



**Anhui Coolnet Data Power Co.,LTD**

Add:Building F1, Xingmengyuan Mansion, High-tech Zone, Hefei City, Anhui Province, China  
Tel: +86-0551-65568275 Fax:+86-0551-65568275  
Website: [www.coolnetpower.com](http://www.coolnetpower.com)

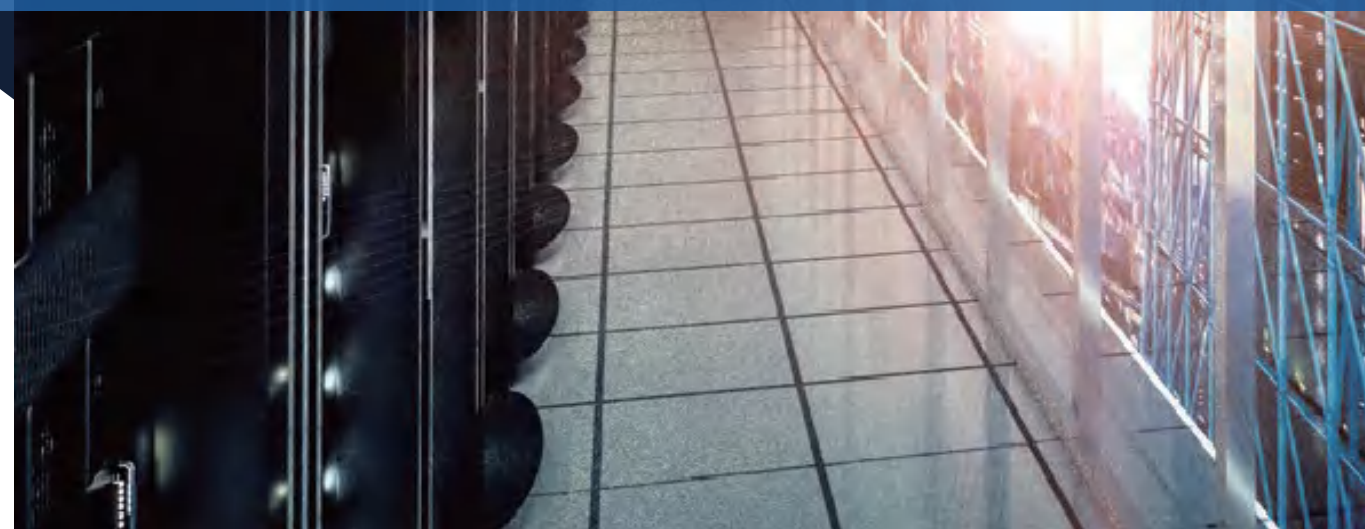
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**HT SERIES**  
Precision Air Conditioner  
For High Temperature Climate



# HT SERIES

Precision Air Conditioner For High Temperature Climate



## COMPANY PROFILE

Coolnet focuses on the R&D, production, and application of data center integrated solutions. As technical consulting, product supply, system integrator, and service provider, it is committed to serving customers in the fields of communication equipment rooms, data centers, smart construction, and energy management.

Our solutions include data center temperature, humidity, and energy-saving solutions, small and medium-sized computer room temperature control solutions, micro-module data center solutions, micro-module cabinet solutions, container, and modular data center solutions, communication outdoor cabinet temperature control and energy saving Solutions, cabinet temperature and humidity, and energy-saving solutions.

Has rich research and manufacturing experience in the field of data center equipment, with world-class laboratories, production testing equipment, and a complete line of key equipment rooms. And passed the ISO9001 quality management system certification, ISO14001 environmental management system certification, and the products have passed CE certification, CCC certification, CQC certification, CRAA quality certification, etc.

We are committed to "paying attention to customer needs and realizing customer value" and establishing a win-win cooperation pattern with customers. To become your most trustworthy, most grateful, most professional, most practical, and most reliable partner with the best vision. We will "make every effort to provide value for money products and services to make customers more competitive", and continue to explore and innovate.





