

# GENERAL

AIR CONDITIONERS

*The Extreme Machine*



"Dealer Design Awards" of "the NEWS"



Gold Award (Category: HVAC & PLUMBING) in Reader's Choice Awards



Coolworld Industry Awards "Most Efficient Air Conditioner"



China State Construction Engineering Luban Prize



reddot design award winner 2012

**ETA General Private Limited**

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ETA

Fujitsu General

## THE MOST POWERFUL AIR CONDITIONER



2018

EXTREME COOLING | EXTREME AIRFLOW | EXTREME VOLTAGES  
EXTREME EFFICIENCY | EXTREME DURABILITY

It's my planet

**GENERAL**  
AIR CONDITIONERS  
*The Extreme Machine*

# JOURNEY SO FAR

## Since 1936

**1936**  
Established as Yaou Shouten Ltd.

**1960**  
Start of air conditioning business Japan-domestic business

**1971**  
Air conditioner exports to Middle East

**1977**  
"Super Power, Super Quiet" series introduced

**1985**  
Large wall mounted and multi-air conditioner introduced AL / AX series

**1991**  
Air conditioner manufacturing company in Thailand

**1991**  
Air conditioner with the world's first Lambda heat exchanger **World's First**  
Lambda heat exchanger

**1994**  
Air conditioner with the world's first power diffuser **World's First**  
Power diffuser

**1994**  
Air conditioner manufacturing company in Shanghai, China

**1998**  
Air conditioner motor manufacturing company in Thailand

**2000**  
India operations: ETA General Pvt. Ltd. (A joint venture between ETA & FUJITSU)

**2001**  
**AIRSTAGE** VRF air conditioners

**2003**  
**nocria** **World's First**

**2006**  
VRF air conditioner manufacturing, sales and service company in China

**2007**  
Air conditioner technology building completed on main office group

**2009**  
**AIRSTAGE V-II** VRF combination type  
**WATERSTAGE** Air to water system

**2009**  
Operation of compressor factory begins in Thailand

**2011**  
**LTLU** Series **World's First**  
Hi-spec Design Model

**2012**  
**AIRSTAGE VR-II** VRF heat recovery type

**2012**  
**AIRSTAGE J-IIS** Small VRF series

**2014**  
Eco-friendly, tropically-designed High-EER split air conditioner **World's First**

**2015**  
Introduction of Inverter Multi Systems with lowest power consumption of 0.614 KW/TR

**2016**  
Tropical Innovation Series **World's First**  
25m Long-reach Airflow **25m**

**2016**  
Human sensor

**2017**

**2018**

Overseas Air Conditioning Business since 1971

\*1..Announced 1991. In room air conditioner for the home (our company's investigation)  
\*2..Announced 1994. In room air conditioner for the home (our company's investigation)  
\*3..Announced 2002. In room air conditioner for the home (our company's investigation)

### High Quality Development & Production Environment



JAPAN Head Office  
R&D Center and 60 m Height Difference Testing Tower



JAPAN Head Office  
R&D Center and 60 m Height Difference Testing Tower



F.G.L.S. Electric Co., Ltd



Fujitsu General Central Air Conditioner (Wuxi) Co., Ltd. FGA (Thailand) Co., Ltd.



New R&D Centre in FGE Thailand

# CREATION OF COMFORT

Fujitsu General creates high-quality and environment-friendly products that provide good comfort in accordance with our vision to 'create a comfortable environment' by utilizing air conditioning technology and creativity we have fostered over many years.

## High Quality Development and Production Environment

The Headquarters R&D Center is equipped with a wide range of testing equipment envisioning a variety of operating conditions. This includes a testing tower with a 60m height difference for buildings. We provide high quality and reliable products that meet the customer's needs from all over the world through this advanced R&D center and 6 production companies based in China and Thailand.



R&D Center and 60m Height Difference Testing Tower

## Advanced

### Research Facility and Equipment

#### Performance Testing



#### Transportation & Handling



#### Reliability Testing

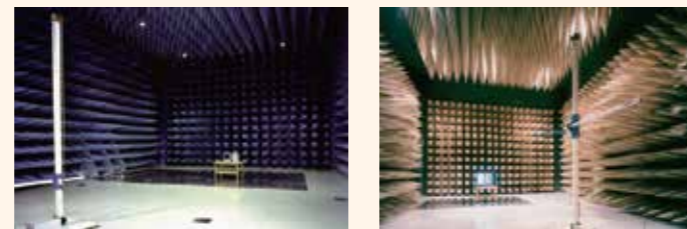


## Testing

### Laboratory

#### Fujitsu General EMC Laboratory Limited

International test site for EMC regulation



#### 60-m High Difference Testing Tower

Objective is to confirm oil circulation of compressor for reliability



# HIGH QUALITY ASSURANCE PRODUCT QUALITY ASSURANCE

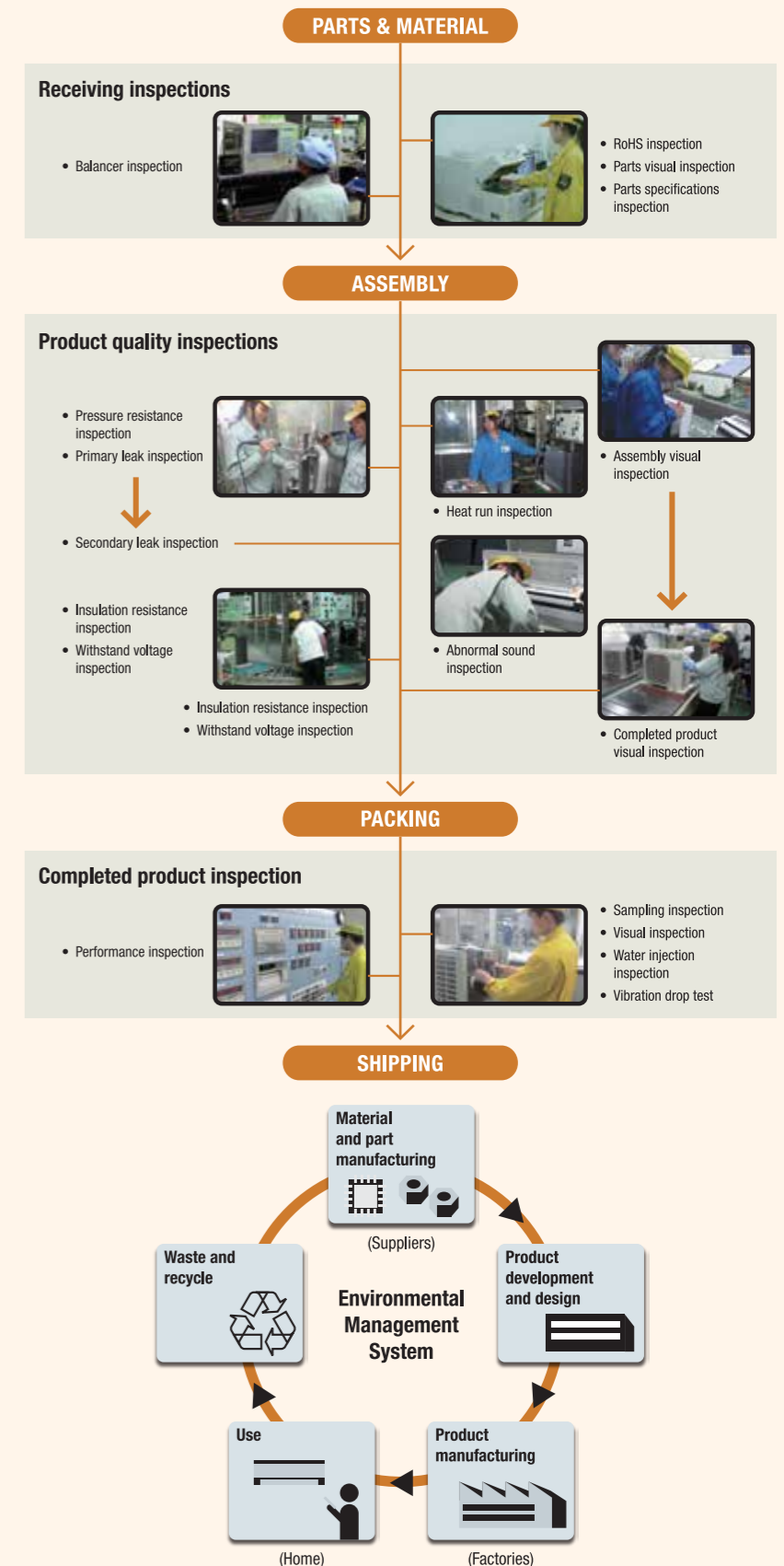
All Fujitsu General factories have acquired ISO 9001 and have built a quality control system common around the world. High quality products are offered all over the world based on stringent quality inspections.

## Receiving inspection

Parts procurement requires a supplier's test report. European regulation RoHS inspection is also performed by a special in-house test department. Total number inspection is performed especially on main parts to remove defective products.

## Stringent product quality inspection

Stringent quality inspection is carried out at all production processes. High quality is maintained by stringent checks by inspectors and repetitive inspections.



## TROPICAL INNOVATION Series

Powerful and beautiful! New large wall mounted Split AC!

### Luxurious & Elegant Design



ASGA18FUTA / ASGA18FUTC / ASGA24FUTC / ASGA30FUTC / ASGA36FUTC

### New Design



Golden Ornament



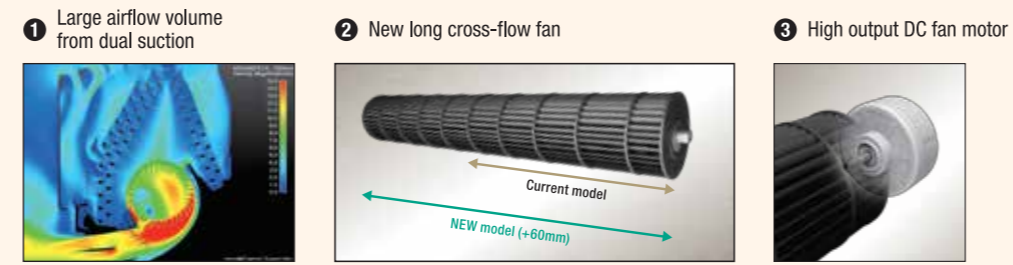
Dual Suction Intake Design



Trimmed Edge Design

Possible to cool every corner of a big room immediately.

