R32 LIGHT COMMERCIAL

Non-Inverter Split Type Air Conditioner

MyECO R32

acson International
Air Conditioners
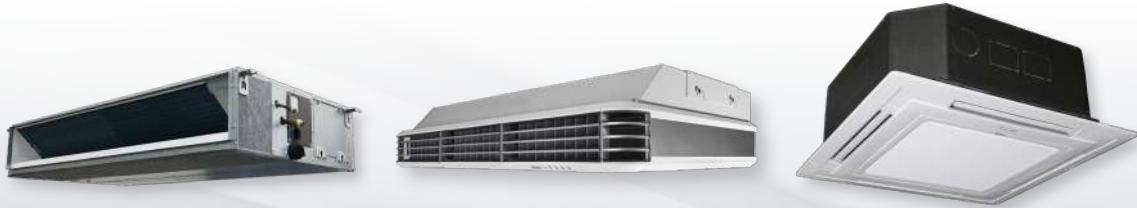
Product Lineup

Capacity	1.0 HP	1.5 HP	2.0 HP	2.5 HP
Indoor Unit				
Ceiling Cassette	A3CK10C	A3CK15C	A3CK20F	A3CK25F
Ceiling Concealed			A3CC20J	A3CC25J
Ceiling Mounted			A3CM20C	A3CM25C
Outdoor Unit				
	A3LC10F	A3LC15F	A3LC20F	A3LC25F

3.0 HP	3.5 HP	4.0 HP	5.0 HP	6.0 HP
A3CK30F	A3CK35F	A3CK40F	A3CK50F	
A3CC30J	A3CC35J	A3CC40J	A3CC50J	A3CC60J
A3CM30C	A3CM35C	A3CM40C	A3CM50C	A3CM60C
A3LC30F	A3LC35D	A3LC40D	A3LC50D	A3LC60D

Foresto® TECHNOLOGY

Acson Foresto Technology brings you to the peace of the forest by combining powerful Plusma function, Filtronz and R32 greenery refrigerant. By supplying clean and fresh air, it helps to recharge your mind and soul, make resting more effective.
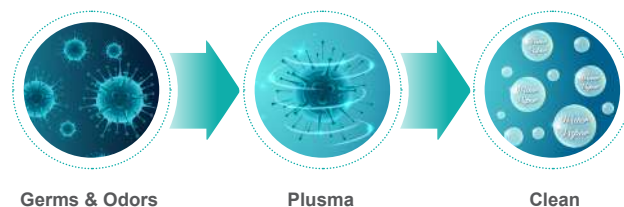
Indoor Air Quality

FILTRONZ
ADVANCED FILTERING TECHNOLOGY

Anti fungus long-life air filter helps to trap the dust particles in the air, promising good indoor air quality by acting as first barrier of dust filtration. The filter is easily accessible and can be simply wash with water, ensuring prolonged usage.

Plusma Technology

PLUSMA
Deodorize! Sterilize! Purify!

Unit comes with advance Plusma Technology which effectively deactivate bacteria by damaging those microbial DNA and their surface structures by this advanced Plusma Technology. It emits massive positive and negative ions, and sterilize surrounding air more effectively, providing fresh and clean environment to ensure optimal comfort of users.

Germs & Odors → **Plusma** → **Clean**

Environmental Friendly

MyECO R32

Acson MyEco Series offers eco-friendly products which lead to a more sustainable future. Products labelled with MyEco are more sustainable and environmental friendly.

R32 is a single component refrigerant and used to be one of the components of R410A (binary blend of HFC). It is remarkable for its low environmental impact. The R32 refrigerant has a low Global Warming Potential (GWP), which one-third lower as compared to R410A and consists of zero Ozone Depletion Potential (ODP) at the same time.
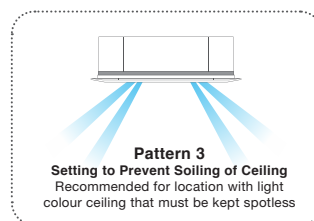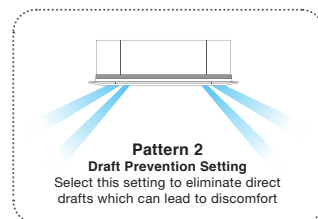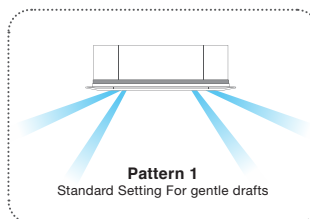
	Global Warming Potential
R-410A (HFC)	2,090
R-22 (HCFC)	1,810
R-32 (HFC)	675

MyECO R32

Approx. 30%

The R32 refrigerant has a low Global Warming Potential (GWP), which one-third lower as compared to R410A

Feature
Ceiling Cassette

Model:
A3CK20/25/30/35/40/50F

Nominal Cooling Capacity:
5.42kW ~ 14.07kW
18,500 BTU/h ~ 48,000 BTU/h

4 Dimensional Cooling Comfort

Four ways air discharge providing excellent cooled air distribution throughout the space. By taking every corner into consideration, it ensures optimal level of comfort. Air flow direction can be fixed at user's designated angle by the remote controller with Auto Mode.

Pattern 1
Standard Setting For gentle drafts

Pattern 2
Draft Prevention Setting
Select this setting to eliminate direct drafts which can lead to discomfort

Pattern 3
Setting to Prevent Soiling of Ceiling
Recommended for location with light colour ceiling that must be kept spotless
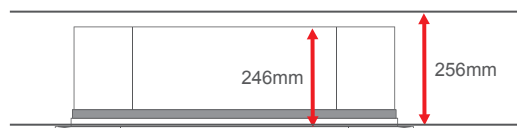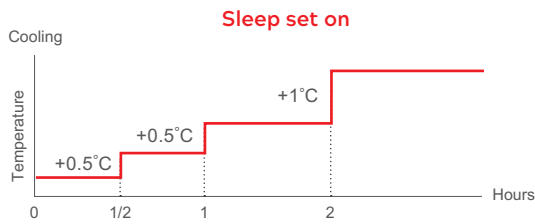
Slim and Stylish Design

Maintaining classy interior design in your home with slim and stylish panel design. The curvy edge and uniformity of panel size enabling it to blend in perfectly with any kind of space design.

