

CONVERTIBLE PACKAGED UNITS, COOLING ONLY*



ROOFTOP PACKAGED PRODUCT DATA

Models

CP400A-X180AM6H1C
CP400A-X240AM6H1C
CP400A-X360AM6H1H*

Note*: 30 ton model is a heat pump

1 PRODUCT LINE

Nominal Capacity (Tons)	Model			Power Supply (V, Ph, Hz)	Appearance
	Refrigerant	Model Name	System Type		
15	R410A	CP400A-X180AM6H1C	Cooling Only	460V, 3Ph, 60Hz	
20		CP400A-X240AM6H1C	Cooling Only		
30		CP400A-X360AM6H1H	Heat Pump		



NOTES:

- ① Above pictures may be different from actual model.
- ② 1Ton = 12000Btu/h = 3.517kW.

2 NOMENCLATURE

	C	P	4	0	0	A	-	X	1	2	0	D	H	5	H	1	H	
C= CIAC																		C = Cool only, H= Heat Pump
P = Package unit																		Edition 1= first
4 = R410A refrigerant																		Manufacturing plant
Reserved																		Voltage
A- = First Series																		5= 208/230-3-60 ,6= 460-3-60
X = Inverter Compressor																		M= Multipoise duct configuration
Nominal Capacity																		Indoor fan type
120 = 120,000 BTUH																		A= AC Volt., D= DC Volt.
180 = 180,000 BTUH																		
240 = 240,000 BTUH																		
360 = 360,000 BTUH																		

3 FEATURES

Feature	Description
DC Inverter technology	The CIAC 460V Rooftop unit equipped efficient DC compressor and fan motor fusing advanced fuzzy control, can stepless adjust the output capacity according to the space load and significantly reduce power consumption.
Non-polarity communication design	The CIAC 460V Rooftop unit are strong anti-interference design, host directly connected to wired controller with two-core unshielded cable, which length can up to 100 meters.
Anti-corrosive and dustproof design	The CIAC 460V Rooftop unit equipped with high anti-corrosive coating of outdoor and indoor heat exchanger, triple layer moisture proof painting PCB, IP56 standard outdoor fan motor, hermetically sealed indoor fan motor, which greatly improve the durability of product in the extreme environment.
Multi-protection design	The CIAC 460V Rooftop unit build in comprehensive protection such as high/low pressure protection, over current protection, high discharge temperature protection, phase loss & sequence protection, which greatly improve the reliability of product in the extreme environment.
Multi parameter throttling control design	The CIAC 460V Rooftop unit EXV control by the MCU fusing hight/low pressure, compressor discharge temperature, etc. Maximum optimize the unit operation process.
Dead wind start-up design	The CIAC 460V Rooftop unit integrated exclusive outdoor fan dead wind start-up fuction, which greatly improve the success rates of fan start-up in the windy circumstances and ensure the unit performance steadily.
Emergency operation design	The CIAC 460V Rooftop unit is composed of two independent system. When one system fails, another system continue to operate in emergency during the maintenance period.
Centralized Control	The CIAC 460V Rooftop unit support centralized control fuction. One centralized controller can control up to 36 host.
Remote control function	The CIAC 460V Rooftop unit support remote control function, host can be access and control through LAN and WAN(Gateway accessory are required).

4 PRODUCT DATA AT RATED CONDITIONS

Model				CP400A- X180AM6H1C	CP400A- X240AM6H1C	CP400A- X360AM6H1H	
Tons				15	20	30	
Total Capacity	Cooling		BTU	180900	238840	368500	
			kW	53	70	108	
	Heating		BTU	-	-	436740	
			kW	-	-	128	
	EER		BTU/W	10.65	8.84	8.56	
			W/W	3.12	2.59	2.51	
	IEER		BTU/W	16	16	12	
Electrical Data	Power Supply			460V-60Hz-3Ph			
	Power Input	Cooling	kW	17	27	43	
		Max power Input	kW	25	32	47	
	Max Current		A	37	47	70	
Sound Pressure Level			dB(A)	70	71	77	
Refrigerant		Type	-	R410A			
		Charge	kg	10.0+10.0	10.0+10.0	14.0+14.0	
Air Flow Volume			CFM	5885	7062	9712	
			m³/h	10000	12000	16500	
External Static Pressure		Rated / Range	Pa	90 / 50-250	100 / 50-250	125 / 125-350	
			InWg	0.36 / 0.2-1.0	0.4 / 0.2-1.0	0.5 / 0.5-1.40	
Evaporator	Fan Motor	Drive Type	-	Belt Drive	Belt Drive	Belt Drive	
		Power Output	kW	4	4	7.5	
		Protec. Class		IP55			
	Fan	Type	-	Centrifugal	Centrifugal	Centrifugal	
		Quantity	-	1	1	1	
	Evaporator Coil	Material		Copper tube-Aluminum fin			
		Face Area	Sq. Ft.				
			m2				
		Fins per Inch		18			
		Rows		4			
	Drainage Connection		inch	3/4"(NPT)			

