



# UNIVERSAL AIR®

Air Conditioner Product Catalogue



2024  
2025



## Quality Superiority



Universal Air has established a strict and scientific quality management system with supplier quality assurance, incoming quality control, process quality control and final quality control to ensure the quality of the products.
































# LIGHT COMMERCIAL AIR CONDITIONER



# Contents

## Light Commercial

Type / Cap. Btu/h		18,000	24,000	30,000	36,000	48,000	60,000
Inverter	Round-way Cassette						
	Medium ESP Duct						
	Outdoor Unit						
ON/OFF	Round-way Cassette						
	Medium ESP Duct						
	Outdoor Unit						

# R410A 60Hz Inverter Outdoor Unit



18k Btu/h



24/36k Btu/h



48k Btu/h



60k Btu/h

## Features



### Integrated PCB Tropical

- Electronic control integration  
The main PCB, IPM and PFC are integrated together in order to improve the capability of anti-interference and the efficiency of signal transmission.
- Refrigerant cooling technology  
Use refrigerant cooling technology to cool down the IPM PCB, keep it running in a safety condition to achieve the safe and stable operation of the whole system.



### Tropical Compressor

- Advanced tropical scroll compressor, achieve high efficiency.
- The unit operating temperature up to 55°C.



### Easy Maintenance

- External globe valve and wiring port make it easier for installation and maintenance.



## Specification

### Heat Pump



Outdoor unit		UAON18H-O-CAR24	UAON24H-O-CAR24	UAON36H-O-CAR24	UAON48H-O-CAR24	UAON60H-O-CAR24
Power supply	V/PH/Hz	230/1/60	230/1/60	230/1/60	230/1/60	230/1/60
Air flow volume	m <sup>3</sup> /h	3000	4200	6100	6100	6100
Noise level	dB(A)	56	58	60	60	60
Dimension (WxHxD)	mm	927x700x333	1015x810x445	1015x810x445	966x1430x450	966x1430x450
Packing dimension(WxHxD)	mm	980x760x380	1065x865x485	1065x865x485	1095x1545x485	1095x1545x485
Net/Gross weight	kg	51/57	67/72	72/77	108/117	124/138
Liquid side/Gas side	mm	Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05
Max. pipe length	m	25	25	30	50	50
Max. height difference	m	15	15	20	30	30
Ambient temp.	°C	-7~55	-7~55	-7~55	-7~55	-7~55

### Note

- 1.The cooling condition: T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB;T3 condition: indoor side 29°C(84.2°F)DB, 19°C(60°F) WB, outdoor side 46°C(114.8°F)DB.
2. The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB;
- 3.Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4.The above data may be changed without notice for future improvement on quality and performance.
5. All BTU Capacity are Nominal Capacity.

# Indoor Unit

## Inverter Specification

Cassette



Model			UACSS18C-I-CAR24	UACSS24C-I-CAR24	UACSS36C-I-CAR24	UACSS48C-I-CAR24
Power supply	V/PH/Hz		230/1/60	230/1/60	230/1/60	230/1/60
Cooling	Capacity (T1/T3)	K Btu/h	17(9-20)/15(7.5-16)	22(10-26)/20(8-22)	29.6(20-38.1)/26.2(19-30.1)	40.2(15-48)/34.4(11-43)
	EER(T1/T3)	(Btu/h)/W	11.8/8.5	11.8/8.5	11.8/8.5	11.8/8.5
Heating	Capacity	W	6000	7000	9750	16000
	COP	W/W	4.00	3.85	3.75	3.35
Indoor air flow(Hi/Mi/Lo)	m³/h		900/750/600	1300/1100/850	1700/1500/1300	2000/1800/1600
Indoor noise level(Hi/Mi/Lo)	dB(A)		38-46	44-51	46-52	46-52
Indoor Unit	Net(WxHxD)	Body(mm)	840x230x840	840x230x840	840x285x840	840x285x840
		Panel(mm)	950x40x950	950x40x950	950x40x950	950x40x950
	Packing(WxHxD)	Body(mm)	920x265x920	920x265x920	920x310x920	920x310x920
		Panel(mm)	1030x100x1030	1030x100x1030	1030x100x1030	1030x100x1030
	Net/Gross weight	Body(kg)	24/29	24/29	29/35	29/35
		Panel(kg)	6.5/9.5	6.5/9.5	6.5/9.5	6.5/9.5
Refrigerant liquid/gas pipe	mm		Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ19.05	Φ9.52/Φ19.05

