

QUALITY and TECHNOLOGY *with you*







**Split - Light Commercial - Multisplit
Air Conditioner**

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Product Line up

Residential Air Conditioner

Model	9K	12K	
PE Serie			
SE Serie	 	 	

Light Commercial

Indoor Unit	2,5 kW	3,5 kW	5,0 kW	7,0 kW	
Slim Duct					
MSP Duct					
Compact Cassette					
4 Way Cassette					
Consol					
Ceiling&Floor					
Outdoor Units					

	18 K	24 K
		
		

	8,5 kW	10,5 kW	12,5 kW	14,0 kW	17,5 kW
					
					
					
					



Product Line up

Light Commercial Floor Standing R32

Indoor Unit	2,5 kW	3,5 kW	5,0 kW	7,0 kW	
Floor Standing R32					
Outdoor Unit					

Light Commercial R410A







Indoor Unit	2,5 kW	3,5 kW	5,0 kW	7,0 kW	
MSP Duct					
Floor Standing R32					
Outdoor Unit					

	8,5 kW	10,5 kW	12,5 kW	14,0 kW	17,5 kW
					
					

	8,5 kW	10,5 kW	12,5 kW	14,0 kW	17,5 kW
					
					
					

Product Line up

Multi-split/Freematch Inverter R32

Outdoor Unit	3,5 kW	4,2 kW	5,2 kW	6,0 kW	
Up to 2 IUs					
Up to 3 IUs					
Up to 4 IUs					
Up to 5 IUs					

	7,2 kW	8,1 kW	10,5 kW	12,5 kW
				
				
				



RESIDENTIAL AIR CONDITIONER



AI Smart



Smart Eye



Tms Comfort Control System



AI Smart



Ceiling Airflow
Floor Airflow



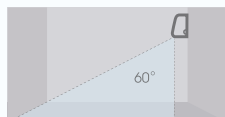
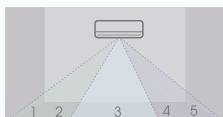
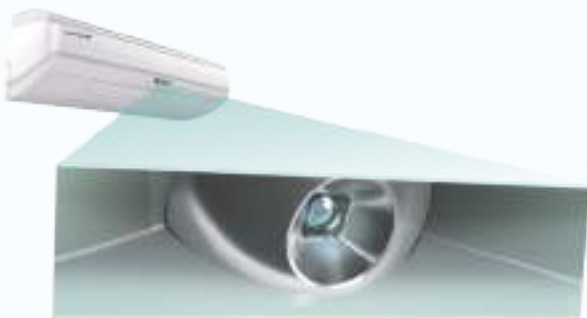
Smart Airflow



Multi Dimension
Airflow (M100 Only)

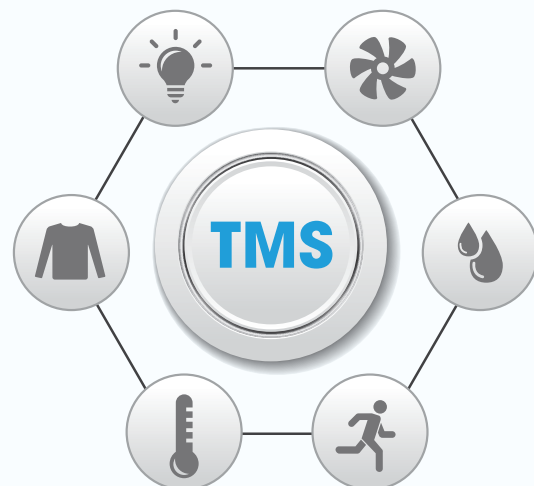
Smart Eye

Smart eye can identify people's position and activity. For example, when the smart eye through infrared scanning to know that the user heating increases, the wind direction will be automatically adjusted for delivering wind to the user's area, so that the users feel cool.



Tms Comfort Control System

TMS technology is adopted to calculate the indoor environmental parameters which fit to users. Based on six dimensions of temperature, humidity, wind speed, thermal radiation, clothing quantity and activity, Quatech air conditioner intelligently controls temperature, humidity and wind speed.



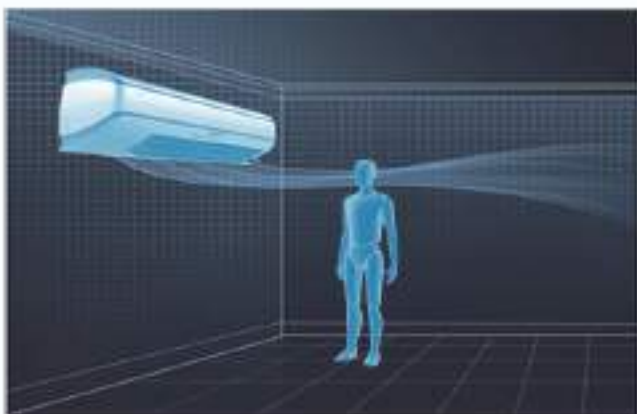
Ceiling Airflow and Floor Airflow

With just one button, you can wake up the intelligent air steward and control temperature, humidity, wind direction and air volume in an all-round way. There is no need to worry about how to use the air conditioner, AI will do it for you.

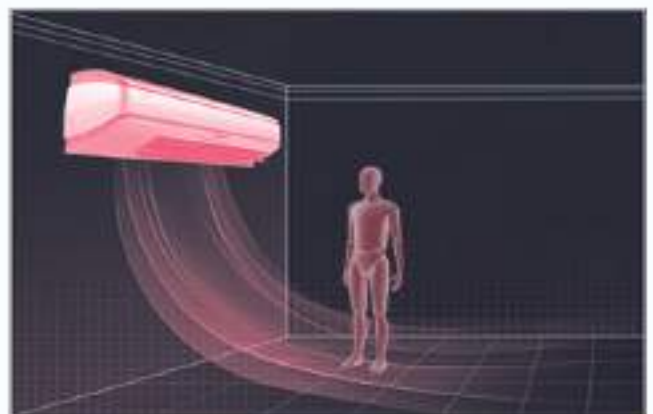


Smart Airflow Ceiling & Floor Airflow

In summer, the cool wind comes down from the ceiling to cool the air and surround the human body with natural coolness. In winter, the warm wind rises from the floor and warms the whole body from the feet.

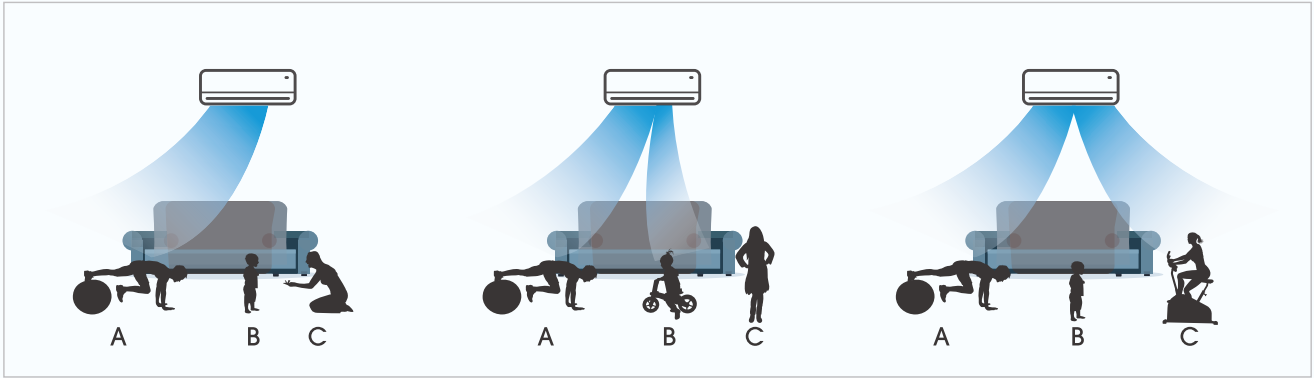


Ceiling Airflow



Floor Airflow

Activity Detection & Auto Airflow

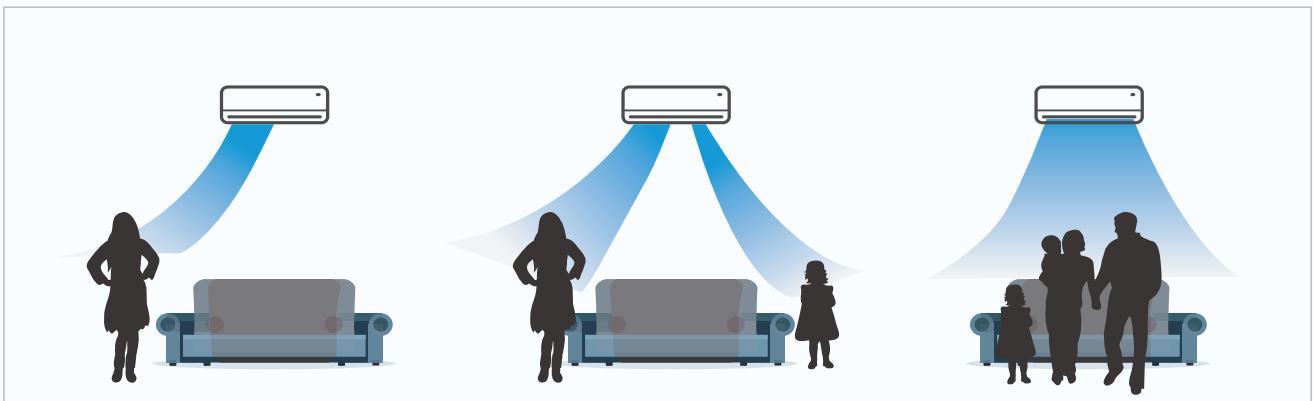


Multi Dimension Airflow

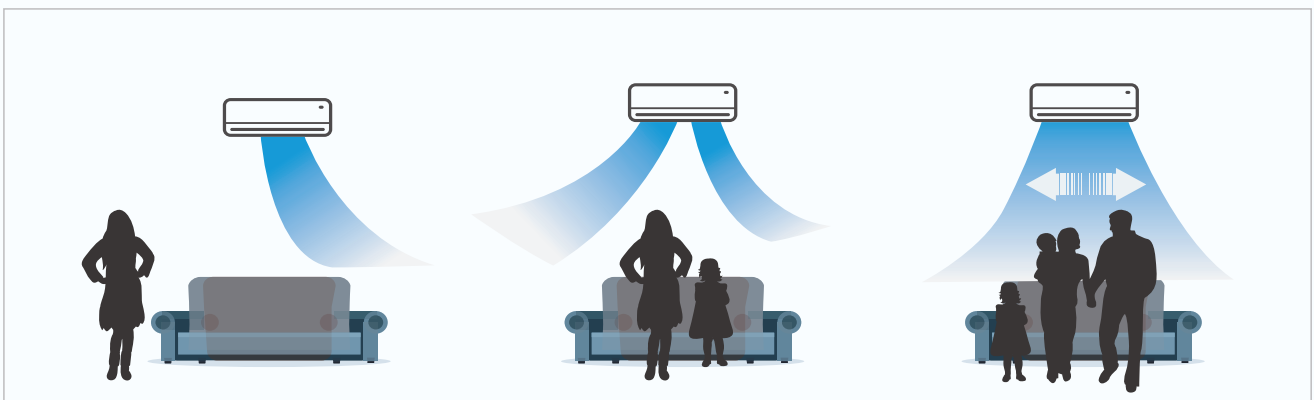
The left and right independent air deflector design allows the user to control the wind to follow people or avoid people by remote.



Follow



Avoid



Inverter



360° DC Inverter Technology



Advanced Self-adaptive BLDC Compressor Driver Technology



Smart PFC Control Technology



PID+Fuzzy Control Technology



Fast Cooling



Dual Mode Inverter Control Technology

360° DC Inverter Technology

360° DC inverter technology is a collection of high-end technology, which realizes intelligent operation of air conditioner and minimizes energy loss. The compressor runs more efficiently and smoothly, and the temperature control is more precise, and lower noise.

180° sine wave control technology

- More efficient
- More stable
- Extend usage time



High-frequency weak magnetic control technology

- Rapid cooling
- Rapid heating



Low-frequency torque compensation technology

- Constant temperature
- Energy saving

3-DC inverter technology

- High efficiency
- Greater reliability
- Less maintenance



Ultra-wide frequency control technology

- Unceasing operation
- Accurate control



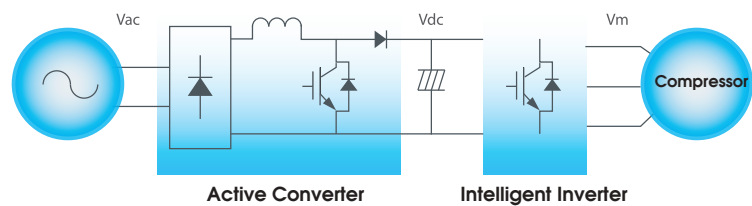
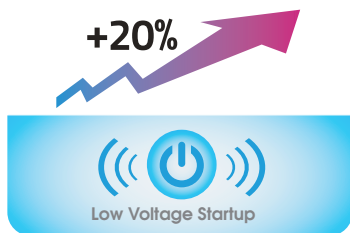
Advanced Self-adaptive BLDC Compressor Driver Technology

Advanced self-adaptive BLDC compressor driver technology makes the air conditioners run more quietly and more efficiently, and bring more comfortable experiences to the consumers.



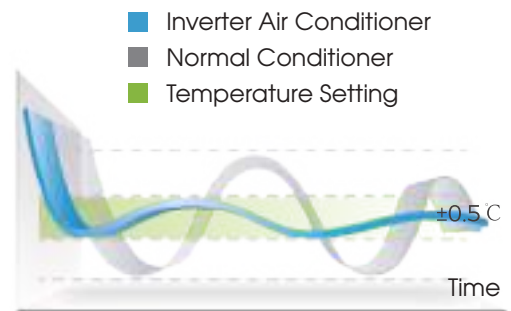
Smart PFC Control Technology

PFC control technology can apply voltage compensation at low voltage conditions and discharge at high voltage, which realizes the air conditioner start at low voltage and operate efficiently under higher voltage, and the operate voltage range increase $\pm 20\%$.