Model				CP400A- X180AM6H1C	CP400A- X240AM6H1C	CP400A- X360AM6H1H
Tons				15	20	30
Condenser	Compressor	Type		Inverter Scroll		
		Quantity		2	2	2
	Fan Motor	Type		Direct Drive		
		Power Output	kW	0.75	0.75	1.5
		Protect. Class		IP56	IP56	IP44
	Fan	Type		Axial-flow		
		Quantity		2		
	Condenser Coil	Material		Copper tube-Aluminum fin		
		Face Area	Sq. Ft.			
			m2			
		Fins per Inch		16		
		Rows		3		
	Number of Refrigerant Circuits				2	
	Operating Range		Cooling	DB °C	5~52	5~52
Heating			DB °C	-	-	-15~24
Dimension	Unit Dimensions (WxDxH)		mm	2850x2240 x1240	2850x2240 x1240	2850×2240×12
	Package Dimensions (WxDxH)		mm	2863x2253 x1285	2863x2253 x1285	2863×2253×12
Weight	Net Weight		kg	970	980	1020
	Gross Weight		kg	1010	1020	1090
Load Quantity	20'GP			2	2	2
	40'HQ			8	8	8

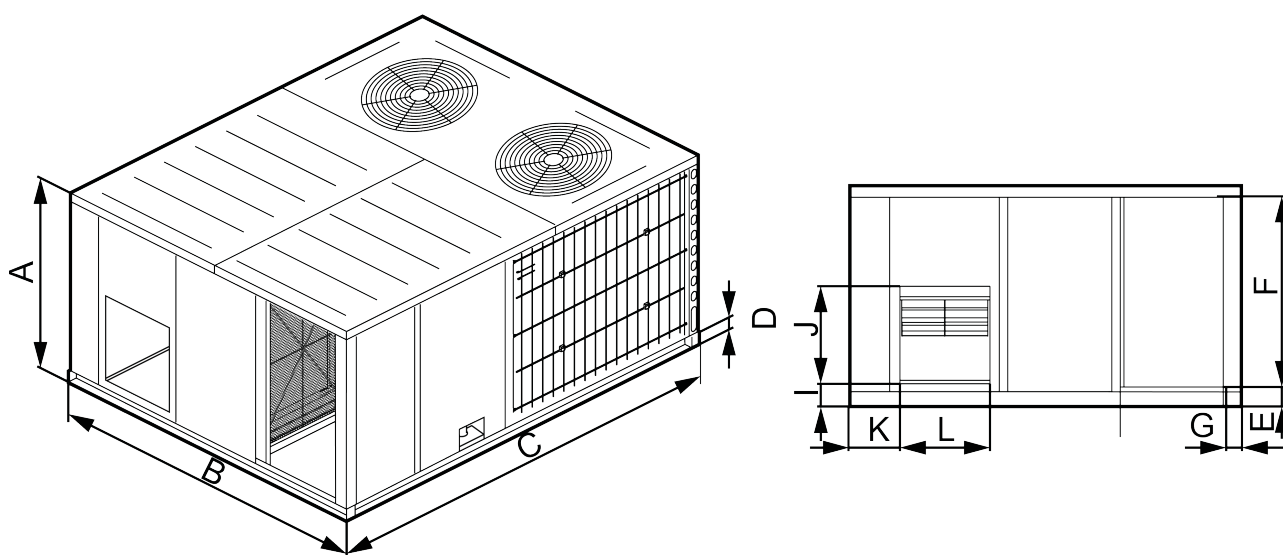
**NOTES:**

- ① The cooling capacity stated above is measured under following conditions:
 - i. Indoor Conditions: 26.7°C DB/19.4°C WB (80.1°F DB/66.9°F WB).
 - ii. Outdoor Conditions: 35°C DB/24°C WB (95°F DB/76°F WB).
- ② The heating capacity stated above is measured under following conditions:
 - iii. Indoor Conditions: 20°C DB/15°C WB (68°F DB/59°F WB).
 - iv. Outdoor Conditions: 7°C DB/6°C WB (44.6°F DB/42.8°F WB).
- ③ The air volume is measured at the relevant standard external static pressure.
- ④ The technical parameters are changed along with the products improvement; please refer to the nameplate of the unit for actual data.
- ⑤ Above data is subject to change without notice.