# 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

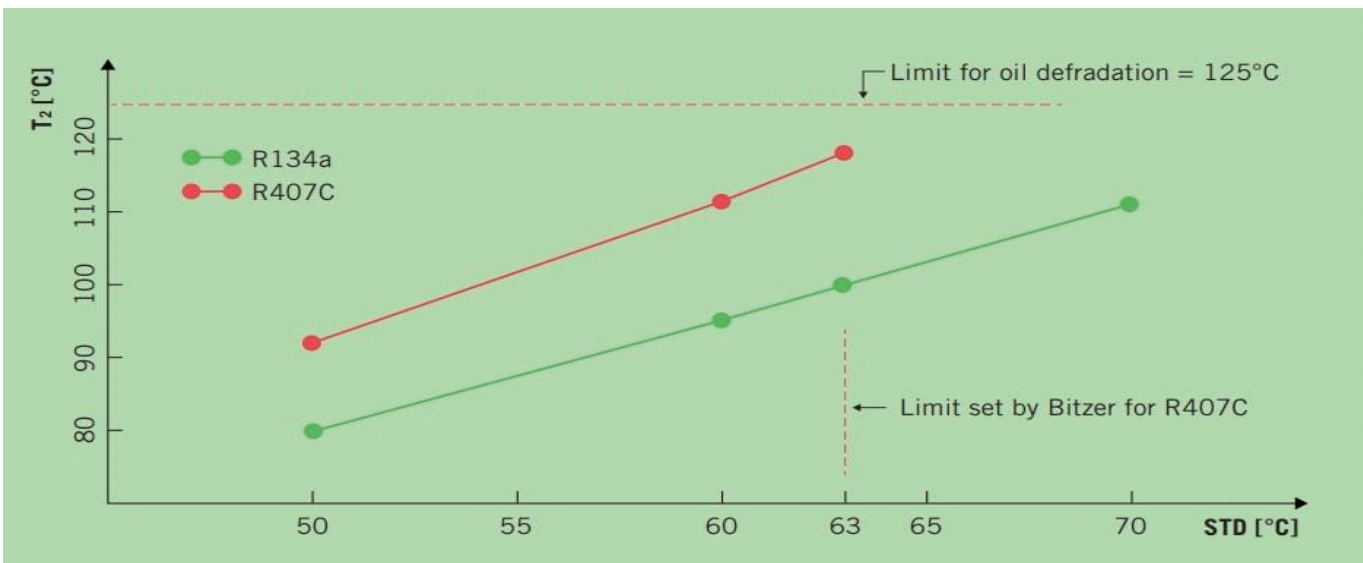
A professional team always standby with service spirit and quick response to support your business agility.

## Certifications



# COOLNET PRECISION COOLING PLATFORM

## Optimized Design Up To 55℃ Ambient



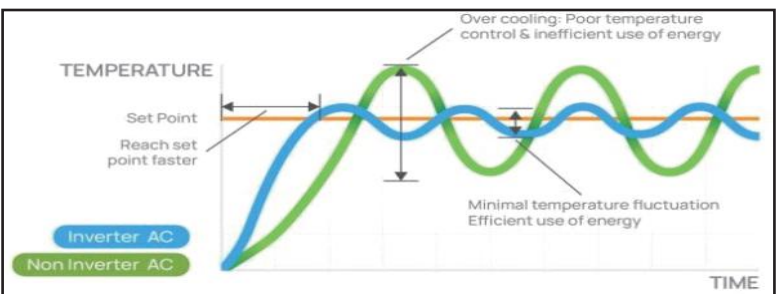
### Hot Climate Optimized Refrigeration System

Refrigeration system of hot climate optimized, using R134A to be working at 55℃ 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