Duct Unit



Model			UAICON18H-I-CAR24	UAICON24H-I-CAR24	UAICON36H-I-CAR24	UAICON48H-I-CAR24	UAICON60H-I-CAR24
Power supply	V/PH/Hz		230/1/60	230/1/60	230/1/60	230/1/60	230/1/60
Cooling	Capacity (T1/T3)	K Btu/h	18(9-20)/16(8-17)	22(10-25)/18.5(7.5-22)	31.6(22.4-38.6)/29.2(19-30.6)	43.8(17-51)/39.4(14-45)	54.0(20-57)/49.0(18-50)
	EER(T1/T3)	(Btu/h)/W	11.8/8.5	11.8/8.5	11.8/8.5	11.8/8.5	11.8/8.5
Heating	Capacity	W	6000	7000	9850	15800	16000
	COP	W/W	3.85	3.65	3.75	3.70	3.70
Indoor air low(Hi/Mi/Lo)	m³/h		1000/850/700	1300/1100/850	2000/1800/1600	2000/1800/1600	3000/2700/2400
Indoor noise level(Hi/Mi/Lo)	dB(A)		36-42	40-46	38-45	42-47	46-54
Indoor Unit	Net(WxHxD)	mm	1190x643x260	1190x643x260	1279x830x307	1279x830x307	1536x867x441
	Packing(WxHxD)	mm	1255x720x325	1255x720x325	1395x920x380	1395x920x380	1615x920x515
	Net/Gross weight	kg	32/36	32/36	47/54	49/56	76/87
Refrigerant liquid/gas pipe	mm		Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05
Drainage pipe	mm		25	25	25	25	25
Static Pressure	Pa		25-60	25-60	37-80	50-100	50-100

### Note

- The cooling condition: T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB; T3 condition: indoor side 29°C(84.2°F)DB, 19°C(60°F) WB, outdoor side 46°C(114.8°F)DB.
- The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB;
- Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- The above data may be changed without notice for future improvement on quality and performance.
- All BTU Capacity are Nominal Capacity.

# R410A 60Hz

## High Efficiency Outdoor Unit



18k Btu/h



24/30/36k Btu/h



48k Btu/h



60k Btu/h

## Features



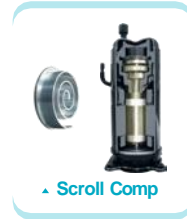
### Certificate

- SASO certificate for 60Hz production, SEER up to 12.4.
- G-mark certificate, safety and reliability.



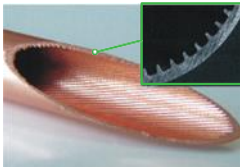
### Tropical Compressor

- Advanced tropical scroll compressor, achieve high efficiency.
- The unit operating temperature up to 55°C



### High Efficiency Heat Exchanger

- Inner-grooved tube and hydrophilic aluminum, enhance the heat exchanger efficiency.



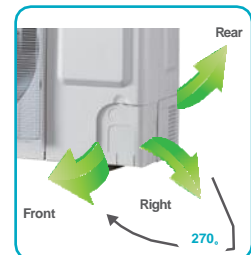
### Multi Protection

- High/low pressure protection
- High temperature protection
- Over heat protection, etc.



### Convenient Installation

- Multi-direction piping connection meets different requirement, convenient installation.



# • Cassette

Controller



18-60k Btu/h



Wireless  
(Standard)

Wired  
(Standard)





# Features

 Digital tube display is optional



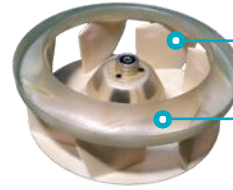
Option



Standard



Streamlined design and 3D spiral fan blade, reduces air resistance and operation noise.

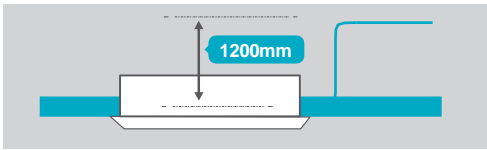


Three-dimensional spiral fan blade

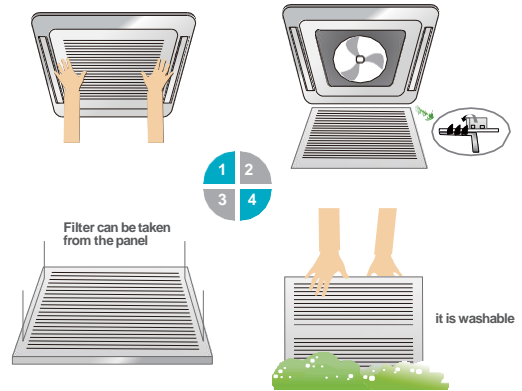
Diffuser



Built-in water pump, pump head up to 1200mm.