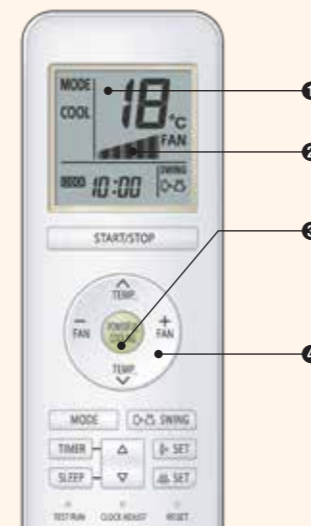
## New Technology



- Dual Suction
- Optimized Airflow Design



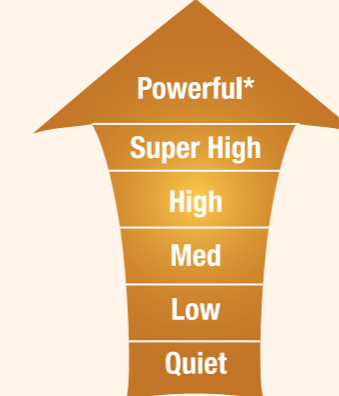
## Powerful mode is more power-up!



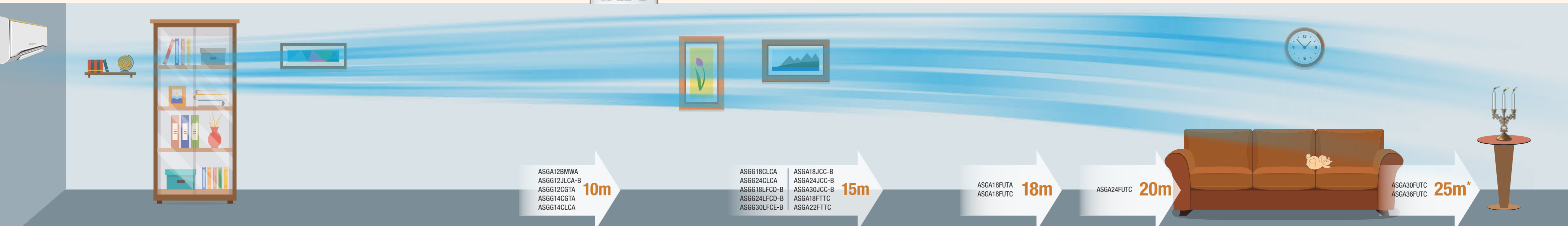
- 1 Large display
- 2 Easy to operate new square design
- 3 One touch Powerful cooling mode
- 4 Easy to use large cursor key

5 speed + Powerful cooling mode

### 6 Speed Fan Control



\*One touch powerful cooling mode: Continuous operation for 30 minutes at maximum air volume



## Powerful cooling even in extreme temperatures

### Powerful Cooling

The tropical design of the product enables powerful cooling even at high ambient temperature of 52°C.



Hyper Tropical Compressor



Tropical Product Design

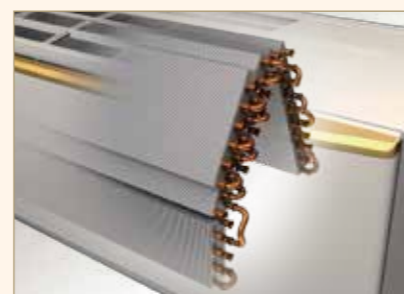


Eco-friendly Refrigerant

## Further improved energy saving performance

### High energy saving

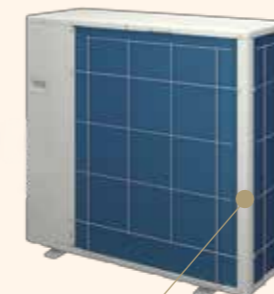
Top class EER by large heat exchanger, new efficient compressor, large propeller fan and new efficient technology.



Large heat exchanger



Large propeller fan



Super protection

Blue fin & corrugated fin protect against sand, rust and salty air

## Comfort

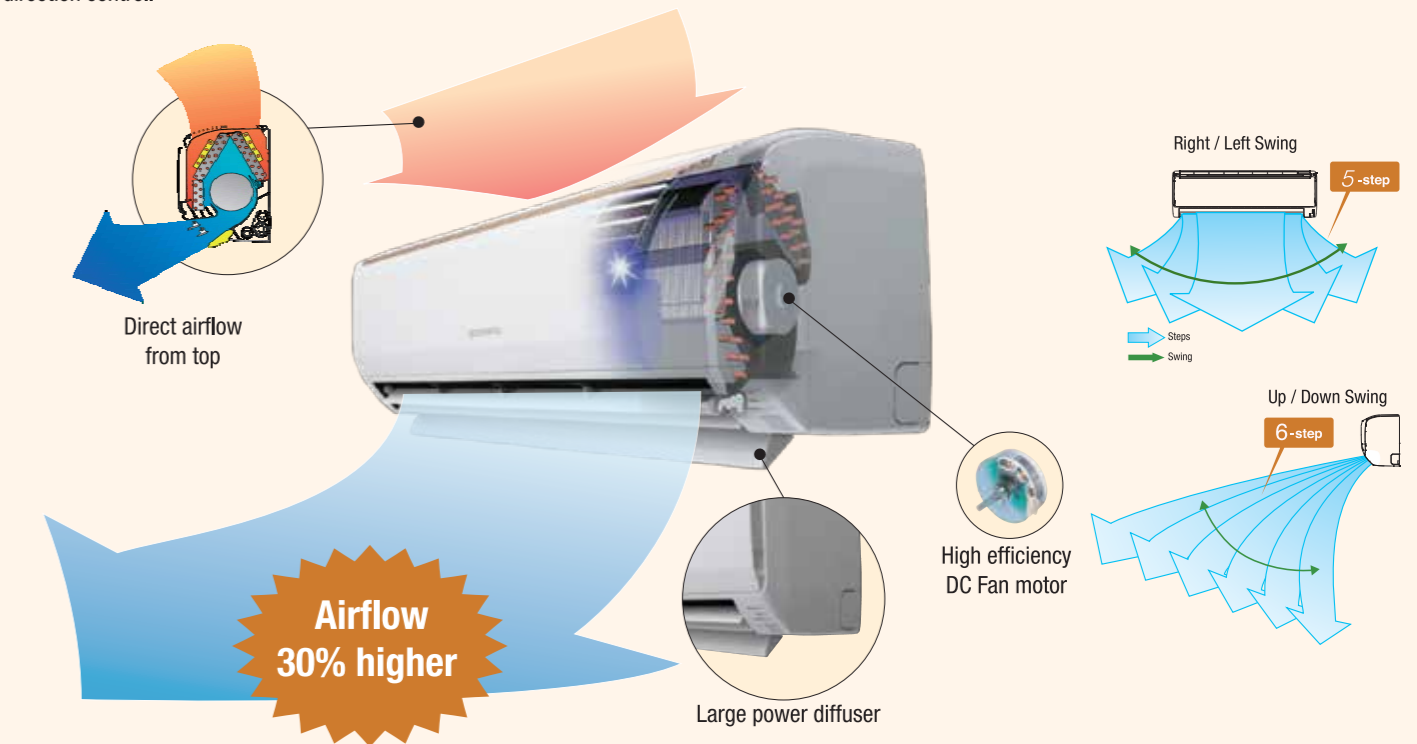
With advanced airflow technology, General provides powerful airflow and better air distribution for corner to corner cooling. This is enabled by:

### Large Power Diffuser

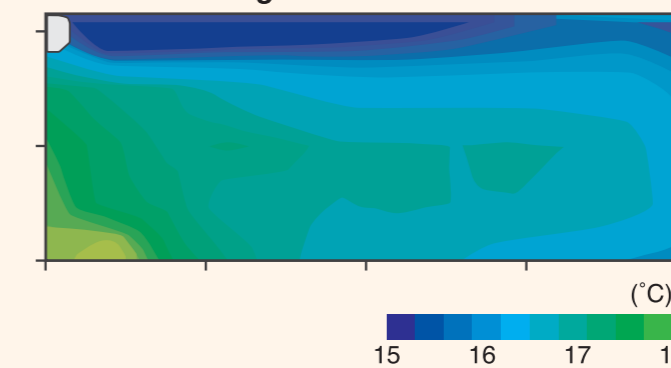
The cold air discharged is directed upward by the specially designed large power diffuser, which achieves the Coanda airflow along the ceiling, producing long reach airflow.

### 3D Double Auto Swing

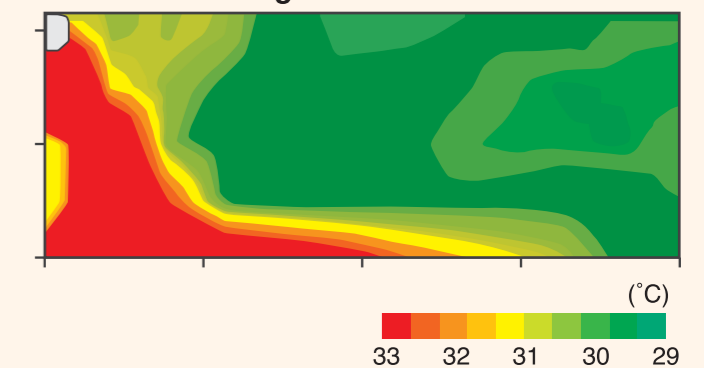
A combination of right/left and up/down directional swing allows 3-dimensional air direction control with 30 unique configurations which enables precision wind direction control.



### Cooling: Horizontal Airflow



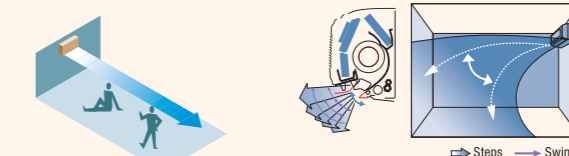
### Heating: Vertical Airflow



### Cooling: Healthy Horizontal Airflow

Cold air is discharged upward by the Coanda effect (discharge along a surface) and it is delivered far away along the ceiling. Cool air reaches every part of even a large room.

