CIAC
Air conditioning

Inverter Packaged Rooftop Cooling only 7.5-30Tons

with anti-corrosion protection

220V3Ph60Hz 460V3Ph60Hz



R410-A Refrigerant

Direct Drive

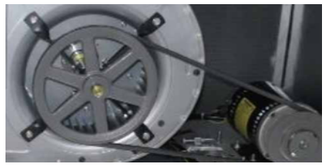
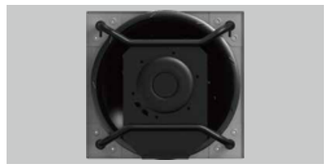
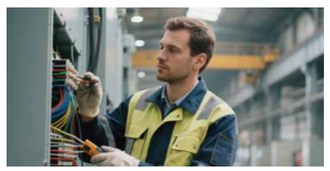
Belt-Free Performance, Built to Last



Benefits

- Enhanced E ciency
- Longer Lifespan
- Minimal Maintenance
- Constant Air Volume

Experience the revolutionary ECM Direct Drive technology - the ultimate solution for hassle-free HVAC operations. Unlike traditional belt drive systems that demand regular adjustments and yearly maintenance, our factory-installed ECM Direct Drive requires minimal on-site adjustments during installation and eliminates maintenance headaches with its self-diagnostic capabilities. Enjoy exceptional reliability with up to 15 years of motor lifespan, covering the entire unit lifecycle. The system's simplified design requires only basic maintenance skills, dramatically reducing service costs and downtime while delivering consistent, efficient performance throughout its extended operational life.

	Direct Drive Fan Motor	AC Motor Belt Drive
Installation	 Factory-installed, no additional on-site adjustment needed	 1. Belt Tension Adjustment 2. Pulley Alignment Adjustment 3. Readjust after a few days of running
Maintenance	 No special maintenance required, self-diagnosis, up to 15 years motor lifespan (whole unit lifecycle)	 1. At least one belt maintenance per year 2. Replace the belt every two years 3. Replace the motor every 8 years
For Installer	 1. Technicians with basic air condi-tioning maintenance skills 2. Static pressure is self-adaptive, ensuring a constant air supply volume.	 1. Technicians with professional electrical installation and maintenance skills 2. Adjustment of the pulley is required for static pressure regulation.



Benefits

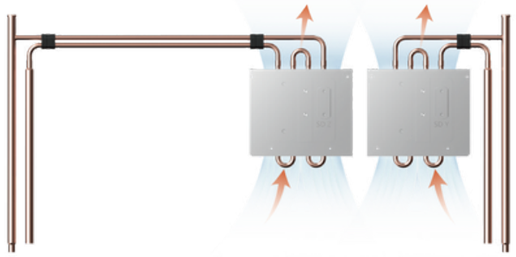
High Reliability

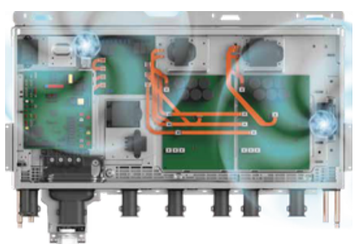
Stable Operation

ShieldBox keeps electronic components isolated from the external environment to protect against corrosion, sand, humidity, heavy snow and other harsh conditions. Additionally, it prevents insects and small animals from entering so internal electronics remain well protected.

Independent Cooling System

Our product features an electrical control system with independent cooling for both A and B systems. This design enhances serviceability by allowing technicians to repair one system without affecting the other, simplifying maintenance.



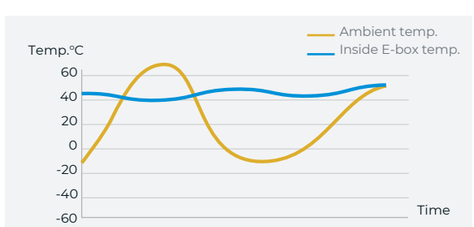


Built-in Circulating Fan

A built-in circulating fan enhances airflow within the chamber, promoting more efficient heat exchange and a consistent ambient temperature inside.

