

# CMA-SD Series

## FEATURES

*Side discharge condenser is compact in size with an alternative footprint to fit in tight spaces without detracting from landscaping and outdoor living areas, which also makes it great for apartment complexes and condominiums.*

- R410A refrigerant
- 12,000 through 36,000 BTU units designed with time tested rotary compressor
- 48,000 features durable scroll compressor for long lasting trouble free operation
- Ultra quiet operation-rated as low as 54 decibels
- Attractive cabinet is galvanized steel with powder coated finish for durability, in attractive neutral color
- Low voltage 24V control system for universal use
- Bio-engineered fan blade designed for efficient, quiet operation

**Older CMA-SD models have flare connection, newer CMA-SD models have flare connection and come with a flare-to-sweat adapter.**



**Full line of AHRI matches to obtain the highest possible of efficiencies.**

**AHRI references numbers included on page 2.**

*Comfort-Aire*®

## SIDE DISCHARGE CONDENSER

*1 to 4 Tons*

*Six models to choose from  
12,000 to 48,000 BTUH*



## Warranty

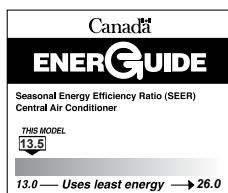
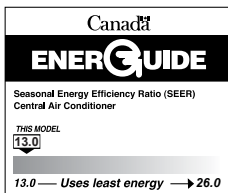
5 years on compressor, 1 year on parts

Standard warranty or Extended warranty available with product registration.  
See warranty document for details or visit [www.marsdelivers.com](http://www.marsdelivers.com)