Washable filter, convenient installation and maintenance.

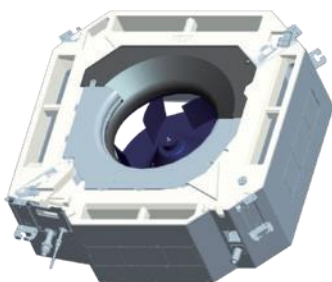


Filter can be taken from the panel

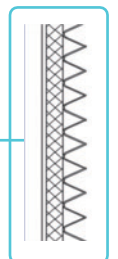
it is washable



Integrated E-box, fire-proof design, built-in body.



Cold catalyst filter for optional to absorb small particles to adjust Atmospheric Particulate Matter lower than PM2.5



# On/Off Specification

## 60Hz Heat Pump



Indoor unit			UACSS18H-I-CAR24	UACSS24H-I-CAR24	UACSS30H-I-CAR24	UACSS36H-I-CAR24	UACSS48H-I-CAR24
Power supply		V/PH/Hz	230/1/60	230/1/60	230/1/60	230/1/60	230/1/60
Capacity							
Cooling	Capacity	Btu/h	T1:17400/T3:15500	T1:23500/T3:20000	T1:30000/T3:26000	T1:33000/T3:28200	T1:44000/T3:38000
		kW	T1:5.10/T3:4.55	T1:6.89/T3:5.87	T1:8.80/T3:7.62	T1:9.68/T3:8.27	T1:12.90/T3:11.14
	Input	kW	T1:1.45/T3:1.78	T1:1.99/T3:2.32	T1:2.45/T3:3.00	T1:2.70/T3:3.24	T1:3.65/T3:4.50
	SEER	Btu/W	T1:12/T3:8.7	T1:11.8/T3:8.6	T1:12.3/T3:8.7	T1:12.2/T3:8.7	T1:12.05/T3:8.45
Heating	Capacity	Btu/h	174000	25000	29000	32400	46000
		kW	5.00	6.95	8.45	9.50	13.50
	Input	kW	1.27	1.93	2.2	2.38	3.75
	COP	W/W	3.95	3.60	3.85	4.00	3.60
Physical data							
Indoor air flow (H/M/L)		m <sup>3</sup> /h	1300/110/850	1300/1100/850	1700/1500/1300	1700/1500/1300	2000/1800/1600
Indoor noise level(H/M/L)		dB(A)	44-51	44-51	46-52	46-52	46-52
Dimension (WxHxD)		mm	840x230x840	840x230x840	840x285x840	840x285x840	840x285x840
Packing dimension(WxHxD)		mm	920x265x920	920x265x920	920x310x920	920x310x920	920x310x920
Net/Gross weight		kg	25/29	24/29	29/35	29/35	29/35
Piping data							
Liquid side/Gas side		mm	Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05
Drainage pipe		mm	25	25	25	25	25

### Note

- 1.The cooling condition: T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB;T3 condition: indoor side 29°C(84.2°F)DB, 19°C(60°F) WB, outdoor side 46°C(114.8°F)DB.
2. The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB;
- 3.Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4.The above data may be changed without notice for future improvement on quality and performance.
5. All BTU Capacity are Nominal Capacity.

## 60Hz Cooling Only



Indoor unit			UACSS18C-I-CAR24	UACSS24C-I-CAR24	UACSS30C-I-CAR24	UACSS36C-I-CAR24	UACSS48C-I-CAR24
Power supply		V/PH/Hz	230/1/60	230/1/60	230/1/60	230/1/60	230/1/60
Capacity							
Cooling	Capacity	Btu/h	T1:17400/T3:15500	T1:23300/T3:19800	T1:30000/T3:26000	T1:33000/T3:28200	T1:44000/T3:38000
		kW	T1:5.10/T3:4.55	T1:6.83/T3:5.81	T1:8.80/T3:7.62	T1:9.68/T3:8.27	T1:12.90/T3:11.14
	Input	kW	T1:1.45/T3:1.78	T1:1.90/T3:2.30	T1:2.45/T3:3.00	T1:2.70/T3:3.24	T1:3.65/T3:4.50
	SEER	Btu/W	T1:12/T3:8.7	T1:12.25/T3:8.60	T1:12.25/T3:8.65	T1:12.20/T3:8.7	T1:12.05/T3:8.45
Physical data							
Indoor air flow (H/M/L)		m <sup>3</sup> /h	1300/1100/850	1300/1100/850	1700/1500/1300	1700/1500/1300	2000/1800/1600
Indoor noise level (H/M/L)		dB(A)	44-51	44-51	46-52	46-52	46-52
Dimension (WxHxD)		mm	840x230x840	840x230x840	840x285x840	840x285x840	840x285x840
Packing dimension(WxHxD)		mm	920x265x920	920x265x920	920x310x920	920x310x920	920x310x920
Net/Gross weight		kg	25/29	24/29	29/35	29/35	29/35
Piping data							
Liquid side/Gas side		mm	Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05
Drainage pipe		mm	25	25	25	25	25
Stuffing quantity (Set)		20'/40'/40'HQ	130/240/299	130/240/299	130/240/299	130/240/299	130/240/299