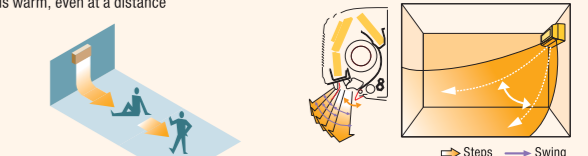
- Healthy because air does not cool the feet
- Comfortable because the occupants are not directly exposed to the airflow
- Cool air reaches a long distance



### Heating: Powerful Vertical Airflow

Wide down flow  
New arrangement heat exchanger and large diameter long fan placement provides optimum balance. Every part of even a large room is comfortable.

- Comfortable because it is warm at the feet
- Comfortable because the occupants are not directly exposed to the airflow
- It is warm, even at a distance



EXPERIENCE THE COOLING EVEN  
**25 METRES\* AWAY**

# Performance

## Hyper Tropical Spec

**Super eco-friendly**  
Compressor based on Eco-friendly R410A refrigerant designed for higher ambient temperature of 52°C.

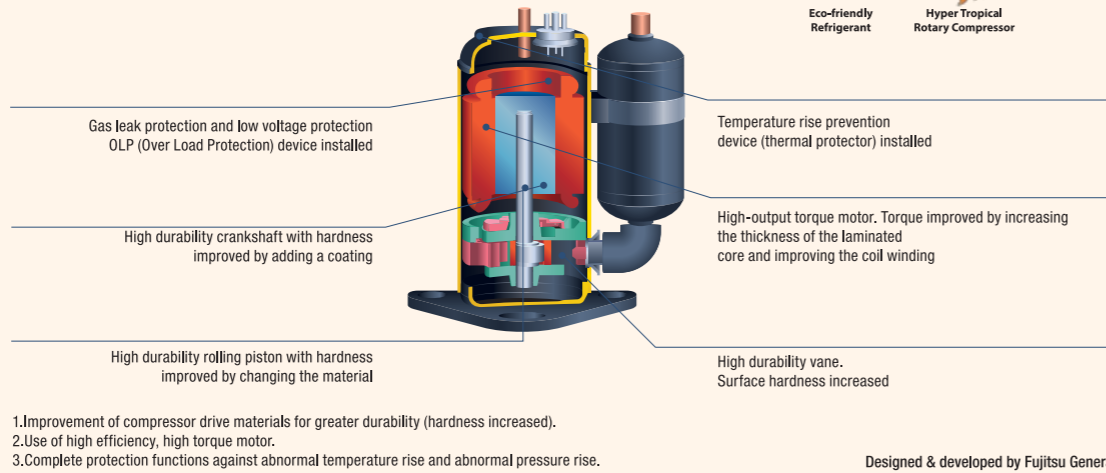
**Super powerful**  
10% more capacity than old models under overload condition (60°C).

**Super low voltage operation**  
Our Hyper Tropical Compressor can be operated even at a low voltage.

**Super Hi-EER**  
5-10% higher than our old model.

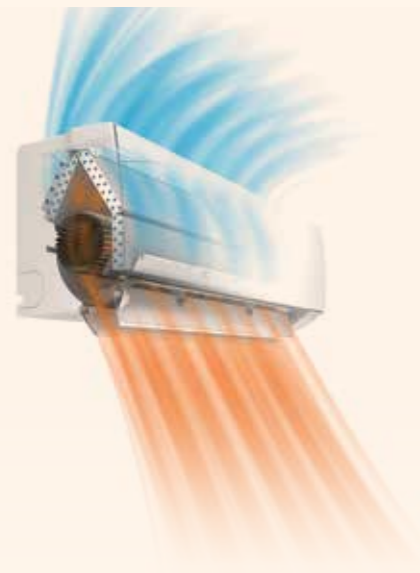
**Super quiet**  
Reduces the noise level by about 3dB at 220V operation.

## New Hyper Tropical Rotary Compressor



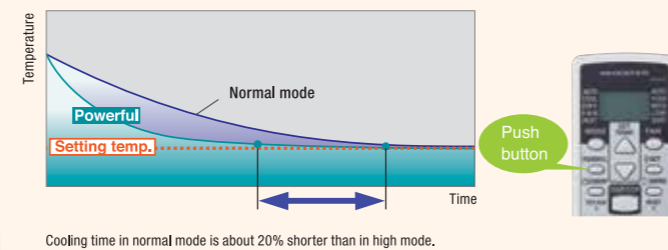
## Powerful Heating

High heating capacity is realized even at low outdoor temperature by mounting a large heat exchanger and large DC rotary compressor along with a high performance inverter PCB.



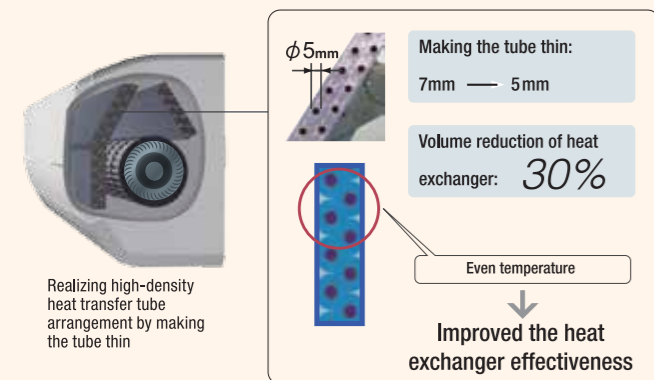
## Powerful Operation

Twenty minutes of continuous operation by maximising airflow and at maximum compressor speed allows the temperature to reach optimum levels. Rapid cooling and heating makes the room comfortable quickly.



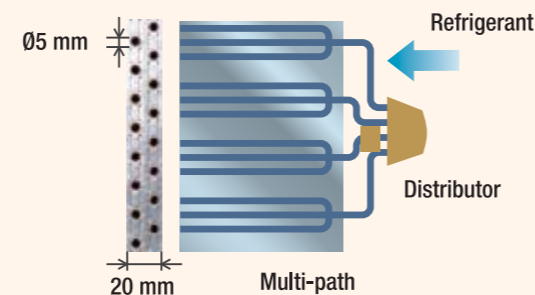
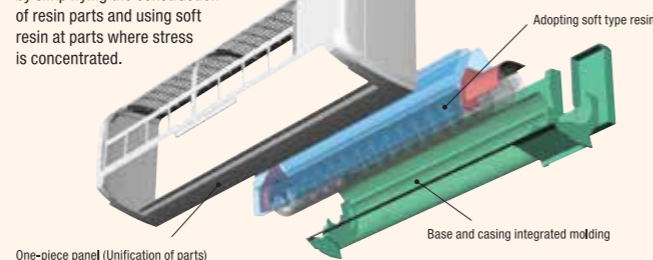
## High Density Multi-Path Heat Exchanger

Heat exchange performance is substantially improved by the thin high-density heat exchanger and multi-path efficiency technology. High performance grooved piping with expanded heat exchanger area is used for better heat transfer.



## Low Noise

Squeaking sound is eliminated by simplifying the construction of resin parts and using soft resin at parts where stress is concentrated.



# Performance

## Least Derration Effect

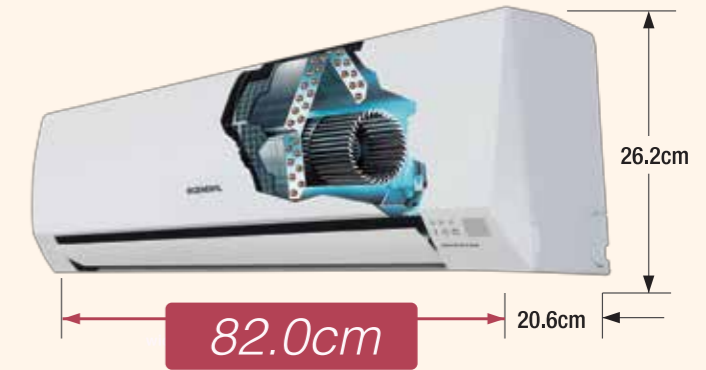
General Air Conditioners are designed to perform at ambient conditions as high as 60°C. Housed in larger outdoor units, the machines carry high BTU hyper-tropical compressors with large copper heat exchangers to ensure better heat transfer.

## Powerful and Compact Design

Though the indoor unit is compact, it features a large, high pressure cross fan (90mm diameter) in a center mounted configuration and a Lambda Type Heat Exchanger to provide plenty of power. The extra long diffuser provides a wide outflow opening for air. This ensures a large air outflow volume over a wide area to cool or heat all areas of the room.

## High Air Quality

Perfect comfort is ensured by the removal of dust, odor and bacteria in the air. Intake of fresh air, and other clean air conditioning technologies always takes health into consideration. Mildew resistant filter prevents mold formation in the indoor unit.



Simple and compact design fits any interior decor

## High efficiency BLDC Motor

DC fan motor produces high power, wide operation range, and high efficiency.

- 20% increase in motor efficiency
- 20% lesser vibration



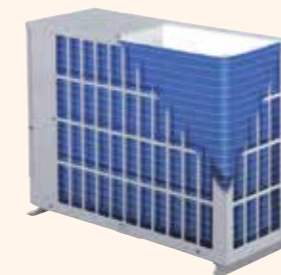
## Large Outdoor Fan

Large fan (Φ 450x130) with powerful motor at high CFM for better heat transfer.



## Blue Fin Condenser for long life

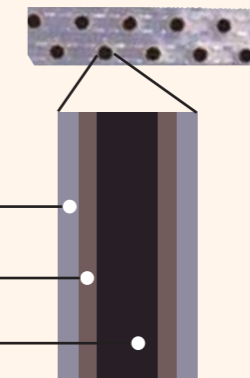
Adoption of strong blue fin hydrophillic coated heat exchanger provides protection against rust and salt damage.