# CMA SERIES HORIZONTAL CONDENSER

OUTDOOR MODEL	INDOOR MODEL	TXV KIT WHERE NEEDED	COOLING PERFORMANCE			REFRIGERANT CONNECTION				REFRIGERANT LINE SIZE		AHRI REFERENCE NUMBERS
			SEER	EER	AHRI CAPACITY	OUTDOOR (FLARE)		INDOOR (SWEAT)		SUCTION	LIQUID	
	SUCTION					LIQUID	SUCTION	LIQUID				
CMA12SD-0	(C,M)CG18P(A,B)3P+TXV	67304001	13	11	11,900	1/2	1/4	3/4	3/8	1/2	1/4	203979581
	(C,M,V)24P13E+TXV	4200	13	11	12,000	1/2	1/4	3/4	3/8	1/2	1/4	202195868
CMA18SD-1	(C,M)CG18P(A,B,C)3P+TXV	67304001	13	10.5	16,000	1/2	1/4	3/4	3/8	1/2	1/4	203980296
	(C,V,M)CG18PA1M+TXV	4200	13.5	10.9	16,100	1/2	1/4	3/4	3/8	1/2	1/4	202241908
	(C,V,M)CG18PB1M+TXV	4200	13.5	10.9	16,100	1/2	1/4	3/4	3/8	1/2	1/4	202241909
	(C,V,M)CG18PC1M+TXV	4200	13.5	10.9	16,100	1/2	1/4	3/4	3/8	1/2	1/4	202241910
	(C,V,M)CG24/30PA1M+TXV	4200	13	10.7	15,500	1/2	1/4	3/4	3/8	1/2	1/4	202241920
	(C,V,M)CG24/30PB1M+TXV	4200	13	10.7	15,500	1/2	1/4	3/4	3/8	1/2	1/4	202241921
	(C,V,M)CG24/30PC1M+TXV	4200	13	10.7	15,500	1/2	1/4	3/4	3/8	1/2	1/4	202241922
	BCW1C18**NA4X-1	Installed	13	10.5	16,000	1/2	1/4	3/4	3/8	1/2	1/4	203994444
CMA24SD-1	(C,M)CG24P(A,B,C)4P+TXV	67304001	13	10.5	21,000	5/8	3/8	3/4	3/8	5/8	3/8	203980297
	(C,V,M)CG18PA1M+TXV	4200	13.5	10.9	20,800	5/8	3/8	3/4	3/8	5/8	3/8	202241911
	(C,V,M)CG18PB1M+TXV	4200	13.5	10.9	20,800	5/8	3/8	3/4	3/8	5/8	3/8	202241912
	(C,V,M)CG18PC1M+TXV	4200	13.5	10.9	20,800	5/8	3/8	3/4	3/8	5/8	3/8	202241913
	(C,V,M)CG24/30PA1M+TXV	4200	13	10	19,900	5/8	3/8	3/4	3/8	5/8	3/8	202241926
	(C,V,M)CG24/30PB1M+TXV	4200	13	10	19,900	5/8	3/8	3/4	3/8	5/8	3/8	202241927
	(C,V,M)CG24/30PC1M+TXV	4200	13	10	19,900	5/8	3/8	3/4	3/8	5/8	3/8	202241928
	BCW1C24**NA4X-1	Installed	13	10.5	21,000	5/8	3/8	3/4	3/8	5/8	3/8	203994445
CMA30SD-1	(C,M)CG2430P(A,B,C)3P+TXV	67304001	13	10	26,600	3/4	3/8	3/4	3/8	3/4	3/8	203980298
	(C,V,M)CG36PA1M+TXV	4200	13.5	10.9	28,200	3/4	3/8	3/4	3/8	3/4	3/8	202241932
	(C,V,M)CG36PB1M+TXV	4200	13.5	10.9	28,200	3/4	3/8	3/4	3/8	3/4	3/8	202241933
	(C,V,M)CG36PC1M+TXV	4200	13.5	10.9	28,200	3/4	3/8	3/4	3/8	3/4	3/8	202241934
	BCW1E36**NA4X-1	Installed	14	10.5	26,800	3/4	3/8	3/4	3/8	3/4	3/8	203994446
CMA36SD-1	(C,M)CG36P(A,B,C)7P+TXV	67304001	13	10.5	32,600	3/4	3/8	3/4	3/8	3/4	3/8	203980299
	(C,V,M)CG36PA1M+TXV	4200	13.5	10.9	34,000	3/4	3/8	3/4	3/8	3/4	3/8	202241938
	(C,V,M)CG36PB1M+TXV	4200	13.5	10.9	34,000	3/4	3/8	3/4	3/8	3/4	3/8	202241939
	(C,V,M)CG36PC1M+TXV	4200	13.5	10.9	34,000	3/4	3/8	3/4	3/8	3/4	3/8	202241940
	(C,V,M)CG42PB1M+TXV	4200	13	10.5	32,000	3/4	3/8	7/8	3/8	3/4	3/8	202241944
	(C,V,M)CG42PC1M+TXV	4200	13	10.5	32,000	3/4	3/8	7/8	3/8	3/4	3/8	202241945
	(C,V,M)CG42PD1M+TXV	4200	13	10.5	32,000	3/4	3/8	7/8	3/8	3/4	3/8	202241946
	(C,V,M)CG48PB1M+TXV	4200	13.5	11.1	35,200	3/4	3/8	7/8	3/8	3/4	3/8	202241950
	(C,V,M)CG48PC1M+TXV	4200	13.5	11.1	35,200	3/4	3/8	7/8	3/8	3/4	3/8	202241951
	(C,V,M)CG48PD1M+TXV	4200	13.5	11.1	35,200	3/4	3/8	7/8	3/8	3/4	3/8	202241952
	(C,V,M)CG48PB1M	4200	13	11.1	35,200	3/4	3/8	7/8	3/8	3/4	3/8	202241962
	(C,V,M)CG48PC1M	4200	13	11.1	35,200	3/4	3/8	7/8	3/8	3/4	3/8	202241963
	(C,V,M)CG48PD1M	4200	13	11.1	35,200	3/4	3/8	7/8	3/8	3/4	3/8	202241964
	BCW1E36**NA4X-1	Installed	13	10.5	32,400	3/4	3/8	3/4	3/8	3/4	3/8	203994447
	CMA48SD-1	(C,M)CG48P(C,D)9P+TXV	67304002	13	10.5	44,000	3/4	3/8	7/8	3/8	3/4	3/8
(C,V,M)CG48PB1M		4202	13.5	11	46,000	3/4	3/8	7/8	3/8	3/4	3/8	202241956
(C,V,M)CG48PC1M		4202	13.5	11	46,000	3/4	3/8	7/8	3/8	3/4	3/8	202241957
(C,V,M)CG48PD1M		4202	13.5	11	46,000	3/4	3/8	7/8	3/8	3/4	3/8	202241958
(C,V,M)CG60PC1M		4202	13.5	11	46,000	3/4	3/8	7/8	3/8	3/4	3/8	202241967
(C,V,M)CG60PD1M		4202	13.5	11	46,000	3/4	3/8	7/8	3/8	3/4	3/8	202241968

Use of piston-style metering device is typical. Where TXVs are necessary due to AHRI-match or performance-related applications, a 15% bleed-type TXV is required.



