LIGHT COMMERCIAL
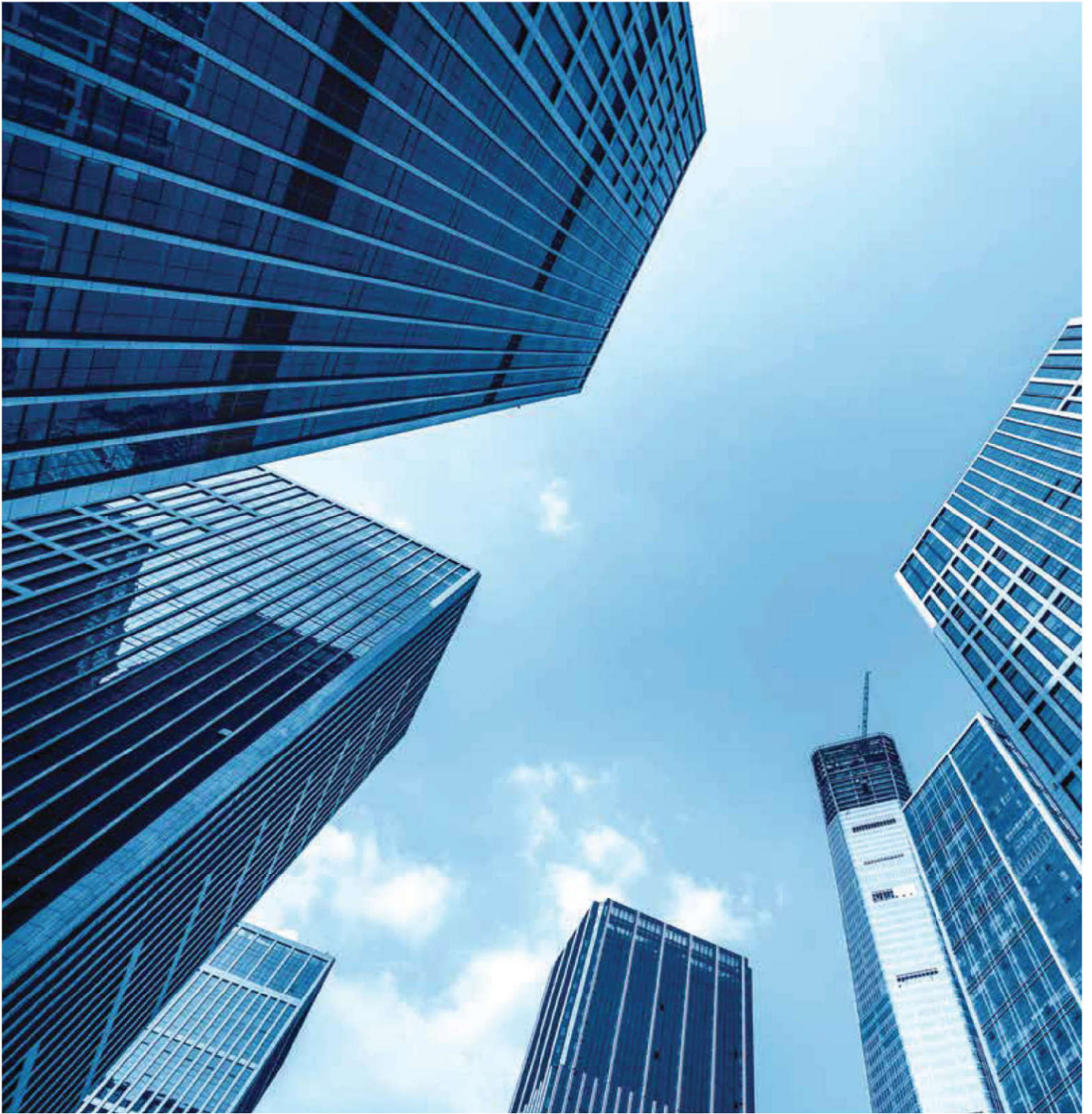# AIR CONDITIONERS CATALOGUE

AUFIT
AIR CONDITIONER

The AUX Group has 11 production plants in China, Brazil, Indonesia, Thailand and Poland.

AUFIT
AIR CONDITIONER

Light Commercial Air Conditioners

Outdoor unit

Round Flow Cassette

Floor-Ceiling

Duct

Light Commercial Air Conditioners

Healthy and Clean Air

Fresh air Intake
Ready to connect with an air duct to introduce fresh air from the environment.

Long Duration Filter
The newest generation of long-life filter offers easier maintenance and better air quality.

