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## Foundation of Digital Future



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# HT Series

**Precision Air Conditioner  
For High Temperature Climate**

# Why Work With Coolnet

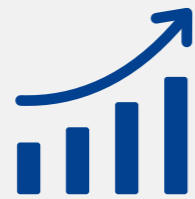
## We are experts of data center thermal management system

We believe the world is being totally connected. The digital connections are creating smart intelligence and a better future.



### Quality

Products designed with heart featuring reliable quality and balanced cost to improve your business margin and performance.



### Speed

A professional team always standby with service spirit and quick response to support your business agility.



### Flexibility

Fully customizable as per your requirements to build your own product solution and boost your own business.

## Certifications

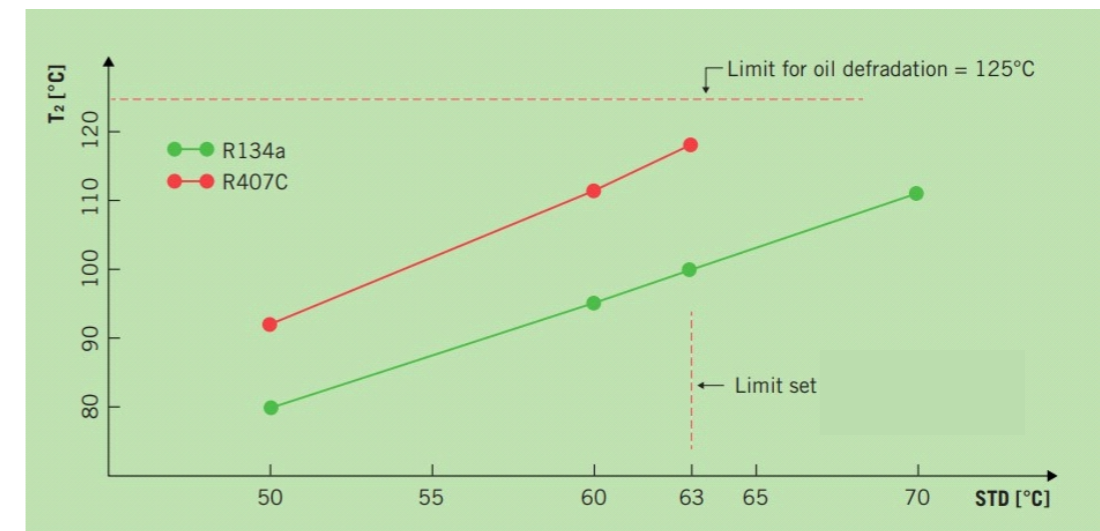


# Coolnet Precision Cooling Platform

## ❄️ Optimized Design Up To 55°C Ambient

### Hot Climate Optimized Refrigeration System

Refrigeration system of hot climate optimized, using R134A to be working at 55°C ambient temperature with high reliability.

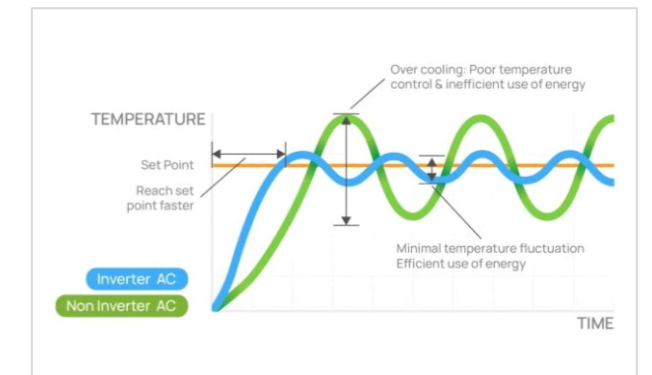
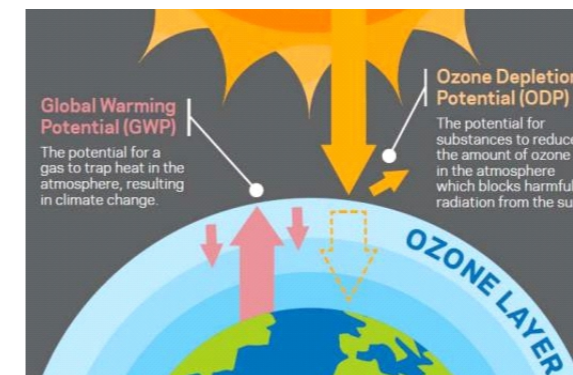


