



LIGHT COMMERCIAL AIR CONDITIONER



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INTRODUCTION



ABOUT CASPER ELECTRIC THAILAND



VISION

Becoming Electrical and Home Appliances Top Brand Global



MISSION

Design environment friendly electronic solution to improve the quality ensuring effective consumer satisfaction and contributing to the prosperity of the community.

PRODUCT PHILOSOPHY

Less For More

With an uncompromising spirit and a realistic perspective, we strive to leave behind the cumbersome, costly and unnecessary aspects to leave what brings the most value and meets consumer needs the most.






Focus on essential aspects with effective solutions. With intuitive, streamlined, customisable products with the most effective functions. We believe each function will always be used - tested and sustainable in each family/home.

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PRODUCT LINE UP



PRODUCT LINE UP

CAPACITY (BTU/h)		18,000	24,000	30,000	36,000	48,000	100,000
Ceiling Cassette Multi-flow - Cooling		<i>inverter</i>	●	●		●	●
		NON INVERTER	●	●		●	●
Ceiling Cassette Multi-flow - Heating		NON INVERTER	●	●	●	●	
Duct Connected Type - Cooling		<i>inverter</i>	●	●		●	●
Floor Standing - Cooling/ Heating		NON INVERTER	●	●		●	●
Ceiling Floor - Cooling		<i>inverter</i>	●	●	●	●	●

SOLUTIONS FOR EVERY PROJECTS

Casper's line up of light commercial air conditioners - Smart choice for small and medium-sized projects. With advanced design and modern technology, Casper Air Conditioner not only ensures cool and comfortable air, but also helps optimize costs. Thanks to the ability to save electricity, operate stably and durable over time.



03

OUTSTANDING TECHNOLOGY

- DURABLE OUTDOOR UNIT 02
- OPTIMIZE OPERATION 04
- FRESH AIR 06
- ENVIRONMENT FRIENDLY 08



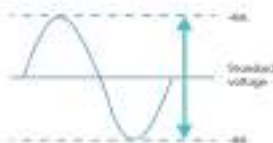
DURABLE OUTDOOR UNIT

New generation powerful compressor

The compressor is designed based on the properties of the R32, providing perfect operation, optimal performance and energy saving. Larger compressor, faster and more powerful cooling.



Compressor (R32)	Old generation	New generation
Power	1000W	1500W
SEER	5.28	5.68



Wide voltage range.

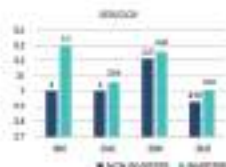
Wide voltage range from 87V to 253V, always ensuring stable operation of the air conditioner. Means suitable voltage conditions in remote areas or during peak electricity consumption in the summer.



PCB - Durable circuit board.

Casper's new durable PCB does not require a stabilizer and can still protect components in the outdoor unit from telecommunication to lower or too high voltage.

PCB protective coating. Prevents and limits PCB damage due to moisture and dust in the air, salt in the sea breeze. The durable PCB is coated on both sides, ensuring operation, even in the toughest weather conditions.

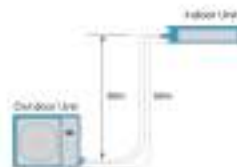


Energy Saving

SEER26 coefficient is superior to the old generation transformer (Average 22-25).

Long connecting pipe

Maximum pipe length up to 50m
Maximum height difference up to 30m



Proactively restore operating mode

Restore operating mode when power is back.

Wide operating temperature range

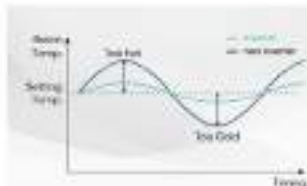
Wide view in harsh weather conditions. Wide operating range with outside temperatures from -15°C to 49°C.



OPTIMIZE OPERATION

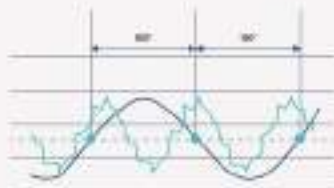
Inverter Technology

The new inverter air conditioners line up air output cooling capacity according to required load without having to stop and start frequently, the room temperature fluctuates less and becoming more comfortable.



180° sine wave control

The DC inverter compressor uses 180° sine wave control technology helping the compressor motor operate smoothly and increase efficiency significantly.