950mm
950mm

Unit Dimension	Panel Dimension
840 x 840 mm	950 x 950 mm

246mm
256mm

| Model	Unit Height
A3CK20/25/30F	246 mm
A3CK35/40/50F	288 mm

Sleep set on

Comfortable Sleep Mode

Intelligent control system adjusts the temperature automatically according to surrounding environment. You can enjoy a good night's sleep by turning on Sleep Mode before you go to bed.

Built in Drainage System

The unit is equipped with highly efficient drain pump with 700 mm pressure head, providing smooth drainage of condensate water. A mechanism with safety water float is equipped to avoid overflow of water, giving users a worry-free experience.

Cassette (A3CK-F)

700mm

Drain Pump   Safety Float

Indoor

Outside
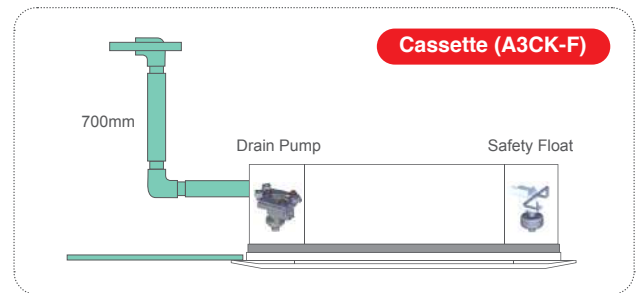
Fresh Air Intake

Optional fresh air intake mechanism according to user's preference. Knock-out hole is available on ceiling cassette indoor unit where a duct can be fitted to increase the intake of outdoor air. A fresher environment is made possible especially for places where ventilation fan is not installed.

Easy Height Adjustment

Each unit comes with adjustable cover pocket at four corners which are easily for adjusting the suspended height of unit. This in turns provide flexibility during installation where installer could adjust the hanging hook according to requirement. Technician could perform drainage leak check during servicing too.


Panel Hook Mechanism

Panel hook is utilized to support panel so that it could be hang on indoor unit, which provide a hassle-free installation experience by reducing manpower and accelerating the process.

Superior Performance

Upgraded Cooling Capacity

New R32 ceiling cassette is upgraded in terms of cooling capacity for certain models.*

Comparison of Cooling Capacity

Cooling Capacity (BTU/h) vs Model (1.0HP–5.0HP)

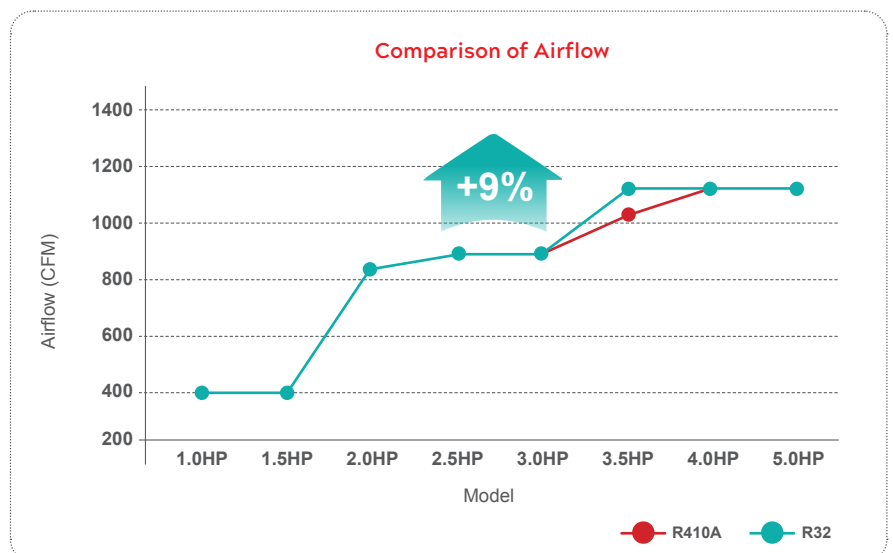+4% (2.5HP), +4% (5.0HP)

● R410A   ● R32
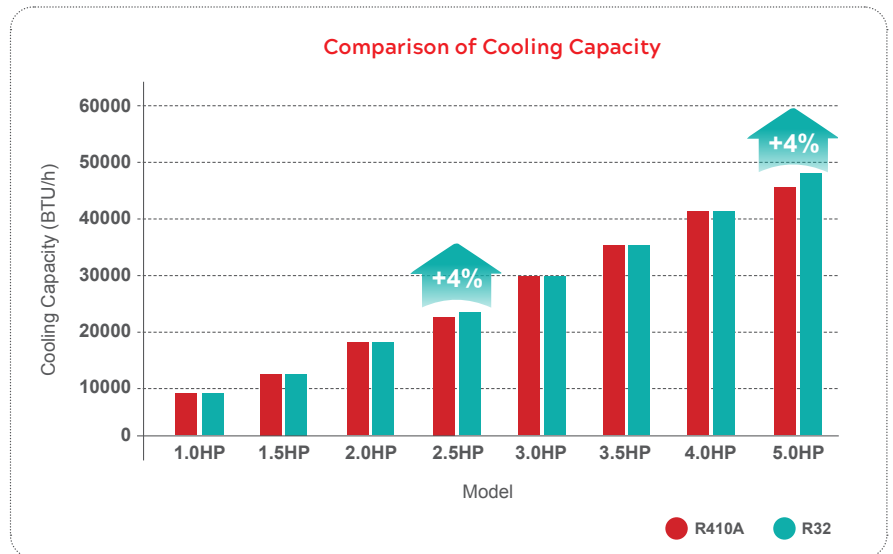
Improved Energy Efficiency

Acson R32 ceiling cassette a remarkable performance by achieving higher energy efficiency standards than other similar models.