Top Level Highly Reliable Components



HITACH



ZIEHL-ABEGG



CAREL



ZIEHL-ABEGG



ZIEHL-ABEGG



CAREL



SCHNEIDER ELECTRIC



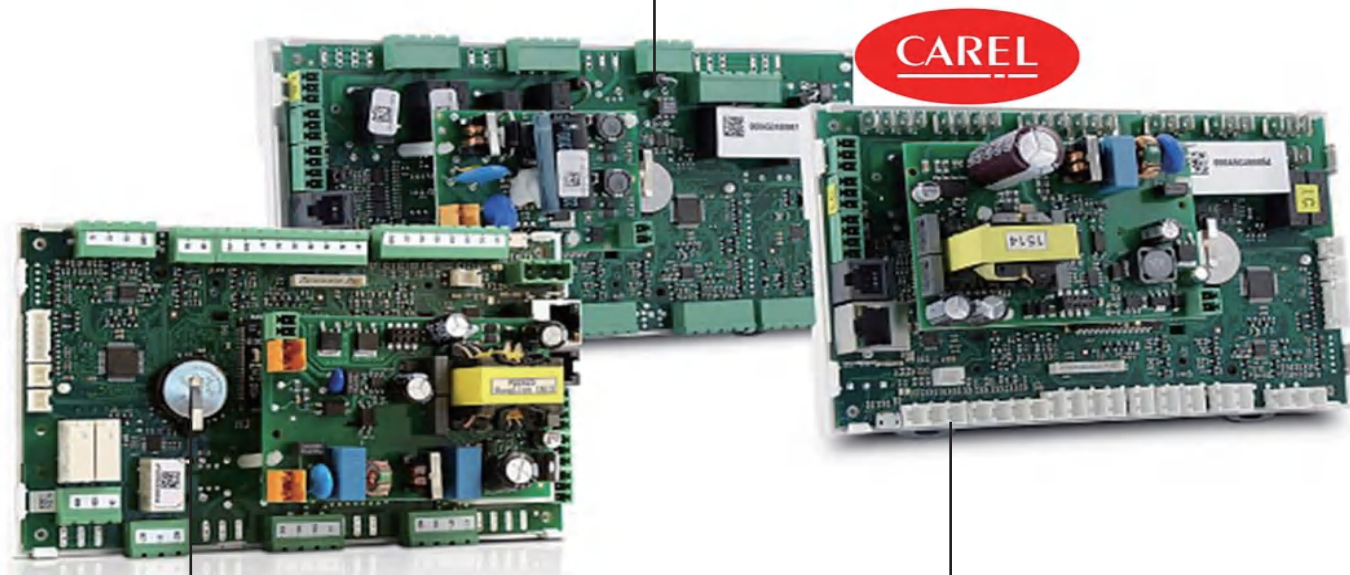
BELIMO

# COOLNET PRECISION COOLING PLATFORM

Powerful Intelligent Control System

## Interfaces

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



## Sensors

- Touch Display
- Filter Sensor
- Water Sensor
- Airflow Sensor
- Power Meter
- Fire Panel
- Built-in T&H Sensor
- Remote T&H Sensor

## Controls

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

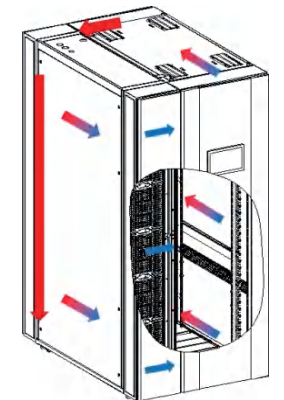


## COOLNET PRECISION COOLING PLATFORM

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

## Technical Data

Indoor Unit	CRA-012	CRA-025	CRA-030
Mount Type	Row		
Cooling Type	Inverter DX		
Refrigerant Type	R134A		
Total Cooling-kW	12.8	25.1	31.1
SHR-%	100	100	100
Air Volume-m³/h	2400	5000	5800
Fan Type	EC	EC	EC
Reheat-kW	3	6	6
Heater Type	PTC		
Humidification-kg/h	1.5	1.5	3
Humidifier Type	Electrode		
Filter Rating	G4		
Height-mm	2000	2000	2000
Depth-mm	1100		
Width-mm	300	300	300
Weight-kg	233	260	320
Power Input¹ )	208-240V/50-60Hz /1-2Ph	208-230V/50-60Hz/3Ph	208-230V/50 60Hz/3Ph
FLA-A1)cooling only	21	34.5	41.7
FLA-A¹)with heater&hum	34.9	51.2	58.4
Power Input²)	380-415V/50 60Hz/3Ph	380-415V/50 60Hz/3Ph	380-415V/50 60Hz/3Ph
FLA-A²)cooling only	13.9	20.9	25.0
FLA-A2)with heater &hum	19.7	30	34.1
Power Input³)	460V/60Hz/3Ph	460V/60Hz/3Ph	460V/60Hz/3Ph
FLA-A3)cooling only	12.6	18	21.5
FLA-A³)with heater&hum	18.4	25.6	29.0
Standard Outdoor Unit			
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 fromindoorunit.  
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 -35C outdoor ambient temperature.