5 ELECTRICAL DATA

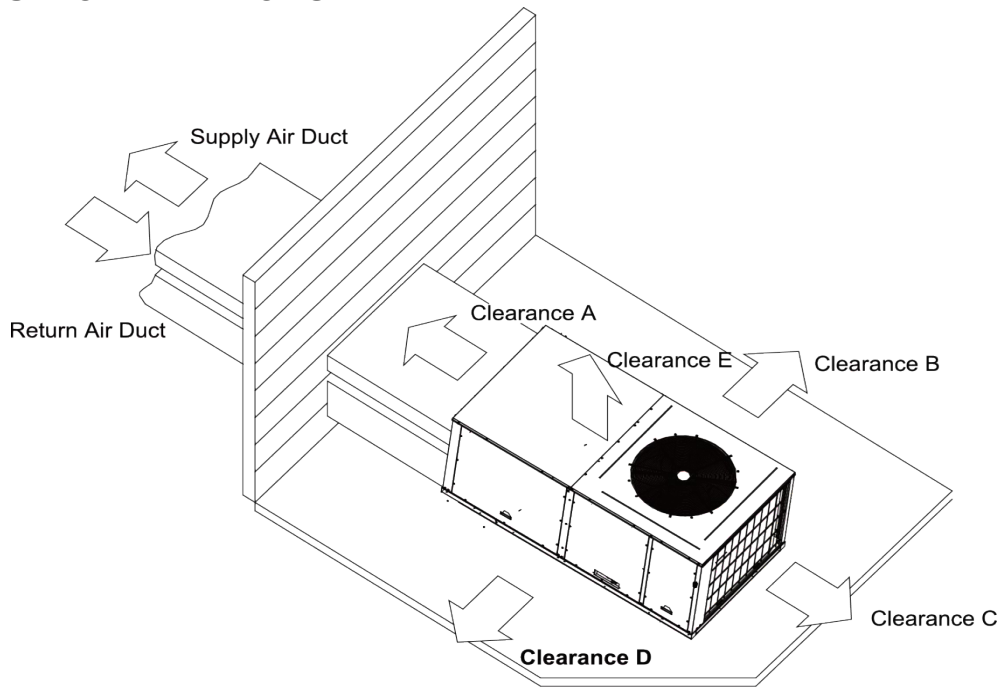
Model	Power Supply	Breaker Capacity	Min. Power Supply Cord
	V – Ph - Hz	Amps	mm ²
CP400A-X180AM6H1C	460V - 3 Ph - 60 Hz	40	6
CP400A-X240AM6H1C		50	10
CP400A-X360AM6H1H		80	25

6 UNIT DIMENSIONS



Dimension(mm)	A	B	C	D	E	F	G	H	I	J	K	L
CP400A-X180AM6H1C CP400A-X240AM6H1C	1240	2240	2850	80	111	1081	603	90	114	422	263	572
CP400A-X360AM6H1H	1240	2240	2850	80	111	1081	603	90	129	553	293	513

7 MINIMUM CLEARANCES

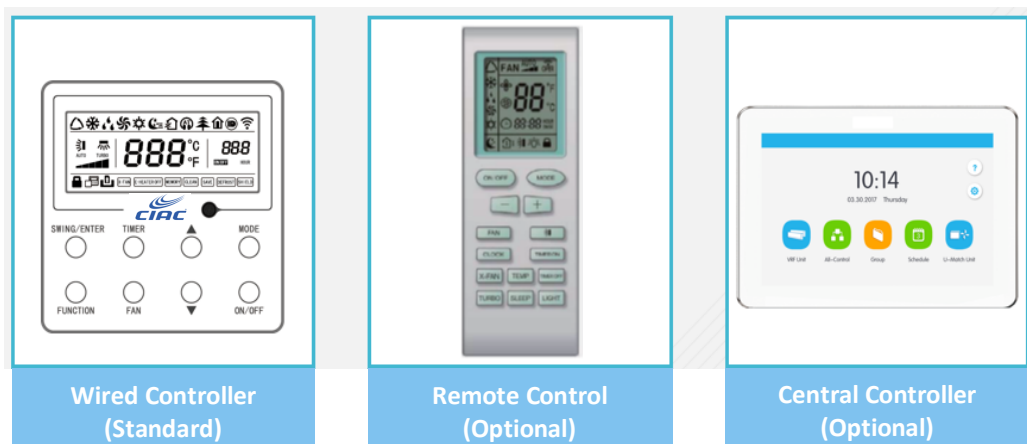


NOTE: Above diagram may be different from actual model.

CP400A-X180AM6H1C, CP400A-X240AM6H1C, CP400A-X360AM6H1H

Installation Clearances		
DIMENSION(Minimum)	mm	inches
A	1000	39
B	1500	59
C	1100	43
D	1100	43
E	3000	118

8 CONTROL OPTIONS





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