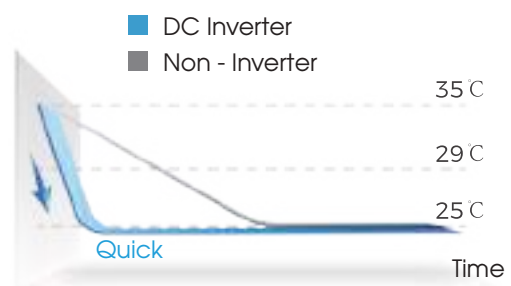
PID+Fuzzy Control Technology

With PID+Fuzzy Control technology, AC intelligently regulates operating frequency according to the temperature variation of environment. Control is more accurate ($\pm 0.5^\circ\text{C}$) to prevent the room temperature from fluctuating and ultimately keep you comfortable.



Fast Cooling

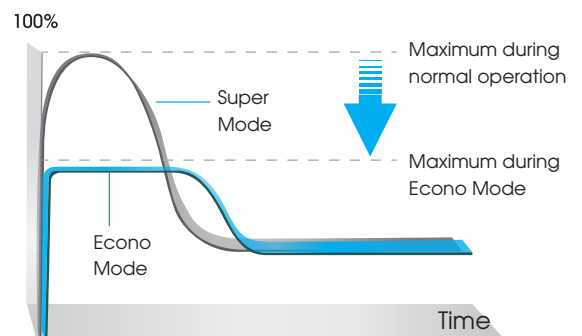
Unique weak magnetic control technology is used to operate at high frequency under high temperature ambience, which achieves greater cooling capacity and increases the cooling rate by 25%.



Dual Mode Inverter Control Technology

Super mode: air conditioner runs with high frequency and fast refrigeration.

Eco Mode: energy-saving operation. When starting, the air conditioner will operate at the constant speed of the golden frequency.





Self-Cleaning & Mildew-Proof



Hydrophilic and Anti-virus Aluminum Fin



Hi-nano



All-around Healthy Protection: 4-in-1 Filter

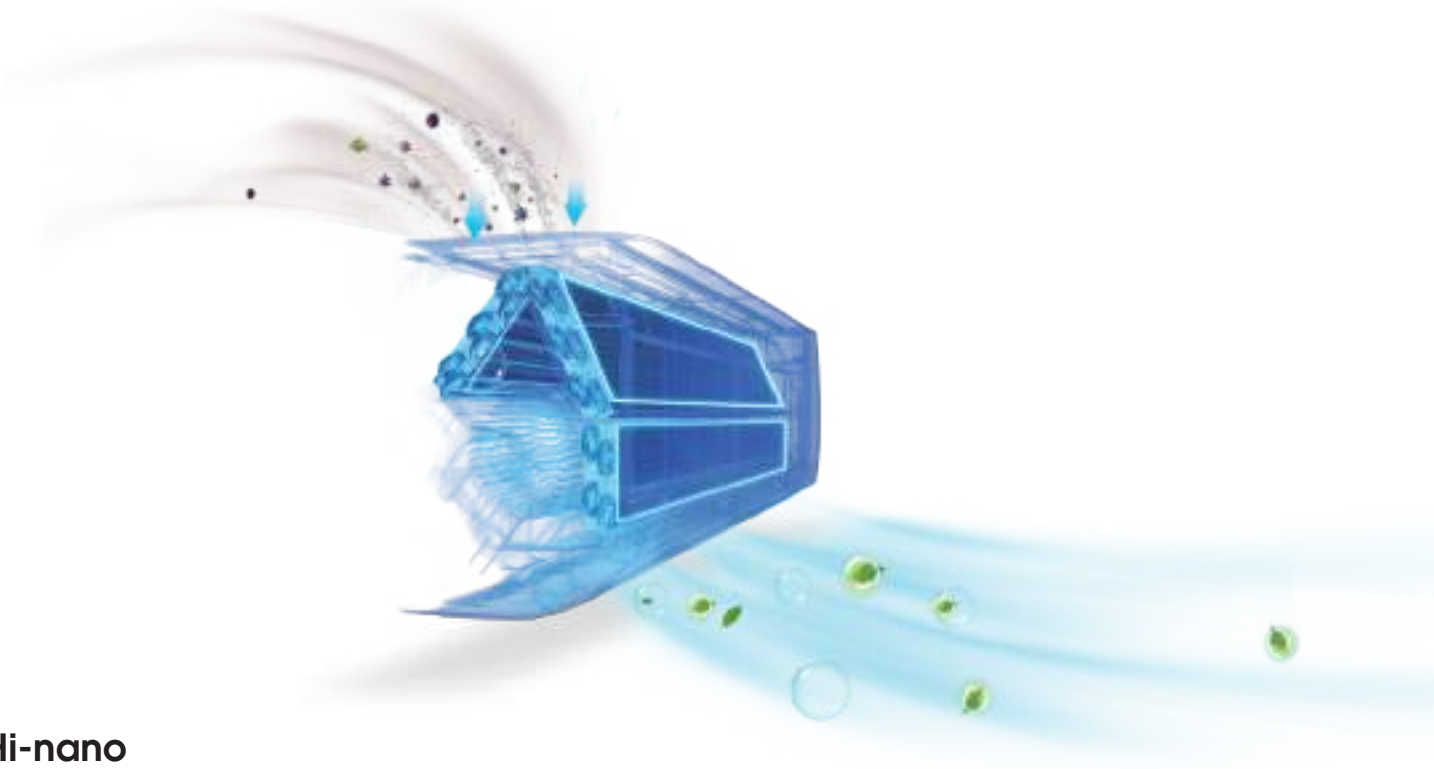
Self-Cleaning & Mildew-Proof

New generation hydrophilic coating film, the accumulated dust/microorganism/oil can be removed from the aluminum surface via a frosting and defrosting cycle. After turning off the air conditioner, the indoor fan will keep running for additional 30 seconds to dry the evaporator.



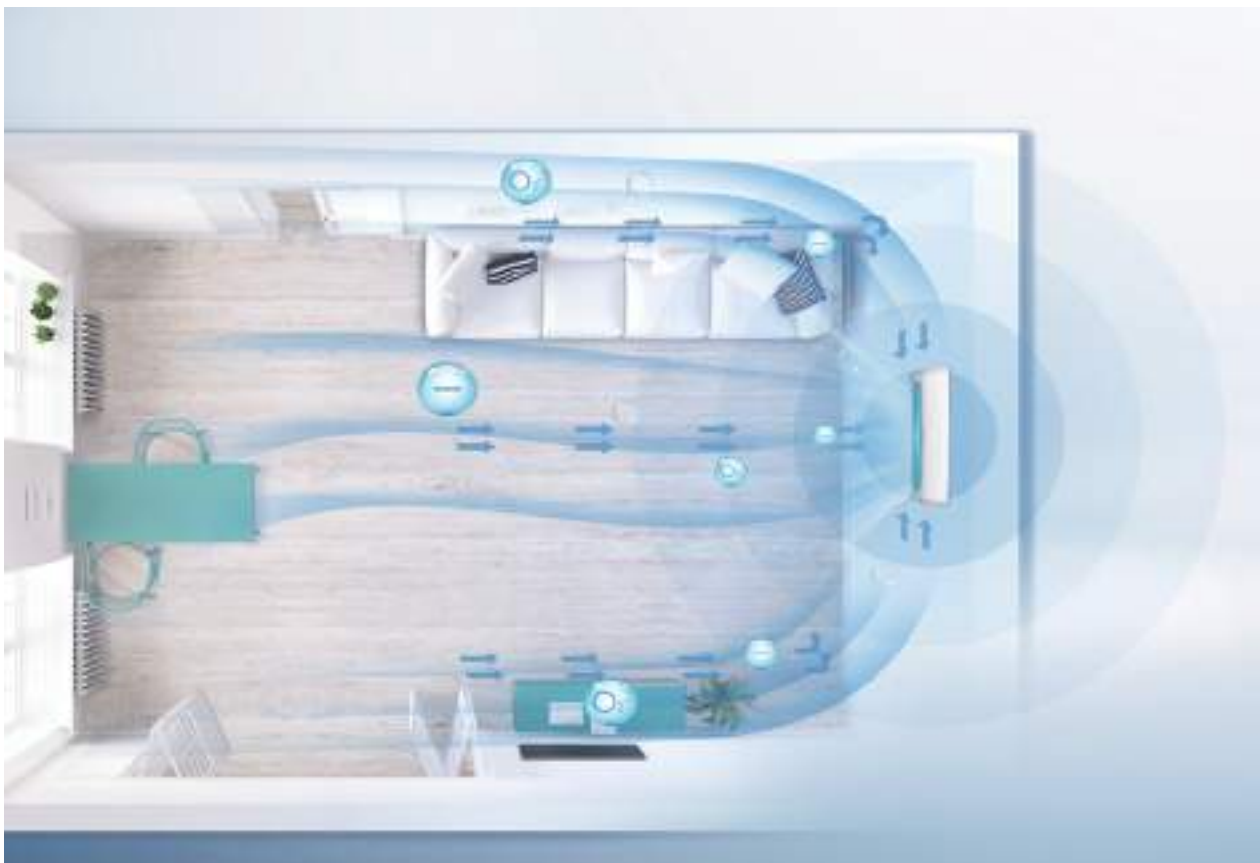
Hydrophilic and Anti-virus Aluminum Fin

Special painting formula on the evaporator, highly enhance the function of antibacterial and dust clearance.

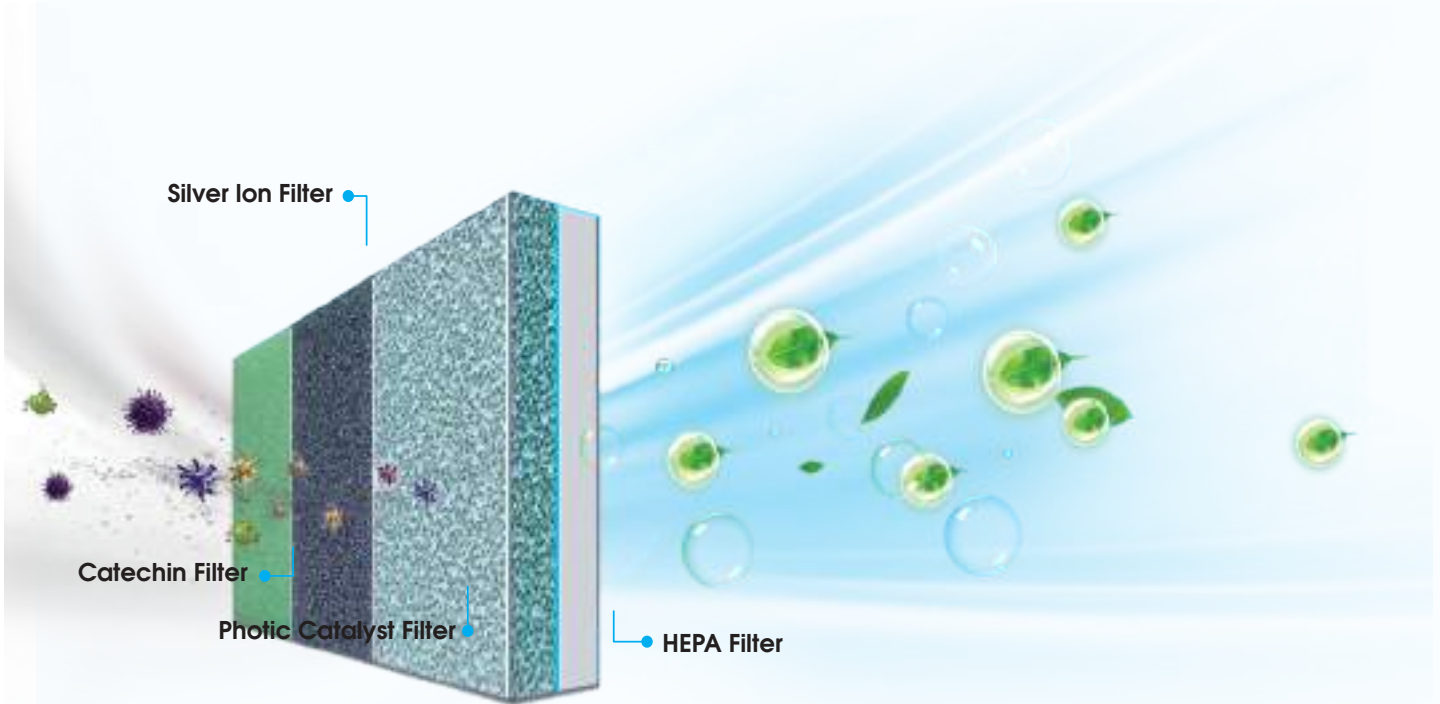


Hi-nano

Airsupply technology can release high-concentration dual ion groups up to $1 \times 10^6 / \text{cm}^3$ to every corner of the space to quickly remove bacteria in the room.



All-around Healthy Protection:4-in-1 Filter



Catechin Filter

Catechin filters remove odors and remove dust and particles from the air and room



Silver Ion Filter

Sterilize bacteria effectively by destroying their inner configuration.



Photic Catalyst Filter

Eliminates pyococcus,germs,odors.And it is easily replenished by placing it in sunlight for 6-8 hours.



Vitamin-C Filter

Emits Vitamin C through the air to everyone.makes your skin more beautiful.



HEPA Filter

The HEPA filter effectively eliminates pollen,mill dust and pneumo-bacillus, bringing fresh and healthy air to you.



Aroma Filter

This air-conditioner can make your room smell heavenly when you add your preferred perfume to the Aroma Filter.



Intelligence



WI-FI Control



Hydrophilic
and anti-virus
aluminum fin



Ultra-low Noise/
Mute mode



Customized Comfort
Sleep Housekeeper

WI-FI Control

Conveniently control your air conditioner anywhere in your home with just your mobile phone and a WI-FI connection.



Convenient APP

An easy to use app and friendly user interface to maintain the temperature of your home allows you to have peace of mind while away. Our AC apps are available for iOS and Android phones.