# ROOMTYPE PRECISION COOLING

## Product Configuration

- 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
- 6
- A large area air filtration system closed to heat exchanger
- 7
- Highly efficient electrode humidifier
- 8
- Modular design of cabinet can easily achieve secondary disassembly

# ROOM TYPE PRECISION COOLING

## Product Configuration

### -Downflow



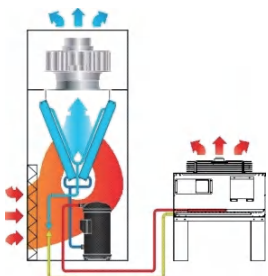
### -Upflow



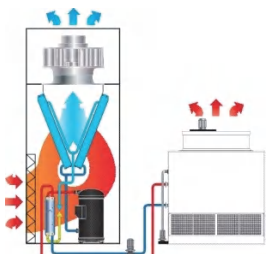
### -Options

- 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

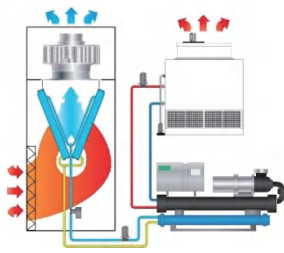
### Cooling Type



Air-cooled



Water-cooled



Chilled Water

# ROOMTYPE PRECISION COOLING

## Technical Date

Indoor Unitt	M08	M13	M17	M20
Mount Type	Room			
Cooling Type	Inverter DX			
Refrigerant Type	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-m³/h	2250	2850	5000	6200
Fan Type	EC			
Heating Capacity-kW	3	4	6	6
Heating Type	PTC			
Hum.Capacity-kg/h	2.5	4	4.5	4.5
Humidifier Type	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 Input¹)	208-240V/50-60Hz	208-240V/60Hz	208-230V/60Hz	208-230V/60Hz
FLA-A1)cooling only	14.7	23.1	30.5	31.4
FLA-A1)with heater&hum	26.3	30.5	47.2	48.0
Power Input²)	—	380-415V/50-60Hz	380-415V/50-60Hz	380-415V/50-60Hz
FLA-A2)cooling only	—	12.7	16.8	17.3
FLA-A2)with heater &hum	—	24.3	25.9	26.4
Power Input³)	—	460V/60Hz/3Ph	460V/60Hz/3Ph	460V/60Hz/3Ph
FLA-A3)cooling only	—	10.5	13.9	14.3
FLA-A3)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			
Single/Dual	Single	Single	Single	Single
Standard Outdoor Unit				
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