### R134A Refrigerant

Green refrigerant R134A with lower working pressure, zero ODP(ozone depletion potential) effect, and lower GWP(global warming potential) value of 1430.

### Inverter Compressor

Capacity adjustable 30%~100%. Stable working and improved compressor life by Modulating compressor speed, no on/off inrush working mode.



# Coolnet Precision Cooling Platform

# Coolnet Precision Cooling Platform

## ❄️ Top Level Highly Reliable Components



HITACHI



ZIEHL-ABEGG



CAREL



ZIEHL-ABEGG



ZIEHL-ABEGG



CAREL



SCHNEIDER ELECTRIC

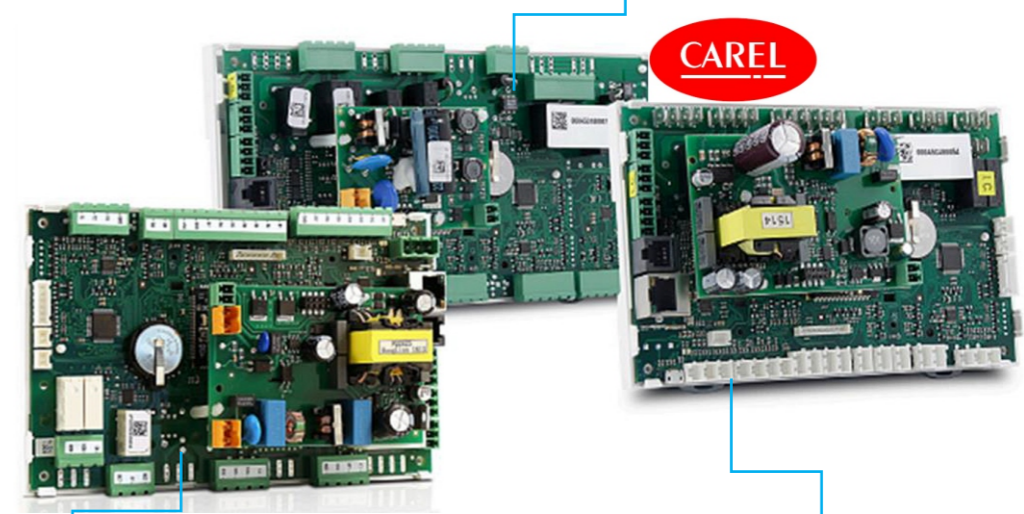


BELIMO

## ❄️ Powerful Intelligent Control System

### Interfaces

- IPS Touch Display
- Web Access
- Remote Monitoring
- Email Alert
- Alarm Contacts
- Team Work



### Sensors

- Pressure Sensor
- \*Filter Sensor
- Water Sensor
- \*Airflow Sensor
- Power Meter
- Fire Panel
- Built-in T&H Sensor
- \*Remote T&H Sensor

### Controls

- Inverter Compressor 30%-100%
- Steam Humidifier DO
- Indoor EC Fan 0%-100%
- PTC Reheater DO
- Electronic Expansion Valve 0%-100%
- \*Condensate Pump DO
- Outdoor EC/Inverter Fan 0%-100%
- \*Solenoid Valve DO

# Coolnet Precision Cooling Platform

## ❄️ Row Based Precision Cooling

Cooling Range: 12.5kW - 60KW

Specially designed and optimized for Modular Data Centers.



## ❄️ Room Type Precision Cooling

Cooling range: 7.5kW - 200KW

Highly reliable computer room air conditioner solutions.