Weekly Timer



Sleep Curve



Error Alarm



Auto Mode



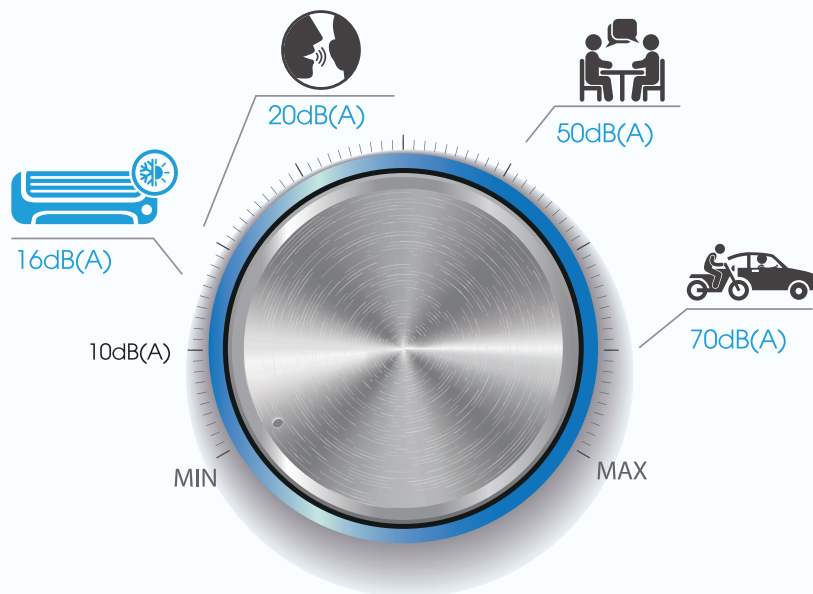
Group Control



Convenient Control

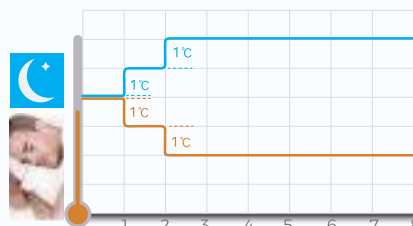
Super Quiet Mode

With a specially designed air tunnel and advanced control technology, the new inverter AC keeps noise to a minimum at an ultra low level 16dB while set in Super Quiet Mode. The newly designed cross flow fan and optimized air channel also help to lower noise to keep you undisturbed.

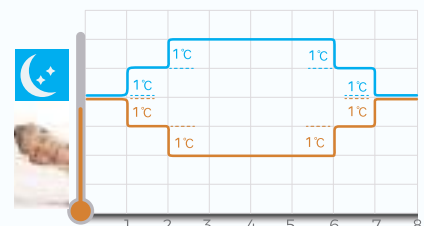


Customized Comfort Sleep Housekeeper

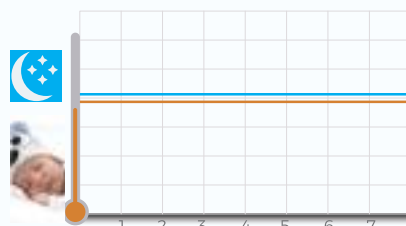
Press the SLEEP button, and the operation mode changes in the order of adult SLEEP, elderly SLEEP, youth SLEEP, children SLEEP and turn-off SLEEP mode. The temperature curve will be adjusted according to customized SLEEP mode.



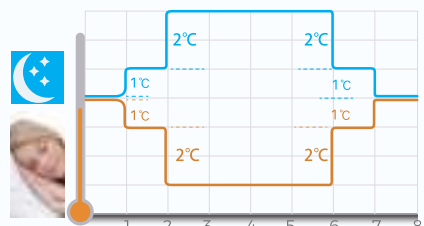
Common mode



The elderly mode



Children mode



The youngsters mode

Reliability



150V Low Voltage Operation



Self Diagnosis Protection



-20°C Heating



8°C Special Heating



Multi Anti-corrosion Treatment



Leakage detection



PCB with Insect Prevention



High Temperature Resistance PCB

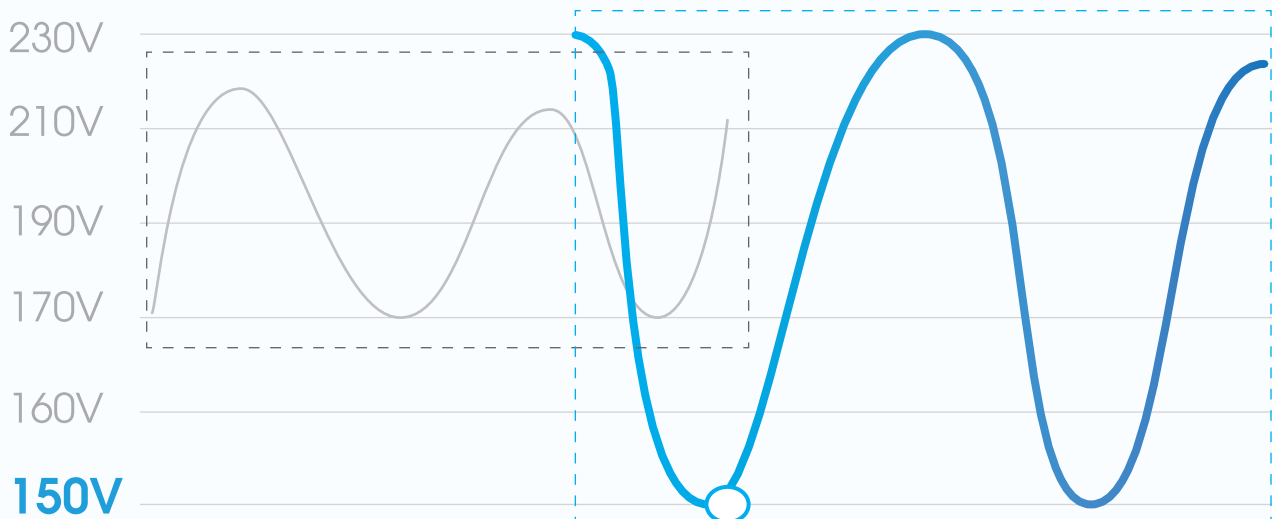


Super Cooling at 50°C

150V Low Voltage Operation

PFC control technology can make voltage compensation under low-voltage conditions, so as to realize low-voltage startup and efficient operation when voltage is unstable.

■ Other Brand ■ Inverter



Self Diagnosis & Automatic Protection

Real-time monitoring and real-time self-diagnosis of faults, clearly displayed fault codes allow faster troubleshooting and easier maintenance, emergency power failure in case of system overload, ensuring safety.



-15°C Cooling

Special cooling at -15°C is widely used to maintain the room temperature.



-20°C Heating

Being able to provide heat in -20°C ambient is supported by our preheating technology and electric heating chassis technology.



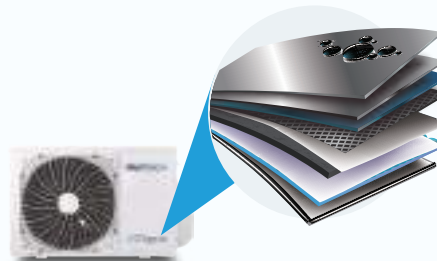
8°C Special Heating

In frigid living conditions, our Special Heating mode keeps your home from freezing by maintaining it at 8°C ambient temperature when you're away from home for long periods.



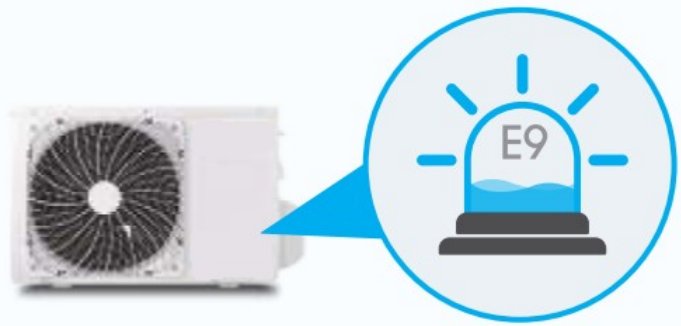
Multi Anti-corrosion Treatment

The exterior housing is protected by hot-dip galvanized steel plate and ceramic baking paint. By double zinc layer, double zinc-iron soluble layer, steel matrix, powder curing layer, ceramic paint layer to form a strong seven-fold protection, greatly extend the service life of outdoor machines.



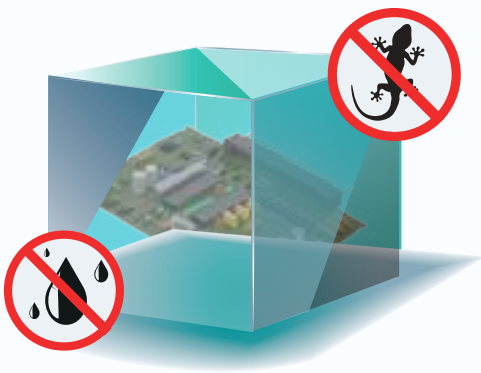
Leakage detection

The indoor unit automatically stops when it detects refrigerant leakage and displays the error code.



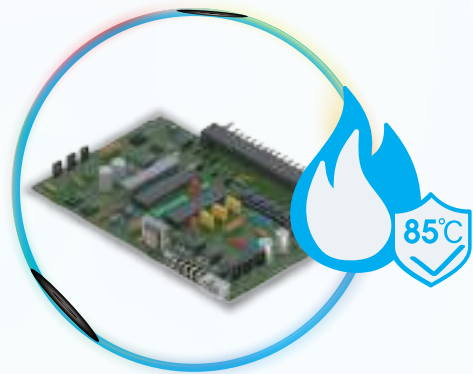
PCB with Insect Prevention

The sealing electrical box to prevent the insect, such as gecko or frog, from damaging the outdoor PCB



High Temperature Resistance PCB

The PCB board in the inverter air conditioner can still run normally under the high temperature of 85°C



Super Cooling at 50°C

Advanced Hi-smart adaptive technology, high heat dissipation design and high stability PCB are adopted to make the air conditioner run efficiently under high temperature environment.



Convenient



Easy Installation



Easy clean



Easy maintenance



Dual Drainage

Dual Drainage

On the left and right sides of the air conditioning reserved drain hole.



Easy Installation

Make installation easier and increase installation efficiency.

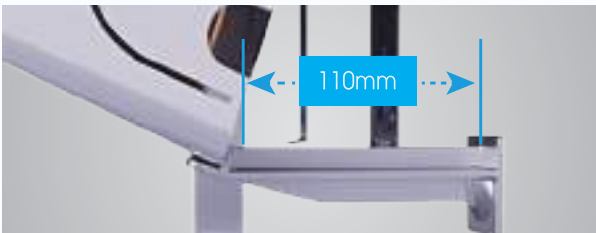
Mounting Plate Improvement



Detachable Bottom Cover



Easy Support Bar



Wider Tubing Space



Easy clean

Easy disassembly and washing of chassis and air duct system can be realized through the design of split chassis, air duct and outer cover. The safety micro switch is adopted to protect the whole process of disassembling and washing. In the process of disassembling and washing, only the outlet parts need to be turned on, and the micro switch will turn off the power for protection, making the motor completely in the state of power failure and ensuring the safety of disassembling and washing.

User Basic Cleaning



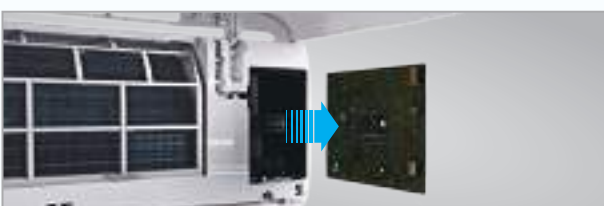
Professional Deep Cleaning



Easy maintenance

New indoor machine structure, no need to move evaporator when disassembling indoor electromechanical machine.

Quick & Easy Replace PCB



Quick & Easy Replace Cross Flow Fan Motor







CE PANEL



Wi-Fi Control



8°C Special Heating



-15°C Cooling



1W Standby



Wired Control



4 Sleeping Curves



Anti-Cold Air Function



Easy Maintenance



Smart Running

INDOOR UNIT			ACS-IU09SP-PE	ACS-IU12SP-PE	ACS-IU18SP-PE*	ACS-IU24SP-PE*
OUTDOOR UNIT			ACS-OU09SP-PE	ACS-OU12SP-PE	ACS-OU18SP-PE	ACS-OU24SP-PE
Cooling (Rated)	Capacity	W	2.600 (1.000-3.000)	3.400 (1.000-4.000)	5.000 (1.000-6.000)	6.500 (1.600-7.200)
	Power Input	W	855	1.140	1.540	2.060
	EER	W/W	3,04	2,98	3,25	3,15
Cooling (Seasonal)	Capacity	W	2.600	3.400	5.000	6.500
	SEER	W/W	6,10	6,10	6,10	6,20
	Energy Class	--	A++	A++	A++	A++
Heating (Rated)	Capacity	W	2.700 (1.000-3.000)	3.800 (1.000-4.200)	5.600 (1.600-6.250)	7.100 (1.800-7.300)
	Power Input	W	700	1.050	1.550	2.150
	COP	W/W	3,85	3,62	3,61	3,30
Heating (Seasonal)	Capacity	W	2.000	2.700	4.200	5.300
	SCOP	W/W	4,00	4,00	4,00	4,00
	Energy Class	--	A+	A+	A+	A+
Indoor Unit						
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Airflow Rate (H/M/L)	m³/h		550	550	880	1.100
Sound Pressure Level (H/M/L)	dB(A)		39/37/35/33/30/25	39/38/35/33/31/25	45/44/42/40/38/33	46/44/43/40/39/35
Dimensions (WxHxD)	mm		790x255x200	790x255x200	890x300x220	998x325x225
Packing Dimensions (WxHxD)	mm		850x320x260	850x320x260	960x365x300	1.060x390x315
Net/Gross Weight	kg		7,1/8,6	7,1/8,6	10,0/12,0	11,0/13,5
Panel	--		CE	CE	CE	CE
Outdoor Unit						
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Airflow Rate (H/M/L)	m³/h		2.000	2.200	2.800	3.200
Sound Pressure Level	dB(A)		51,0	52,0	55,0	56,0
Net Dimensions (WxHxD)	mm		660x483x240	660x483x240	810x585x280	860x667x310
Packing Dimensions (WxHxD)	mm		780x530x315	780x530x315	940x630x385	995x720x420
Net/Gross Weight	kg		21,7/25,0	22,0/25,0	34,0/38,5	42,0/46,0
Compressor Type	--		Rotary	Rotary	Rotary	Rotary
Refrigerant	--		R32	R32	R32	R32
Factory Charge	kg		0,46	0,58	1,15	1,30
Liquid Pipe	mm (inch)		6,35 (1/4)	6,35 (1/4)	6,35 (1/4)	9,52 (3/8)
Gas Pipe	mm (inch)		9,52 (3/8)	9,52 (3/8)	12,70 (1/2)	15,88 (5/8)
Max Piping Length	m		20	20	20	20
Max. Height	m		10	10	15	15
Operation Range (Cooling/Heating)	°C		-15 ~ 43/-15 ~ 24	-15 ~ 43/-15 ~ 24	-15 ~ 43/-15 ~ 24	-15 ~ 43/-15 ~ 24