More than 20% Improved Efficiency

Comparison of Energy Efficiency

EER vs Model (1.0HP–5.0HP)

● R410A   ● R32
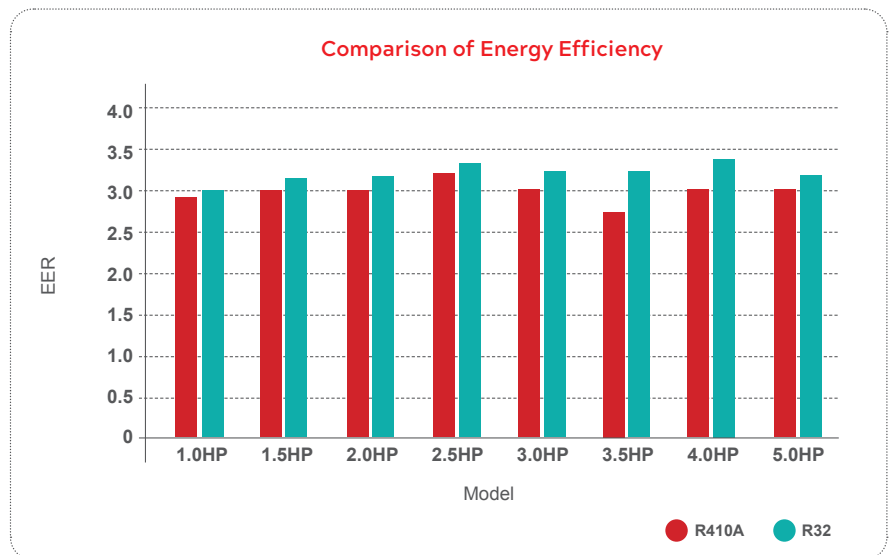
Higher Airflow

Airflow for 3.5HP R32 ceiling cassette is now upgraded to ensure higher airflow and users' comfort.**

Comparison of Airflow

Airflow (CFM) vs Model (1.0HP–5.0HP)

+9%

● R410A   ● R32

*   Applicable for 2.5HP and 5.0HP models.
** Applicable for 3.5HP model.

Feature
Ceiling Concealed

Supreme Cooled Air Distribution

Cool air is effectively distributed throughout the whole room via ducting design. By taking every corner into consideration, it ensures optimal level of comfort. Multiple rooms can be cooled together with just a single unit.

Model:
A3CC20/25/30/35/40/50/60J

Nominal Cooling Capacity:
5.42kW ~ 16.12kW
18,500 BTU/h ~ 55,000 BTU/h

Space Saving Design

Low Unit Height

The unit is sophisticatedly concealed inside the ceiling, thin unit design make it perfectly adequate to reserve the space for various interior design applications.

260mm | 250mm

Ceiling

Model	Unit Height
A3CC20/25/30/35/40/50/60J	250 mm

Higher Flexibility

Easy conversion from rear return to bottom return is possible to be done on new R32 ceiling concealed to fit in according to building structures. Higher flexibility is available to cope with different customer requirements.

Joist

Ceiling

Air Suction

Flexible Installation

Selectable External Static Pressure (ESP)

Two different ESP can be easily selected by switching the connector inside the control box as shown below.
According to duct design required for comfort, the adjustment can be done easily during installation at the control box.

ESP ⟍ Model (HP)	2.0	2.5	3.0	3.5	4.0	5.0	6.0
Factory Preset Value (Pa)	30	30	30	50	50	50	50
Optional (Switchable) Value (Pa)	50	50	50	80	80	80	60

Lightweight Drain Pan

New ceiling concealed comes with lightweight drain pan that will not get rust easily and ease the installation works. A slope is created on drain pan to drain water efficiently.


Pre-Installed Filter Rail

Pre-installed filter rail provides flexibility during installation. With the application of air filter, user can now enjoy better indoor air quality according to requirements. Filters could be purchased as optional accessories.

More Drainage Option

Drainage pump helps to channel the condensate water more effectively. Optional drainage pump could be purchased as accessory and installed at the designated location of the ceiling concealed unit.
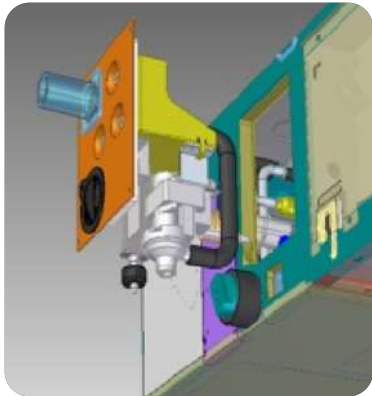
Better Serviceability

Drain Pan Maintenance Check Window

New drain pan maintenance check window located at side of the ceiling concealed, allowing technician to check the condition of drainage or dirt in the drain pan without using any additional tools.
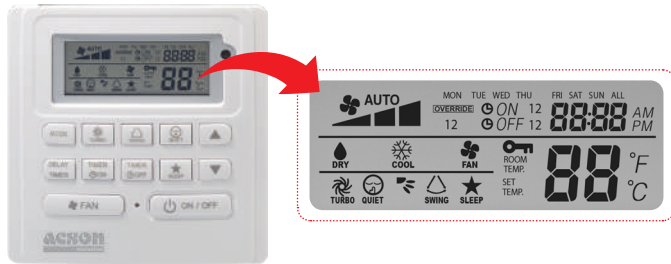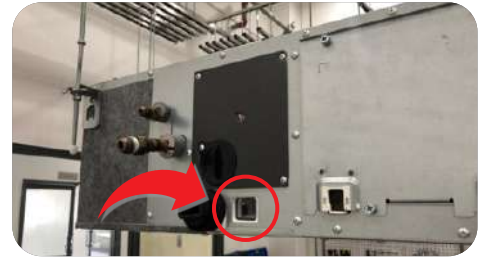

Weekly Schedule Timer

Available in Timer 1 & Timer 2 with operation of ON/OFF settings programmed for each day of the week. Schedule timer can be set either from Monday to Sunday or all (timer activate for 7days). Setting on ON/OFF operations only.