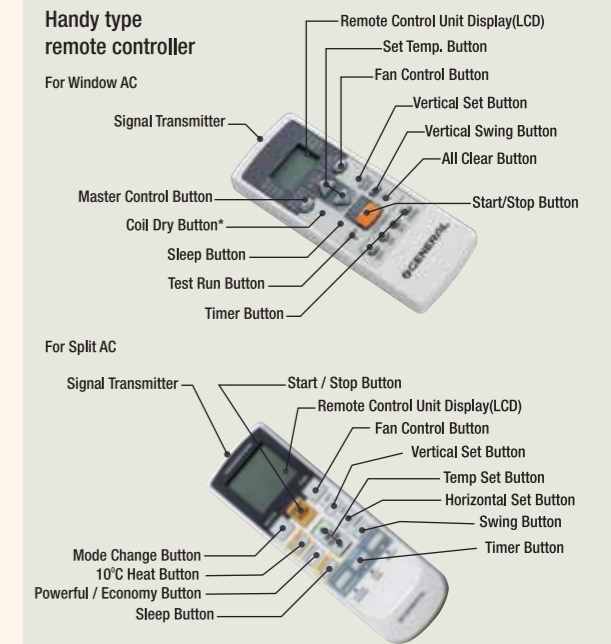
Enhanced protection

## Anti-Corrosion Treated Fin

- Hydrophillic Film
- Corrosion-resistant Acrylic Resin
- Aluminium

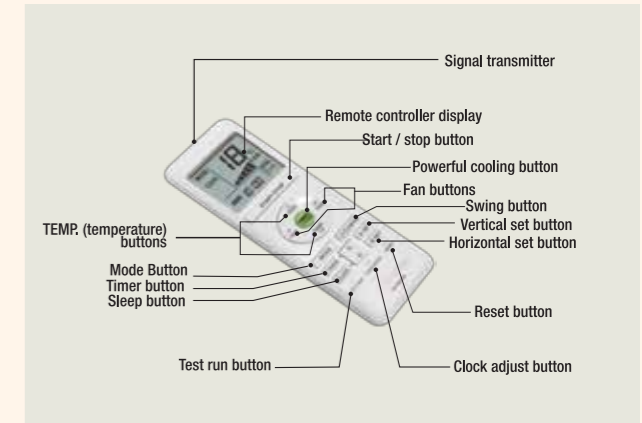


## Feature Packed Remote



\*Specifications & features may vary model-wise and are subject to change without notice.

## For Tropical Innovation Series



**Pursuit of Seasonal Efficiency**

In over 90% of actual operation time, air conditioners are operated at partial capacity instead of rated capacity. We focused on high seasonal efficiency with and all DC inverter control and high efficiency technology.

**What is an INVERTER air conditioner ?**

INVERTER is an equipment that controls the electrical voltage, current and frequency of the compressor motor in an air conditioner.

An INVERTER air conditioner changes the speed of the compressor by varying the frequency of the power supply to give superior cooling, ranging from high to low.

When an INVERTER air conditioner is started, the compressor runs at high speed for quick cooling. But once the set temperature is reached, the INVERTER air conditioner enters an 'energy saving mode' by reducing the compressor speed. Thus, effectively reducing its power in order to save energy.

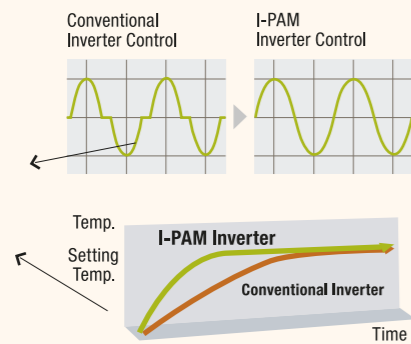
**Full Inverter Technology**

General Inverter Air conditioners are built with compressors with advanced frequency modulation technology that run at speeds as low as 13% to as high as 115% when quick cooling is required, and consume less power under part load conditions.

**I-PAM Control (PAM+IPM) Inverter Control**

I-PAM inverter control is a technology which reduces loss by adjusting the current waveform to a better sine waveform. This promotes the effective use of the input power supply to attain high performance.

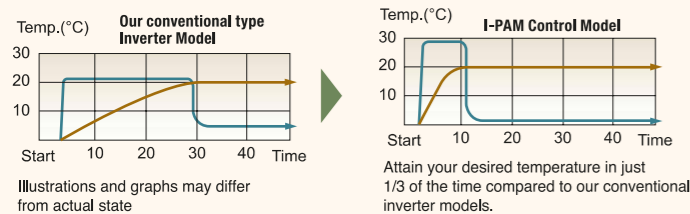
I-PAM Control Panel



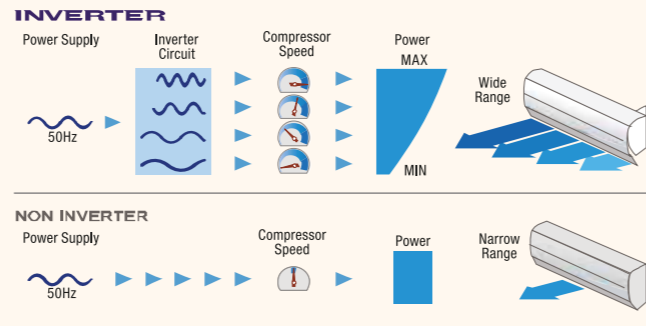
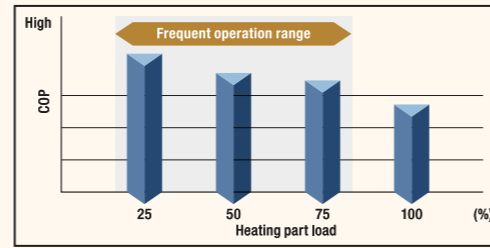
"I-PAM (Intelligent power module – Pulse Amplitude Modulation)"

Energy saving and quick heating only possible by I-PAM

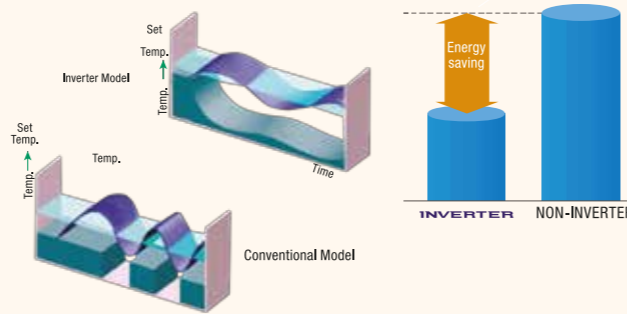
- Voltage and speed of the compressor motor
- Temperature of 10 cm above floor



Illustrations and graphs may differ from actual state



**Faster Cooling**



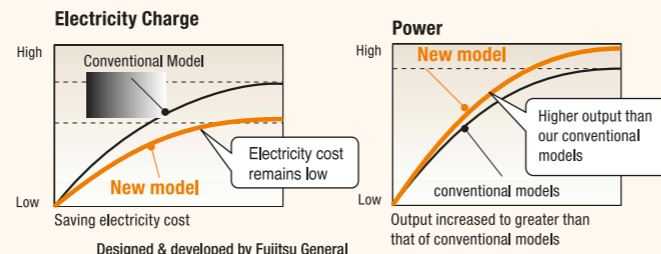
**V-PAM (Vector + I-PAM) Inverter Control**

V-PAM inverter control reduces the effects of magnetic flux and increases the maximum speed and efficiency of the compressor by vector control technology. With this technology, further miniaturization, higher efficiency and better performance is attained.



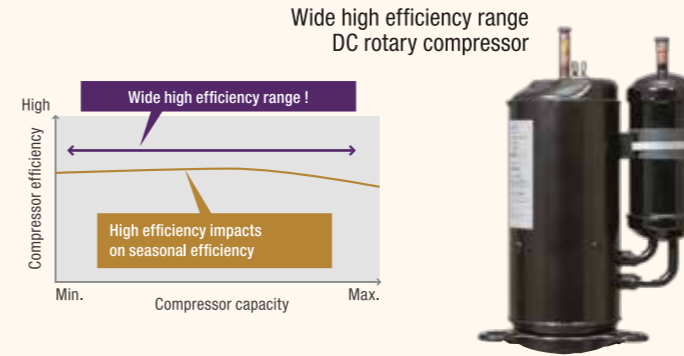
"V-PAM (Vector – Pulse Amplitude Modulation)"

It becomes more powerful with the newly developed high efficiency compressor motor control.



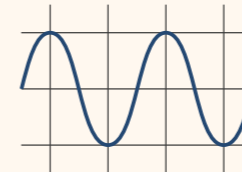
**ALL DC Saves Energy Throughout the Year**

By making all the motors DC, electricity loss is decreased and power consumption is substantially reduced. In addition, high-speed fan motor rotation is possible, heat exchange efficiency is increased and annual power consumption amount is saved by increasing the airflow.



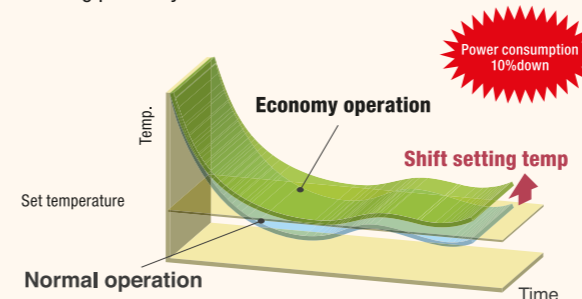
**Sine-wave DC Inverter Control**

High efficiency operation is realized by using a sine wave DC inverter control.



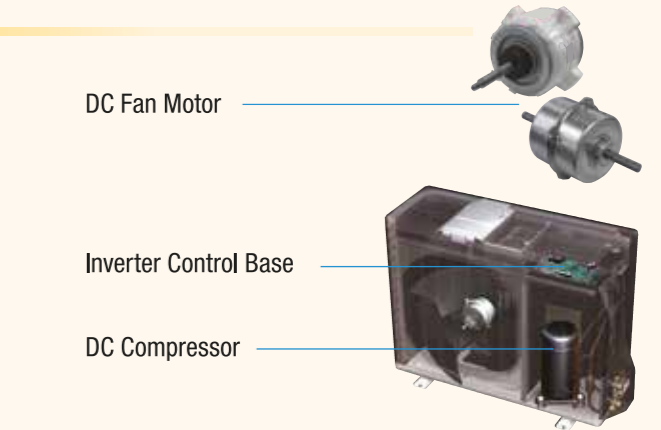
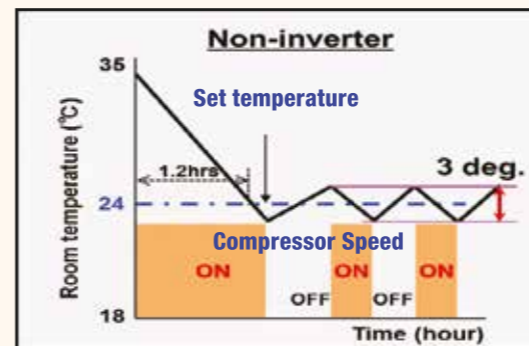
**Economy Operation**

Economy operation is for energy saving. As the set temperature of the indoor unit is shifted by 1°C, the load on the outdoor unit is minimised thus saving power by 10%.