NOTES:

1. ACTherm reserves the right to make changes without notice due to product improvements.
 2. Cooling: 27°C DB/19°C WB(Indoor) & 35°C DB/27°C WB(Outdoor) - Heating: 20°C DB(Indoor) & 7°C DB(Outdoor)
- * Indoor units for Multisplit



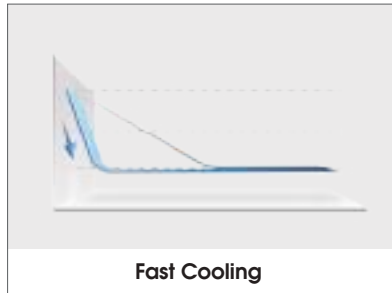
CE PANEL



KA PANEL



-20°C Heating



Fast Cooling



Safety Metal Control Box



Full Process by DC Drive



High Efficient Layout



Healthy Filters



Smart Running



Electronic Expansion Valve



Wired Control

INDOOR UNIT			ACS-IU09SP-ES	ACS-IU09SP-ES1*	ACS-IU12SP-ES	ACS-IU12SP-ES1*	ACS-IU18SP-ES	ACS-IU24SP-ES
OUTDOOR UNIT			ACS-OU09SP-ES	ACS-OU09SP-ES	ACS-OU12SP-ES	ACS-OU12SP-ES	ACS-OU18SP-ES	ACS-OU24SP-ES
Cooling (Rated)	Capacity	W	2.600 (800-3.200)	2.600 (800-3.200)	3.500 (1000-4.000)	3.500 (1000-4.000)	5.000 (1.500-6.300)	7.000 (1.600-7.800)
	Power Input	W	590	590	890	890	1.295	2.000
	EER	W/W	4,41	4,41	3,93	3,93	3,86	3,50
Cooling (Seasonal)	Capacity	W	2.600	2.600	3.500	3.500	5.000	7.000
	SEER	W/W	8,50	8,50	8,50	8,50	7,80	7,90
	Energy Class	--	A+++	A+++	A+++	A+++	A++	A++
Heating (Rated)	Capacity	W	3.000 (800-3.300)	3.000 (800-3.300)	3.900 (1.000-4.400)	3.900 (1.000-4.400)	5.400 (1.600-6.200)	7.500 (1.800-8.000)
	Power Input	W	720	720	1.000	1.000	1.380	2.100
	COP	W/W	4,17	4,17	3,90	3,90	3,91	3,57
Heating (Seasonal)	Capacity	W	2.300	2.300	2.800	2.800	3.900	5.000
	SCOP	W/W	4,60	4,60	4,60	4,60	4,60	4,60
	Energy Class	--	A++	A++	A++	A++	A++	A++
Indoor Unit								
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Airflow Rate (H/M/L)	m³/h		520	520	580	580	950	1100
Sound Pressure Level (H/M/L)	dB(A)		39/37/35/33/31/26	39/37/35/33/31/26	40/38/36/34/31/26	40/38/36/34/31/26	44/42/40/38/36/32	48/45/43/40/39/35
Dimensions (WxHxD)	mm		798x256x191	790x255x203	798x256x191	790x255x203	890x300x220	998x325x227
Packing Dimensions (WxHxD)	mm		850x320x260	850x320x260	850x320x260	850x320x260	960x365x300	1.120x390x315
Net/Gross Weight	kg		7,7/9,5	7,7/9,5	7,7/9,5	7,7/9,5	10,0/12,0	11,0/13,5
Panel	--		KA	CE	KA	CE	KA	KA
Outdoor Unit								
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Airflow Rate (H/M/L)	m³/h		2.000	2.000	2.200	2.200	2.800	3.200
Sound Pressure Level	dB(A)		53,0	53,0	54,0	54,0	56,0	58,0
Net Dimensions (WxHxD)	mm		780x540x260	780x540x260	810x585x280	810x585x280	860x667x310	890x673x342
Packing Dimensions (WxHxD)	mm		910x600x360	910x600x360	940x630x385	940x630x385	995x720x420	995x740x398
Net/Gross Weight	kg		28,0/31,5	28,0/31,5	33,0/37,0	33,0/37,0	39,0/45,0	49,0/54,0
Compressor Type	--		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
Refrigerant	--		R32	R32	R32	R32	R32	R32
Factory Charge	kg		0,75	0,75	0,80	0,80	1,15	1,50
Liquid Pipe	mm (inch)		6,35 (1/4)	6,35 (1/4)	6,35 (1/4)	6,35 (1/4)	6,35 (1/4)	9,52 (3/8)
Gas Pipe	mm (inch)		9,52 (3/8)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)	12,70 (1/2)	15,88 (5/8)
Max Piping Length	m		20	20	20	20	20	20
Max. Height	m		10	10	10	10	15	15
Operation Range (Cooling/Heating)	°C		-15 ~ 43/-20 ~ 24	-15 ~ 43/-20 ~ 24	-15 ~ 43/-20 ~ 24	-15 ~ 43/-20 ~ 24	-15 ~ 43/-20 ~ 24	-15 ~ 43/-20 ~ 24

NOTES:

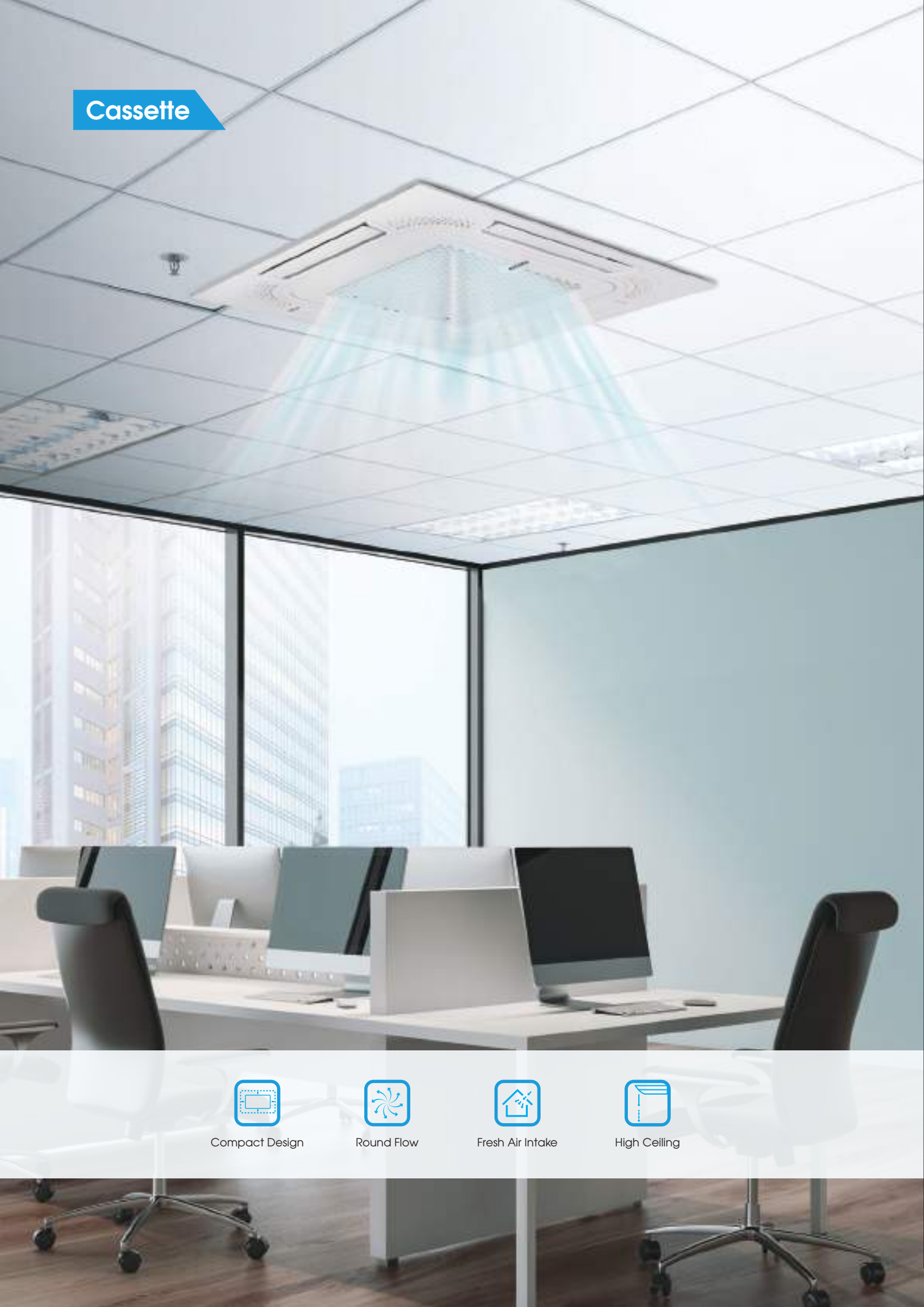
1. ACTherm reserves the right to make changes without notice due to product improvements.
2. Cooling: 27°C DB/19°C WB(Indoor) & 35°C DB/27°C WB(Outdoor) - Heating: 20°C DB(Indoor) & 7°C DB(Outdoor)
- 3- All Outdoor units have heating belt.
- * Indoor units for Multisplit



LIGHT COMMERCIAL



Cassette



Compact Design



Round Flow



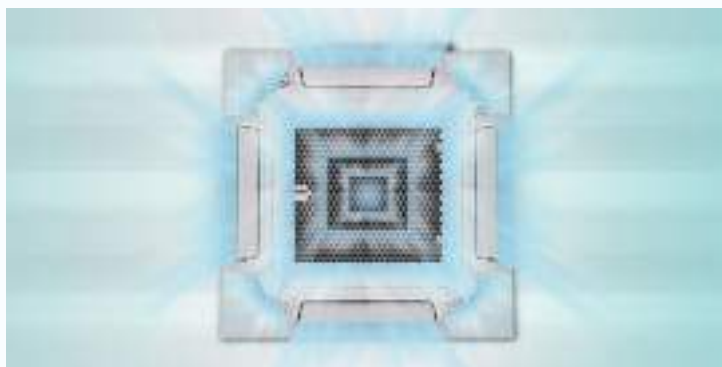
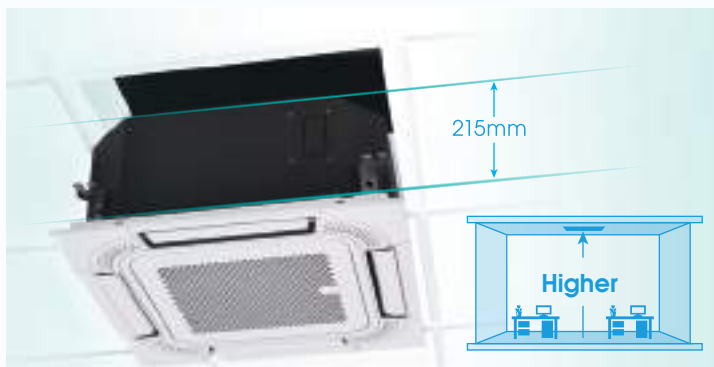
Fresh Air Intake



High Ceiling

Compact Design

The compact design with the body thickness of only 215mm and the installation thickness of 245mm reduces the ceiling height. The compact design makes the slimmest design in class.



Round Flow

360°Round Flow can give optimum efficiency and comfort. Full-flat panel and micro-channel design allow smooth air supply and ensure the best comfort.

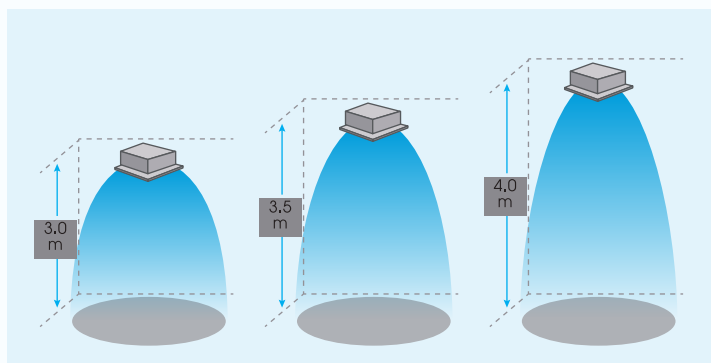
Fresh Air Intake

The function of Fresh Air Intake will introduce the outdoor fresh air into the room to improve indoor air quality. Note: The proportion of fresh air volume cannot exceed 20% of the total design air volume.



High Ceiling

When the ceiling is high, the unit parameters can be set through the wired controller to compensate the installation height, so that the cool air can blow down to people's activity area.



Duct



Slim Design



Flexible Installation



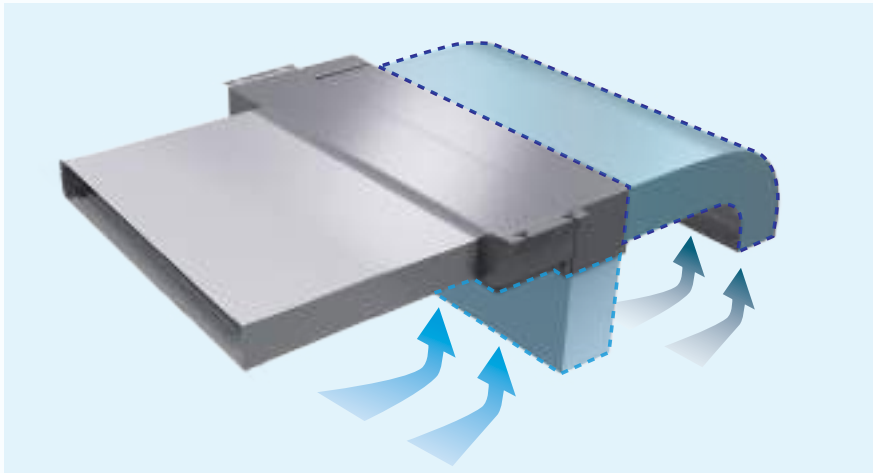
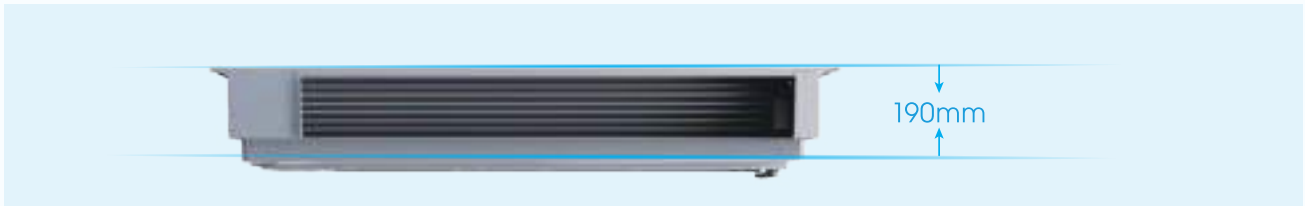
1 Pa ESP Setting



150Pa MSP Duct

Slim Design

The slim duct unit, with a thickness of only 190mm, makes it no longer a challenge to narrow ceiling voids. The external static pressure of up to 50Pa facilitates unit use with flexible ducts of varying lengths.