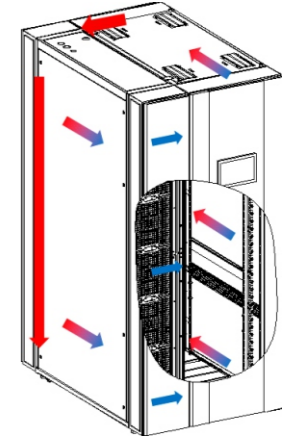


# Coolnet Precision Cooling Platform

Air cooled, row mount, split type, ideal for micro data center, integrated modular data center solutions.

**12.5kW– 60KW**

**300mm | 600mm Width**



- 1** Dynamically modulated cooling capacity with inverter compressor maintains temperature within envelop and prevent compressor from cycling during low heat load period.
- 2** Air flow modulates with EC fans to match IT equipment requirements. Each fan module is easy to change with quick couple connections.
- 3** Precision cooling controller monitors and protects unit constantly. Easy to be integrated into BMS to display, control and manage the system.
- 4** R410A green refrigerant is highly efficient and no ODP.
- 5** Copper piping adopts quick connections and supports bottom and top connections.
- 6** Easy to change G4 air filter and sealed doors help to build a clean and quiet MDC.
- 7** Slide drawer style electric box makes service easier.
- 8** Optional with condensate pump, leaking kit and long piping kit for diverse applications.

# Row Based Precision Cooling

# RoomType Precision Cooling

Technical Data

Product Configuration

Indoor Unit	CRA-012	CRA-025	CRA-030
Mount Type	Row	Row	Row
Cooling Type	Inverter DX	Inverter DX	Inverter DX
Refrigerant Type	R134A	R134A	R134A
Total Cooling-kW	12.8	25.1	31.1
SHR-%	100	100	100
Air Volume-m <sup>3</sup> /h	2400	5000	5800
Fan Type	EC	EC	EC
Reheat – kW	3.0	6.0	6.0
Heater Type	PTC	PTC	PTC
Humidification -kg/h	1.5	1.5	3
Humidifier Type	Electrode	Electrode	Electrode
Filter Rating	G4	G4	G4
Height -mm	2000	2000	2000
Depth -mm	1100	1100	1100
Width -mm	300	300	300
Weight – kg	233	260	320
Power Input <sup>1)</sup>	208-240V/50-60Hz /1-2Ph	208-230V/50-60Hz/3Ph	208-230V/50-60Hz/3Ph
FLA-A <sup>1)</sup> cooling only	21.0	34.5	41.7
FLA-A <sup>1)</sup> with heater & hum	34.9	51.2	58.4
Power Input <sup>2)</sup>	380-415V/50-60Hz/3Ph	380-415V/50-60Hz/3Ph	380-415V/50-60Hz/3Ph
FLA-A <sup>2)</sup> cooling only	13.9	20.9	25.0
FLA-A <sup>2)</sup> with heater & hum	19.7	30.0	34.1
Power Input <sup>3)</sup>	460V/60Hz/3Ph	460V/60Hz/3Ph	460V/60Hz/3Ph
FLA-A <sup>3)</sup> cooling only	12.6	18.0	21.5
FLA-A <sup>3)</sup> with heater & hum	18.4	25.6	29.0
<b>Standard Outdoor Unit</b>			
Unit Model	CY18T	CY38T	CY42T
Unit Qty	1	1	1

Notes:

1. Air flow is based upon standard fan speed setting. Fan modulates per real loads.
2. Cooling Capacity based on 37°C/24%RH return air and 45°C condensing temperature.
3. FLA of indoor unit includes FLA of outdoor unit, and outdoor unit power connected from indoor unit.
4. SNMP monitoring port, dual power input, and leaking detection are optional.
5. Standard unit works -15°C above outdoor temperature, select low temperature kit to run for -35°C outdoor ambient temperature.