### Note

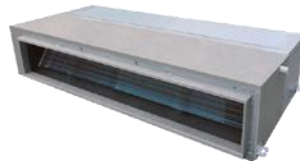
- 1.The cooling condition: T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB;T3 condition: indoor side 29°C(84.2°F)DB, 19°C(60°F) WB, outdoor side 46°C(114.8°F)DB.
2. The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB;
- 3.Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4.The above data may be changed without notice for future improvement on quality and performance.
5. All BTU Capacity are Nominal Capacity.

# • Ducted Type Unit

Controller



Wired (Standard)



Low ESP Ducted Unit

Wired (Optional)



Medium ESP Ducted Unit



High ESP Ducted Unit

Wireless (Optional)



## Features

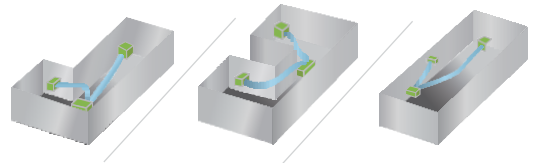


Ultra-thin design, save installation space.

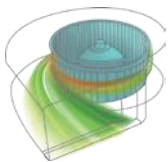
260mm



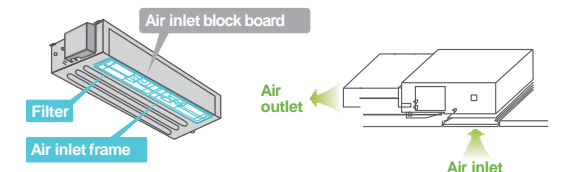
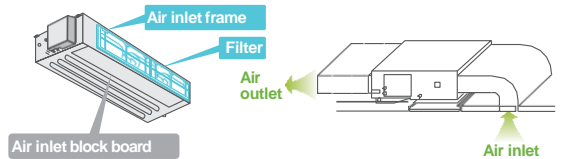
Flexible installation, suits for different room structure.



Centrifugal fan blade, increasing air flow and decreasing the noise.



The air inlet can be positioned on the bottom or the rear of the unit.



Filter can be taken out easily, convenient to clear and maintain.

# On/Off Specification

## 60Hz Heat Pump



Indoor unit			UAACON18HH-CAR24	UAACON24HH-CAR24	UAACON30HH-CAR24	UAACON36HH-CAR24	UAACON48HH-CAR24	UAACON60HH-CAR24
Power supply		V/PH/Hz	230/1/60	230/1/60	230/1/60	230/1/60	230/1/60	230/1/60
<b>Capacity</b>								
Cooling	Capacity	Btu/h	T1:17400/T3:15500	T1:24000/T3:21000	T1:29800/T3:26000	T1:33000/T3:28200	T1:44400/T3:39000	T1:55400/T3:48000
		kW	T1:5.10/T3:4.55	T1:7.03/T3:6.15	T1:8.73/T3:7.62	T1:9.67/T3:8.26	T1:13.04/T3:11.43	T1:16.27/T3:14.07
	Input	kW	T1:1.45/T3:1.78	T1:1.96/T3:2.38	T1:2.45/T3:3.00	T1:2.73/T3:3.28	T1:3.65/T3:4.50	T1:4.58/T3:5.58
	SEER	Btu/W	T1:12.0/T3:8.7	T1:12.2/T3:8.8	T1:12.15/T3:8.65	T1:12.10/T3:8.60	T1:12.2/T3:8.65	T1:12.10/T3:8.60
Heating	Capacity	Btu/h	16000	24400	27600	32400	46100	52200
		kW	4.69	7.15	8.1	9.5	13.50	15.3
	Input	kW	1.17	1.85	2.10	2.38	3.75	4.00
	COP	W/W	4.01	3.80	3.85	4.00	3.60	3.82
<b>Physical data</b>								
Indoor air flow(H/M/L)		m³/h	1300/1100/850	1300/1100/850	2000/1800/1600	2000/1800/1600	2000/1800/1600	3000/2700/2400
Static pressure(Standard/Max.)		Pa	25/60	25/60	37/80	37/80	50/100	50/120
Indoor noise level(H/M/L)		dB(A)	40~46	40~46	38~45	38~45	42~47	46~54
Dimension (WxHxD)		mm	1190x634x260	1190x634x260	1279x830x307	1279x830x307	1279x830x307	1536x867x441
Packing dimension(WxHxD)		mm	1255x720x325	1255x720x325	1395x920x380	1395x920x380	1395x920x380	1615x920x515
Net/Gross weight		kg	32/36	32/36	47/54	46/54	49/56	76/87
<b>Piping data</b>								
Liquid side/Gas side		mm	Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05
Drainage pipe		mm	25	25	25	25	25	25