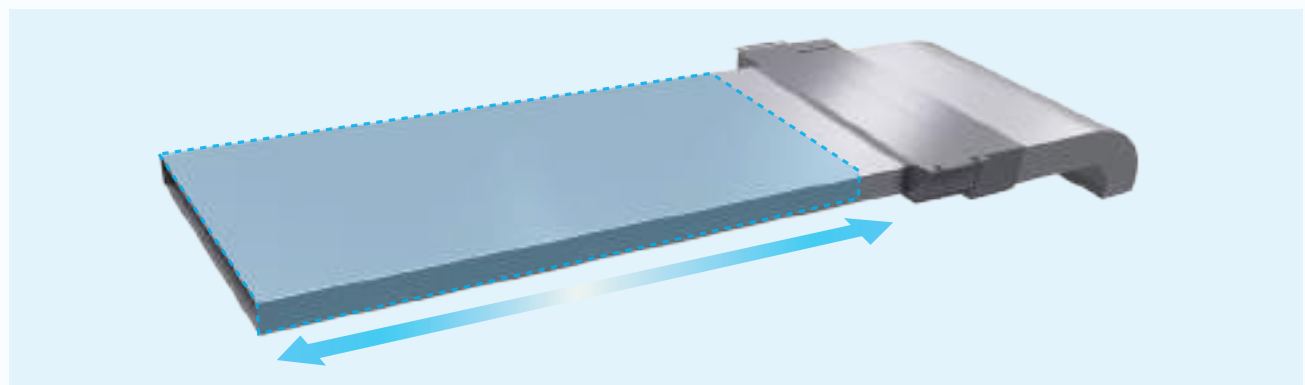
Flexible Installation

Air suction direction can be altered from rear to bottom suction, giving a choice between free use and connection to optional suction grilles.

Note: The rear suction is 5dB lower than the bottom suction, so it is recommended to use the rear suction.

1 Pa ESP Setting

Possibility to change ESP via wired remote controller allows optimisation of the supply air volume. And the adjust precision of 1 Pa can give the most accurate ESP setting in class.



150Pa MSP Duct

The external static pressure of MSP Duct unit up to a maximum of 150Pa makes units applicable for a wide range of building types.

Ceiling & Floor



Several
Installation Modes



4D Airflow



WiFi Easy



High Ceiling

Several Installation Modes

Ceiling & Floor unit adopts a special structure which can meet seat, lifting and inclined installation mode. What's more, piping can be arranged in four directions, left, right, rear, and bottom.



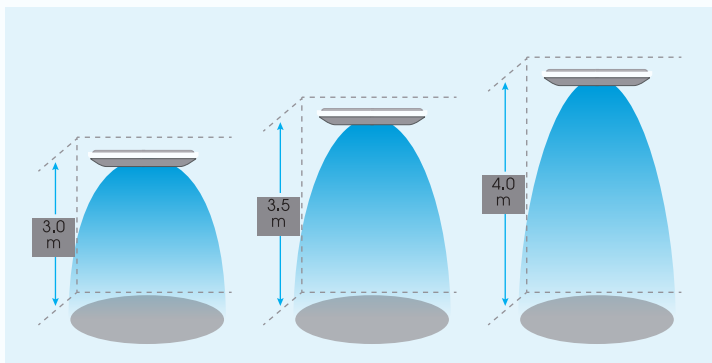
4D Airflow

The horizontal and vertical air flow swings can provide better room comfort. Ideal for comfortable air flow in wide rooms:

- up to 90° discharge horizontal angle
- up to 65° discharge vertical angle

WiFi Easy

WiFi module can be fixed easily in multiple optional positions of the indoor unit with 3M double-sided tape. The installer can flexibly determine the installation location of the WiFi module according to the strength of the WiFi signal.



High Ceiling

When the ceiling is high, the unit parameters can be set through the wired controller to compensate the installation height, so that the cool air can blow down to people's activity area.

Console



Several
Airflow Modes



Independent
Dual Vane



LED
Display

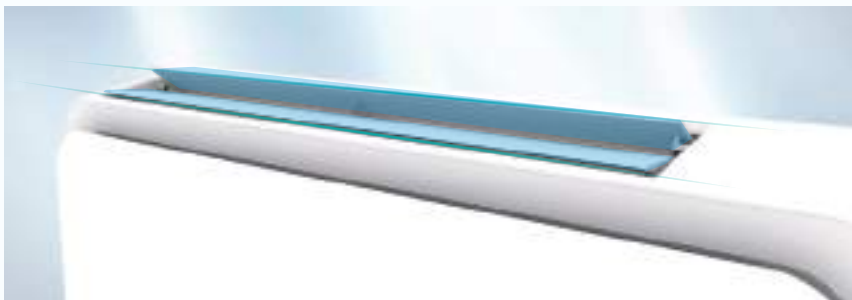


Effective
Heating



Different air distribution options

Various air-out combinations of top air-out, bottom air-out and top-bottom make the room air distribution and temperature more comfortable.



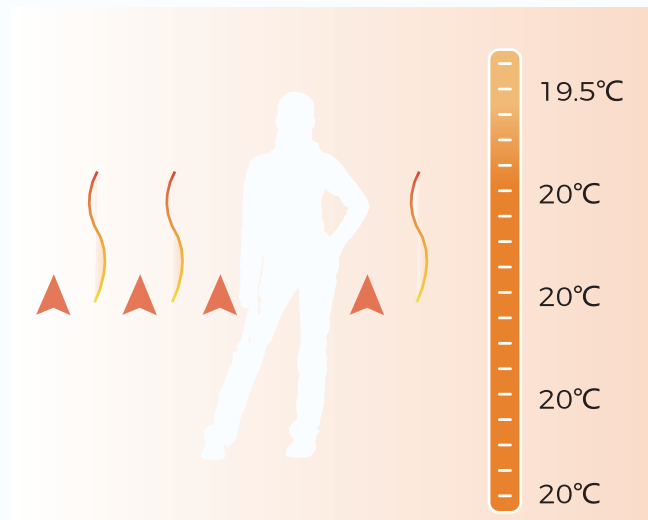
Independent Dual Vane

The unique dual vane can be completely sealed when the unit is off, and can rotate independently when the unit is on. So the console unit can give a more comfortable airflow distribution.



LED Display

The 88 LED hidden display makes the console unit simple and beautiful.



Effective Heating

The hot airflow blowing from the bottom air-out can give an effective heating, namely Foot Warming Effect.

LCAC ODU



Twin, Triple ve
Quadruple



Wide Temperature
Range



Leakage
Alarm

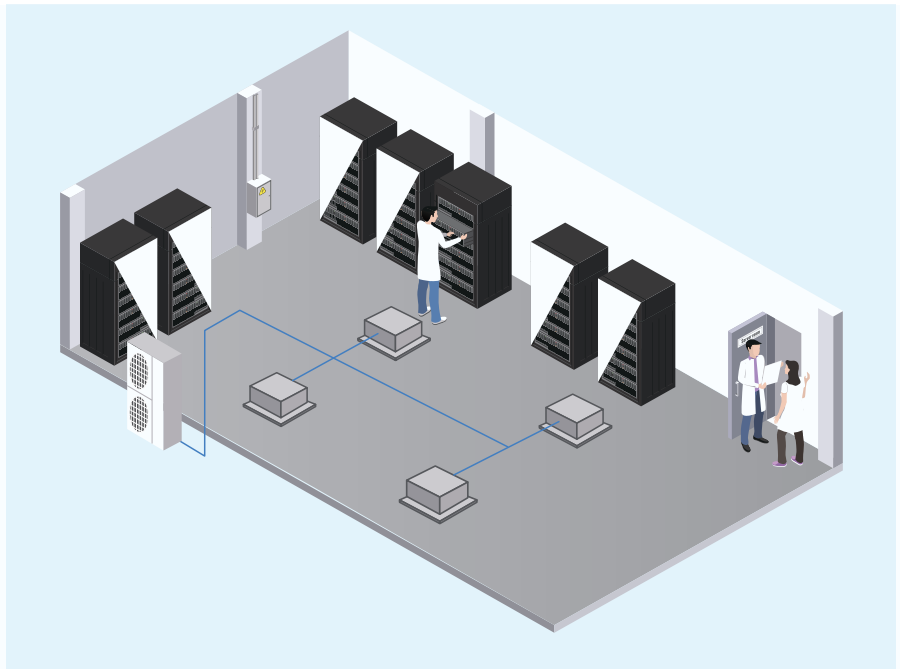


Service
Hi-Checker

Twin, Triple and Quadruple

With the cooperation of simplified central control system, the LCAC unit can be combined into a simplified mini VRF system. We call them twin, triple and quadruple system.

Note: All indoor units will operate at exactly the same setting in this simplified mini VRF system.



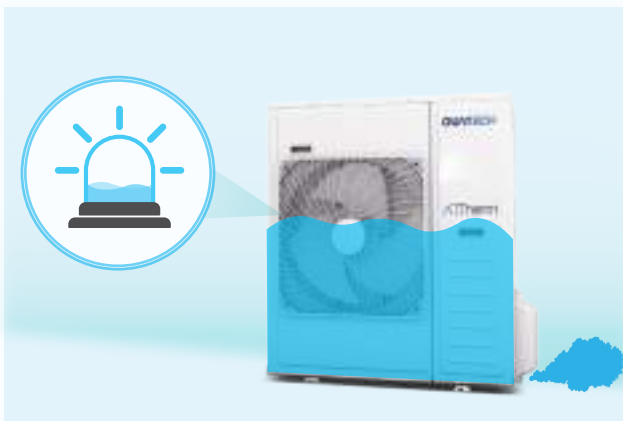
Wide Temperature Range

Cooling: -15 °C ~ 48 °C

Heating: -15 °C ~ 24 °C

The wide temperature range can cover most countries and regions with T1 and T2 climates.

Note: Refer to the temperature range in specs for the specific model.



Leakage Alarm

The control system will send an error alarm and stop running when the refrigerant leakage ratio reaches a certain value so as to ensure safe operation of the air conditioner, especially for R32.



Service Hi-Checker

Hi-Checker is a software application used to record and monitor operation data of Hisense Inverter Air Conditioners. Hi-Checker can help to provide a fast, efficient and professional after-sales service.

Compact Cassette

R32 Inverter



WiFi Control



ON-OFF Function



Room Card Control



Fire Leakage Control



Vertical Auto Swing



High Ceiling



Fresh Air Intake



Silver Ion Filter



Universal Unit



INDOOR MODEL			ACS-IU12DY-IN*	ACS-IU18DY-IN*
OUTDOOR MODEL			ACS-OU12UN-IN	ACS-OU18UN-IN
Cooling (Rated)	Capacity	W	3,750 (1,720-4,150)	5,200 (1,630-5,530)
	Power Input	W	1,000	1,550
	EER	W/W	3,75	3,35
Cooling (Seasonal)	Capacity	W	3,750	5,200
	SEER	W/W	6,90	6,60
	Energy Class	--	A++	A++
Heating (Rated)	Capacity	W	4,000 (1,770-4,650)	5,900 (1,590-6,270)
	Power Input	W	1,000	1,550
	COP	W/W	4,00	3,71
Heating (Seasonal)	Capacity	kW	3,700	4,400
	SCOP	W/W	4,40	4,40
	Energy Class	--	A+	A+
Indoor Unit				
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Airflow Rate (H/M/L)	m³/h		600/500/400	700/600/510
Sound Pressure Level (H/M/L)	dB(A)		38/34/30	42/38/34
Dimensions (WxHxD) - Body	mm		570 × 215 × 570	570 × 215 × 570
Packing Dimensions (WxHxD) - Body	mm		730 × 292 × 668	730 × 292 × 668
Net/Gross Weight - Body	kg		15,5/18,5	15,5/18,5
Net Dimensions (WxHxD) - Panel	mm		620 × 40 × 620	620 × 40 × 620
Packing Dimensions (WxHxD) - Panel	mm		690 × 115 × 680	690 × 115 × 680
Net/Gross Weight - Panel	kg		2,6/4,5	2,6/4,5
Outdoor Unit				
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Airflow Rate	m³/h		2,300	2,300
Sound Pressure Level	dB(A)		50,0	51,0
Net Dimensions (WxHxD)	mm		810 × 580 × 280	810 × 580 × 280
Packing Dimensions (WxHxD)	mm		940 × 640 × 420	940 × 640 × 420
Net/Gross Weight	kg		34,0/38,5	36,0/40,0
Compressor Type	--		Rotary	Rotary
Refrigerant	--		R32	R32
Factory Charge	kg		0,85	0,97
Liquid Pipe	mm (inch)		6,35 (1/4)	6,35 (1/4)
Gas Pipe	mm (inch)		9,52 (3/8)	12,70 (1/2)
Max Piping Length	m		25	30
Max. Height	m		15	15
Operation Range (Cooling/Heating)	°C		-15 ~ 48/-15 ~ 24	-15 ~ 48/-15 ~ 24

NOTES:

1. ACTherm reserves the right to make changes without notice due to product improvements.
2. Cooling: 27°C DB/19°C WB(Indoor) & 35°C DB/27°C WB(Outdoor) - Heating: 20°C DB(Indoor) & 7°C DB(Outdoor)