- 1 Highly reliable scroll compressor
- 2 Industry leading brands EC fan
- 3 Intelligent industry-leading controller with color touch screen. Supports BMS integration, teamwork and master/slave working policy.
- 4 A large area of high-efficiency heat exchanger
- 5 Industry-leading brands thermostatic expansion valve/electronic expansion valve
- 2 A large area air filtration system closed to heat exchanger
- 3 Highly efficient electrode humidifier
- 4 Modular design of cabinet can easily achieve secondary disassembly

# Room Type Precision Cooling

Product Configuration

## -Downflow



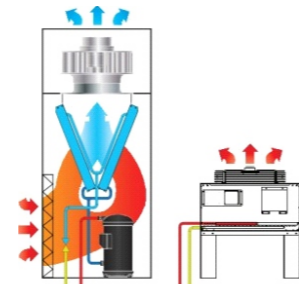
## -Upflow



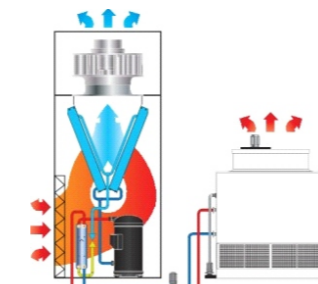
## -Options

- Long Piping Kit
- Low-temperature Kit
- Water Leaking Kit
- RS485 / SNMP Network Monitoring Card
- Automatic Phase Switching Module
- Lightning Protection Module
- High-power Electric Heating System
- Large Color Display
- Remote Temperature and Humidity Sensor
- Ultra-quiet Air-cooled Outdoor Condenser

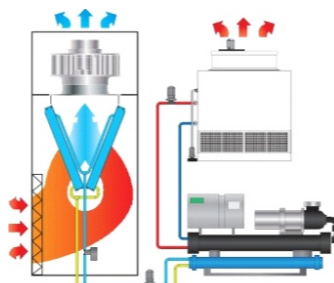
## Cooling Type



Air-cooled



Water-cooled



Chilled Water

# RoomType Precision Cooling

Technical Data

Indoor Unit	M08	M13	M17	M20
Mount Type	Room	Room	Room	Room
Cooling Type	Inverter DX	Inverter DX	Inverter DX	Inverter DX
Refrigerant Type	R134A	R134A	R134A	R134A
Cooling Capacity -kW	7.5	12.5	17.5	21.2
Sensible Capacity -kW	6.8	11.3	15.9	19.1
SHR-%	90.7	90.4	90.9	90.1
Air Volume-m <sup>3</sup> /h	2250	2850	5000	6200
Fan Type	EC	EC	EC	EC
Heating Capacity-kW	3	4	6	6
Heating Type	PTC	PTC	PTC	PTC
Hum. Capacity -kg/h	2.5	4	4.5	4.5
Humidifier Type	Electrode	Electrode	Electrode	Electrode
Filter Rating	G3	G3	G4	G4
Weight -kg	128	178	300	318
Width -mm	550	650	750	750
Depth -mm	450	550	700	700
Height -mm	1750	1850	1900	1900
Power Input <sup>1)</sup>	208-240V/50-60Hz /1-2Ph	208-240V/60Hz /1-2Ph	208-230V/60Hz /3Ph	208-230V/60Hz /3Ph
FLA-A <sup>1)</sup> cooling only	14.7	23.1	30.5	31.4
FLA-A <sup>1)</sup> with heater & hum	26.3	30.5	47.2	48.0
Power Input <sup>2)</sup>	380-415V/50-60Hz /3Ph	380-415V/50-60Hz /3Ph	380-415V/50-60Hz /3Ph	380-415V/50-60Hz /3Ph
FLA-A <sup>2)</sup> cooling only	—	12.7	16.8	17.3
FLA-A <sup>2)</sup> with heater & hum	—	24.3	25.9	26.4
Power Input <sup>3)</sup>	460V/60Hz/3Ph	460V/60Hz/3Ph	460V/60Hz/3Ph	460V/60Hz/3Ph
FLA-A <sup>3)</sup> cooling only	—	10.5	13.9	14.3
FLA-A <sup>3)</sup> with heater & hum	—	20.0	21.4	21.8
Ref. Pipe Connection -mm	10/12	12/16	16/16	16/16
Drain Connection -mm	20	20	20	20
Water In Connection	3/4"G	3/4"G	3/4"G	3/4"G
Single/Dual	Single	Single	Single	Single
<b>Standard Outdoor Unit</b>				
Unit Model	CY12T	CY18T	CY24T	CY32T
Unit Qty	1	1	1	1

