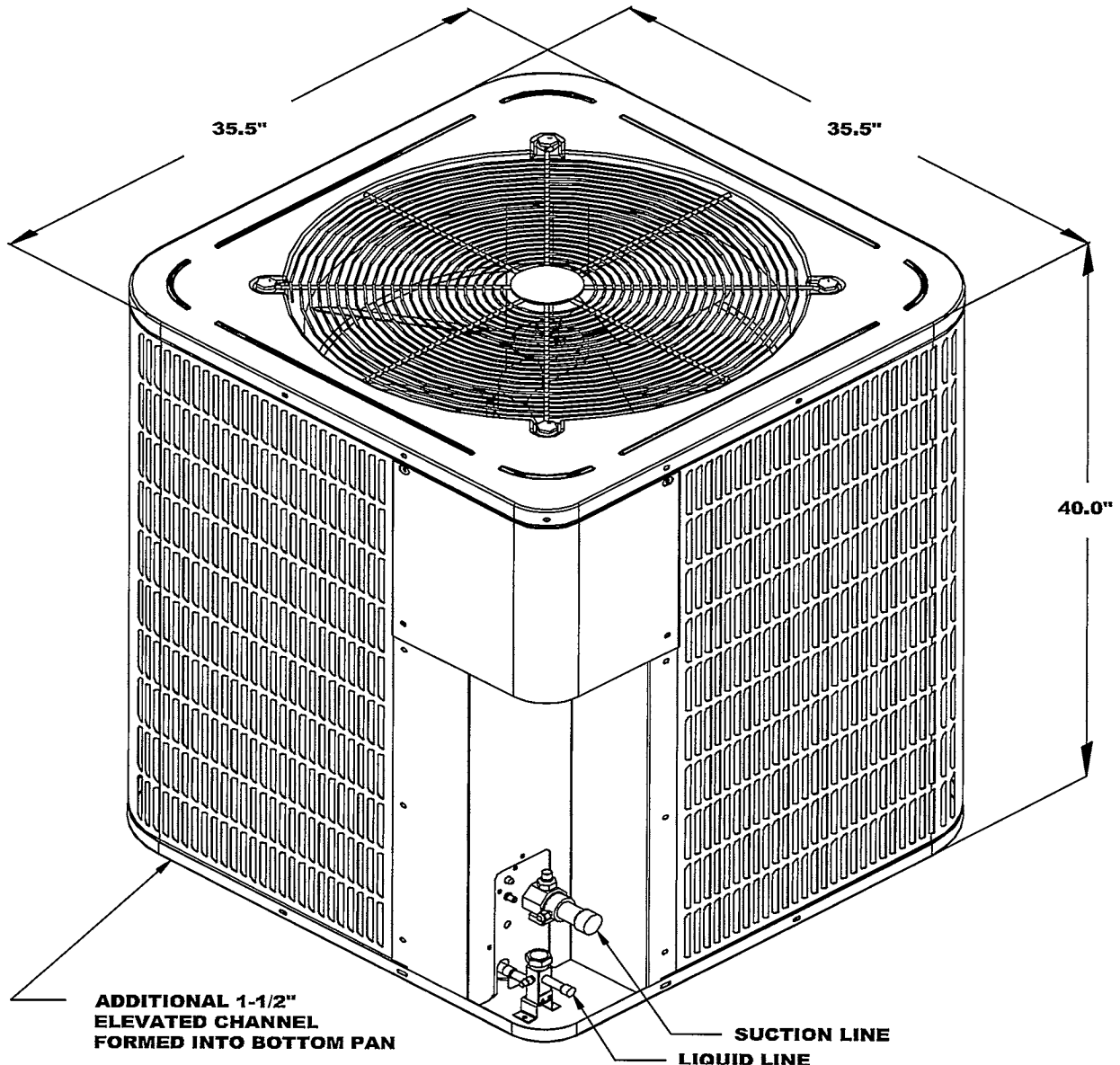
Model	Volts	PH	Minimum Circuit Ampacity ¹	Maximum Overcurrent Protection ²	Maximum Volts	Minimum Volts	Compressor		Condenser Fan	
							RLA	LRA	FLA	HP
CKL090-3/-3L	208/230	3	37.8	60	253	197	25.7	196	5.6	1
CKL090-4/-4L	460	3	18.8	30	506	414	12.8	100	2.8	1
CKL120-3/-3L	208/230	3	43.3	60	253	197	30.1	225	5.6	1
CKL120-4/-4L	460	3	22.2	35	506	414	15.5	114	2.8	1

1) Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

2) May use fuses or HACR type Circuit Breakers of the same size as noted.