Low noise level

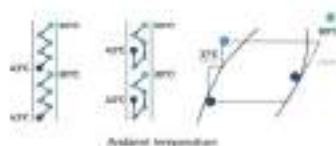
The noise level of connected duct type indoor unit is quiet because made a only 20 dB(A) suitable for hotels and luxury apartments.

Using acoustic motor unit with optimized fan blade and additional noise-reducing foam layer helps reduce noise, suitable for commercial spaces such as restaurants, offices, shops and residential stores.



Optimize pipeline design.

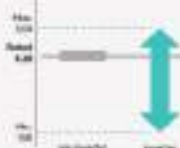
Drainic anti-coating and enhanced refrigerant capacity by separating refrigerant inlet and outlet.



Wide capacity range.

New generation compressors achieve wider capacity range at minimum and maximum speeds.

Capacity range (kW)



FRESH AIR

360° fresh air supply

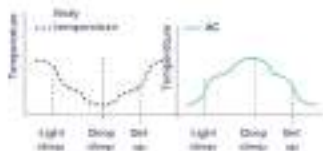
Fresh air supply with 360° diffused airflow distributes temperature more evenly, users don't feel stuffy, circulating fresh air creates a fresh, refreshing and healthy feeling.



Sleep Mode

The air conditioning temperature will be automatically adjusted so that users are always comfortable even when you are sleeping.

Sleep mode with gentle cool air, helping to sleep deeper and healthier.



Powerful airflow

The powerful airflow reaches far to cover a large room, quickly bringing a cool and comfortable feeling to the user.

The large air wing is 30mm wide, the air supply height increases by 15% up to 4m.



Airflow 15m Distance

The airflow can be up to 15m distance. People can enjoy comfortable airflow even in large spaces. Large air volume, fast cooling and long-distance air supply up to 15m.



ENVIRONMENT FRIENDLY

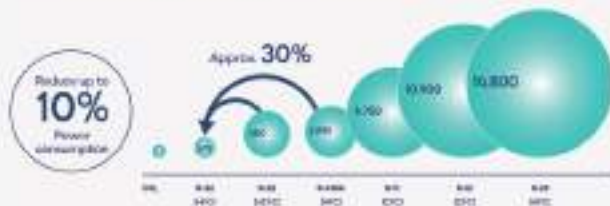
Using Gas R32 – Why Gas R32?

Changing from R410A gas to R32 Gas: A major improvement in reducing global warming

- Durable operation
- Reduce gas charge
- Reduces the risk of global warming
- Reduces carbon emissions

R32

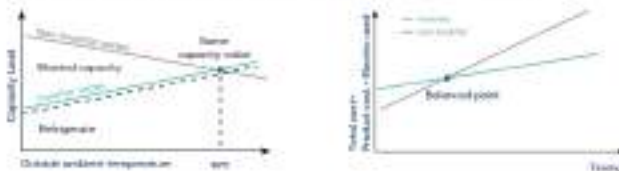
100 Year Global Warming Potential of Different Refrigerants



Source: 100 Year Global Warming Potential (GWP) Values from the IPCC Fourth Assessment Report: GWP 100 year comparison: HFCs, 2010; HCFCs, 1995

Energy saving and Environmental protection

Efficient low energy – protecting future generations. The new machine can adjust cooling capacity according to outdoor temperature without having to compress start frequency reducing energy consumption.



CEILING CASSETTE MULTI-FLOW



Outstanding Function

Optimized indoor unit design increases heat exchange capacity

Heat exchange efficiency increases by 12% with large exchange area.



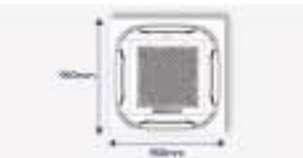
Easy to install

Simple structure easy to remove the cover, convenient height adjustment.



Panel uniform in size

Uniform panel size for all capacities. It is always easy to install. It is simple and clean to clean with many different sizes. Units are available in the same area.



Easy installation and disassembly

The open latch design attached to the panel allows users to easily disassemble it and especially does not need to cut wires.



Diverse installation space

The thickness of the indoor unit is only 260mm, 320mm, can be installed in various ceilings, suitable for many spaces.



Condensate pump

Condensate drain pump with low water level. The maximum height the pump can push water up to 500mm.



Water-proof material

Panel structure avoids water leakage during operation and use.

Sealed design

Prevent cold air loss by attaching glass foam sealant in the gaps of the mounting holes.