Multiple High-Precision Temperature Sensors

High-precision temperature sensors continuously monitor the operating temperature of electronic components under different conditions, ensuring that the internal temperature of the chamber remains stable at all times.





Benefits

High Reliability

Stable Operation

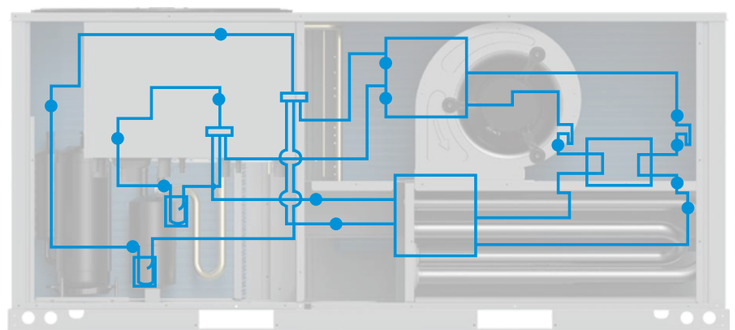
Enhanced Comfort

CIAC boasts a comprehensive sensor setup for precise monitoring and efficient operation. The dual system includes 4 pressure sensors and 16 temperature sensors, while the single system features 2 pressure sensor and 9 temperature sensors. This advanced configuration ensures accurate tracking of key temperatures, guaranteeing reliable and stable performance in all condi- tions.*

Note:Certain sensors can be customized based on specific requirements.

More Sensors for Proactive Support

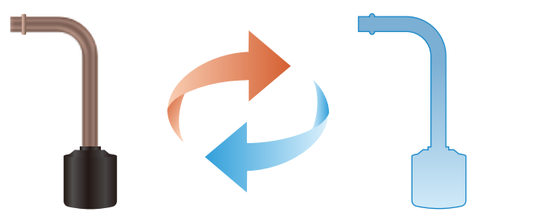
ProFit 7.5-30Ton is equipped with up to 4 pressure sensors and up to 16 temperature sensors. These sensors monitor key areas such as indoor temperature, evaporator and condenser pipe temperatures, outdoor ambient temperature, and exhaust temperature, ensuring optimal performance and reliability.



Virtual Sensor Backup*

In the event of a sensor failure, the system will automatically simulate a virtual backup sensor using other sensors, ensuring continuous operation.

Note:The feature is scheduled to go live in October 2026.





Benefits

Easy Control

Fast Maintenance

Low Maintenance cost

By harnessing a cloud-based platform powered by big data and artificial intelligence, the monitors the real-time opera- tion status of each unit, predicts potential system malfunctions and proactively recommends service or maintenance. An intelligent Bluetooth module and after-sales kit further streamline maintenance while enhancing servicing efficiency.

Multiple Connectivity Options*

Central controllers are available in 7-inch (up to 16 units) or 10.1-inch (up to 48 units) options.

*This feature is offered as an optional configuration.

Note:The BMS functionality will be launched in the future.

24V Thermostat



Wired Controller



Central Controller



3rd Party BMS System Compatibility



Smart Local and Remote Diagnosis

The ProFit Rooftop Series integrates Bluetooth and cloud technology to offer comprehensive local and cloud-based diagnostics. Through ensuring seamless synchronization and storage of all unit parameters to the cloud via a data gateway. This system provides comprehensive insights, including operational status, blockage frequency, and inspection parameters, accessible from any internet-connected device. With the Smart Cloud Monitor, the system continuously analyzes data, generating alerts for any abnormal conditions and proactively suggesting service or maintenance, thus enhancing reliability and efficiency.

Note:
*Data cloud gateway must be purchased separately.
*This feature is offered as an optional configuration.