Notes:  
 1. Capacity based on 24C/50%RH return air conditions, and 45C condensing temperature.  
 2. The standard ESP 20Pa. Higher application shall refer to technical department for confirmation.  
 3. FLA of indoor unit includes FLA of outdoor unit, and outdoor unit power connected from indoor unit.  
 4. Standard air-cooled outdoor unit operating temperature range -20C above, optional operating temperature range of the components -35C with low Temperature kit.  
 5. The system is based upon R134a refrigerant and the maximum ambient temperature can be 55C.

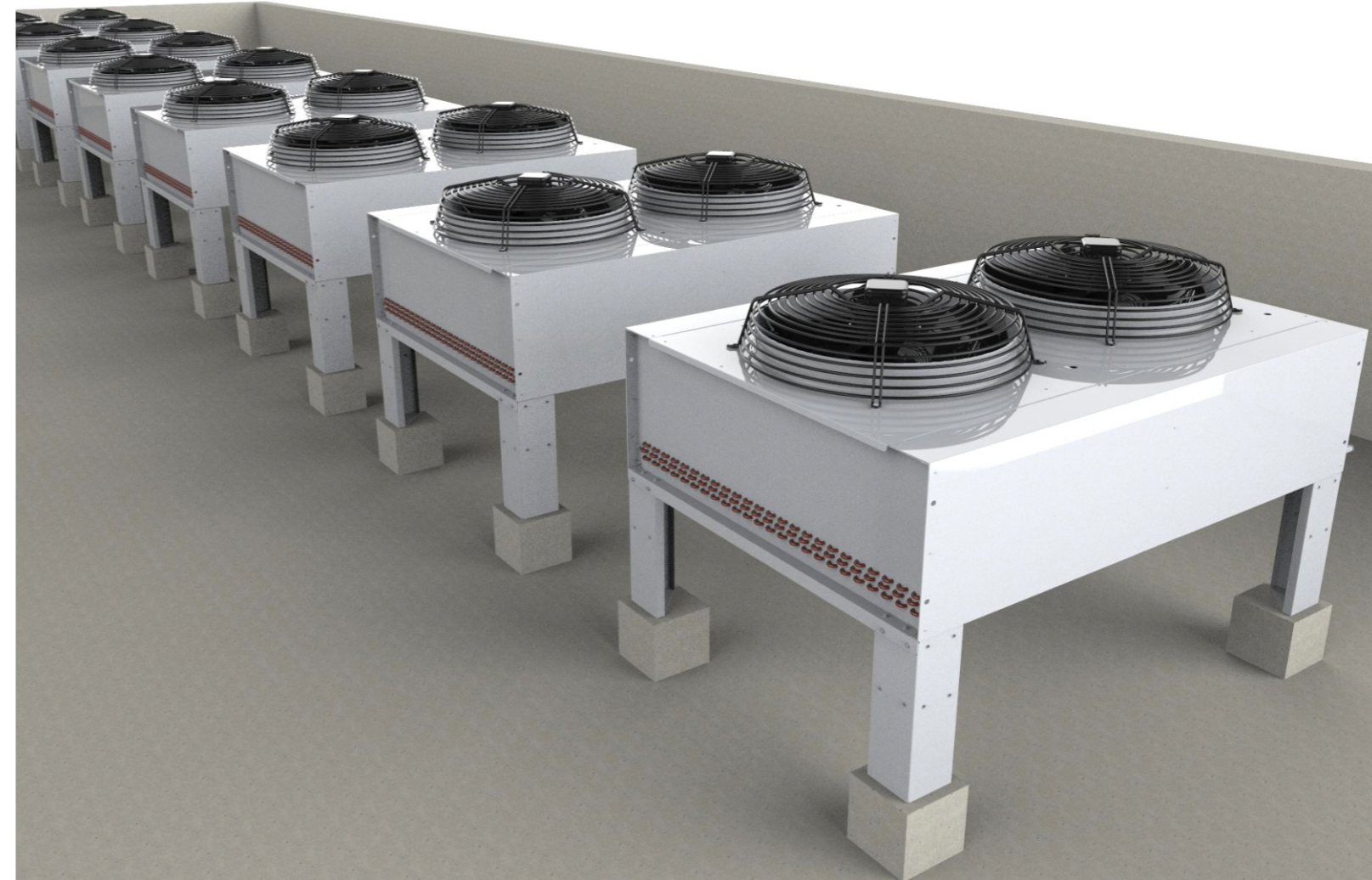
# Room Type Precision Cooling

Technical Data

Indoor Unit	S26	S31	S35	T41	T55	T61	T70
Mount Type	Room	Room	Room	Room	Room	Room	Room
Cooling Type	Inverter DX						
Refrigerant Type	R134A	R134A	R134A	R134A	R134A	R134A	R134A
Cooling Capacity -kW	27.5	32.5	37.7	43.5	53.1	65.1	71.1
Sensible Capacity -kW	25	29.3	34	39.2	47.8	58.8	64
SHR-%	90.9	90.2	90.2	90.1	90.2	90.3	90.0
Air Volume-m <sup>3</sup> /h	6700	8325	8620	10500	12400	16650	17240
Fan Type	EC	EC	EC	EC	EC	EC	EC
Heating Capacity-kW	6	6	6	9	9	9	9
Heating Type	PTC	PTC	PTC	PTC	PTC	PTC	PTC
Hum. Capacity -kg/h	5	8	8	10	10	10	10
Humidifier Type	Electrode						
Filter Rating	G4	G4	G4	G4	G4	G4	G4
Weight -kg	338	433	438	478	568	688	718
Width -mm	850	1126	1126	1326	1326	1826	1826
Depth -mm	700	990	990	990	990	990	990
Height -mm	1900	1975	1975	1975	1975	1975	1975