* Indoor units for Multisplit

4-Way Cassette

R32 Inverter



WiFi Control



ON-OFF Function



Room Card Control



Fire Leakage Control



Vertical Auto Swing



High Ceiling



Fresh Air Intake



Silver Ion Filter



I Feel



INDOOR UNIT			ACS-IU24DY-IN*	ACS-IU36DY-IN	ACS-IU48DY-IN	ACS-IU60DY-IN
OUTDOOR UNIT			ACS-OU24UN-IN	ACS-OU36UN-IN	ACS-OU48UN-IN	ACS-OU60UN-IN
Cooling (Rated)	Capacity	W	7.300 (2.400-7.850)	10.500 (3.530-12.000)	14.400 (3.400-16.200)	17.200 (3.300-18.000)
	Power Input	W	2.100	3.620	4.770	6.600
	EER	W/W	3.48	2.90	3.02	2.61
Cooling (Seasonal)	Capacity	W	7.300	10.500	—	—
	SEER	W/W	6,60	6,10	—	—
	Energy Class	--	A++	A++	—	—
Heating (Rated)	Capacity	W	8.300 (2.100-8.800)	11.300 (3.320-13.000)	17.000 (3.700-18.000)	20.000 (3.000-21.000)
	Power Input	W	2.100	3.620	4.770	6.600
	COP	W/W	3,82	3,50	3,66	3,01
Heating (Seasonal)	Capacity	kW	6.000	8.600	—	—
	SCOP	W/W	4,40	4,00	—	—
	Energy Class	--	A+	A+	—	—
Indoor Unit						
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Airflow Rate (H/M/L)	m³/h		1.180/980/720	1.600/1.300/1.000	2.100/1.700/1.400	2.100/1.700/1.400
Sound Pressure Level (H/M/L)	dB(A)		45/41/37	50/46/42	53/46/44	53/46/44
Dimensions (WxHxD) - Body	mm		840x248x840	840x248x840	840x298x840	840x298x840
Packing Dimensions (WxHxD) - Body	mm		996x370x956	996x370x956	996x420x956	996x420x956
Net/Gross Weight - Body	kg		25,0/34,0	27,0/36,0	32,0/41,0	32,0/41,0
Net Dimensions (WxHxD) - Panel	mm		950x45x950	950x45x950	950x45x950	950x45x950
Packing Dimensions (WxHxD) - Panel	mm		1.025x120x1.015	1.025x120x1.015	1.025x120x1.015	1.025x120x1.015
Net/Gross Weight - Panel	kg		6,5/9,5	6,5/9,5	6,5/9,5	6,5/9,5
Outdoor Unit						
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	380-415V,3Ph,50Hz	380-415V,3Ph,50Hz	380-415V,3Ph,50Hz
Airflow Rate	m³/h		3.150	3.800	6.300	6.300
Sound Pressure Level	dB(A)		56,0	57,0	59,0	63,0
Net Dimensions (WxHxD)	mm		860x670x310	950x840x340	950x1.386x340	950x1.386x340
Packing Dimensions (WxHxD)	mm		990x730x450	1.110x920x460	1.110x1.530x460	1.110x1.530x460
Net/Gross Weight	kg		49,0/53,0	70,0/75,0	101,5/114,5	109,0/122,0
Compressor Type	--		Rotary	Rotary	Rotary	Rotary
Refrigerant	--		R32	R32	R32	R32
Factory Charge	kg		1,40	2,00	3,00	3,40
Liquid Pipe	mm (inch)		9,52 (3/8)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)
Gas Pipe	mm (inch)		15,88 (5/8)	15,88 (5/8)	15,88 (5/8)	15,88 (5/8)
Max Piping Length	m		50	50	50	50
Max. Height	m		30	30	30	30
Operation Range (Cooling/Heating)	°C		-15 ~ 48/-15 ~ 24	-15 ~ 48/-15 ~ 24	-15 ~ 48/-15 ~ 24	-15 ~ 48/-15 ~ 24

NOTES:

1. ACTherm reserves the right to make changes without notice due to product improvements.
2. Cooling: 27°C DB/19°C WB(Indoor) & 35°C DB/27°C WB(Outdoor) - Heating: 20°C DB(Indoor) & 7°C DB(Outdoor)
- 3- 60K capacity Outdoor units have heating belt.

* Indoor units for Multisplit

Slim Duct

R32 Inverter



WiFi Control



ON-OFF
Function



Room Card
Control



Fire Leakage
Control



Water Level
Switch



Built-in Drain
Pump



Slim Design



Filter Clean
Signal



Universal Unit



INDOOR UNIT			ACS-IU12KT-IN*	ACS-IU18KT-IN*
OUTDOOR UNIT			ACS-OU12UN-IN	ACS-OU18UN-IN
Cooling (Rated)	Capacity	W	3.520 (1.720-3.850)	5.300 (2.600-5.600)
	Power Input	W	1.005	1.610
	EER	W/W	3.50	3.29
Cooling (Seasonal)	Capacity	W	3.520	5.300
	SEER	W/W	6.30	6.40
	Energy Class	--	A++	A++
Heating (Rated)	Capacity	W	3.800 (1.770-4.220)	5.800 (3.000-6.100)
	Power Input	W	1.000	1.540
	COP	W/W	3.80	3.77
Heating (Seasonal)	Capacity	W	3.500	4.400
	SCOP	W/W	4.00	4.00
	Energy Class	--	A+	A+
Indoor Unit				
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Airflow Rate (H/M/L)	m³/h		600/484/400	900/770/650
External Static Pressure	Pa		35 (0-50)	35 (0-50)
Sound Pressure Level (H/M/L)	dB(A)		36/33/30	41/37/33
Net Dimensions (WxHxD)	mm		910x190x447	1.180x190x447
Packing Dimensions (WxHxD)	mm		1.080x285x565	1.350x285x565
Net/Gross Weight	kg		18,0/21,5	22,5/26,0
Outdoor Unit				
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Airflow Rate	m³/h		2.300	2.300
Sound Pressure Level	dB(A)		50,0	51,0
Net Dimensions (WxHxD)	mm		810x580x280	810x580x280
Packing Dimensions (WxHxD)	mm		940x640x420	940x640x420
Net/Gross Weight	kg		34,0/38,5	36,0/40,0
Compressor Type	--		Rotary	Rotary
Refrigerant	--		R32	R32
Factory Charge	kg		0.85	0.97
Liquid Pipe	mm (inch)		6,35 (1/4)	6,35 (1/4)
Gas Pipe	mm (inch)		9,52 (3/8)	12,70 (1/2)
Max Piping Length	m		25	30
Max. Height	m		15	15
Operation Range (Cooling/Heating)	°C		-15 ~ 48/-15 ~ 24	-15 ~ 48/-15 ~ 24

NOTES:

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 2. Cooling: 27°C DB/19°C WB(Indoor) & 35°C DB/27°C WB(Outdoor) - Heating: 20°C DB(Indoor) & 7°C DB(Outdoor)
- * Indoor units for Multisplit

MSP Duct

R32 Inverter



WiFi Control



ON-OFF Function



Room Card Control



Fire Leakage Control



Water Level Switch



Built-in Drain Pump



Slim Design



Filter Clean Signal



I Feel



INDOOR UNIT			ACS-IU24KT-IN*	ACS-IU48KT-IN	ACS-IU60KT-IN
OUTDOOR UNIT			ACS-OU24UN-IN	ACS-OU48UN-IN	ACS-OU60UN-IN
Cooling (Rated)	Capacity	W	7.300 (2.450-7.850)	14.400 (3.200~16.000)	17.500 (3.300-18.500)
	Power Input	W	2.028	4.780	6.600
	EER	W/W	3,60	3,01	2,65
Cooling (Seasonal)	Capacity	W	7.300	—	—
	SEER	W/W	7,00	—	—
	Energy Class	--	A++	—	—
Heating (Rated)	Capacity	W	8.000 (2.200-8.700)	17.300 (3.400-18.500)	18.500 (3.000~19.500)
	Power Input	W	2.075	4.670	6.100
	COP	W/W	3,86	3,70	3,03
Heating (Seasonal)	Capacity	W	6.000	—	—
	SCOP	W/W	4,05	—	—
	Energy Class	--	A+	—	—
Indoor Unit					
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Airflow Rate (H/M/L)	m³/h		1.300/1.130/960	2.400/2.200/1.900	2.400/2.200/1.900
External Static Pressure	Pa		100 (0-150)	100 (0-150)	100 (0-150)
Sound Pressure Level (H/M/L)	dB(A)		38/34/30	48/45/42	49/46/43
Net Dimensions (WxHxD)	mm		1.140x268x720	1.300x350x800	1.300x350x800
Packing Dimensions (WxHxD)	mm		1.330x360x870	1.550x410x940	1.550x410x940
Net/Gross Weight	kg		37,5/44,5	51,0/60,0	51,0/60,0
Outdoor Unit					
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	380-415V,3Ph,50Hz	380-415V,3Ph,50Hz
Airflow Rate	m³/h		3.150	6.300	6.300
Sound Pressure Level	dB(A)		56,0	59,0	63,0
Net Dimensions (WxHxD)	mm		860x670x310	950x1.386x340	950x1.386x340
Packing Dimensions (WxHxD)	mm		990x730x450	1.110x1.530x460	1.110x1.530x460
Net/Gross Weight	kg		49,0/53,0	101,5/114,5	109,0/122,0
Compressor Type	--		Rotary	Rotary	Rotary
Refrigerant	--		R32	R32	R32
Factory Charge	kg		1,40	3,00	3,40
Liquid Pipe	mm (inch)		9,52 (3/8)	9,52 (3/8)	9,52 (3/8)
Gas Pipe	mm (inch)		15,88 (5/8)	15,88 (5/8)	15,88 (5/8)
Max Piping Length	m		50	50	50
Max. Height	m		30	30	30
Operation Range (Cooling/Heating)	°C		-15 ~ 48/-15 ~ 24	-15 ~ 48/-15 ~ 24	-15 ~ 48/-15 ~ 24

NOTES:

1. ACTherm reserves the right to make changes without notice due to product improvements.
2. Cooling: 27°C DB/19°C WB(Indoor) & 35°C DB/27°C WB(Outdoor) - Heating: 20°C DB(Indoor) & 7°C DB(Outdoor)
- 3- 60K capacity Outdoor units have heating belt.

* Indoor units for Multisplit

Ceiling & Floor

R32 Inverter



WiFi Control



ON-OFF
Function



Room Card
Control



Fire Leakage
Control



Vertical
Auto Swing



High Ceiling



Slim Design



Silver
Ion Filter



I Feel



INDOOR UNIT			ACS-IU24YT-IN	ACS-IU48YT-IN
OUTDOOR UNIT			ACS-OU24UN-IN	ACS-OU48UN-IN
Cooling (Rated)	Capacity	W	6.900 (2.500-7.900)	14.300 (3.100-16.100)
	Power Input	W	2.150	4.710
	EER	W/W	3,21	3,04
Cooling (Seasonal)	Capacity	W	6.900	—
	SEER	W/W	6,10	—
	Energy Class	--	A++	—
Heating (Rated)	Capacity	W	7.800 (2.200-9.200)	16.700 (3.600-18.000)
	Power Input	W	2.350	5.580
	COP	W/W	3,32	2,99
Heating (Seasonal)	Capacity	W	6.000	—
	SCOP	W/W	4,20	—
	Energy Class	--	A+	—
Indoor Unit				
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Airflow Rate (H/M/L)	m³/h		1.100/950/800	2.000/1.600/1.200
Sound Pressure Level (H/M/L)	dB(A)		51/48/45	55/51/48
Dimensions (WxHxD) - Body	mm		990x680x230	1.580x680x230
Packing Dimensions (WxHxD) - Body	mm		1.100x820x350	1.690x820x350
Net/Gross Weight - Body	kg		30,0/35,0	48,0/56,0
Outdoor Unit				
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	380-415V,3Ph,50Hz
Airflow Rate	m³/h		3.150	6.300
Sound Pressure Level	dB(A)		56,0	59,0
Net Dimensions (WxHxD)	mm		860x670x310	950x1.386x340
Packing Dimensions (WxHxD)	mm		990x730x450	1.110x1.530x460
Net/Gross Weight	kg		49,0/53,0	101,5/114,5
Compressor Type	--		Rotary	Rotary
Refrigerant	--		R32	R32
Factory Charge	kg		1,40	3,00
Liquid Pipe	mm (inch)		9,52 (3/8)	9,52 (3/8)
Gas Pipe	mm (inch)		15,88 (5/8)	15,88 (5/8)
Max Piping Length	m		50	50
Max. Height	m		30	30
Operation Range (Cooling/Heating)	°C		-15 ~ 48/-15 ~ 24	-15 ~ 48/-15 ~ 24

NOTES:

1. ACTherm reserves the right to make changes without notice due to product improvements.
2. Cooling: 27°C DB/19°C WB(Indoor) & 35°C DB/27°C WB(Outdoor) - Heating: 20°C DB(Indoor) & 7°C DB(Outdoor)



WiFi Control



ON-OFF Function



Room Card Control



Fire Leakage Control



Vertical Auto Swing



Wired Controller



Slim Design



Universal Unit



I Feel



INDOOR UNIT			ACS-IU12KO-IN*	ACS-IU18KO-IN*
OUTDOOR UNIT			ACS-OU12UN-IN	ACS-OU18UN-IN
Cooling (Rated)	Capacity	W	3.520 (1.720-3.850)	5.000 (1.730-5.430)
	Power Input	W	1.005	1.540
	EER	W/W	3.50	3.24
Cooling (Seasonal)	Capacity	W	3.520	5.000
	SEER	W/W	6.50	6.50
	Energy Class	--	A++	A++
Heating (Rated)	Capacity	W	3.800 (1.770-4.220)	5.100 (1.580-6.370)
	Power Input	W	995	1.374
	COP	W/W	3.82	3.71
Heating (Seasonal)	Capacity	W	3.500	4.600
	SCOP	W/W	4.10	4.10
	Energy Class	--	A+	A+
Indoor Unit				
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Airflow Rate (H/M/L)	m³/h		600/510/440	700/600/470
Sound Pressure Level (H/M/L)	dB(A)		40/35/33	44/40/35
Dimensions (WxHxD) - Body	mm		700x630x220	700x630x220
Packing Dimensions (WxHxD) - Body	mm		840x730x340	840x730x340
Net/Gross Weight - Body	kg		15,0/19,0	15,0/19,0
Outdoor Unit				
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Airflow Rate	m³/h		2.300	2.300
Sound Pressure Level	dB(A)		50,0	51,0
Net Dimensions (WxHxD)	mm		810x580x280	810x580x280
Packing Dimensions (WxHxD)	mm		940x640x420	940x640x420
Net/Gross Weight	kg		34,0/38,5	36,0/40,0
Compressor Type	--		Rotary	Rotary
Refrigerant	--		R32	R32
Factory Charge	kg		0.85	0.97
Liquid Pipe	mm (inch)		6,35 (1/4)	6,35 (1/4)
Gas Pipe	mm (inch)		9,52 (3/8)	12,70 (1/2)
Max Piping Length	m		25	30
Max. Height	m		15	15
Operation Range (Cooling/Heating)	°C		-15 ~ 48/-15 ~ 24	-15 ~ 48/-15 ~ 24