Comfort

Anti-Cold Air
During the heating operation, the motor will delay its operation for a few minutes to avoid recirculating cold air in the room.

Follow Me
The built-in temperature sensor in the wireless controller informs the air conditioner about the temperature around it and ensures the ideal conditions in that spot, as if the air conditioner was following you.

Fast Cooling and Heating
The new technology compressors can reach high speeds in seconds. The fast moving refrigerant can achieve fast both cooling and heating conditions, creating immediately the proper temperature conditions in the space.

Auto Louver Swing
With the automatic movement of the blinds horizontally and vertically the air diffuses in the room faster.

Effective Drying
Achieve the ideal humidity levels in your space, reducing the appearance of allergies and viral diseases, while protecting your space's building materials.

4way Air Flow
Simultaneously activate the vertical and horizontal automatic louver movements for smoother air distribution in the room.

Light
Press the button to turn off/on the light indicator on the unit's panel.

Silent Mode
With the press of a button, you can enjoy your ideal temperature setting at the lowest possible noise levels.

Reliability

Self-Diagnosis
In the event that an error hinders the proper operation of the unit, the self-diagnosis function will perform a brief check and will present the relevant error code in the display.

Low Ambient Cooling
Thanks to the electronic control board, the speed of the external fan varies automatically according to the outside temperature, allowing trouble-free operation at temperatures as low as -15°C.

Smart Defrost
The intelligent defrost function of AUX commercial air conditioners is automatically activated according to the surrounding conditions, unlike the standard time-based defrosting of air conditioners.

No-Frosting Design
The unique piping layout keeps the outdoor unit shell at a higher temperature while preventing condensation water build-up, increasing heat transfer efficiency and preventing moisture water runoff problems.

Golden Fin
Prevents bacterial reproduction and increases energy transfer efficiency. At the same time, the anti-corrosive effect of the gold coating of the element offers increased protection against rain, sea air and other corrosive elements.

Firep-resistant Electrical Box
The new electrical box has a fire protection action of the highest safety standards, protecting the inside of the unit from fire caused by an electrical spark.

Low Consumption

Sine Wave Control 180°
The 180° sine wave DC Inverter 180° technology offers a much wider frequency and voltage range, higher energy efficiency, smoother operation and lower noise levels.

All DC Drive
Higher efficiency and lower noise levels with the full integration of DC technology in the compressor, fan motor and electronic expansion valve.

Sleep Mode
The temperature of the unit will steadily adapt during the sleep hours to provide the ideal conditions for a sound night's sleep. During cooling mode, the unit will increase its temperature by 1 during the first hours and return to the set temperature before waking up, while during heating mode, the temperature will instead decrease by 1 degree.

Hydrophilic Aluminium Fins
Hydrophilic aluminium fins have improved by more than 10%. The inlet and outlet of the refrigerant are now separated, ensuring proper subcooling and enhancing the cooling capacity of the air conditioner.

Easy to Use

Timer
The Timer allows you to set the use of the air conditioner per day by selecting the automatic start and stop time of its operation.

Integrated Drain Pump
The integrated pump can lift the condensation water 1200 mm higher than the drainage basin.

Drainage Selection
Easier installation with the option of connecting the drain pipe on either the left or right side of the indoor unit.

Digital Display
The digital display allows the control of parameters such as internal temperature, operating mode and set temperature, facilitating the process of controlling the unit.

Remote Controller
Offers easy and quick control of the air conditioner, allowing its adjustment to the desired operating conditions from a distance.

Wired Controller
It offers quick and easy control of the air conditioner and allows it to be mounted on a wall to avoid loss of air conditioning. It is mainly used in commercial premises for easier handling of air conditioners.

Central Controller
The central controller offers access to weekly unit programming as well as zone and unit group settings, up to and including 64 units, with RS 485 wiring (converter required).

WiFi Control 2.0
Create the ideal conditions in your space from a distance. Choose the desired mode at any time, from anywhere and if you are and activate your air conditioner easily via your mobile phone or tablet.

Washable Filter
The air filter of the indoor unit can be removed and washed to keep the air in the room clean during operation of the air conditioner.

Auto Restart
In case the air conditioner stops unexpectedly due to a power failure, it will restart to the last settings automatically when the power comes back on.