Power Input <sup>1)</sup>	208-230V/60Hz/3Ph						
FLA-A1) cooling only	38.7	49.1	51.4	64.2	74.6	98.2	98.7
FLA-A1) with heater & hum	55.3	65.8	68.0	89.2	99.6	123.2	123.7
Power Input <sup>2)</sup>	380-415V/50-60Hz/3Ph						
FLA-A2) cooling only	21.3	27.1	28.3	35.4	41.2	54.1	54.4
FLA-A2) with heater & hum	30.4	36.2	37.4	49.1	54.9	67.8	68.1
Power Input <sup>3)</sup>	460V/60Hz/3Ph						
FLA-A3) cooling only	17.6	22.4	23.4	29.3	34.0	44.7	45.0
FLA-A3) with heater & hum	25.1	29.9	30.9	40.6	45.3	56.0	56.3
Ref. Pipe Connection -mm	16/22	16/22	16/22	16/22	16/22	16/22	16/22
Drain Connection -mm	20	20	20	20	20	20	20
Water In Connection	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G
Single/Dual	Single	Single	Single	Dual	Dual	Dual	Dual
<b>Standard Outdoor Unit</b>							
Unit Model	CY32T	CY38T	CY52T	CY32T	CY38T	CY38T	CY52T
Unit Qty	1	1	1	2	2	2	2

Notes:  
 1. Capacity based on 24C/50%RH return air conditions, and 45C condensing temperature.  
 2. The standard ESP 20Pa. Higher application shall refer to technical department for confirmation.  
 3. FLA of indoor unit includes FLA of outdoor unit, and outdoor unit power connected from indoor unit.  
 4. Standard air-cooled outdoor unit operating temperature range -20C above, optional operating temperature range of the components -35C with low Temperature kit.  
 5. The system is based upon R134a refrigerant and the maximum ambient temperature can be 55C.