Easy Accessible to Components

Blower & Motor

Components such as blowers and motors could be easily accessible by removing the rear bottom panel and mid flange (as shown in the diagram). Blowers could be removed from the housing easily by opening the housing case, enabling better serviceability.
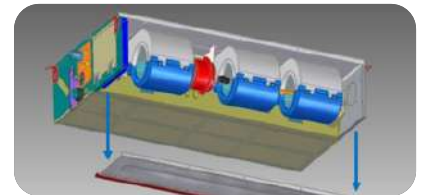
Drain Pan & Coil

Drain pan and coil can be easily accessible by removing front bottom panel and mid flange. The coil can be accessed once technician removed the drain pan.
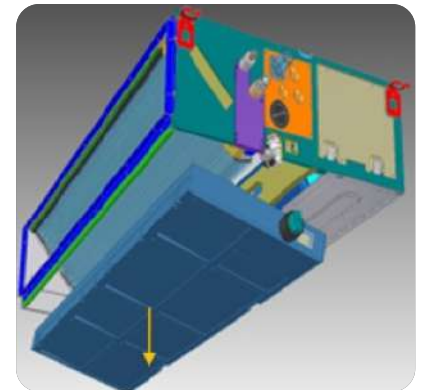
Trustworthy Service

Based on more than 30 years of service experience, Acson Malaysia has strategically developed a comprehensive service process from pre-sales support to after-sales service. We provide professional and insightful solutions that best meet customers' needs and interests.

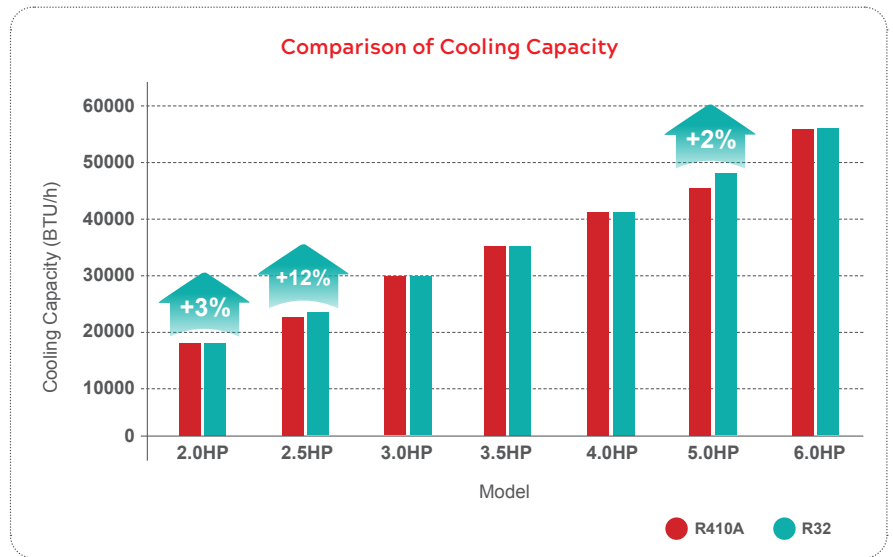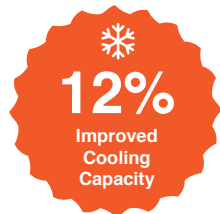***Available for Acson indoor and outdoor full set purchasing:**
Compressor (outdoor unit 65,000 BTU/h & below) = 5 years warranty.
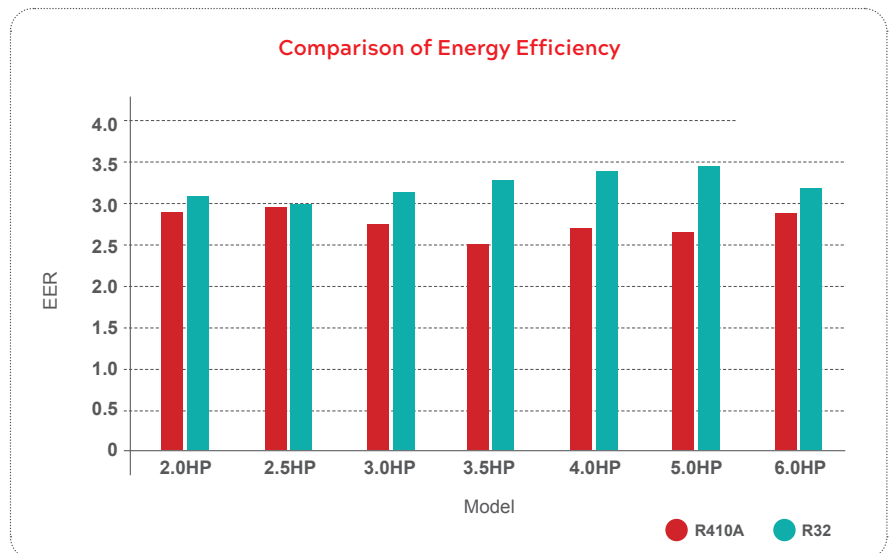*Compressor (outdoor unit above 65,000 BTU/h) = 1 year warranty.*

Superior Performance

Extraordinary Cooling Performance

Users can now enjoy an extraordinary cooling experience with our new R32 ceiling concealed lineup. *