3) The -3L and -4L models are painted Architectural Gray. All other models are painted Bahama Beige.

Dimensions



PRODUCT SPECIFICATIONS

Performance Ratings

Model	Evaporator Model	Total BTUH @ 95 °F	Sensible BTUH @ 95 °F	EER ¹	Decibels
CKL090-3/-3L	AR090	88,000	63,400	10.3	8.4
CKL090-4/-4L	(2) U-60; (2) CA(U,P)X060D2A	90,000	64,800	10.3	8.4
CKL120-3/-3L	AR120	114,000	82,200	10.3	8.4
CKL120-4/-4L	(2) U-61; (2) CA(U,P)X061D2A	112,000	80,800	10.3	8.4

- 1) EER = Energy Efficiency Ratio = Capacity BTUH @ 95 °F/kW₁ (kW₁ = Compressor + Indoor Blower Motor + Outdoor Fan Motor)
 2) For CKL**-3 models, reduce BTUH by 2,000 @ 208 volts.

Outdoor Unit CKL090-3/-4/-3L/-4L

Indoor Unit AR090

Indoor Air		Condenser Air Temperature														
		75 °F			85 °F			95 °F			105 °F			115 °F		
SCFM	WB	TOTAL MBTUH	SENS MBTUH	WATTS KWH	TOTAL MBTUH	SENS MBTUH	WATTS KWH	TOTAL MBTUH	SENS MBTUH	WATTS KWH	TOTAL MBTUH	SENS MBTUH	WATTS KWH	TOTAL MBTUH	SENS MBTUH	WATTS KWH
2493	72	102.1	47.6	8.03	97.7	45.6	8.46	92.4	43.7	8.80	87.1	41.8	9.23	81.8	39.9	9.65
	67	93.3	59.0	7.52	88.9	57.1	7.86	84.5	55.2	8.29	79.2	53.3	8.71	73.9	53.3	9.14
	62	86.2	69.7	7.01	81.8	67.8	7.43	79.6	65.9	7.86	77.4	64.0	8.29	73.0	61.5	8.63
	57	82.7	75.4	6.83	79.2	72.3	7.26	75.7	69.1	7.69	71.3	65.3	8.20	67.8	61.5	8.54
2933	72	106.5	52.6	8.29	101.2	50.7	8.63	95.9	48.8	9.06	90.6	47.6	9.48	84.5	45.0	9.91
	67	97.7	67.2	7.77	93.3	65.3	8.12	88.0	63.4	8.54	82.7	61.5	8.97	77.4	59.6	9.40
	62	90.6	80.5	7.35	86.2	78.0	7.69	81.8	74.8	8.12	78.3	71.0	8.54	73.9	67.2	9.06
	57	89.8	81.8	7.26	85.4	78.6	7.69	81.8	74.8	8.12	78.3	71.0	8.54	73.9	67.2	9.06
3373	72	109.1	57.1	8.46	103.8	55.2	8.80	98.6	53.3	9.23	92.4	51.4	9.65	87.1	50.1	10.08
	67	101.2	74.2	7.95	95.9	72.9	8.29	90.6	71.0	8.71	85.4	68.5	9.14	80.1	66.6	9.57
	62	95.0	86.9	7.60	91.5	83.1	8.03	86.2	79.3	8.46	82.7	75.4	8.89	77.4	71.0	9.40
	57	95.0	86.9	7.60	91.5	83.1	8.03	86.2	79.3	8.46	82.7	75.4	8.89	77.4	71.0	9.40

Sensible heat capacities shown are based on 80 °F DB entering air at the evaporator coil. For sensible heat capacities at other than 80 °F DB, deduct 84 BTUH per 100 CFM of evaporator coil air for each degree below 80 °F, or add 84 BTUH per 100 CFM of evaporator coil air per degree above 80 °F.
 CAPACITIES AT 95 °F OUTDOOR, 75 °F DB AND 63 °F WB INDOOR
 TOTAL MBTUH 83.1 SENSIBLE MBTUH 60.2 LATENT MBTUH 22.9