# Air Cooled Condenser

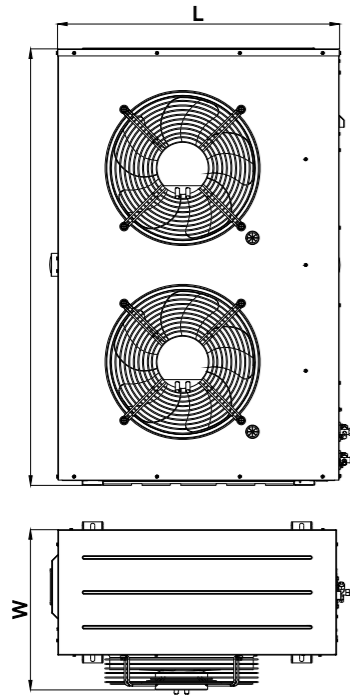


## Key Configurations

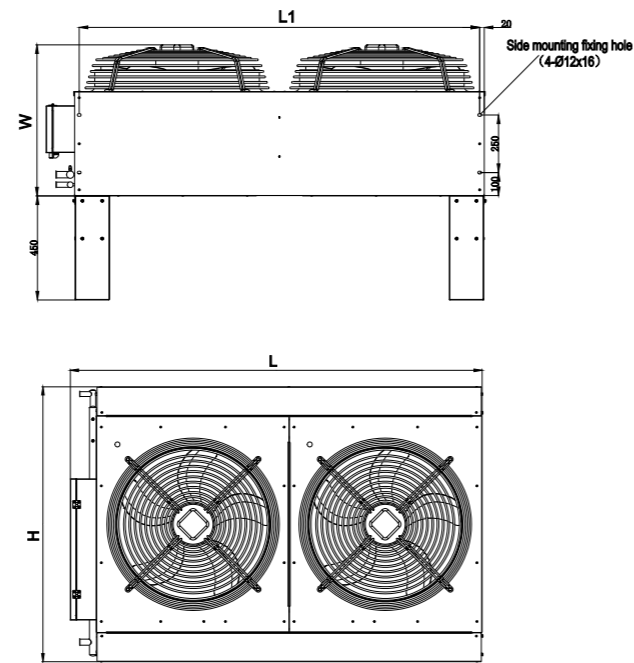
- EC Fan Stepless Speed Adjusting
- Standard Quick Connector
- Efficient Finned with Heat Transfer Enhancement
- Inverter Driven Fan Stepless Speed Adjusting
- Internally Threaded Piping
- High-quality Anti-corrosion Coating
- Protective Structure for Piping Headers
- IP55 Waterproof Electrical Box
- Internally Threaded Piping
- High-quality Anti-corrosion Coating
- IP55 Waterproof Electrical Box