12%
Improved Cooling Capacity

Comparison of Cooling Capacity

Cooling Capacity (BTU/h) vs **Model**

- 2.0HP: **+3%**
- 2.5HP: **+12%**
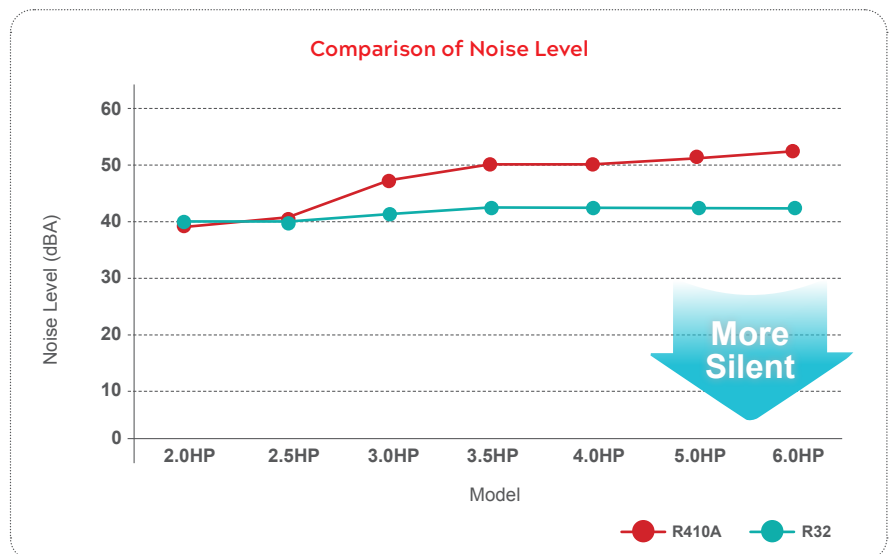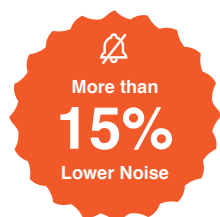- 5.0HP: **+2%**

Legend: ● R410A ● R32

Energy Saving to the Next Level

Whole Acson R32 ceiling concealed lineup achieved a remarkable performance by improving energy efficiency compared to R410A models.

More than 20%
Improved Efficiency

Comparison of Energy Efficiency

EER vs **Model** (2.0HP, 2.5HP, 3.0HP, 3.5HP, 4.0HP, 5.0HP, 6.0HP)

Legend: ● R410A ● R32

More Silent, More Powerful

New R32 ceiling concealed units are improved in terms of noise level. It is perfect to be installed in an environment where lower noise level is required to ensure users' comfort.**

More than 15%
Lower Noise

Comparison of Noise Level

Noise Level (dBA) vs **Model** (2.0HP, 2.5HP, 3.0HP, 3.5HP, 4.0HP, 5.0HP, 6.0HP)

More Silent

Legend: ● R410A ● R32

* Applicable for 2.0HP, 2.5HP and 5.0HP models.
** Applicable for all models except 2.0HP.

Model:
A3CM20/25/30/35/40/50/60C

Nominal Cooling Capacity:
5.4kW ~ 16.1kW
18,500 BTU/h ~ 55,000 BTU/h

Feature
Ceiling Mounted

## Aesthetically Compact Design

Slim and compact design easy for installation especially at corner which has narrow space. White stylish design easily blended with interior design.

Fast Cooling Comfort

Desired cooling comfort room is achieved rapidly through wide air throw range and consistent optimum air distribution by the motorized louver. Maximum air throw can reach up to 16.5m.

Service and Maintenance at Ease

The new design of intake grille makes it easier to lock and unlock. Easy access of filter cleaning can be done by just pulling down the intake grille. During servicing or repairing, only the bottom panel is needed to be removed in order to access to fan motor, control box and piping.

Screw
Cover Lock Grille
Intake Grille
Clip Lock Grille
Support Pin Grille
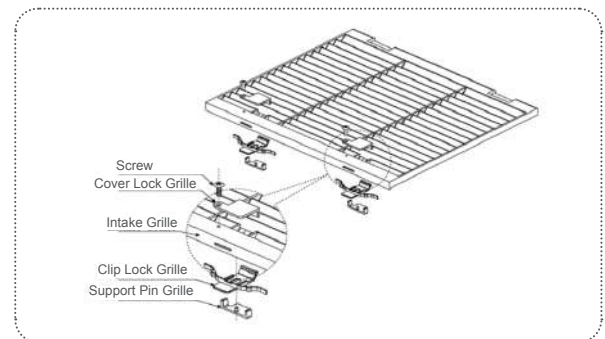
Improved Quality Satisfaction

Extra Insulation has been added on the air discharge and overall unit to countermeasure unit against sweat. It takes reliable cooling performance to another step forward.

Flexible Installation

Compact design for smaller capacity models to meet tighter dimensional constraints. The new technology make it's possible for piping elevation can go up to 30m and the piping length can be extended up to 50m. More flexibility and versatality to position your outdoor units with longer piping length and elevation.

Total Piping Length up to
50 meters

Maximum Elevation
30 meters

Height difference
30 meters
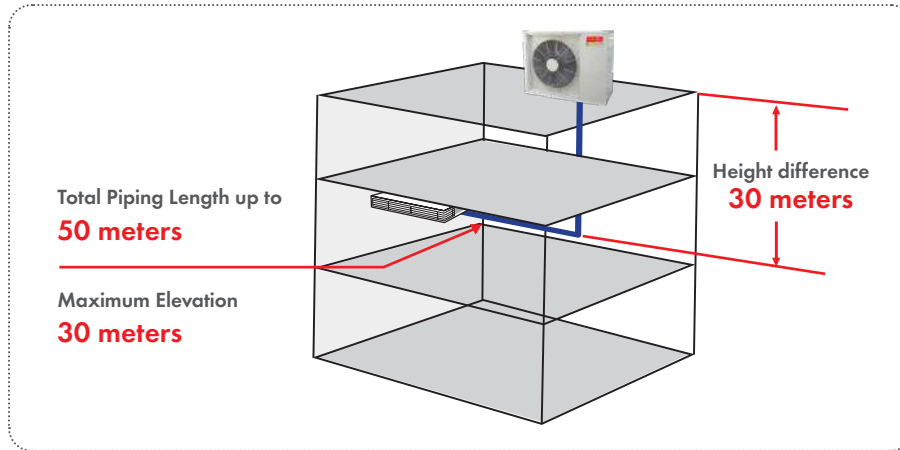
*Applicable for A3CM30C, A3CM35C, A3CM40C, A3CM50C and A3CM60C only.

More Drainage Option

The unit is designed to work with optional high pressure head drain pump, which offers ideal solution for installation on condensate drain pipe. A peace of mind for the consumer as a safety float is incorporated in the drain pump as safety protection.