NOTES:

1. ACTherm reserves the right to make changes without notice due to product improvements.
 2. Cooling: 27°C DB/19°C WB(Indoor) & 35°C DB/27°C WB(Outdoor) - Heating: 20°C DB(Indoor) & 7°C DB(Outdoor)
- * Indoor units for Multisplit

EPR-R32

R32 Inverter



WiFi Control



ON-OFF Function



Room Card Control



Fire Leakage Control



Vertical Auto Swing



Sleep Mode



Wired Controller



I Feel



R32 New Gas



INDOOR UNIT			ACS-IU48ST-IN
OUTDOOR UNIT			ACS-OU48ST-IN
Cooling (Rated)	Capacity	W	12,300 (3,650-13,500)
	Power Input	W	4,100
	EER	W/W	3,00
Heating (Rated)	Capacity	W	14,000 (4,000-18,000)
	Power Input	W	3,900
	COP	W/W	3,59
Indoor Unit			
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz
Airflow Rate (H/M/L)	m³/h		1,850/1,500/1,300
Sound Pressure Level (H/M/L)	dB(A)		50/48/45
Dimensions (WxHxD) - Body	mm		580x1,870x380
Packing Dimensions (WxHxD) - Body	mm		690x2,000x480
Net/Gross Weight - Body	kg		51,0/62,0
Outdoor Unit			
Power Supply	Ph-V-Hz		380-415V,3Ph,50Hz
Airflow Rate	m³/h		6,300
Sound Pressure Level	dB(A)		62,0
Net Dimensions (WxHxD)	mm		950x1,050x340
Packing Dimensions (WxHxD)	mm		1,110x1,200x460
Net/Gross Weight	kg		85,0/95,0
Compressor Type	--		Rotary
Refrigerant	--		R32
Factory Charge	kg		2,50
Liquid Pipe	mm (inch)		9,52 (3/8)
Gas Pipe	mm (inch)		19,05 (3/4)
Max Piping Length	m		50
Max. Height	m		30
Operation Range (Cooling/Heating)	°C		-15 ~ 48/-15 ~ 24

NOTES:

1. ACTherm reserves the right to make changes without notice due to product improvements.
2. Cooling: 27°C DB/19°C WB(Indoor) & 35°C DB/27°C WB(Outdoor) - Heating: 20°C DB(Indoor) & 7°C DB(Outdoor)

EPR-R410A

R410A On-Off



I Feel



ON-OFF
Function



Room Card
Control



Fire Leakage
Control



Horizontal
Auto Swing



Sleep Mode



Wired
Controller



INDOOR UNIT			ACS-IU48ST-OF	ACS-IU60ST-OF
OUTDOOR UNIT			ACS-OU48UN-OF	ACS-OU60UN-OF
Cooling	Capacity	W	14.000	16.000
	Power Input	W	4.650	5.310
	EER	W/W	3,01	3,01
Heating	Capacity	W	15.000	17.000
	Power Input	W	4.400	5.640
	COP	W/W	3,41	3,01
Indoor Unit				
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Airflow Rate (H/M/L)	m³/h		2.000/1.800/1.600	2.000/1.800/1.600
Sound Pressure Level (H/M/L)	dB(A)		52/50/48	52/50/48
Net Dimensions (WxHxD)	mm		580 × 1.870 × 380	580 × 1.870 × 380
Packing Dimensions (WxHxD)	mm		690 × 2.000 × 480	690 × 2.000 × 480
Net/Gross Weight	kg		55,0/66,0	55,0/66,0
Outdoor Unit				
Power Supply	Ph-V-Hz		380-415V,3Ph,50Hz	380-415V,3Ph,50Hz
Airflow Rate	m³/h		4.000	6.000
Sound Pressure Level	dB(A)		55,0	58,0
Net Dimensions (WxHxD)	mm		950 × 1.050 × 340	950 × 1.386 × 340
Packing Dimensions (WxHxD)	mm		1.110 × 1.200 × 460	1.110 × 1.530 × 460
Net/Gross Weight	kg		96,0/103,0	106,0/116,0
Compressor Type	--		Rotary	Rotary
Refrigerant	--		R410A	R410A
Factory Charge	kg		2,40	3,10
Liquid Pipe	mm (inch)		9,52 (3/8)	9,52 (3/8)
Gas Pipe	mm (inch)		19,05 (3/4)	19,05 (3/4)
Max Piping Length	m		60	60
Max. Height	m		30	30
Operation Range (Cooling/Heating)	°C		-15 ~ 43/-10 ~ 24	-15 ~ 43/-10 ~ 24

NOTES:

1. ACTherm reserves the right to make changes without notice due to product improvements.
2. Cooling: 27°C DB/19°C WB(Indoor) & 35°C DB/27°C WB(Outdoor) - Heating: 20°C DB(Indoor) & 7°C DB(Outdoor)

MSP Duct

R410A On-Off



WiFi Control



ON-OFF Function



Room Card Control



Fire Leakage Control



Water Level Switch



Wired Controller



Filter Clean Signal



INDOOR UNIT			ACS-IU48KT-OF	ACS-IU60KT-OF
OUTDOOR UNIT			ACS-OU48UN-OF	ACS-OU60UN-OF
Cooling	Capacity	W	14.000	16.000
	Power Input	W	4.651	5.694
	EER	W/W	3,01	2,81
Heating	Capacity	W	15.000	17.500
	Power Input	W	4.532	5.814
	COP	W/W	3,31	3,01
Indoor Unit				
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Airflow Rate (H/M/L)	m³/h		2.000/1.800/1.600	2.000/1.800/1.600
External Static Pressure	Pa		80 (80-120)	80 (80-120)
Sound Pressure Level (H/M/L)	dB(A)		46/44/42	46/44/42
Net Dimensions (WxHxD)	mm		1.386x350x800	1.386x350x800
Packing Dimensions (WxHxD)	mm		1.550x410x940	1.550x410x940
Net/Gross Weight	kg		54,0/62,0	54,0/62,0
Outdoor Unit				
Power Supply	Ph-V-Hz		380-415V,3Ph,50Hz	380-415V,3Ph,50Hz
Airflow Rate	m³/h		4.000	6.000
Sound Pressure Level	dB(A)		55,0	58,0
Net Dimensions (WxHxD)	mm		950x1.050x340	950x1.386x340
Packing Dimensions (WxHxD)	mm		1.110x1.200x460	1.110x1.530x460
Net/Gross Weight	kg		96,0/103,0	106,0/116,0
Compressor Type	--		Rotary	Rotary
Refrigerant	--		R410A	R410A
Factory Charge	kg		2,40	3,10
Liquid Pipe	mm (inch)		9,52 (3/8)	9,52 (3/8)
Gas Pipe	mm (inch)		19,05 (3/4)	19,05 (3/4)
Max Piping Length	m		60	60
Max. Height	m		30	30
Operation Range (Cooling/Heating)	°C		-15 ~ 43/-10 ~ 24	-15 ~ 43/-10 ~ 24

NOTES:

1. ACTherm reserves the right to make changes without notice due to product improvements.
2. Cooling: 27°C DB/19°C WB(Indoor) & 35°C DB/27°C WB(Outdoor) - Heating: 20°C DB(Indoor) & 7°C DB(Outdoor)





MULTISPLIT FREE MATCH



Multisplit



Compact Design



Up To 5



Big Family



New Path Design



Compact Design

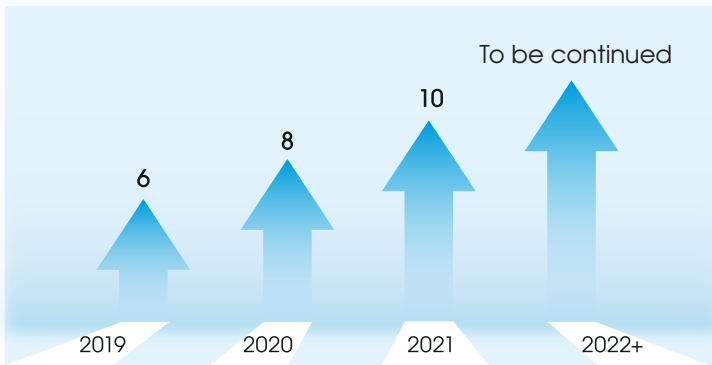
Lighter and more compact units for easy installation, flexible installation location, larger packing volume and various transportation.

Note: QUATECH has the most compact 1 by 2 multi-split outdoor unit model in class.

Freematch Up To 5

One Freematch outdoor unit can be matched with up to 5 different types of indoor unit and each indoor unit can be individually controlled.

Note: Refer to the Freematch match table for more information.



Big Family

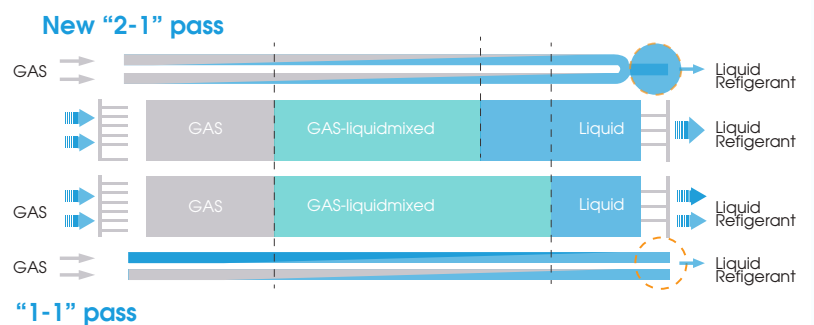
We will be having 10 models of R32 Freematch on sale in 2021, which can provide customers with more choices. And this family are all DC so that they can be used in 50Hz or 60Hz countries and regions.

Capacity range: 3500W ~ 12500W

Match range: 1 by 2 ~ 1 by 5

New Path Design

Reverse path design improves efficiency of exchanger greatly. At the rear of the path are super cooling paths, which can improve the cooling capacity and add the length of pipes between indoor and outdoor units. While it is running heating mode, this can prevent base pan from ice block.



Freematch ODU

R32 Inverter



R32 New Gas



Leakage
Detective



Pump Down



Cooling at
-20°C



Low Temperature
Heating



Easy Installation



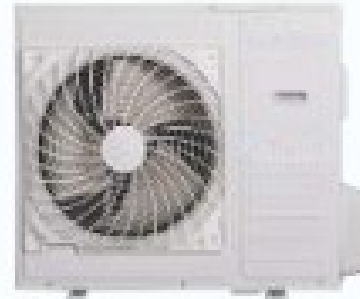
Intelligent
Defrost



Spacing Saving



Service Checker



OUTDOOR UNIT			ACS-OU18ML-2P	ACS-OU24ML-3P	ACS-OU36ML-4P	ACS-OU42ML-5P
Matching Indoor Units			2	3	4	5
Cooling (Rated)	Capacity	W	5.000 (1.200-7.000)	7.000 (2.000-10.000)	10.000 (2.600-11.500)	12.500 (3.800-15.300)
	Power Input	W	1.260	1.750	3.100	3.610
	EER	W/W	4,00	4,00	3,23	3,46
Cooling (Seasonal)	Capacity	W	5.000	7.000	10.000	12.500
	SEER	W/W	7,60	7,90	6,50	-
	Energy Class	--	A++	A++	A++	-
Heating (Rated)	Capacity	W	5.500 (1.200-7.500)	8.000 (2.000-10.000)	11.000 (2.200-12.000)	13.500 (3.300-17.200)
	Power Input	W	1.300	2.000	2.800	3.600
	COP	W/W	4,23	4,00	3,93	3,75
Heating (Seasonal)	Capacity	kW	4.500	5.000	8.000	-
	SCOP	W/W	4,40	4,40	4,01	-
	Energy Class	--	A+	A+	A+	-
Power Supply	Ph-V-Hz		220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Airflow Rate	m³/h		2.300	3.150	4.000	5.000
Sound Pressure Level	dB(A)		49,0	50,0	60,0	61,0
Dimensions (WxHxD)	mm		810x580x280	860x670x310	950x840x340	950x1.050x340
Packing Dimensions (WxHxD)	mm		940x630x385	990x730x450	1.110x460x920	1.110x1.200x460
Net/Gross Weight	kg		35,5/39,0	49,0/53,0	73,0/78,0	90,0/102,0
Compressor Type	--		Rotary	Rotary	Rotary	Rotary
Refrigerant	--		R32	R32	R32	R32
Factory Charge	kg		1,05	1,46	2,20	3,00
Liquid Pipe	mm (inch)		6,35 (1/4) x 2	6,35 (1/4) x 3	6,35 (1/4) x 4	6,35 (1/4) x 5
Gas Pipe	mm (inch)		9,52 (3/8) x 2	9,52 (3/8) x 3	9,52 (3/8) x 4	9,52 (3/8) x 5
Max Piping Length	m		30	50	60	80
Max. Height	m		15	15	15	15
Operation Range (Cooling/Heating)	°C		-15 ~ 50/-20 ~ 24	-15 ~ 50/-20 ~ 24	-15 ~ 48/-15 ~ 24	-15 ~ 48/-15 ~ 24

NOTES:

1. ACTherm reserves the right to make changes without notice due to product improvements.
2. Cooling: 27°C DB/19°C WB(Indoor) & 35°C DB/27°C WB(Outdoor) - Heating: 20°C DB(Indoor) & 7°C DB(Outdoor)