New Generation Gateway



Bacnet、Modbus、
Cloud built in one
Support all MBT units

Software Platform



iEasyComfort For customer



iEasyCare For partner



ProFit

Bluetooth Module



Trouble Shooting App



CIAC LetsLink



Benefits

Seamless Installation

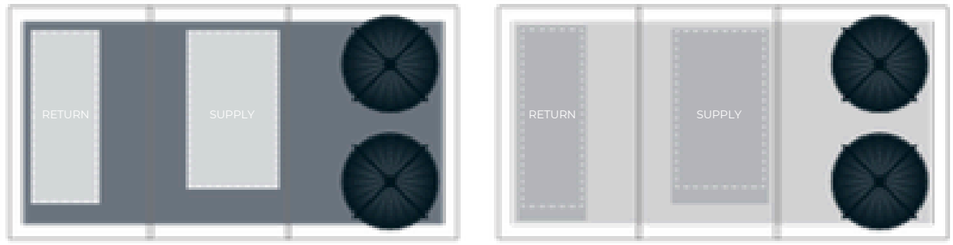
Time Saving

Reduced Downtime

By maintaining the original footprint and leveraging a trusted unit design, our solution ensures perfect compatibility with existing systems. This approach allows for hassle-free replacements, minimizes installation disruptions, and keeps costs low. Choose our product for effortless upgrades and reliable performance!

Direct Replacement for Most Rooftop Units

The CurbFit Design ensures a seamless installation process, minimizing disruptions and allowing for quick integration into existing systems. This leads to reduced downtime, enhancing overall efficiency and productivity. Below is a table of the footprint dimensions for the CIAC .



Example of Competitive Footprint Alignment

Ton	CIAC Footprint（In）L*W
7.5-10(220V)	88-7/16*58-7/8
15-20(220V)	116*62-13/16
25(220V)	141-3/4*86-5/8
20(460V)	116*62-13/16
25(460V)	141-3/4*86-5/8
30(460V)	141-3/4 *86-5/8

Specifications

Model			CP400B-X090DM5N1C	CP400B-X120DM5N1C	CP400B-X180DM5N1C
Nominal ton		(Ton)	7.5	10	15
Power supply		\	220V 3Ph 60HZ	220V 3Ph 60HZ	220V 3Ph 60HZ
Cooling	Cooling capacity	Btu/h	89000	118000	176000
		kW	26.1	34.6	51.6
Min. / Max. Voltage		V	198~242	198~242	198~242
Performance	Rated Airflow (CFM)	CFM	3150	4200	6150
	ESP	Pa	0-350	0-350	0-350
	IEER		21.0	19.5	19.5
Indoor coil	Number of rows	\	3	3	3
	Fin spacing	mm	1.5	1.5	1.5
	Fin type	\	Louvered	Louvered	Louvered
	Tube diameter	mm	7	7	7
	Tube type	\	Aluminum-Grooved	Aluminum-Grooved	Copper-Grooved
Indoor fan	Type / Quantity	\	Centrifugal / 1	Centrifugal / 1	Centrifugal / 1
	Motor type	\	DC	DC	DC
	Motor quantity	\	1	1	1
	Horsepower (HP)		3-1/3	3-1/3	5-2/5
	Airflow Range (CFM)		2250-3375	3000-4500	4500-6750
	Motor speed		0-1600	0-1600	0-1500
Compressor	Type / Quantity	r/min	Rotary/1	Rotary/1	Rotary/2
	Input	\	3550	5480	3550+5480
	Stage	W	Inverter	Inverter	Inverter
	Refrigerant oil		1700	1700	1700+1700
Outdoor coil	Number of rows	ml	2	2	2
	Fin spacing	\	1.5	1.5	1.5
	Fin type	mm	Louvered	Louvered	Louvered
	Tube diameter	\	7	7	7
	Tube type	mm	Copper-Grooved	Copper-Grooved	Copper-Grooved
	Type / Quantity	\	Axial/1	Axial/1	Axial/1
Outdoor fan	Motor type	\	DC	DC	DC
	Horsepower (HP)	\	1-1/4	1-1/4	3-1/10
	Fan speed		1000	1000	750
Refrigerant	Type /	r/min	R410a	R410a	R410a
	Volume	\	5.8	5.8	4.5+4.5
		kg	WDC3-120T2 / 24V Controller	WDC3-120T2 / 24V Controller	WDC3-120T2 / 24V Controller
Wired controller (Optional)		\	TC3-10.1-M / TC3-7	TC3-10.1-M / TC3-7	TC3-10.1-M / TC3-7
Centralized controller (Optional)		\	2246×1242×1496	2246×1242×1496	2946x1246x1596
Dimensions	Net (W×H×D)	mm	2272×1264×1517	2272×1264×1517	2956×1276×1615
	Packing (W×H×D)	mm	14	14	8
	Shipping per STD 40HQ		410	416	613
Weight	Net	k	904	917	1351
		g	453	459	663
	Gross	ib	999	1012	1462
		k	-5~54	-5~54	-5~54
		g	23~129.2	23~129.2	23~129.2
Operation Range	Cooling	ib			
		°C			
		°F			