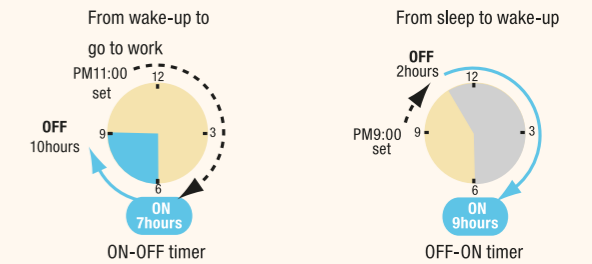
**Faster Cooling and Comfort Control**

Inverter ACs take half the time to reach the set temperature and precise control of room temperature is also attained.



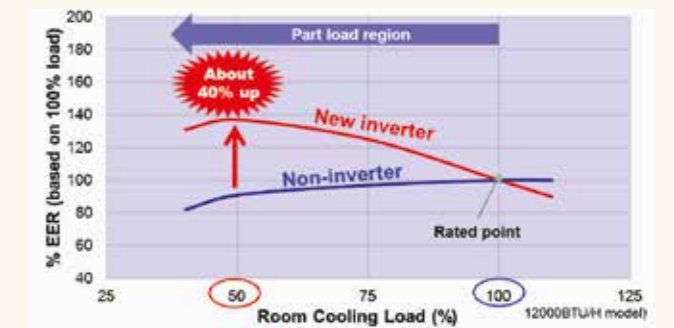
**More Convenient Timer**

You can set a program timer ON-OFF or OFF-ON timer that's suitable for your lifestyle (Setting time: 0.5, 1, 1.5, 2, --- 9.5, 10, 11, 12 hours)

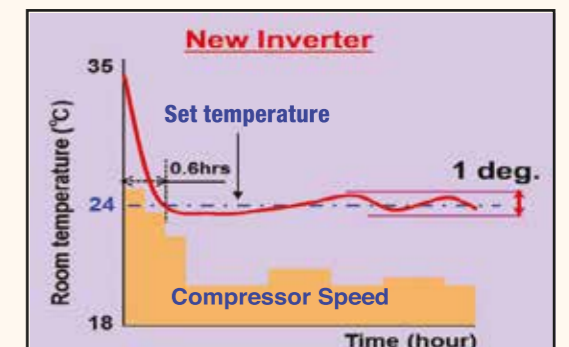


**Part Load Efficiency**

More power saving can be achieved by using Inverters as they operate under part-load condition most of the time.

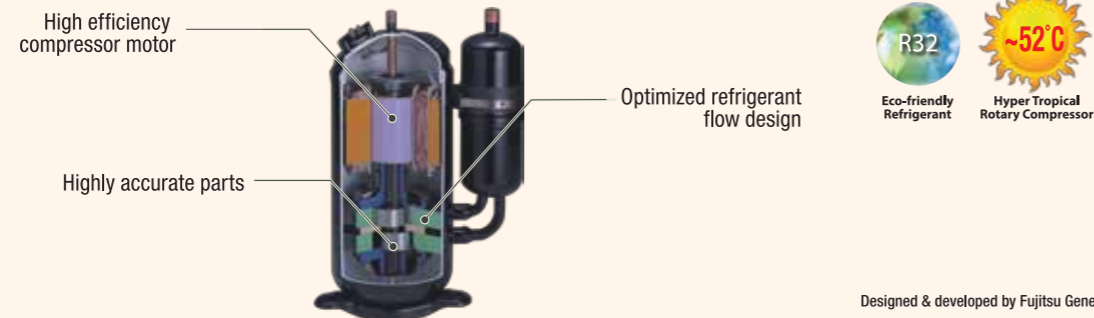


Starting point: Set temperature: 24°C, Operation Time: 3 hours, Room Inside: 35°C, Outdoor: 35°C (For 12000BTU/Hr model)



### Hyper Tropical DC Twin Rotary Compressor

The high efficiency DC inverter type "2-cylinder rotary compressor" is used for our product ranges. It has achieved higher energy efficiency compared to similar compressors by optimizing the structure inside the compressor.

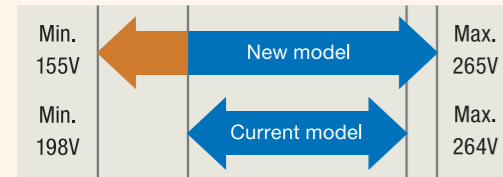


Designed & developed by Fujitsu General

### Expansion of voltage range

It can be operated under unstable power supply condition.

Voltage Range



### Operation in High Ambient Temperature

The operation is secured under high ambient temperature. (52°C)



### 5-Star Rank in Energy Saving Program

5 -Star!

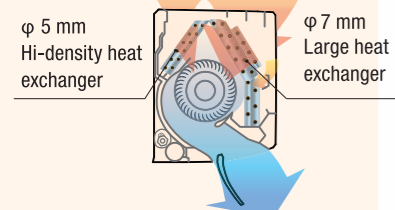


### High Energy Saving

Top class high efficiency is achieved by high efficient lambda heat exchanger, large cross flow fan and new refrigerant.

#### Hybrid-heat exchanger

The heat exchange efficiency has been significantly improved with the large hybrid heat exchanger, attaining the top-level ISEER.



φ 107 Large cross-flow fan  
With the large-diameter fan, efficient air volume can be obtained at low power.



**Human sensor**  
Human sensor catches movements of people in a room, and operates with lower capacity when people leave the room. When people come back to the room, it automatically returns to previous operating mode.

# HYPER TROPICAL INVERTER

EXTREME COOLING | EXTREME VOLTAGES | EXTREME EFFICIENCY | COMPACT DESIGN



GOOD DESIGN



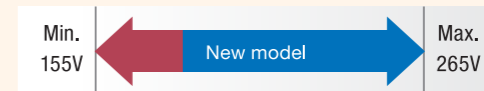
Cooling ASGG12CGTA / ASGG14CGTA



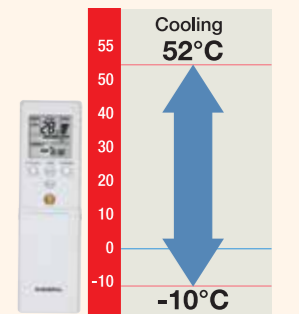
Human sensor



Wide Voltage Range



Ambient Operating Range



### Wide range of cooling – Full Inverter Technology

PARAMETERS	UNITS	ASGG12CGTA	ASGG14CGTA
Wide Cooling Range (Min~Max)	kW	0.9~4.1	0.9~4.5

TECHNICAL SPECIFICATIONS	PARAMETERS	UNITS	ASGG12CGTA		ASGG14CGTA	
	ISEER Star Rating	-	5		5	
	Tonnage	TR	1.0		1.2	
	Power Supply	Ph-Hz-V	1φ-50-230			
	Running Current	A	4.3		5.3	
	Standard Cooling at 100% Capacity (Min~Max Operating Range)	W	3,400 (900~4100)		4,200 (900~4500)	
	Standard Cooling at 50% Capacity	W	1,700		2,100	
	Power Consumption at 100% Capacity	W	805		1,175	
	Power Consumption at 50% Capacity	W	320		395	
	EER	W/W	4.22		3.57	
	Rated ISEER	kWh/kWh	5.12		4.75	
	Electricity Consumption per Annum	kWh	514		685	
	Moisture Removal	l/h	1.8		2.1	
	Indoor Airflow Volume-High	m³/h	700		770	
	Indoor Airflow Distance	m	10		10	
	Indoor Unit Dimensions HxWxD	mm	270X834X215		270X834X215	
	Indoor Unit Net Weight	kg	10		10	
	Outdoor Unit Dimensions HxWxD	mm	542X799X290		542X799X290	
	Outdoor Unit Net Weight	kg	31		32	
	Indoor Noise Level (Quiet)	dB(A)	19		20	
	Outdoor Noise Level	dB(A)	50		50	
	Connection Pipe (Gas, Liquid)	inch	3/8, 1/4		3/8, 1/4	
		mm	9.52, 6.35		9.52, 6.35	
	Pipe Length Min~Max (Precharged)	m	3~20(7.5)		3~20(7.5)	
	Max Height Difference	m	15		15	
	Max Operating Temperature	°C	52°C		52°C	
	Refrigerant Type	Non-CFC	R32		R32	
	Compressor Type	-	Hyper Tropical Rotary		Hyper Tropical Rotary	

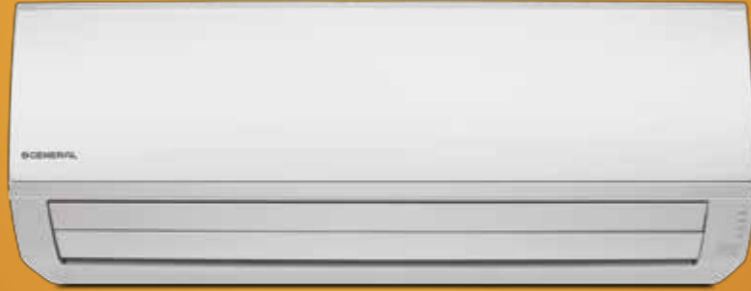
\*Specifications, design and features are subject to change without prior notice for further development. The above models conform to energy labelling as per BEE regulation. Specifications are based on the following conditions. Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Pipe length : 5.0 m Voltage : 230 [V]. Piping can be extended to above length for full efficiency with additional charge of gas and above 10mts/15 mts/20mts as per installation manual. The noise level is the value when measured in an anechoic room.