Power Failure   Power Resume

OPERATION → STOP → RESTART

E²PROM
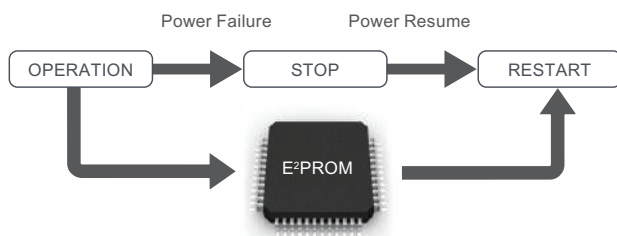
Auto Random Restart with Last-State-Memory

If there is any sudden power failure during operation, unit will restarts automatically in 64 different recovery timing patterns and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed). This is to ensure that air conditioners in the same building resume randomly instead of all units resuming at the same time to prevent power surge after a blackout

Superior Performance

Higher Cooling Performance

Cooling Capacity of R32 Ceiling Mounted for 2.0HP and up to 5.0HP are increased to make sure the user to stay relax and cool all day long.

Comparison of Cooling Capacity

11% Improved Cooling Capacity
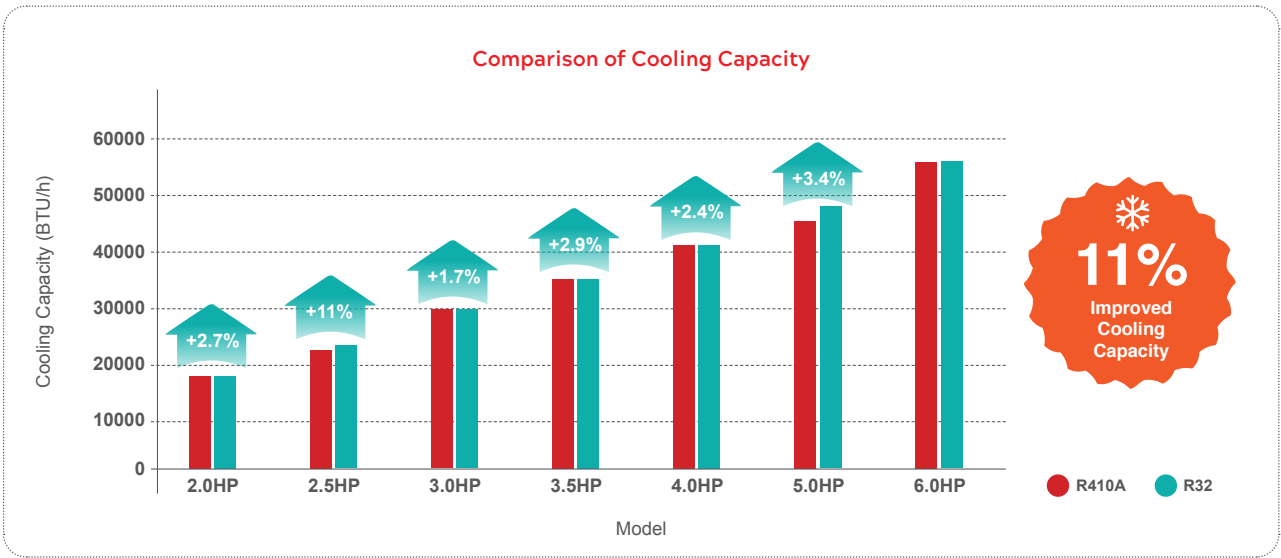
Greener Choices for Improved Energy Saving

Due to energy saving is one of the user's main concern, we improved the whole line up of R32 ceiling mounted energy efficiency to offer peace of mind.

Comparison of Energy Efficiency

More than 20% Improved Efficiency
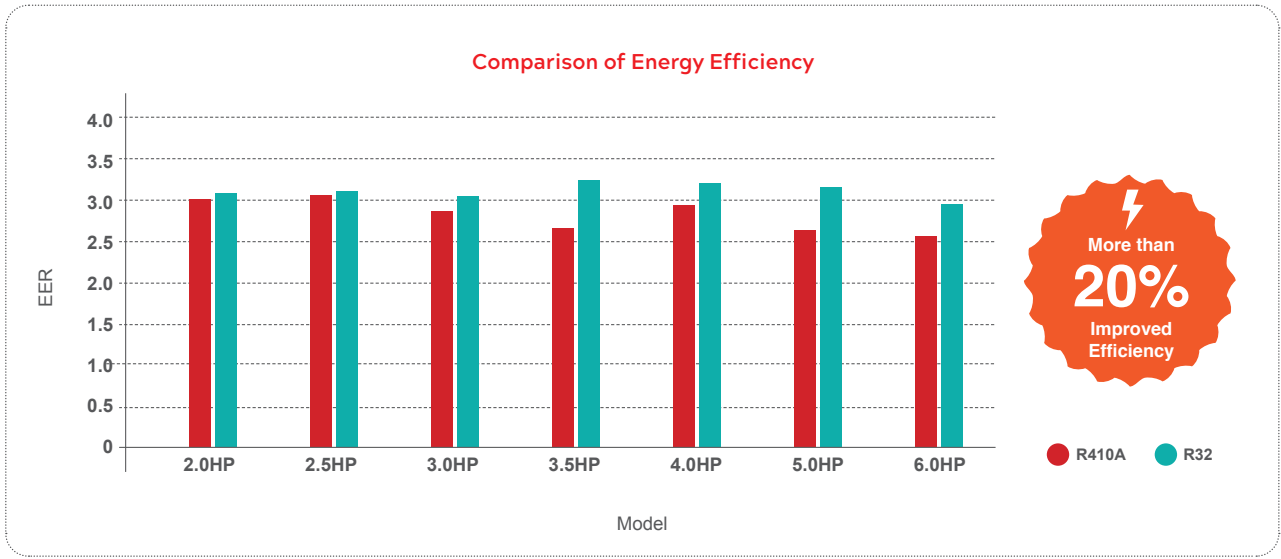
Accessories

Wireless Controller GS02

The ergonomically designed wireless control enables the unit to be under your control all time. The advance yet simple design with large buttons is easily accessible with big LCD display.

1 Illuminate POWER Button

The Power Button turns the unit ON or OFF. It illuminates when you need it in the dark.