**CMA SERIES HORIZONTAL CONDENSER**
**0=115-1-60, 1=208/230V-1-60**

SPECIFICATIONS	CMA12SD-0	CMA18SD-1	CMA24SD-1	CMA30SD-1	CMA36SD-1	CMA48SD-1
Nom. Cooling Capacity (BTUH)	12,000	16,700	21,800	28,600	34,400	46,000
SEER	13	13	13	13	13	13
EER	11.4	11.4	11.4	11.4	11.4	11.4
Ambient Operation Temp.	65°	65°	65°	65°	65°	65°
Operation Sound Level dB(A)	54	56	58	60	60	60
Outdoor Airflow CFM	1413	1883	2649	3473	4120	4120
<b>ELECTRICAL</b>						
Cooling Amps	8.10	6.55	9.0	11.9	15.5	20.5
Min. Circuit Ampacity	10	9	11.0	15	19	26
Max. Fuse/HACR Circuit Breaker	15	10	15	25	30	40
Recommended Connection	18-2 (24V)					
<b>SYSTEM COMPONENTS</b>						
Compressor Type	Rotary	Rotary	Rotary	Rotary	Rotary	Scroll
Condenser	Aluminum Fin / Copper Tube					
<b>LINE SET SPECIFICATIONS</b>						
Liquid Line (inch) (flare)	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"
Gas Line (inch) (flare)	1/2"	1/2"	5/8"	3/4"	3/4"	3/4"
Max. Ref. Pipe Length	82	82	82	82	98	98
Max. Difference in Elevation <sup>2</sup>	33	33	33	33	33	33
<b>PHYSICAL CHARACTERISTICS</b>						
Dimensions (in.) W x H x D	32x21.25x10.1	36.4x27.6x14.4	41.1x31.1x17	41.3x39.2x15.75	35.9x52.36x15.75	35.9x52.36x15.75
Net Wt/Shipping Wt (lbs)	86/90.4	106/117	141/152	170/196.2	185/207.2	185/207.2

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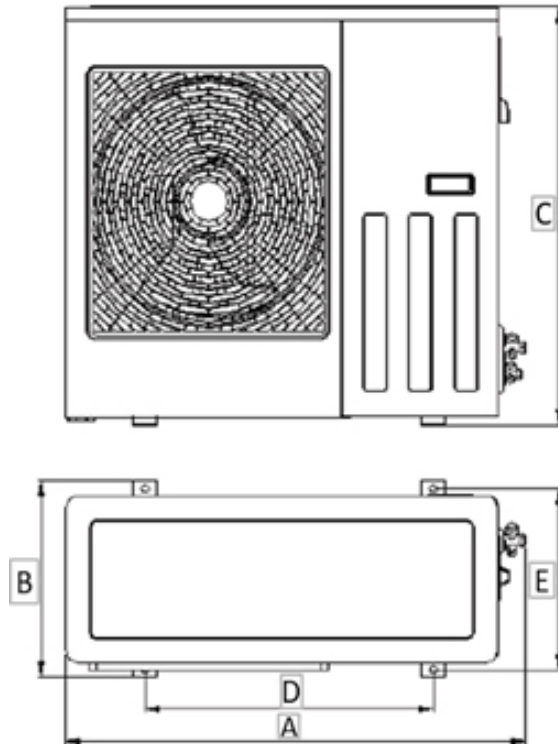
SPECIFICATIONS	CMA12SD-0	CMA18SD-1	CMA24SD-1	CMA30SD-1	CMA36SD-1	CMA48SD-1
<b>ELECTRICAL</b>						
Cooling Amps	7.7	6.55	9	11.9	15.5	17
Min. Circuit Ampacity	15A	9A	11A	15A	19A	23A
Max. Fuse/HACR Circuit Breaker	15A	10A	15A	25A	30A	30A
Recommended Connection	18-2 (24V) <sup>1</sup>					
<b>SYSTEM COMPONENTS</b>						
Compressor Type	Rotary	Rotary	Rotary	Rotary	Rotary	Scroll
Condenser	Aluminum fin/copper tube					
<b>LINE SET SPECIFICATIONS</b>						
Liquid Line (inch) (flare)	1/4	1/4	3/8	3/8	3/8	3/8
Gas Line (inch) (flare)	1/2	1/2	5/8	3/4	3/4	3/4
Max. Ref. Pipe Length	65 ft	65 ft	65 ft	65 ft	65 ft	65 ft
Max. Difference in Elevation <sup>2</sup>	33 ft	33 ft	33 ft	33 ft	33 ft	33 ft

**NOTES:**
<sup>1</sup> Always follow local and national electrical codes.

<sup>2</sup> Oil traps must be installed every 10 feet when outdoor unit is installed above indoor unit.

## PHYSICAL CHARACTERISTICS & SOUND RATINGS

Model	Dimensions					Net/Ship Weight	Sound Ratings (dBA)
	A - width (in.)	B - depth (in.)	C - height (in.)	D - mount width	E - mount depth		
CMA12SD-0	32.00	12.00	21.10	20.10	10.90	86/90.4	54
CMA18SD-1	36.40	14.40	27.60	23.20	13.40	106/117	56
CMA24SD-1	41.10	17.00	31.10	27.80	15.50	141/152	58
CMA30SD-1	41.30	15.70	39.20	27.60	15.00	170/196.2	60
CMA36SD-1	35.90	15.70	52.40	23.00	14.20	185/207.2	60
CMA48SD-1	35.90	15.70	52.40	23.00	14.20	185/207.2	60



“This product complies with all California product labeling laws including, but not limited to, the Safe Drinking Water and Toxic Enforcement Act of 1986, more commonly known as Proposition 65.”

*Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations.*

*Third party incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs.*