# HYPER TROPICAL INVERTER



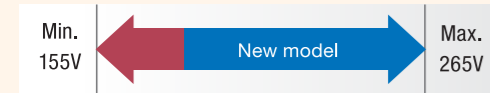
EXTREME COOLING | EXTREME VOLTAGES | COMPACT DESIGN



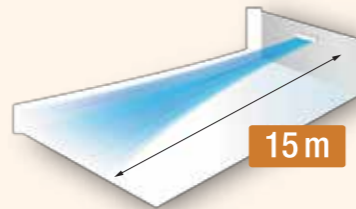
Cooling ASGG14CLCA / ASGG18CLCA / ASGG24CLCA

15m COANDA AIRFLOW TECHNOLOGY | V-PAM V-PAM CONTROL | Economy ECONOMY MODE | POWERFUL POWERFUL MODE | SELF DIAGNOSIS

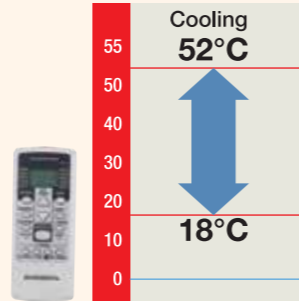
### Wide Voltage Range



### 15m Long-reach Airflow



### Ambient Operating Range



### Wide range of cooling – Full Inverter Technology

PARAMETERS	UNITS	ASGG14CLCA	ASGG18CLCA	ASGG24CLCA
Wide Cooling Range(Min~Max)	kW	0.8~4.0	0.9~5.45	0.9~7.75

TECHNICAL SPECIFICATIONS	PARAMETERS	UNITS	ASGG14CLCA	ASGG18CLCA	ASGG24CLCA
	ISEER Star Rating	-	4	4	3
Tonnage	TR	1.2	1.5	2.0	
Power Supply	Ph-Hz-V	1φ-50-230			
Running Current	A	5.3	7.5	11.4	
Standard Cooling at 100% Capacity (Min~Max Operating Range)	W	4,000 (800~4,000)	5,200 (900~5,450)	7,100 (900~7,750)	
Standard Cooling at 50% Capacity	W	2,000	2,600	3,550	
Power Consumption at 100% Capacity	W	1,100	1,680	2,570	
Power Consumption at 50% Capacity	W	430	550	750	
EER	W/W	3.64	3.10	2.76	
Rated ISEER	-	4.45	4.17	3.95	
Electricity Consumption per Annum	kWh	696	965	1,390	
Moisture Removal	l/h	1.3	1.9	3.1	
Indoor Airflow Volume-High	m <sup>3</sup> /h	880	975	1,035	
Indoor Airflow Distance	m	10	15	15	
Indoor Unit Dimensions HxWxD	mm	293x790x249	293x790x249	293x790x249	
Indoor Unit Net Weight	kg	9.5	9.5	9.5	
Outdoor Unit Dimensions HxWxD	mm	541x663x290	542x799x290	632x799x293	
Outdoor Unit Net Weight	kg	25	31	38	
Indoor Noise Level (Quiet)	dB(A)	32	34	34	
Outdoor Noise Level	dB(A)	51	53	55	
Connection Pipe (Gas, Liquid)	inch	3/8, 1/4	3/8, 1/4	1/2, 1/4	
	mm	9.52, 6.35	9.52, 6.35	12.70, 6.35	
Pipe Length Min~Max	m	3~20 (15)	3~20 (15)	3~30 (15)	
Max Height Difference	m	15	15	25	
Max Operating Temperature	°C	52°C	52°C	52°C	
Refrigerant Type	-	R32	R32	R32	
Compressor Type	-	Hyper Tropical Rotary	Hyper Tropical Twin Rotary	Hyper Tropical Twin Rotary	

\*Specifications, design and features are subject to change without prior notice for further development. The above models conform to energy labelling as per BEE regulation. Specifications are based on the following conditions. Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Pipe length : 5.0 m Voltage : 230 [V]. Piping can be extended to above length for full efficiency with additional charge of gas and above 10mts/15 mts/20mts as per installation manual. The noise level is the value when measured in an anechoic room.

# INVERTER



EXTREME EFFICIENCY

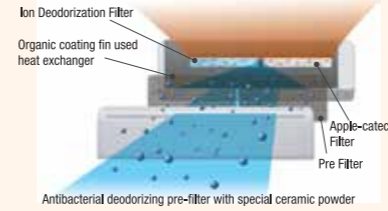


Cooling ASGG12JLCA-B

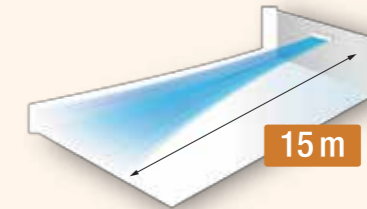
Cooling ASGA18JCC-B / ASGA24JCC-B / ASGA30JCC-B

ION ION DEODORIZATION FILTER | AF APPLE-CATECHIN FILTER | Double DOUBLE SWING AUTOMATIC - 3D | 15m COANDA AIRFLOW TECHNOLOGY | i-PAM i-PAM CONTROL

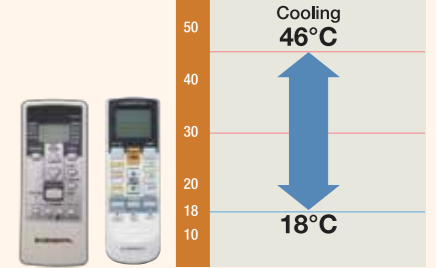
### Filter Features



### 15m Long-reach Airflow



### Ambient Operating Range



### Wide range of cooling – Full Inverter Technology

PARAMETERS	UNITS	ASGG12JLCA-B	ASGA18JCC-B	ASGA24JCC-B	ASGA30JCC-B
Wide Cooling Range(Min~Max)	kW	0.9~3.75	0.9~6.0	0.9~8.0	2.9~9.0

TECHNICAL SPECIFICATIONS	PARAMETERS	UNITS	ASGG12JLCA-B	ASGA18JCC-B	ASGA24JCC-B	ASGA30JCC-B
	ISEER Star Rating	-	4	5	4	4
Tonnage	TR	1.0	1.5	2.0	2.5	
Power Supply	Ph-Hz-V	1φ-50-230				
Running Current	A	5.2	6.6	10.6	11.7	
Standard Cooling at 100% Capacity (Min~Max Operating Range)	W	3,400 (900~3750)	5,200(900~6,000)	7,000 (900~8,000)	8,000 (2,900~9,000)	
Standard Cooling at 50% Capacity	W	1,700	2,600	3,500	4,000	
Power Consumption at 100% Capacity	W	1,120	1,480	2,400	2,660	
Power Consumption at 50% Capacity	W	380	480	705	870	
EER	W/W	3.04	3.51	2.92	3.01	
Rated ISEER	kWh/kWh	4.01	4.76	4.16	4.05	
Electricity Consumption per Annum	kWh	656	846	1,303	1,528	
Moisture Removal	l/h	1.8	2.8	3.0	3.0	
Indoor Airflow Volume-High	m <sup>3</sup> /h	720	900	1,100	1,100	
Indoor Airflow Distance	m	10	15	15	15	
Indoor Unit Dimensions HxWxD	mm	262x820x206	320x998x228	320x998x228	320x998x228	
Indoor Unit Net Weight	kg	7	14	14	14	
Outdoor Unit Dimensions HxWxD	mm	535x663x293	620x790x298	620x790x298	830x900x330	
Outdoor Unit Net Weight	kg	26	40	40	58	
Indoor Noise Level (Quiet)	dB(A)	22	26	33	33	
Outdoor Noise Level	dB(A)	52	50	56	53	
Connection Pipe (Gas, Liquid)	inch	3/8, 1/4	1/2, 1/4	5/8, 1/4	5/8, 3/8	
	mm	9.53, 6.35	12.70, 6.35	15.88, 6.35	15.88, 9.53	
Pipe Length Min~Max (Precharged)	m	3~15(10)	3~30(15)	3~30(15)	3~30(20)	
Max Height Difference	m	10	20	20	20	
Max Operating Temperature	°C	46°C	46°C	46°C	46°C	
Refrigerant Type	Non-CFC	R410A	R410A	R410A	R410A	
Compressor Type	-	Rotary	Rotary	Twin Rotary	Twin Rotary	

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# INVERTER - HOT & COLD

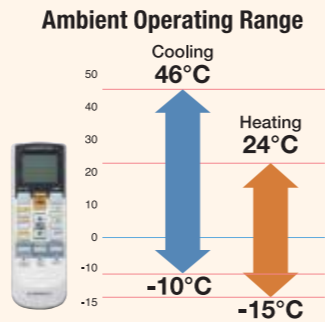
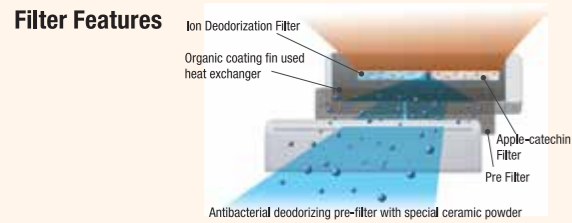
EXTREME EFFICIENCY



Hot & Cold ASGG18LFCD-B / ASGG24LFCD-B / ASGG30LFCE-B



ION ION DEODORIZATION FILTER | APPLE-CATECHIN FILTER | DOUBLE SWING AUTOMATIC - 3D | 15m COANDA AIRFLOW TECHNOLOGY | i-PAM CONTROL



Wide range of cooling & heating – Full Inverter Technology

PARAMETERS	UNITS	ASGG18LFCD-B	ASGG24LFCD-B	ASGG30LFCE-B
Wide Cooling Range (Min~Max)	kW	0.9~6.0	0.9~8.0	2.9~9.0
Wide Heating Range (Min~Max)	kW	0.9~9.1	0.9~10.6	2.2~11.0