R32

Outdoor unit

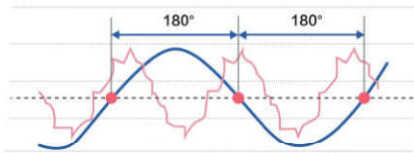Cniversal outdoor unit, compatible with every type of indoor unit

Low ambient operation

The outdoor units are designed to operate in Cooling or Heating mode even at temperatures of -15°C.
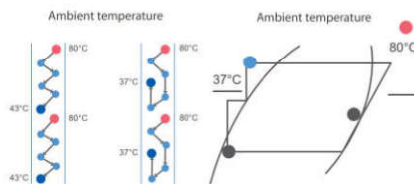
SEER: A++

SCOP: A+

High efficiency

Equipped with a high efficiency DC compressor, variable speed fan motor and 180° sine wave inverter, the outdoor units achieve efficiency factors greater than 6.1 SEER and 4.0 SCOP.

Sine wave control 180°

The 180° sine wave conversion technology allows the compressor to run smoothly, increasing significantly the efficiency of the unit.

Optimized refrigerant piping design

The design of the refrigerant piping ensures proper subcooling of the coolant and enhances the cooling capacity by separating the inlet and outlet of the refrigerant.

Simulation technology

The reliability of the system has been significantly improved by analyzing the stress distribution in the piping and its expansion and displacement during transport and operation of the unit.

Round Flow Cassette

Features

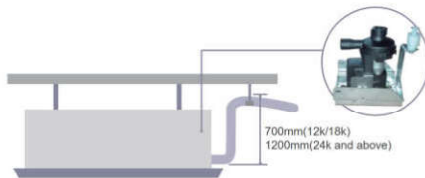|								
Auto Restart	Hydrophilic Aluminium Fins	Fast Cooling / Heating	Smart Defrost	Remote Controller	Low ambient Cooling	Washable Filter	Firep-resistant Electrical Box	Integrated Drain Pump
LED Display	Wired Controller	Central Controller	Golden Fin	WiFi Control 2.0				

- Standard
- Optional

Round Flow

Standard   Optional

360° Air Flow

The cassette panel offers 360° output, for faster and more even coverage of the space.

Integrated drain pump

700mm(12k/18k)
1200mm(24k and above)

The Integrated drain pump facilitates installation in any space as it can lift condensates up to 700mm (for 12000 and 18000 btu/h units) and up to 1200mm for 24000 btu/h units and above.

Fast Cooling (30") and heating (1')

$\frac{1}{3}$ Shorten start-up time

The new technology compressors can reach 3900 r/min in 30 seconds. The fast moving refrigerant can achieve cooling conditions in 30 seconds and heating conditions in 1 minute, creating immediately the proper temperature conditions in the space.

Fresh air intake

Ready to connect with an air duct to introduce fresh air from the environment.

Low noise levels

Low noise levels during operation, for ideal room conditions.

Round Flow Cassette

			ALCA-H12/AUFIT	ALCA-H18/AUFIT	ALCA-H24/AUFIT
Capacity & efficiency	Cooling / Heating	Btu/h	12000 (4600~15000) / 14300 (4200~18100)	18000 (5200~19100) / 19100 (4800~21200)	24000 (7400~28000) / 27300 (6800~31700)
		kW	3.60 (1.35~4.40) / 4.20 (1.24~5.30)	5.00 (1.53~5.60) / 5.60 (1.40~6.20)	7.00(2.16-8.20) / 8.00(1.98-9.30)
	SEER / SCOP	W/W	6.2 / 4.1	6.3 / 4.0	6.6 / 4.5
	Energy class (Cooling / Heating average zone)		A++ / A+	A++ / A+	A++ / A+
	Air supply	m³/h	700 / 600 / 530	700 / 600 / 530	1500 / 1350 / 1200
	Noise level - indoor	dB(A)	45 / 44 / 36	45 / 44 / 36	49 / 47 / 44
	Sound Power - indoor	dB(A)	56	56	56
	Noise level - outdoor	dB(A)	54	55	58
	Sound Power - outdoor	dB(A)	64	65	67
Electrical characteristics	Power supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1
	Consumption (Cooling / Heating)	W	1080 (260-1600) / 1230 (190-1510)	1630 (470-2300) / 1730 (460-2250)	2180 (670-3560) / 2100 (650-3620)
	Operating current (Cooling / Heating)	A	4.74 (1.1~5.76) / 5.40 (0.78~6.6)	7.16 (2.25~10.10) / 7.60 (2.20~9.88)	9.57 (3.21-15.63) / 9.22 (3.11-15.90)
	Power supply cables - outdoor	mm²	3x2.5	3x2.5	3x2.5
	Power supply cables - indoor (from outdoor)	mm²	3x1.5	3x1.5	3x1.5
	Communication wiring	mm²	2x0.75	2x0.75	2x0.75
Dimensions (WxDxH)	Indoor	mm	570×570×260	570×570×260	840×840×246
	Outdoor	mm	800×315×545	800×315×545	900×350×700
	Indoor (packaging)	mm	720×650×290	720×650×290	910×910×310
	Outdoor (packaging)	mm	920x400x620	920x400x620	1020×430×770
	Panel	mm	650×650×55	650×650×55	950×950×55
	Panel (packaging)	mm	710×710×80	710×710×80	1000×1000×100
Weight	Net / Gross (indoor)	kg	15.5 / 18	15.5 / 18	26 / 30
	Net / Gross (outdoor)	kg	35 / 38	37 / 40	51 / 55
	Net / Gross (Panel)	kg	2.2 / 3.7	2.2 / 3.7	5.3 / 7.8
Refrigerant Piping	Liquid / Gas	(inch)	1/4" | 1/2"	1/4" | 1/2"	3/8" | 5/8"