Outdoor Unit CKL090-3/-4/-3L/-4L

Indoor Unit (2) U60

INDOOR AIR		CONDENSER AIR TEMPERATURE														
		75			85			95			105			115		
SCFM	WB	TOTAL MBTUH	SENS MBTUH	WATTS KWH	TOTAL MBTUH	SENS MBTUH	WATTS KWH	TOTAL MBTUH	SENS MBTUH	WATTS KWH	TOTAL MBTUH	SENS MBTUH	WATTS KWH	TOTAL MBTUH	SENS MBTUH	WATTS KWH
2550	72	104.4	48.6	8.21	99.9	46.7	8.65	94.5	44.7	9.00	89.1	42.8	9.44	83.7	40.8	9.87
	67	95.4	60.3	7.69	90.9	58.3	8.04	86.4	56.4	8.48	81.0	54.4	8.91	75.6	54.4	9.35
	62	88.2	71.3	7.17	83.7	69.3	7.60	81.5	67.4	8.04	79.2	65.4	8.48	74.7	62.9	8.83
	57	84.6	77.1	6.99	81.0	73.9	7.43	77.4	70.6	7.86	72.9	66.7	8.39	69.3	62.9	8.74
3000	72	108.9	53.8	8.48	103.5	51.8	8.83	98.1	49.9	9.26	92.7	48.6	9.70	86.4	46.0	10.14
	67	99.9	68.7	7.95	95.4	66.7	8.30	90.0	64.8	8.74	84.6	62.9	9.17	79.2	60.9	9.61
	62	92.7	82.3	7.51	88.2	79.7	7.86	83.7	76.5	8.30	80.1	72.6	8.74	75.6	68.7	9.26
	57	91.8	83.6	7.43	87.3	80.4	7.86	83.7	76.5	8.30	80.1	72.6	8.74	75.6	68.7	9.26
3450	72	111.6	58.3	8.65	106.2	56.4	9.00	100.8	54.4	9.44	94.5	52.5	9.87	89.1	51.2	10.31
	67	103.5	75.8	8.13	98.1	74.5	8.48	92.7	72.6	8.91	87.3	70.0	9.35	81.9	68.0	9.79
	62	97.2	88.8	7.78	93.6	84.9	8.21	88.2	81.0	8.65	84.6	77.1	9.09	79.2	72.6	9.61
	57	97.2	88.8	7.78	93.6	84.9	8.21	88.2	81.0	8.65	84.6	77.1	9.09	79.2	72.6	9.61

Sensible heat capacities shown are based on 80 °F DB entering air at the evaporator coil. For sensible heat capacities at other than 80 °F DB, deduct 84 BTUH per 100 CFM of evaporator coil air for each degree below 80 °F, or add 84 BTUH per 100 CFM of evaporator coil air per degree above 80 °F.
 CAPACITIES AT 95 °F OUTDOOR, 75 °F DB AND 63 °F WB INDOOR
 TOTAL MBTUH 85.0 SENSIBLE MBTUH 61.5 LATENT MBTUH 23.4

PRODUCT SPECIFICATIONS

Performance Ratings (cont.)

Outdoor Unit CKL120-3/-4/-3L/-4L

Indoor Unit AR120

Indoor Air		Condenser Air Temperature														
		75 °F			85 °F			95 °F			105 °F			115 °F		
		TOTAL	SENS	WATTS	TOTAL	SENS	WATTS	TOTAL	SENS	WATTS	TOTAL	SENS	WATTS	TOTAL	SENS	WATTS
SCFM	WB	MBTUH	MBTUH	KWH	MBTUH	MBTUH	KWH	MBTUH	MBTUH	KWH	MBTUH	MBTUH	KWH	MBTUH	MBTUH	KWH
3230	72	132.2	61.7	10.40	126.5	59.2	10.96	119.7	56.7	11.40	112.9	54.3	11.95	106.0	51.8	12.51
	67	120.8	76.4	9.74	115.1	74.0	10.18	109.4	71.5	10.74	102.6	69.0	11.29	95.8	69.0	11.84
	62	111.7	90.4	9.08	106.0	88.0	9.63	103.2	85.5	10.18	100.3	83.0	10.74	94.6	79.7	11.18
	57	107.2	97.8	8.85	102.6	93.7	9.41	98.0	89.6	9.96	92.3	84.7	10.63	87.8	79.7	11.07
3800	72	137.9	68.2	10.74	131.1	65.8	11.18	124.3	63.3	11.73	117.4	61.7	12.29	109.4	58.4	12.84
	67	126.5	87.1	10.07	120.8	84.7	10.51	114.0	82.2	11.07	107.2	79.7	11.62	100.3	77.3	12.17
	62	117.4	104.4	9.52	111.7	101.1	9.96	106.0	97.0	10.51	101.5	92.1	11.07	95.8	87.1	11.73
	57	116.3	106.0	9.41	110.6	101.9	9.96	106.0	97.0	10.51	101.5	92.1	11.07	95.8	87.1	11.73
4370	72	141.4	74.0	10.96	134.5	71.5	11.40	127.7	69.0	11.95	119.7	66.6	12.51	112.9	64.9	13.06
	67	131.1	96.2	10.29	124.3	94.5	10.74	117.4	92.1	11.29	110.6	88.8	11.84	103.7	86.3	12.40
	62	123.1	112.6	9.85	118.6	107.7	10.40	111.7	102.8	10.96	107.2	97.8	11.51	100.3	92.1	12.17
	57	123.1	112.6	9.85	118.6	107.7	10.40	111.7	102.8	10.96	107.2	97.8	11.51	100.3	92.1	12.17