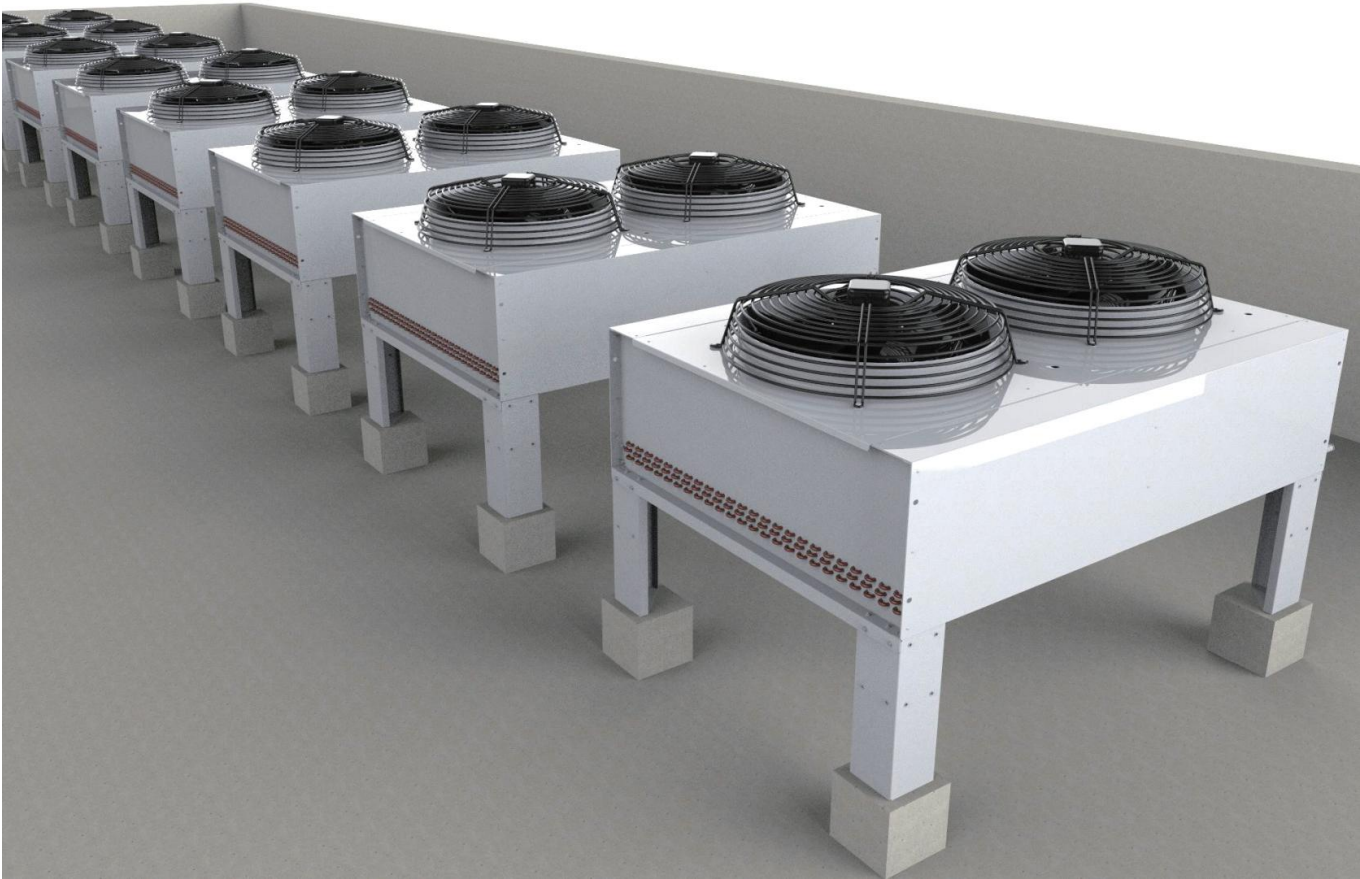
# ROOM TYPE PRECISION COOLING

## Technical Date

Indoor Unit	S26	S31	S35	T41	T55	T61	T70
Mount Type	Room						
Cooling Type	Inverter DX						
Refrigerant Type	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
Air Volume-m³/h	6700	8325	8620	10500	12400	16650	17240
Fan Type	EC						
Heating Capacity-kW	6	6	6	9	9	9	9
Heating Type	PTC						
Hum.Capacity-kg/h	5	8	8	10	10	10	10
Humidifier Type	Electrode						
Filter Rating	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 Input1)	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	89.2	99.6	123.2	123.7
Power Input²)	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 Input³)	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	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
Standard Outdoor Unit							
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