			ALCA-H24/ AUFIT	ALCA-H42/ AUFIT	ALCA-H48/ AUFIT	ALCA-H60/ AUFIT
Capacity & efficiency	Cooling / Heating	Btu/h	36000 (9800-44300) /38000 (8800-46000)	42000 (9800-46000) /46000 (8800-51100)	48000 (16241-56298)/ 55000 (16309-55104)	55000 (16241-59710)/ 58000 (16308-63122)
		kW	10.55 (2.9-13) / 11.15 (2.6-13.5)	12.1 (2.9-13.5) / 13.5 (2.6-15)	14.00 (4.76-16.5) / 16.00 (4.78-16.15)	16.00 (4.76-17.5) / 17.00 (4.78-18.50)
	SEER / SCOP	W/W	6.1 / 4.0	6.2 / 4.0	6.2 / 4.1	6.2 / 4.0
	Energy class (Cooling / Heating average zone)		A++ / A+	A++ / A+	A++ / A+	A++ / A+
	Air supply	m³/h	1950 / 1700 / 1600	2000 / 1700 / 1600	2000 / 1700 / 1600	2000 / 1700 / 1600
	Noise level - indoor	dB(A)	52 / 50 / 48	54 / 52 / 48	54 / 52 / 48	54 / 52 / 48
	Sound Power - indoor	dB(A)	60	64	63	65
	Noise level - outdoor	dB(A)	57	57	60	60
	Sound Power - outdoor	dB(A)	66	66	70	70
Electrical characteristics	Power supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	380~415,50,3	380~415,50,3
	Consumption (Cooling / Heating)	W	3400 (710-4710) / 3450 (470-4130)	4500 (710-5100) / 4600 (470-5290)	5200 (1710-6700) / 5400 (1710-6800)	6100 (1710-6800) / 5800 (1710-7100)
	Operating current (Cooling / Heating)	A	15 (3.2-21.5) / 15.5 (2.43-18)	19.5 (3.2-22.3) / 20 (2.43-23.00)	9.00 (1.50-15.00) / 10.00 (1.50-15.00)	10.50 (1.50-15.00) / 11.00 (1.50-15.00)
	Power supply cables - outdoor	mm²	3x4.0	3x4.0	5x2.5	5x2.5
	Power supply cables - indoor (from outdoor)	mm²	3x1.5	3x1.5	3x1.5	3x1.5
	Communication wiring	mm²	2x0.75	2x0.75	2x0.75	2x0.75
Dimensions (WxDxH)	Indoor	mm	840×840×246	840×840×246	840×840×246	840×840×246
	Outdoor	mm	970×395×805	970×395×805	940×370×1325	940×370×1325
	Indoor (packaging)	mm	910×910×310	910×910×310	910×910×310	910×910×310
	Outdoor (packaging)	mm	1105×495×895	1105×495×895	1080×430×1440	1080×430×1440
	Panel	mm	950×950×55	950×950×55	950×950×55	950×950×55
	Panel (packaging)	mm	1000×1000×100	1000×1000×100	1000×1000×100	1000×1000×100
Weight	Net / Gross (indoor)	kg	28 / 33	30 / 35	30 / 35	30 / 35
	Net / Gross (outdoor)	kg	72 / 76	72 / 76	92 / 102	92 / 102
	Net / Gross (Panel)	kg	5.3 / 7.8	5.3 / 7.8	5.3 / 7.8	5.3 / 7.8
Refrigerant Piping	Liquid / Gas	(inch)	3/8" | 5/8"	3/8" | 5/8"	3/8" | 3/4"	3/8" | 3/4"

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