Sensible heat capacities shown are based on 80 °F DB entering air at the evaporator coil. For sensible heat capacities at other than 80 °F DB, deduct 84 BTUH per 100 CFM of evaporator coil air for each degree below 80 °F, or add 84 BTUH PER 100 CFM of evaporator coil air per degree above 80 °F.
CAPACITIES AT 95 °F OUTDOOR, 75 °F DB AND 63 °F WB INDOOR

TOTAL MBTUH 107.6 SENSIBLE MBTUH 78.1 LATENT MBTUH 29.5

Outdoor Unit CKL120-3/-4/-3L/-4L

Indoor Unit (2) U61

INDOOR AIR		CONDENSER AIR TEMPERATURE														
		75			85			95			105			115		
		TOTAL	SENS	WATTS	TOTAL	SENS	WATTS	TOTAL	SENS	WATTS	TOTAL	SENS	WATTS	TOTAL	SENS	WATTS
SCFM	WB	MBTUH	MBTUH	KWH	MBTUH	MBTUH	KWH	MBTUH	MBTUH	KWH	MBTUH	MBTUH	KWH	MBTUH	MBTUH	KWH
3173	72	129.9	60.6	10.22	124.3	58.2	10.77	117.6	55.8	11.20	110.9	53.3	11.74	104.2	50.9	12.29
	67	118.7	75.1	9.57	113.1	72.7	10.00	107.5	70.3	10.55	100.8	67.9	11.09	94.1	67.9	11.63
	62	109.8	88.9	8.92	104.2	86.5	9.46	101.4	84.0	10.00	98.6	81.6	10.55	93.0	78.4	10.98
	57	105.3	96.2	8.70	100.8	92.1	9.24	96.3	88.1	9.79	90.7	83.2	10.44	86.2	78.4	10.87
3733	72	135.5	67.1	10.55	128.8	64.6	10.98	122.1	62.2	11.53	115.4	60.6	12.07	107.5	57.4	12.61
	67	124.3	85.6	9.90	118.7	83.2	10.33	112.0	80.8	10.87	105.3	78.4	11.42	98.6	76.0	11.96
	62	115.4	102.6	9.35	109.8	99.4	9.79	104.2	95.3	10.33	99.7	90.5	10.87	94.1	85.6	11.53
	57	114.2	104.2	9.24	108.6	100.2	9.79	104.2	95.3	10.33	99.7	90.5	10.87	94.1	85.6	11.53
4293	72	138.9	72.7	10.77	132.2	70.3	11.20	125.4	67.9	11.74	117.6	65.4	12.29	110.9	63.8	12.83
	67	128.8	94.5	10.11	122.1	92.9	10.55	115.4	90.5	11.09	108.6	87.3	11.63	101.9	84.8	12.18
	62	121.0	110.7	9.68	116.5	105.8	10.22	109.8	101.0	10.77	105.3	96.2	11.31	98.6	90.5	11.96
	57	121.0	110.7	9.68	116.5	105.8	10.22	109.8	101.0	10.77	105.3	96.2	11.31	98.6	90.5	11.96

Sensible heat capacities shown are based on 80 °F DB entering air at the evaporator coil. For sensible heat capacities at other than 80 °F DB, deduct 84 BTUH per 100 CFM of evaporator coil air for each degree below 80 °F, or add 84 BTUH per 100 CFM of evaporator coil air per degree above 80 °F.
CAPACITIES AT 95 °F OUTDOOR, 75 °F DB AND 63 °F WB INDOOR

TOTAL MBTUH 105.7 SENSIBLE MBTUH 76.8 LATENT MBTUH 29.0



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