### Note

- 1.The cooling condition: T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB;T3 condition: indoor side 29°C(84.2°F)DB, 19°C(60°F) WB, outdoor side 46°C(114.8°F)DB.
- 2.The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB;
- 3.Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4.The above data may be changed without notice for future improvement on quality and performance.
5. All BTU Capacity are Nominal Capacity.

## 60Hz Cooling Only



Indoor unit			UAACON18C-I-CAR24	UAACON24C-I-CAR24	UAACON30C-I-CAR24	UAACON36C-I-CAR24	UAACON48C-I-CAR24	UAACON60C-I-CAR24
Power supply		V/PH/Hz	230/1/60	230/1/60	230/1/60	230/1/60	230/1/60	230/1/60
<b>Capacity</b>								
Cooling	Capacity	Btu/h	T1:17400/T3:15500	T1:24000/T3:21000	T1:29800/T3:26000	T1:33000/T3:28200	T1:44400/T3:39000	T1:55400/T3:48000
		kW	T1:5.10/T3:4.54	T1:7.03/T3:6.15	T1:8.73/T3:7.62	T1:9.67/T3:8.26	T1:13.04/T3:11.43	T1:16.27/T3:14.07
	Input	kW	T1:1.45/T3:1.78	T1:1.96/T3:2.38	T1:2.45/T3:3.00	T1:2.73/T3:3.28	T1:3.65/T3:4.50	T1:4.58/T3:5.58
	SEER	Btu/W	T1:12.0/T3:8.7	T1:12.2/T3:8.8	T1:12.15/T3:8.65	T1:12.1/T3:8.6	T1:12.2/T3:8.65	T1:12.1/T3:8.6
<b>Physical data</b>								
Indoor air flow(H/M/L)		m³/h	1300/1100/850	1300/1100/850	2000/1800/1600	2000/1800/1600	2000/1800/1600	3000/2700/2400
Static pressure(Standard/Max.)		Pa	25/60	25/60	37/80	37/80	50/100	50/120
Indoor noise level(H/M/L)		dB(A)	40~46	40~46	38~45	38~45	42~47	46~54
Dimension (WxHxD)		mm	1190x634x260	1190x634x260	1279x830x307	1279x830x307	1279x830x307	1536x867x441
Packing dimension(WxHxD)		mm	1255x720x325	1255x720x325	1395x920x380	1395x920x380	1395x920x380	1615x920x515
Net/Gross weight		kg	32/36	32/36	47/54	46/54	49/56	76/87
<b>Piping data</b>								
Liquid side/Gas side		mm	Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05
Drainage pipe		mm	25	25	25	25	25	25

### Note

- 1.The cooling condition: T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB;T3 condition: indoor side 29°C(84.2°F)DB, 19°C(60°F) WB, outdoor side 46°C(114.8°F)DB.
- 2.The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB;
- 3.Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4.The above data may be changed without notice for future improvement on quality and performance.
5. All BTU Capacity are Nominal Capacity.

# Controller



## Wireless controller

- Wireless 8m transmission
- 5 Operation modes: Auto, Cooling, Dehumidification, Heating, Fan
- Timer ON/OFF setting up to 24Hr
- Temperature control range 16-32°C
- Three fan speed selection
- Sleep mode function

## Wired controller

- LCD display
- 5~8 m wire length
- 5 Operation modes: Auto, Cool, Dehumidification, Heat, Fan
- Timer ON/OFF setting up to 24Hr
- Temperature control range 16-32°C
- Three fan speed selection



## Central controller

- Additional PCB installed in indoor part for optional, which can realize remote ON/OFF and group control. One group controller can connect max 64 systems.