PARAMETERS	CATEGORY	UNITS	ASGG18LFCD-B	ASGG24LFCD-B	ASGG30LFCE-B
ISEER Star Rating	-	-	5	4	4
Tonnage	-	TR	1.5	2.0	2.5
Power Supply	-	Ph-Hz-V	1φ-50-230		
Running Current	Cooling	A	6.5	10.0	10.4
	Heating	A	8.5	10.9	10.7
Standard Cooling at 100% Capacity (Min~Max Operating Range)	Cooling	W	5,000(900~6,000)	7,100 (900~8,000)	7,900 (2,900~9,000)
Standard Cooling at 50% Capacity	Cooling	W	2,500	3,550	3,950
Standard Heating at 100% Capacity (Min~Max Operating Range)	Heating	W	6,300 (900~9,100)	8,000 (900~10,600)	8,800 (2,200~11,000)
Power Consumption at 100% Capacity	Cooling	W	1,450	2,280	2,360
Power Consumption at 50% Capacity	Cooling	W	500	720	930
Power Consumption at 100% Capacity	Heating	W	1,900	2,480	2,440
EER	Cooling	W/W	3.45	3.11	3.35
COP	Heating	W/W	3.32	3.23	3.61
Rated ISEER	Cooling	kWh/kWh	4.52	4.28	4.08
Electricity Consumption per Annum	Cooling	kWh	857	1,286	1,499
Moisture Removal	-	l/h	2.6	2.7	3.2
Indoor Airflow Volume-High	Cooling	m³/h	900	1,120	1,120
	Heating	m³/h	900	1,120	1,150
Indoor Airflow Distance	Cooling	m	15	15	15
	Heating	m	15	15	15
Indoor Unit Dimensions HxWxD	-	mm	320x998x238	320x998x238	320x998x238
Indoor Unit Net Weight	-	kg	14	14	14
Outdoor Unit Dimensions HxWxD	-	mm	620x790x290	620x790x290	830x900x330
Outdoor Unit Net Weight	-	kg	41	41	61
Indoor Noise Level (Quiet)	Cooling	dB(A)	26	32	33
	Heating	dB(A)	25	32	33
Outdoor Noise Level	Cooling	dB(A)	50	55	53
	Heating	dB(A)	51	56	55
Connection Pipe (Gas, Liquid)	-	inch	1/2, 1/4	5/8, 1/4	5/8, 3/8
	-	mm	12.70, 6.35	15.88, 6.35	15.88, 9.53
Pipe Length Min~Max (Precharged)	-	m	3~25(15)	3~30(15)	3~50(20)
Max Height Difference	-	m	20	20	30
Operating Temperature	Cooling	°C	-10°C~46°C	-10°C~46°C	-10°C~46°C
	Heating	°C	-15°C~24°C	-15°C~24°C	-15°C~24°C
Refrigerant Type	-	-	R410A	R410A	R410A
Compressor Type	-	-	Twin Rotary	Twin Rotary	Twin Rotary

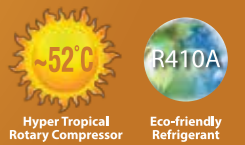
\*Specifications, design and features are subject to change without prior notice for further development. The above models conform to energy labelling as per BEE regulation. Specifications are based on the following conditions. Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Pipe length : 5.0 m Voltage : 230 [V]. Piping can be extended to above length for full efficiency with additional charge of gas and above 10mts/15 mts/20mts as per installation manual. The noise level is the value when measured in an anechoic room.

# TROPICAL INNOVATION SPLIT

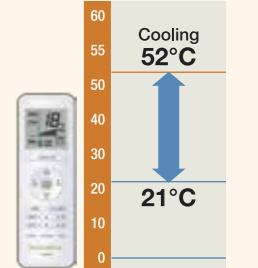
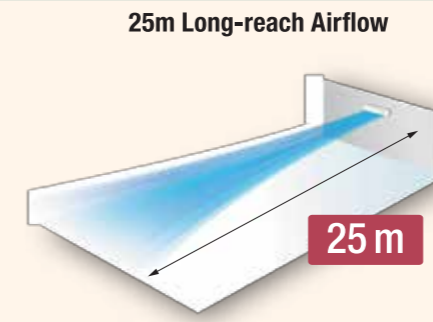
EXTREME COOLING | EXTREME AIRFLOW | LARGE INDOOR



Cooling ASGA18FUTA / ASGA18FUTC / ASGA24FUTC / ASGA30FUTC / ASGA36FUTC



DUAL SUCTION INTAKE DESIGN | SELF DIAGNOSIS | 25m COANDA AIRFLOW TECHNOLOGY | DOUBLE SWING AUTOMATIC - 3D | QUIET OPERATION



PARAMETERS	UNITS	ASGA18FUTA / 18FUTC	ASGA24FUTC	ASGA30FUTC	ASGA36FUTC
ISEER Star Rating	-	3	3	3	NA
Tonnage	TR	1.5	2.0	2.5	3.0
Power Supply	-	1φ-50-230			
Running Current	A	6.9	9.31	10.4	14.1
Standard Cooling at 100% Capacity	W	5,470	7,250	8,180	10,580
Power Consumption at 100% Capacity	W	1,560	2,070	2,340	3,140
EER	W/W	3.51	3.50	3.50	3.37
Rated ISEER	kWh/kWh	3.51	3.50	3.50	NA
Electricity Consumption per Annum	kWh	1,207	1,603	1,811	NA
Moisture Removal	l/h	1.0	2.0	2.5	4.5
Indoor Airflow Volume-Powerful	m³/h	1,400	1,480	1,630	1,630
Indoor Airflow Distance	m	18	20	25	25
Indoor Unit Dimensions HxWxD	mm	340x1150x280	340x1150x280	340x1150x280	340x1150x280
Indoor Unit Net Weight	kg	16	17	17	17
Outdoor Unit Dimensions HxWxD	mm	650x830x320	650x830x320	914x970x370	1290x900x330
Outdoor Unit Net Weight	kg	47	52	77	104
Indoor Noise Level (Quiet)	dB(A)	34	35	41	43
Outdoor Noise Level	dB(A)	53	55	54	56
Connection Pipe (Gas, Liquid)	inch	5/8, 1/4	5/8, 1/4	5/8, 3/8	5/8, 3/8
	mm	15.88, 6.35	15.88, 6.35	15.88, 9.53	15.88, 9.53
Pipe Length Min~Max (Precharged)	m	3~20(7.5)	3~20(7.5)	3~30(7.5)	3~50(20)
Max Height Difference	m	8	8	15	30
Max Operating Temperature	°C	52°C	52°C	52°C	52°C
Refrigerant Type	-	R410A	R410A	R410A	R410A
Compressor Type	-	Hyper Tropical Rotary	Hyper Tropical Rotary	Hyper Tropical Scroll	Hyper Tropical Scroll

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# HYPER TROPICAL SPLIT

## EXTREME COOLING



Cooling ASGA18FTTC / ASGA22FTTC



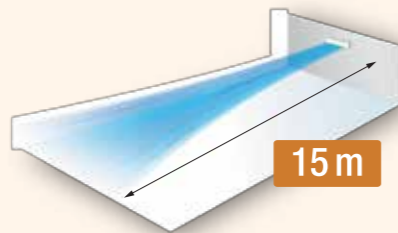
QUIET OPERATION 
 DOUBLE SWING AUTOMATIC - 3D 
 15m COANDA AIRFLOW TECHNOLOGY 
 SELF DIAGNOSIS 
 MILDEW RESISTANT FILTER

### High Capacity Compressor

PARAMETERS	UNITS	ASGA18FTTC	ASGA22FTTC
Compressor Capacity	BTU/h	19,107	24,328
Machine Capacity	BTU/h	18,080	22,170

Compressor capacity higher than machine capacity ensures powerful operation at high ambient temperature.

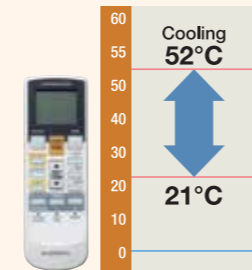
### 15m Long-reach Airflow



### 5 Speed Fan Control



### Ambient Operating Range



TECHNICAL SPECIFICATIONS	PARAMETERS	UNITS	ASGA18FTTC	ASGA22FTTC
	ISEER Star Rating	-	-	3
Tonnage	TR	-	1.5	1.8
Power Supply	Ph-Hz-V	-	1φ-50-230	
Running Current	A	-	6.8	8.3
Standard Cooling at 100% Capacity	W	-	5,300	6,500
Power Consumption at 100% Capacity	W	-	1,510	1,850
EER	W/W	-	3.51	3.51
Rated ISEER	kWh/kWh	-	3.51	3.51
Electricity Consumption per Annum	kWh	-	1,169	1,432
Moisture Removal	l/h	-	1.7	2.2
Indoor Airflow Volume-High	m³/h	-	985	1,120
Indoor Airflow Distance	m	-	15	15
Indoor Unit Dimensions HxWxD	mm	-	320x998x238	320x998x238
Indoor Unit Net Weight	kg	-	14	14
Outdoor Unit Dimensions HxWxD	mm	-	650x830x320	830x900x330
Outdoor Unit Net Weight	kg	-	51	63
Indoor Noise Level (Quiet)	dB(A)	-	33	35
Outdoor Noise Level	dB(A)	-	54	54
Connection Pipe (Gas, Liquid)	inch	-	5/8, 1/4	5/8, 1/4
	mm	-	15.88/6.35	15.88/6.35
Pipe Length Min~Max (Precharged)	m	-	3~20(7.5)	3~20(7.5)
Max Height Difference	m	-	8	8
Max Operating Temperature	°C	-	52°C	52°C
Refrigerant Type	Non-CFC	-	R410A	R410A
Compressor Type	-	-	Hyper Tropical Rotary	Hyper Tropical Rotary