Combination Chart

COMBINATION	COOLING CAPACITY					HEATING CAPACITY				
	A	B	C	D	E	A	B	C	D	E
ACS-OU18ML-2P	W	W	W	W	W	W	W	W	W	W
09+09	2600	2600				3000	3000			
09+12	2400	2800				2500	3500			
12+12	2600	2600				3000	3000			

COMBINATION	COOLING CAPACITY					HEATING CAPACITY				
	A	B	C	D	E	A	B	C	D	E
ACS-OU36ML-4P	W	W	W	W	W	W	W	W	W	W
09+18	2600	5000				3000	5800			
12+12	3500	3500				3700	3700			
12+18	3500	5000				3700	5800			
18+18	5000	5000				5500	5500			
09+09+09	2600	2600	2600			3000	3000	3000		
09+09+12	2600	2600	3500			3000	3000	3700		
09+09+18	2550	2550	4900			2797	2797	5407		
09+12+12	2600	3500	3500			3000	3700	3700		
09+12+18	2400	2960	4640			2640	3256	5104		
09+18+18	2060	3970	3970			2260	4370	4370		
12+12+12	3200	3200	3200			3667	3667	3667		
12+12+18	2800	2800	4400			3083	3083	4833		
12+18+18	2420	3790	3790			2660	4170	4170		
18+18+18	3300	3300	3300			3500	3500	3500		
09+09+09+09	2500	2500	2500	2500		2750	2750	2750	2750	
09+09+09+12	2364	2364	2364	2909		2598	2598	2598	3205	
09+09+09+18	2031	2031	2031	3906		2230	2230	2230	4311	
09+09+12+12	2241	2241	2759	2759		2463	2463	3037	3037	
09+09+12+18	1940	1940	2388	3731		2129	2129	2626	4116	
09+09+18+18	1711	1711	3289	3289		1875	1875	3625	3625	
09+12+12+12	2131	2623	2623	2623		2340	2887	2887	2887	
09+12+12+18	1857	2286	2286	3571		2037	2512	2512	3938	
12+12+12+12	2500	2500	2500	2500		2750	2750	2750	2750	
12+12+12+18	2192	2192	2192	3425		2408	2408	2408	3775	

COMBINATION	COOLING CAPACITY					HEATING CAPACITY				
	A	B	C	D	E	A	B	C	D	E
ACS-OU24ML-3P	W	W	W	W	W	W	W	W	W	W
09+09	2600	2600				3000	3000			
09+12	2600	3500				3000	3700			
09+18	2460	4540				2820	5180			
12+12	3500	3500				3700	3700			
12+18	2800	4200				3220	4780			
18+18	3500	3500				4000	4000			
09+09+09	2333	2333	2333			2667	2667	2667		
09+09+12	2170	2170	2660			2475	2475	3050		
09+09+18	1800	1800	3400			2000	2000	4000		
09+12+12	2020	2490	2490			2310	2845	2845		
12+12+12	2333	2333	2333			2666	2666	2666		

COMBINATION	COOLING CAPACITY					HEATING CAPACITY				
	A	B	C	D	E	A	B	C	D	E
ACS-OU42ML-5P	W	W	W	W	W	W	W	W	W	W
09+09+18	2600	2600	5200			2700	2700	5200		
09+09+24	2600	2600	7000			2700	2700	6500		
09+12+18	2600	3500	5200			2700	3500	5000		
09+18+18	2600	5000	5000			2700	5000	5000		
09+18+24	2600	5000	6500			2700	4500	6500		
12+12+24	3500	3500	7000			3600	3600	6500		
12+18+18	3500	5000	5000			3600	5000	5000		
12+18+24	3500	4500	6500			3600	4500	6500		
18+18+18	4500	4500	4500			4500	4500	4500		
09+09+09+09	2600	2600	2600	2600		2700	2700	2700	2700	
09+09+09+12	2600	2600	2600	3500		2700	2700	2700	3700	
09+09+09+18	2600	2600	2600	5000		2700	2700	2700	5500	
09+09+09+24	2600	2600	2600	7000		2700	2700	2700	6450	
09+09+12+12	2600	2600	3500	3500		2700	2700	3700	3700	
09+09+18+12	2600	2600	5000	3500		2500	2500	6450	3500	
09+09+24+12	2500	2500	6500	3300		2500	2500	6450	3500	
09+12+12+12	2600	3500	3500	3500		2700	3700	3700	3700	
09+18+12+12	2600	5000	3500	3500		2500	5000	3600	3600	
12+12+12+12	3500	3500	3500	3500		3600	3600	3600	3600	
18+12+12+12	4800	3300	3300	3300		4750	3400	3400	3400	
09+09+09+09+09	2500	2500	2500	2500	2500	2700	2700	2700	2700	2700
09+09+09+09+12	2500	2500	2500	2500	3400	2600	2600	2600	2600	3500
09+09+09+09+18	2500	2500	2500	2500	4800	2500	2500	2500	2500	4800
09+09+09+12+12	2500	2500	2500	3400	3400	2500	2500	2500	3500	3500
09+09+12+12+12	2500	2500	3300	3300	3300	2400	2400	3350	3350	3350



CONTROL SYSTEMS & ACCESSORIES





YXE-C01U1(E)

Common wired controller with most functions.



YXE-A03U(E)

A wired controller with basic functions.



YXE-C02U1(E)

Common wired controller, being centrally controlled.



YJE-C01T(E)

Central controller, controlling 16 IDUs at most.



B541(E)

Communicating box used in central control system.



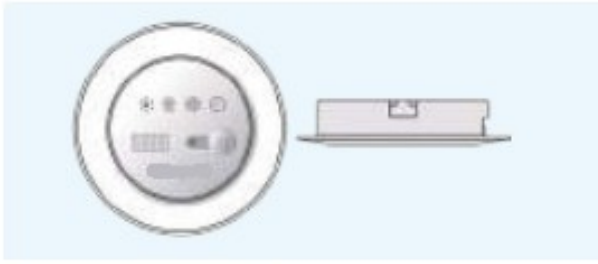
YXE-C03(E)

Simplified central controller, controlling 4 IDUs at most.



B542(E)

Communicating box used in simplified central control system.



R-A01Z(E)

Remote receiver kit, can work together with wired controller.



Pump P-16

External pump, used for AC without internal pump.

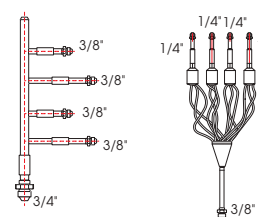
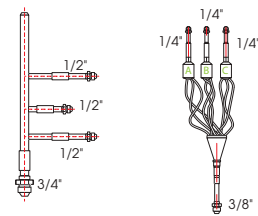
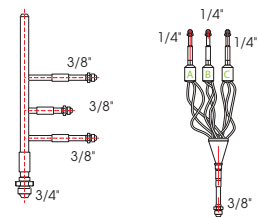
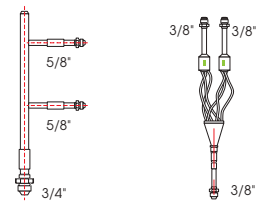
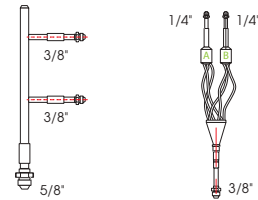


Pump P-12

Semi-external pump, used for AC without internal pump.

Branch Tubes

Split	Branch Tube	Liquid Tube	Gas Tube
Twin	FQ-2S3110(E)	5/8"x1-3/8"x2	3/8"x1-1/4"x2
Twin	FQ-2S4311(E)	3/4"x1-5/8"x2	3/8"x1-3/8"x2
Triple	FQ-3S4110(E)	3/4"x1-3/8"x3	3/8"x1-1/4"x3
Triple	FQ-3S4210(E)	3/4"x1-1/2"x3	3/8"x1-1/4"x3
Quadruple	FQ-4S4110(E)	3/4"x1-3/8"x4	3/8"x1-1/4"x4

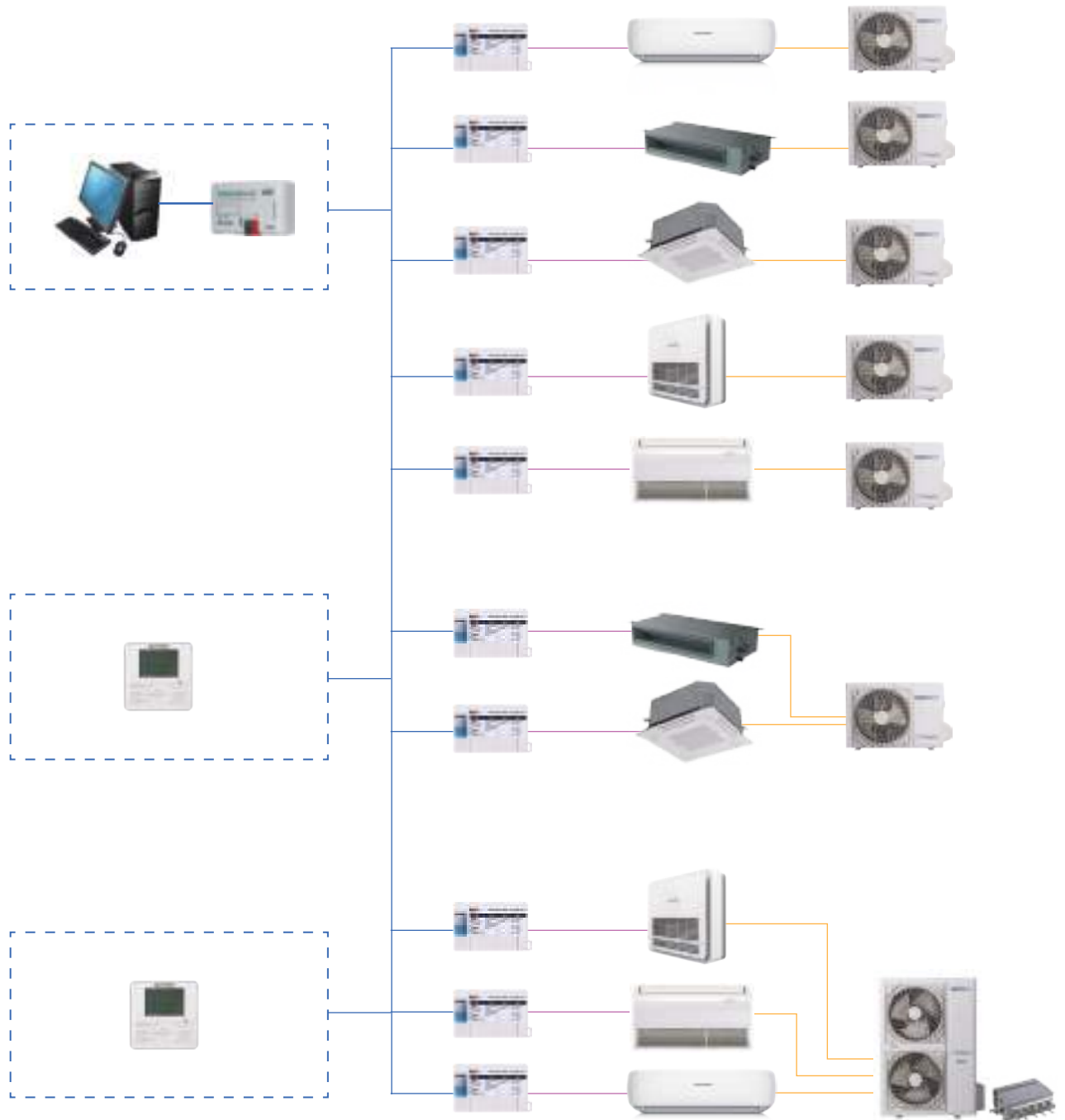


Controls

	YXE-A03U(E)	YXE-C01U1(E)	YXE-C02U1(E)	YXE-C03U(E)	YJE-C01T(E)
Main Function					
Max Connectable Indoor	1	1	1	4	16
Unit Modes	●	●	●	●	●
Temperature Setting	●	●	●	●	●
Timer	●	●	●	●	●
Sleep	●	●	●	●	●
Weekly Schedule	×	●	●	●	●
Error Code Display	●	●	●	●	●
One Error Shielded	●	●	●	●	●
Check	●	●	●	●	●
Wireless Remote Receive	●	●	×	●	×
Wireless Remote Receive Forbid	×	●	×	●	×
Touch Lock/Bottom Lock	●	●	●	●	●
Operation Monitor	●	●	●	●	●
Filter Cleaning Remind	●	●	●	●	●
Filter Cleaning Timing	●	●	●	●	●
°C/°F	●	●	●	●	●
Temperature Display switching	●	●	●	●	●
Clock	×	●	●	●	●
Mode Lock	●	●	●	●	●
Temperature Range Limit	●	●	●	●	●
Temperature Range Limit Forbid	×	●	●	●	●
Address Setting (For Being Controlled)	×	×	●	×	×
Simplified Central Controller	×	×	×	×	●
I Feel	×	●	●	●	●
Temperature Compensation	×	×	×	●	×
Temperature Compensation Forbid	●	●	●	●	●
High Ceiling Function	●	●	●	●	●
Duct Static Pressure Setting	×	●	●	●	●
On-off Setting	●	●	●	●	●
Auto Restart	●	●	●	●	●
Alarm On or Off	●	●	●	●	●
Dimer	●	●	●	●	●
Mute	●	●	●	●	●
Powerful	●	●	●	●	●
Up and Down Swing	×	●	●	●	●
Left and Right Swing	×	●	●	●	●
Main Fuction	●	●	●	●	●
Central&Group Control	●	●	●	●	●
LCD Screen					
Compact 86x86x15	●	●	●	●	●
Big120x120x20	●	×	×	×	×
Features	×	●	●	●	●
Power Supply					
12-17 V DC	●	●	●	●	×
175-264 V AC	×	×	×	×	●
Distance to the Indoor Unit	40m	40m	40m	40m	40m
Built-in Backup Power	×	×	×	×	×
Communicate					
BACnet	×	×	●	×	●

BEMS*

*BEMS: Building Energy Management System



Note:

The max quantity of indoor units is 16.

The max quantity of centralized controller is 2.

The quantity of upper computer is not limited.

SCCS*

*SCCS: Simplified Central Control System