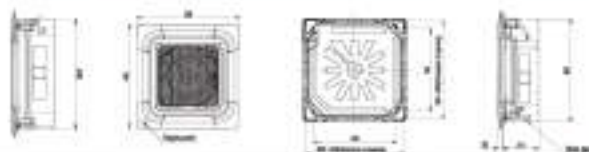
CEILING CASSETTE MULTI-FLOW NON-INVERTER - COOLING



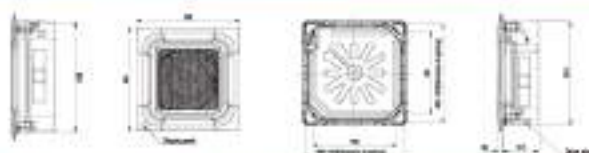
MODEL	UCJ-40102	UCJ-40102	UCJ-40102	UCJ-40102	UCJ-40102	
Power supply (Voltage)	220-240V/50	220-240V/50	220-240V/50	220-240V/50	220-240V/50	
Power type	Non	Non	Non	Non	Non	
Max. room area (m ²)	41	46	50	55	60	
Max. refrigerant	4	4	4	4	4	
Cooling	Cooling (T)	4.2	4.6	5.0	5.4	5.8
	Cooling (P)	4	4.4	4.8	5.2	5.6
	Max. T	41	46	50	55	60
	Cooling (E)	4	4	4	4	4
	SEER	4.7	4.7	4.7	4.7	4.7
Water	Water supply (m ³ /hour)	0.05	0.05	0.05	0.05	0.05
	Water supply (m ³ /hour)	0.05	0.05	0.05	0.05	0.05
	Water supply (m ³ /hour)	0.05	0.05	0.05	0.05	0.05
	Water supply (m ³ /hour)	0.05	0.05	0.05	0.05	0.05
	Water supply (m ³ /hour)	0.05	0.05	0.05	0.05	0.05
Panel	Panel (mm)	225	225	225	225	225
	Panel (mm)	225	225	225	225	225
	Panel (mm)	225	225	225	225	225
	Panel (mm)	225	225	225	225	225
	Panel (mm)	225	225	225	225	225
Dimensions	Dimension (mm)	225	225	225	225	225
	Dimension (mm)	225	225	225	225	225
	Dimension (mm)	225	225	225	225	225
	Dimension (mm)	225	225	225	225	225
	Dimension (mm)	225	225	225	225	225
Weight	Weight (kg)	4.2	4.6	5.0	5.4	5.8
	Weight (kg)	4.2	4.6	5.0	5.4	5.8
	Weight (kg)	4.2	4.6	5.0	5.4	5.8
	Weight (kg)	4.2	4.6	5.0	5.4	5.8
	Weight (kg)	4.2	4.6	5.0	5.4	5.8

TECHNICAL DRAWINGS

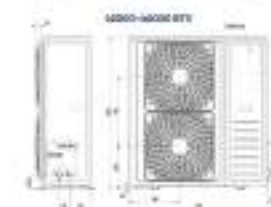
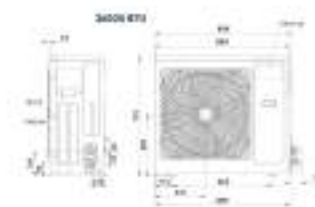
18000-24000 BTU - Indoor unit



30000-48000 BTU - Indoor unit



18000 - 48000 BTU - Outdoor unit





CEILING SUSPENDED INVERTER - COOLING

Outstanding Function

Concealed Design

After installation, the side panels of the AC can well hide the components used for fixation, ensuring that the product is aesthetically pleasing.



The bolts and nuts designed to be concealed in the unit.



Without the need to access the internal parts, just opening the side panels can adjust the ceiling or wall mounting height.

4D Airflow



The horizontal and vertical airflow can provide better comfort.

Up to 90° airflow in horizontal direction and up to 130° airflow in vertical direction.

Airflow 15m Distance

The airflow can be up to 15m distance. People can enjoy comfortable airflow even in large spaces.



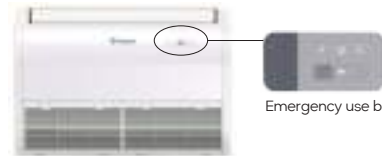
Large air volume and fast cooling.



Long-distance air supply up to 15m.

Emergency Use

The product is equipped with an emergency start button, which can be used to start the AC in special situations. The AC with floor-standing installation are more convenient to use the emergency button.



Emergency use bottom

Convenient Design

Convenient design provides convenience for cleaning the filter. At the same time, the electrical box design of the air conditioner is simple, so there is no need to reserve maintenance and manholes.