2 Swing Button

Swing at your command or fix the louver at your preffered position.

3 TURBO Button

Rapidly cools down your room within 20 minutes.

4 MODE Button

Different Mode for different ambient - Cool, Dry, and Fan.

5 QUIET Button

The unique quiet mode further increase the acoustic comfort level for serenity and tranquility.

6 SLEEP Button

The sleep mode gradually increases the room temperature to ensure comfortable and mellow sleeping environment.

7 FAN Button

Control your air flow to Low, Medium, High or Auto to let your unit do the thinking.

8 TEMPERATURE Button

Set the temperature according to your preferences.

9 TIMER Button

Turn On or Off the unit with its built in timer which repeats itself every 24 hours.

10 CLOCK Button

Set the real time clock.

Wired Controller SLM 9

The Ceiling Concealed C Series is supplied with SLM 9 micro computer thermostat as the standard controller. This wired controller with LCD screen with every information of the unit easily visible. It it adapted to fan coil and electromechanical valve's control.

1 LCD Display

Every information on the unit vividly display in LCD screen.

2 MODE Button

Different Mode for different ambient - Cool, Dry, and Fan.

3 TEMPERATURE Button

Set the temperature according to your preferences

4 DELAY TIMER Button

Delay the "OFF" timer function by maximum of 2 hour.

5 TIMER Button

Turn On or Off the unit automatically with its built in timer. Maximum of 2 On and 2 Off timers.

6 SLEEP Button

The sleep mode gradually increases the room temperature to ensure comfortable and mellow sleeping environment.

7 FAN Button

Control your air flow to Low, Medium, High or Auto to let your unit do the thinking.

8 ON/OFF Power Button

Turn On or Off the unit with its built in timer which repeats itself every 24 hours.

9 Real Time Clock (RTC)

Set the real time clock.

Functionality

● Standard   ● Optional

Category	Functions	Ceiling Cassette	Ceiling Concealed	Ceiling Mounted
Operation	Auto Mode	●	●	●
	Cool Mode	●	●	●
	Dry Mode	●	●	●
	Fan Mode	●	●	●
	Sleep Mode	●	●	●
Comfort	4-Ways Airflow	●		
Convenience	Auto Fan Speed	●	●	●
	Indoor unit On/Off Button	●	●	●
	Signal Receiving Sign	●	●	●
	Temperature Display	●	●	●
	Weekly Timer	●	●	●
	24-Hour On/Off Timer	●	●	●
Feature	Auto Swing	●	●	
	Swing Pattern Selection	●	●	●
	Switchable Fan Speed	●	●	●
	Automatic Airflow (Up & Down)	●		●
	Aluminium Bare Indoor Fin	●	●	●
	Anti-Corrosion Outdoor Gold Fin	●	●	●
Health	Saranet Filter	●	●	●
	Plusma Technology	●		
	Washable Grille	●		●
Durability	Power Failure Memory System	●	●	●
	Self-Diagnosis	●	●	●
	Wiring Error Check Function	●	●	●
Accessory	Wireless Remote Controller	●	●	●
	Wired Remote Controller	●	●	●
	External Static Pressure Selection		●	
	Drain Pump	●	●	●
	Fresh Air Intake	●		
	Switchable Temperature Display (°C/°F)	●	●	●

Remarks

1. Installation and maintenance should be performed by qualified persons who are familiar with local code and regulation, and experienced with this type of appliance.

2. All field wiring must be installed in accordance with the national wiring regulation.

3. When the pipe length becomes too long, both the capacity and reliability drop.

4. As the number of bends increase, resistance to flow of refrigerant system increases, thus lowering cooling capacity and as a result the compressor may become defective.

5. Always choose the shortest path and follow the recommendation of authorised personnels.

Technical Specification
Ceiling Cassette

MyECO R32

PLUSMA
Deodorize! Sterilize! Purify!

A3CK10/15C

A3CK20/25/30/35/40/50F

Model		Indoor Unit	A3CK10C	A3CK15C	A3CK20F	A3CK25F	A3CK30F	A3CK35F	A3CK40F	A3CK50F
		Outdoor Unit	A3LC10F	A3LC15F	A3LC20F	A3LC25F	A3LC30F	A3LC35D	A3LC40D	A3LC50D
Capacity		HP	1.00	1.50	2.0	2.5	3.0	3.5	4.0	5.0
Nominal Cooling Capacity min - max)		BTU/h	9,500	12500	18500	24000	30000	36000	42000	48000
		kW	2.78	3.66	5.42	7.03	8.79	10.55	12.31	14.07
Nominal Total Input Power		W	927	1115	1680	2130	2710	3150	3620	4100
Nominal Running Current		A	5.84	7.3	7.46	9.45	12.10	14.30	6.78	7.59
CSPF		W/W	3.19	3.49	3.43	3.50	3.44	3.56	3.61	3.64
Power Source		V/Ph/Hz	220-240/1/50						380-415/3/50	
Indoor Unit	Air Flow	CFM	410/360/330		840/700/ 560/440	890/760/ 620/490		1120/1030/ 890/760		
	Sound Pressure Level (H/M/L)	dBA	41/38/35		42/39/37/35	44/40/37/35		48/46/43/40		
	Unit Dimension (H x W x D)	mm (in)	250 X 570 X 570 (9.84 x 22.44 x 22.44)		246 x 840 x 840 (9.69 x 33.07 x 33.07)					
	Unit Dimension With Panel (H x W x D)	mm (in)	295 x 640 x 640 (11.61 x 25.20 x 25.20)		301 x 950 x 950 (11.85 x 37.40 x 37.40)					
	Unit Weight	kg	15.5		22			25		
	Unit Weight With Panel	kg	17.5		5					
Outdoor Unit	Sound Pressure Level	dBA	46	48	52		54	56	58	60
	Unit Dimension (H x W x D)	mm (in)	550x658x273 (21.65 x 25.91 x 10.75)		615 x 845 x 300 (24.21 x 33.27 x 11.81)		695 x 930 x 350 (27.36 x 36.61 x 13.78)	852 x 1030 x 400 (33.54 x 40.55 x 15.75)		
	Unit Weight	kg	25	28	40	46	53	62	79	84
	Pipe Connection — Liquid	mm (in)	6.35 (1/4)				9.53 (3/8)			
	Pipe Connection — Gas	mm (in)	9.52 (3/8)		12.70 (1/2)		15.88 (5/8)			
	Maximum Piping Length	m (ft)	25 (82.02)		35 (114.83)		50 (164.04)			
	Maximum Piping Elevation	m (ft)	15 (49.21)		20 (65.62)		30 (98.43)			
	Refrigerant		R32							