# Air Cooled Condenser

# One-stop Provider of Precision Cooling



CY08T-CY18T

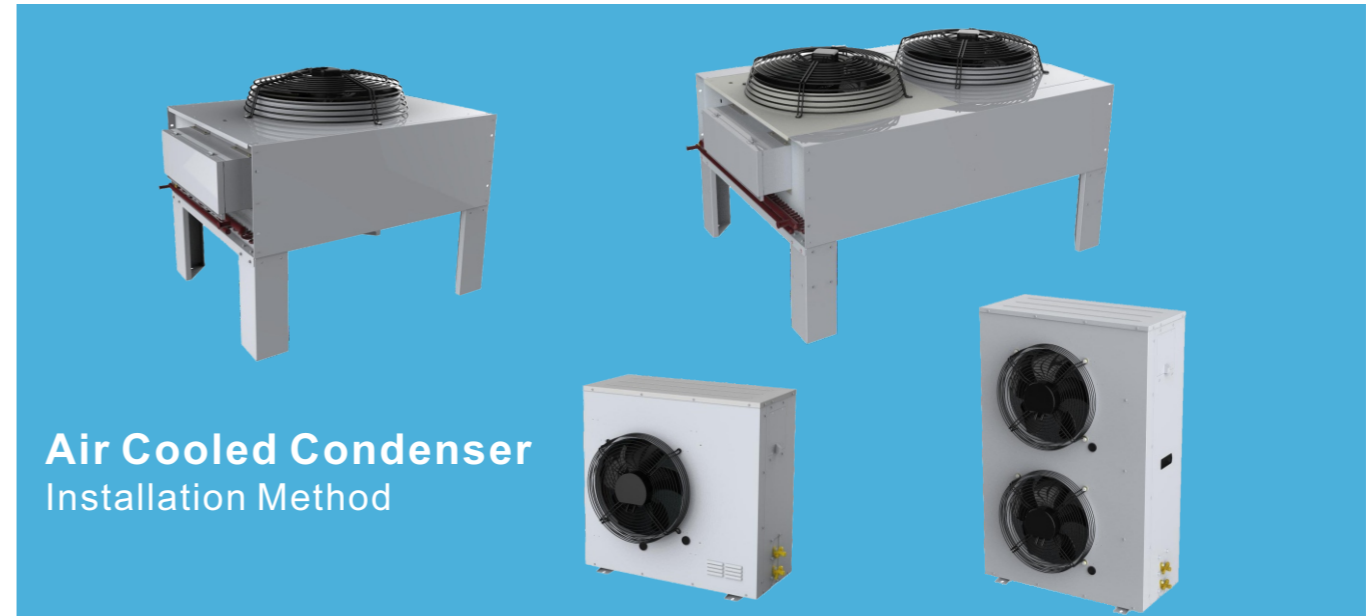


CY24T-CY85T

## Technical Data

Model	CY08T	CY12T	CY18T	CY24T	CY32T	CY38T	CY42T	CY52T	CY62T	CY70T	CY76T	CY85T
Fan Quantity	1	1	2	1	1	1	1	1	2	2	2	2
Weight -kg	28	40	67	105	110	120	130	140	150	150	220	230
Height-mm	790	790	1240	990	990	990	1273	1273	1273	1273	1273	1273
Length-mm	800	800	800	1407	1407	1407	1607	1607	1907	1907	2407	2407
Width -mm	420	420	420	689	689	695	695	695	689	689	695	695
Leg Height	—	—	—	450	450	450	450	450	450	450	450	450
Power Input <sup>1)</sup>	280-240V/50-60Hz /1-2P						380-415V/50-60Hz /3Ph					
FLA-A <sup>1)</sup>	1.5	1.5	3.0	2.0	2.0	2.8	2.8	2.8	4.0	4.0	5.6	5.6
Power Input <sup>2)</sup>	460V/50-60Hz/3Ph											
FLA-A <sup>2)</sup>	—	—	—	1.7	1.7	2.4	2.4	2.4	3.3	3.3	4.8	4.8
Piping Connection-mm	10/12	10/12	12/16	16/22	16/22	16/22	16/22	22/28	22/28	22/28	22/28	22/28

Notes:  
 1. CY08T-CY18T is vertical installation. CY24T and above is horizontal/vertical adaptive.  
 2. Condenser by default is connected with power input from Indoor unit.



Air Cooled Condenser Installation Method

## Multiple Cooling System



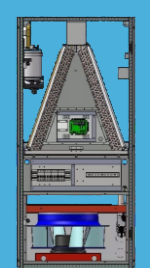
Row Split DX Type



Row CW Type



Room Split DX Type



Room CW Type

## Various Air Flow Type



Front Flow



Up-front Flow



Down Flow



UP Flow