Note:
1. Nominal ton only for reference. Cooling capacity as per specifications;
2. Cooling capacity test condition: Outdoor ambient temperature: 35°C, indoor temperature: 27°CDB, 19°CWB;
3. ESP: external static pressure;
4. Specifications are subject to change without prior notice for product improvement.

Model			CP400B-X240DM5N1C	CP400B-X300DM5N1C	CP400B-X240DM6N1C
Nominal ton		(Ton)	20	25	20
Power supply		\	220V 3Ph 60HZ	220V 3Ph 60HZ	460V 3Ph 60Hz
Cooling	Cooling capacity	Btu/h	232000	282000	232000
		kW	68.0	82.6	68.0
Min. / Max. Voltage		V	198~242	198~242	414~506
Performance	Rated Airflow (CFM)	CFM	7800	9400	7800
	ESP	Pa	0-350	0-350	0-350
	IEER		18.5	17.0	18.5
Indoor coil	Number of rows	\	4	3	4
	Fin spacing	mm	1.5	1.5	1.5
	Fin type	\	Louvered	Louvered	Louvered
	Tube diameter	mm	7	7	7
	Tube type	\	Copper-Grooved	Copper-Grooved	Copper-Grooved
Indoor fan	Type / Quantity	\	Centrifugal / 1	Centrifugal / 2	Centrifugal / 1
	Motor type	\	DC	DC	ECM
	Motor quantity	\	1	2	1
	Horsepower (HP)		5-2/5	3-1/3	5-2/5
	Airflow Range (CFM)		6000-9000	7050-10600	6000-9000
	Motor speed		0-1500	0-2050	0-1500
Compressor	Type / Quantity	r/min	Scroll / 2	Scroll / 2	Scroll / 2
	Input	\	8520+8520	8520+8520	8520+8520
	Stage	W	Inverter	Inverter	Inverter
	Refrigerant oil		1560+1560	1560+1560	1560+1560
Outdoor coil	Number of rows	ml	3	3	3
	Fin spacing	\	1.5	1.5	1.5
	Fin type	mm	Louvered	Louvered	Louvered
	Tube diameter	\	7	7	7
	Tube type	mm	Copper-Grooved	Copper-Grooved	Copper-Grooved
	Type / Quantity	\	Axial/1	Axial / 2	Axial/1
Outdoor fan	Motor type	\	DC	DC	DC
	Horsepower (HP)	\	3-1/10	1-1/3	3-1/10
	Fan speed		780	870	780
Refrigerant	Type /	r/min	R410a	R410a	R410a
	Volume	\	5.9+5.9	8.7+10.2	5.9+5.9
		kg	WDC3-120T2 / 24V Controller	WDC3-120T2 / 24V Controller	WDC3-120T2 / 24V Controller
Wired controller (Optional)		\	TC3-10.1-M / TC3-7	TC3-10.1-M / TC3-7	TC3-10.1-M / TC3-7
Centralized controller (Optional)		\	2946×1246×1596	3600×1243×2200	2946×1246×1596
Dimensions	Net (W×H×D)	mm	2956×1276×1615	3616×1274×2226	2956×1276×1615
	Packing (W×H×D)	mm	8	6	8
	Shipping per STD 40HQ		676	954	676
Weight	Net	kg	1490	2103	1490
		ib	726	1040	726
	Gross	kg	1601	2293	1601
		ib	-5~54	-5~54	-5~54
		°C	23~129.2	23~129.2	23~129.2
Operation Range	Cooling	°F			