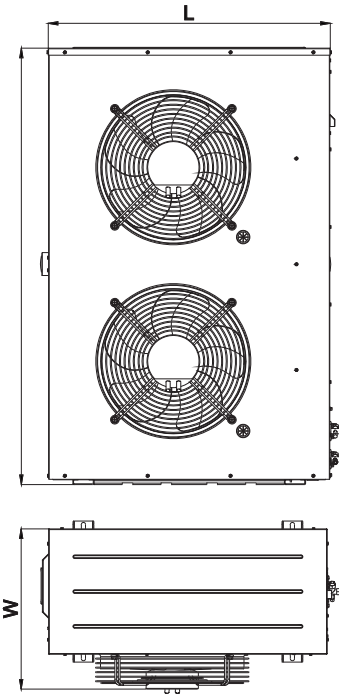


## Key Configurations

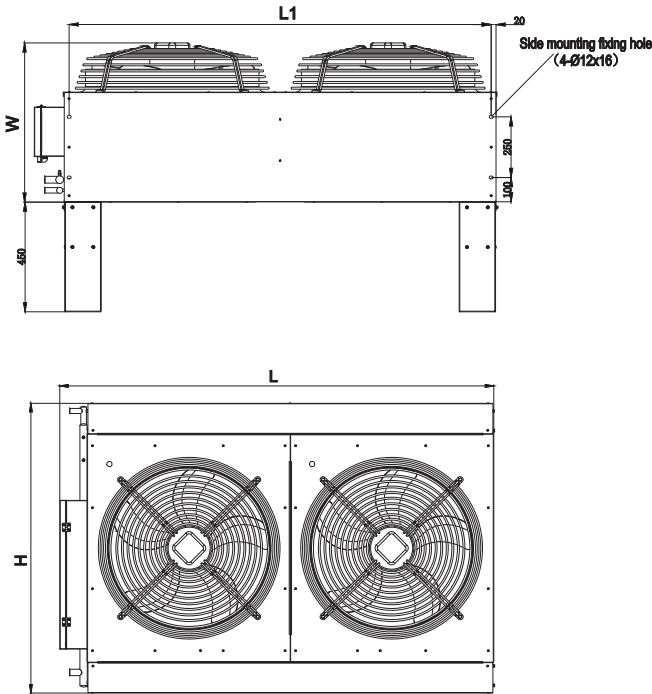
- EC Fan Stepless Speed Adjusting
  - Standard Quick Connector
  - Efficient Finned with Heat Transfer Enhancement
  - Inverter Drived Fan Stepless Speed Adjusting
  - Internally Threaded Piping
- High-quality Anti-corrosion Coating
  - Protective Structure for Piping Headers
  - IP55 Waterproof Electrical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



AIR COOLED CONDENSER



CY08T-CY18T



CY24T-CY85T

Technical Date

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

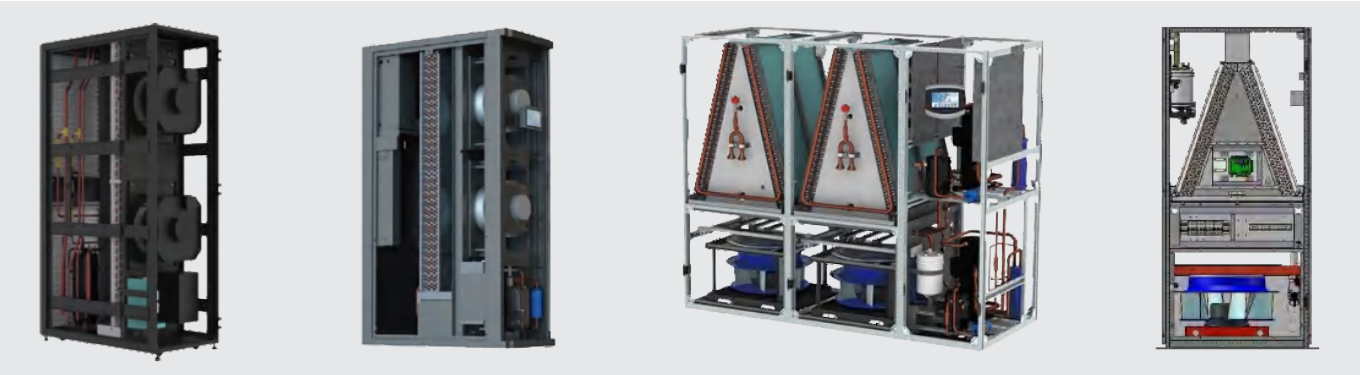
ONE-STOP PROVIDER OF PRECISION COOLING

Air Cooled Condenser

Installation Method



Multiple Cooling Sysytem



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