The air inlet has a convenient design and is very open to open.



The filter is Easy to Clean, simply rinse directly with clean water.

CEILING SUSPENDED

CEILING SUSPENDED INVERTER		CCF-18IS32 IM/OM	CCF-24IS32 IM/OM	CCF-30IS32 IM/OM	CCF-36IS32 IM/OM	CCF-42IS32 IM/OM	CCF-48IS32 IM/OM	
Power Supply	V-ph-Hz	220-240-1-50/60	220-240-1-50/60	220-240-1-50/60	220-240-1-50/60	380-485-3-50/60	380-485-3-50/60	
Max. Input Consumption	W	1800	3200	3680	4300	5300	5300	
Max. Input Current	A	9.5	14.2	16.0	19.0	10.0	10.0	
Design Pressure	MPa	4.3/16	4.3/16	4.3/16	4.3/16	4.3/16	4.3/16	
Ambient Temperature	°C	15-48	15-48	15-50	15-50	15-50	15-50	
Cooling	Capacity	BTU/h	18248	249076	3003264	3617568	4197744	4708500
	Capacity	W	5400	7300	8800	10600	12300	13800
	Capacity Range	W	2000-5800	2700-7500	3080-9630	2730-10500	3250-14000	3250-14000
	Input Power	W	1500	2140	2720	3400	4300	5300
	Input Power Range	W	340-1700	550-2750	830-3300	490-4000	620-5300	620-5300
	Current	A	9.00	9.50	12.0	15.4	7.8	9.5
EER	W/W	3.60	3.41	3.24	3.12	2.86	2.60	
SEER		17.06	17.06	17.30	17.30	15.20	14.40	
Fan Motor Output	W	100	100	140	181	181	181	
Fan Motor Speed	r/min	1000/900/800	1150/1030/990	1150/930/800	1250/1000/900	1350/1100/1000	1350/1100/1000	
Indoor Air Flow	m ³ /h	1000/880/780	1200/950/800	1500/1200/1000	2050/1600/1400	2200/1900/1600	2200/1900/1600	
Indoor Unit	Indoor Noise Level	dB(A)	47/44/40	48/45/41	51/46/42	53/48/45	56/51/48	56/51/48
	Net Dimension (WxHxD)	mm	990x680x230	990x680x230	1285x680x230	1580x680x230	1580x680x230	1580x680x230
	Packing Dim. LxWxH	mm	1100x820x350	1100x820x350	1400x820x350	1690x820x350	1690x820x350	1690x820x350
	Net/Gross Weight	kg	30.0/35.0	30.0/35.0	37.0/44.0	46.0/54.0	46.0/54.0	46.0/54.0
	Operation Temperature	°C	16-30	16-30	16-30	16-30	16-30	16-30
	Compressor Capacity	BTU/h	1806	15968	22287	26477	34154	34154
Compressor Input	W	875	1185	1870	7760	2765	2765	
Comp. Rated Current	A	5.80	7.70	8.5	9.3	5.38	5.38	
Fan Motor Output	W	40	60	60	102	220	220	
Fan Motor Speed	r/min	880	880	880	880	850	850	
Outdoor Unit	Outdoor Noise Level	dB(A)	50	53	54	58	62	62
	Net Dimension (WxHxD)	mm	810x580x280	860x670x310	860x670x310	900x750x340	975x835x360	975x835x360
	Packing Dim. LxWxH	mm	940x620x640	990x650x730	990x720x650	1040x830x660	1045x960x660	1045x960x660
	Net/Gross Weight	kg	33.0/35.5	40.0/44.0	40.0/43.5	51.5/55.5	71.5/80.5	71.5/80.5
	Type	R32	R32	R32	R32	R32	R32	
	Charged Volume	kg	0.97	1.20	1.30	1.90	2.55	2.55
Refrigerant Piping	Liquid Side/Gas Side	mm (inch)	φ6.35/φ12.7 (1/4/1/2)	φ9.52/φ15.88 (3/8/5/8)	φ9.52/φ15.88 (3/8/5/8)	φ12.7/φ15.88 (1/2/5/8)	φ12.7/φ15.88 (1/2/5/8)	
	Max. Pipe Length	m	25	50	50	50	50	
	Max. Difference in Level	m	15	30	30	30	30	

TECHNICAL DRAWINGS

Ceiling & Floor

Outdoor Units