Note:
1. Nominal ton only for reference. Cooling capacity as per specifications;
2. Cooling capacity test condition: Outdoor ambient temperature: 35°C, indoor temperature: 27°CDB, 19°CWB;
3. ESP: external static pressure;
4. Specifications are subject to change without prior notice for product improvement.

Specifications

Model			CP400B-X300DM6N1C	CP400B-X360DM6N1C
Nominal ton		(Ton)	25	30
Power supply		\	460V 3Ph 60Hz	460V 3Ph 60Hz
Cooling	Cooling capacity	Btu/h	282000	332000
		kW	82.6	97.3
Min. / Max. Voltage		V	414~506	414~506
Performance	Rated Airflow (CFM)	CFM	9400	10600
	ESP	Pa	0-350	0-350
	IEER		17.0	17.0
Indoor coil	Number of rows	\	3	3
	Fin spacing	mm	1.5	1.5
	Fin type	\	Louvered	Louvered
	Tube diameter	mm	7	7
	Tube type	\	Copper-Grooved	Copper-Grooved
Indoor fan	Type / Quantity	\	Centrifugal / 2	Centrifugal / 2
	Motor type	\	DC	DC
	Motor quantity	\	2	2
	Horsepower (HP)		3-1/3	3-1/3
	Airflow Range (CFM)		7050-10600	7050-10600
	Motor speed		0~2050	0~2050
Compressor	Type / Quantity	r/min	Scroll / 2	Scroll / 2
	Input	\	8520+8520	9660+9660
	Stage	W	Inverter	Inverter
	Refrigerant oil		1560+1560	1560+1560
Outdoor coil	Number of rows	ml	3	2
	Fin spacing	\	1.5	1.5
	Fin type	mm	Louvered	Louvered
	Tube diameter	\	7	7
	Tube type	mm	Copper-Grooved	Copper-Grooved
	Type / Quantity	\	Axial / 2	Axial / 2
Outdoor fan	Motor type	\	DC	DC
	Horsepower (HP)	\	1-1/3	1-1/3
	Fan speed		870	860
	Type /	r/min	R410a	R410a
Refrigerant	Volume	\	8.7+10.2	9.5+9.5
		kg	WDC3-120T2 / 24V Controller	WDC3-120T2 / 24V Controller
Wired controller (Optional)		\	TC3-10.1-M / TC3-7	TC3-10.1-M / TC3-7
Centralized controller (Optional)		\	3600×1243×2200	3600×1668×2200
Dimensions	Net (W×H×D)	mm	3616×1274×2226	3616×1691×2226
	Packing (W×H×D)	mm	6	3
	Shipping per STD 40HQ		954	1064
Weight	Net	k	2103	2346
		g	1040	1133
	Gross	ib	2293	2498
		k	-5~54	-5~54
		g	23~129.2	23~129.2
Operation Range	Cooling	ib		
		°C		

Note:
1. Nominal ton only for reference. Cooling capacity as per specifications;
2. Cooling capacity test condition: Outdoor ambient temperature: 35°C, indoor temperature: 27°CDB, 19°CWB;
3. ESP: external static pressure;
4. Specifications are subject to change without prior notice for product improvement.