GS02 (Default)

SLM9 (Optional)

A3LC10/15F

A3LC20/25/30F

A3LC35/40/50D

Technical Specification
Ceiling Concealed

MyECO R32

A3CC20/25/30/35/40/50/60J

Model			A3CC20J	A3CC25J	A3CC30J	A3CC35J	A3CC40J	A3CC50J	A3CC60J
	Indoor Unit		A3CC20J	A3CC25J	A3CC30J	A3CC35J	A3CC40J	A3CC50J	A3CC60J
	Outdoor Unit		A3LC20F	A3LC25F	A3LC30F	A3LC35D	A3LC40D	A3LC50D	A3LC60D
Capacity		HP	2.0	2.5	3.0	3.5	4.0	5.0	6.0
Nominal Cooling Capacity (min - max)		BTU/h	18500	23500	30000	36000	42000	48000	55000
		kW	5.42	6.89	8.79	10.55	12.31	14.07	16.12
Nominal Total Input Power		W	1750	2290	2770	3200	3660	4100	4950
Nominal Running Current		A	7.74	10.3	12.4	14.8	6.85	7.51	8.73
CSPF		W/W	3.29	3.20	3.37	3.50	3.57	3.64	3.46
Power Source		V/Ph/Hz	220-240/1/50				380-415/3/50		
Indoor Unit	Air Flow	CFM	590/525/430		950/810/700	1260/1095/920			1400/1280/1120
	External Static Pressure (Std/High)	Pa	30/50			50/80			50/60
	Sound Pressure Level (H/M/L)	dBA	40/37/34		41/38/35	42/39/36			43/42/39
	Unit Dimension (H x W x D)	mm (in)	250 x 700 x 700 (9.84 x 27.56 x 27.56)		250 x 1000 x 700 (9.84 x 39.37 x 27.56)	250 x 1400 x 700 (9.84 x 55.12 x 27.56)			
	Unit Weight	kg	24		31	40		42	44
Outdoor Unit	Sound Pressure Level	dBA	52		54	56	58	60	62
	Unit Dimension (H x W x D)	mm (in)	615 X 845 X 300		695 X 930 X 350	852 X 1030 X 400			
	Unit Weight	kg	40	46	53	62	79	84	94
	Pipe Connection — Liquid	mm (in)	6.35 (1/4)		9.53 (3/8)				
	Pipe Connection — Gas	mm (in)	12.70 (1/2)		15.88 (5/8)				19.15 (3/4)
	Maximum Piping Length	m (ft)	35 (114.83)		50 (164.04)				
	Maximum Piping Elevation	m (ft)	20 (65.62)		30 (98.43)				
	Refrigerant		R32						

GS02 (Optional)

SLM9 (Default)

A3LC20/25/30F

A3LC35/40/50/60D

Technical Specification
Ceiling Mounted

MyECO R32

A3CM20/25/30/35/40/50/60C

Model			A3CM20C	A3CM25C	A3CM30C	A3CM35C	A3CM40C	A3CM50C	A3CM60C
	Indoor Unit		A3CM20C	A3CM25C	A3CM30C	A3CM35C	A3CM40C	A3CM50C	A3CM60C
	Outdoor Unit		A3LC20F	A3LC25F	A3LC30F	A3LC35D	A3LC40D	A3LC50D	A3LC60D
Capacity		HP	2.0	2.5	3.0	3.5	4.0	5.0	6.0
Nominal Cooling Capacity (min - max)		BTU/h	18,500	23,500	29,500	36,000	42,000	46,000	55,000
		kW	5.42	6.89	8.65	10.55	12.31	13.50	16.12
Nominal Total Input Power		W	1785	2220	2860	3250	3860	4300	5500
Nominal Running Current		A	8.05	9.88	12.80	14.70	7.14	7.93	9.62
CSPF		W/W	3.23	3.29	3.21	3.45	3.39	3.33	3.11
Power Source		V/Ph/Hz	220-240/1/50				380-415/3/50		
Indoor Unit	Air Flow	CFM	620/600/490		830/730/625	1125/1030/960			1460/1390/1150
	Sound Pressure Level (H/M/L)	dBA	47/46/43		48/45/42	52/50/48			55/53/50
	Unit Dimension (H x W x D)	mm (in)	235 x 1,175 x 669 (9.25 x 46.26 x 26.34)		235 x 1,525 x 669 (9.25 x 46.26 X 26.34)	235 x 1,875 x 669 (9.25 x 73.82 x 26.34)			
	Unit Weight	kg	33		41	50			60
Outdoor Unit	Sound Pressure Level	dBA	52		54	56	58	60	62
	Unit Dimension (H x W x D)	mm (in)	615 x 845 x 300 (24.21 x 33.27 x 11.81)		695 x 930 x 350 (27.36 x 36.61 x 13.78)	852 x 1030 x 400 (33.54 x 40.55 x 15.75)			
	Unit Weight	kg	40	46	53	62	79	84	94
	Pipe Connection — Liquid	mm (in)	6.4		9.5		9.5		
	Pipe Connection — Gas	mm (in)	12.7		15.9		15.9		19.1
	Maximum Piping Length	m (ft)	35		50				
	Maximum Piping Elevation	m (ft)	20		30				
	Refrigerant		R32						

GS02 (Default)

SLM9 (Optional)

A3LC20/25/30F

A3LC35/40/50D

ACSON
International
Air Conditioners

Authorized Dealer :

CAT-A3CK/CC/CM-2001