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# ECO-FRIENDLY SPLIT

## COMPACT DESIGN

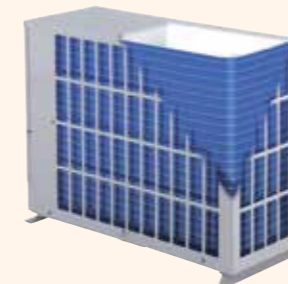


Cooling ASGA12BMWA



QUIET OPERATION 
 POWERFUL MODE 
 10m COANDA AIRFLOW TECHNOLOGY 
 SELF DIAGNOSIS 
 MILDEW RESISTANT FILTER

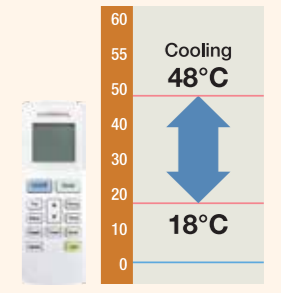
### Blue Fin Condenser



### Compact Design



### Ambient Operating Range



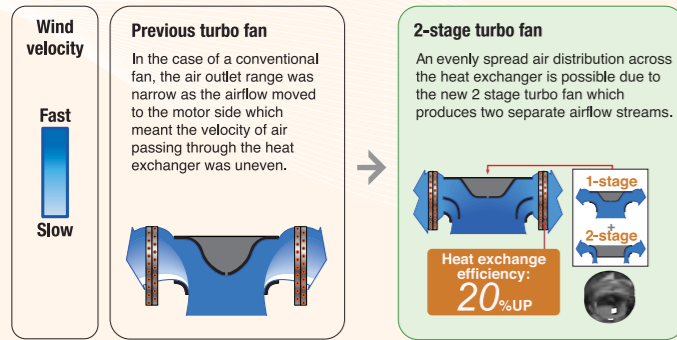
TECHNICAL SPECIFICATIONS	PARAMETERS	UNITS	ASGA12BMWA
	ISEER Star Rating	-	-
Tonnage	TR	-	1.0
Power Supply	Ph-Hz-V	-	1φ-50-230
Running Current	A	-	4.5
Standard Cooling at 100% Capacity	W	-	3,600
Power Consumption at 100% Capacity	W	-	1,010
EER	W/W	-	3.56
Rated ISEER	kWh/kWh	-	3.56
Electricity Consumption per Annum	kWh	-	782
Moisture Removal	l/h	-	1.7
Indoor Airflow Volume-High	m³/h	-	660
Indoor Airflow Distance	m	-	10
Indoor Unit Dimensions HxWxD	mm	-	845x289x209
Indoor Unit Net Weight	kg	-	11
Outdoor Unit Dimensions HxWxD	mm	-	540x848x320
Outdoor Unit Net Weight	kg	-	30
Indoor Noise Level (Quiet)	dB(A)	-	28
Outdoor Noise Level	dB(A)	-	48
Connection Pipe (Gas, Liquid)	inch	-	1/2, 1/4
	mm	-	12.70/6.35
Pipe Length Min~Max (Precharged)	m	-	3~20(7.5)
Max Height Difference	m	-	10
Max Operating Temperature	°C	-	48°C
Refrigerant Type	Non-CFC	-	R32
Compressor Type	-	-	Rotary

\*Specifications, design and features are subject to change without prior notice for further development. The above models conform to energy labelling as per BEE regulation. Specifications are based on the following conditions. Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Pipe length : 5.0 m Voltage : 230 [V]. Piping can be extended to above length for full efficiency with additional charge of gas and above 10mts/15 mts/20mts as per installation manual. The noise level is the value when measured in an anechoic room.

# Eco-Friendly Cassette Air Conditioners

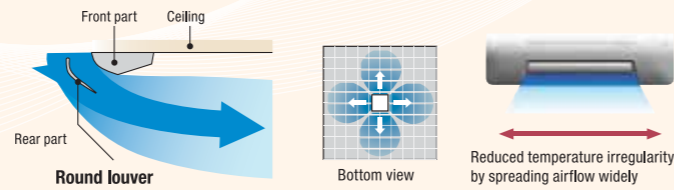
## 2-Stage Turbo Fan

High efficiency design by 2 stage structure



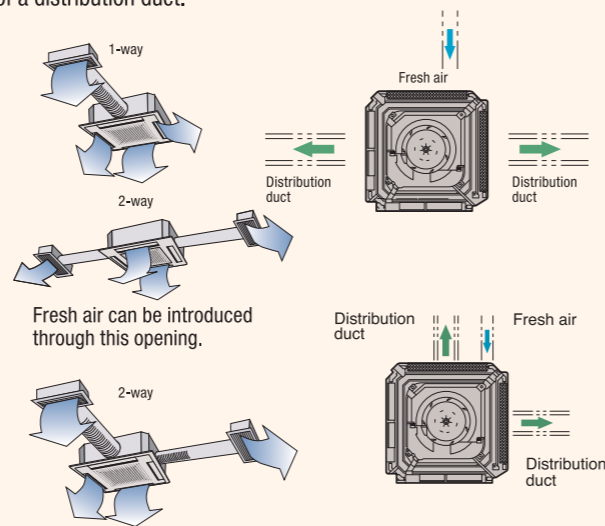
## Improvement of the Airflow Distribution

The new louver design enables an airflow that has no air contact with the ceiling. Airflow is moved through the space between the chassis and the ceiling, allowing far and wide airflow distribution.

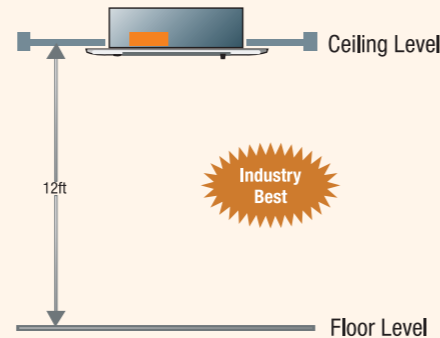


## Duct Connection Hole Opening

Conditioned air can be distributed by means of a distribution duct.

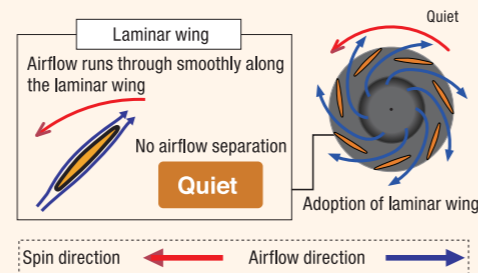


## Suitable for High Ceiling



## Extremely Quiet

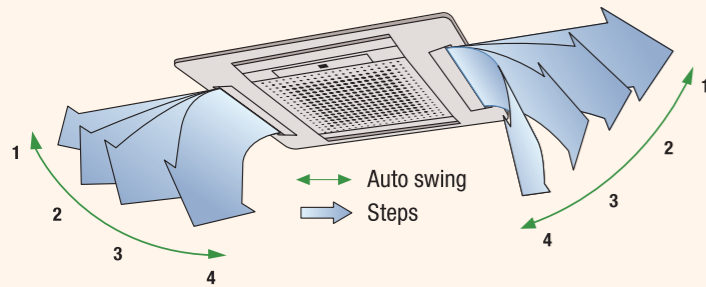
Optimization of wing form (laminar wing type) and wing number (7 blades each) designed by CFD-analysis (fluid) simulations



Large airflow at reduced noise output is achieved by incorporating a large diameter variable pitch turbo fan.

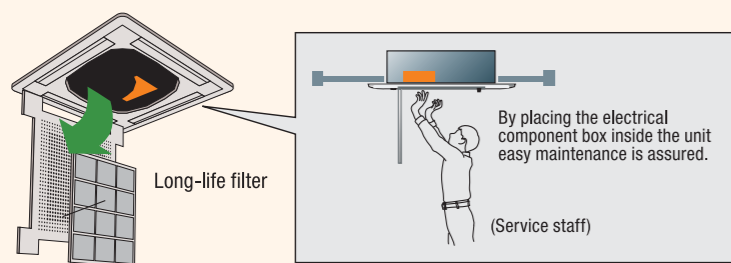
## Comfortable Airflow 4 Step Swing

Auto airflow direction and auto swing ensures that supplied air does not blow over the ceiling.



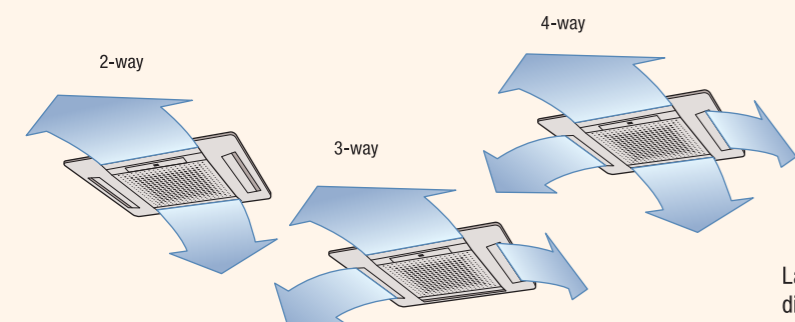
## Easy Maintenance

Detachable, washable filter and intake grille. The control box is easily accessible for maintenance work. Wide opening for easy access.



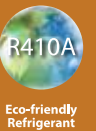
## 2-4 Way Airflow System

Select 2-way, 3-way or 4-way airflow to suit your needs.



# ECO FRIENDLY CASSETTE

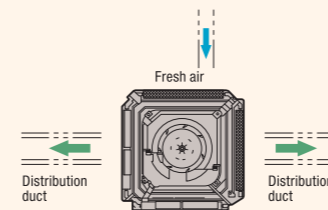
## WIRED REMOTE



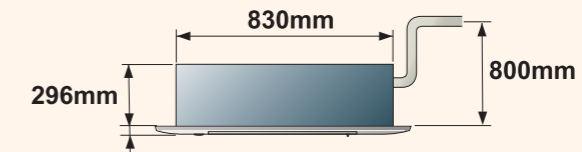
Cooling AUG36FUAS / AUG54FUAS

QUIET OPERATION  
 Connectable distributing duct  
 WEEKLY + SETBACK TIMER  
 SELF DIAGNOSIS  
 PROGRAM TIMER

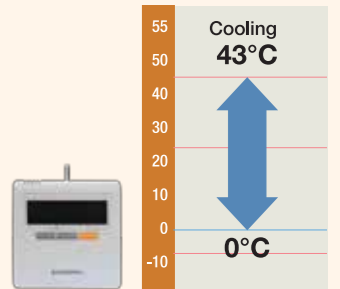
## Fresh Air Intake & Distribution Duct



## High Lift Drain Pump



## Ambient Operating Range



TECHNICAL SPECIFICATIONS	PARAMETERS	UNITS	AUG36FUAS	AUG54FUAS
	Tonnage		TR	3.0
Power Supply		Ph-Hz-V	3φ-50-400	
Running Current		A	6.2	9.5
Standard Cooling at 100% Capacity		W	10,500	14,500
Power Consumption at 100% Capacity		W	3,740	5,160
EER		W/W	2.81	2.81
Moisture Removal		l/h	4.0	6.0
Indoor Airflow Volume-High		m³/h	1,500	1,700
Indoor Unit Dimensions HxWxD		mm	296x830x830	296x830x830
Indoor Unit Net Weight		kg	37	40
Grille Dimensions HxWxD		mm	35x940x940	35x940x940
Outdoor Unit Dimensions HxWxD		mm	1165x900x330	1290x900x330
Outdoor Unit Net Weight		kg	80	114
Connection Pipe (Gas, Liquid)		inch	5/8, 3/8	3/4, 3/8
		mm	15.88/9.53	19.05/9.53
Pipe Length Min~Max (Precharged)		m	3~50 (20)	3~50 (20)
Max Height Difference		m	30	30
Max Operating Temperature		°C	43°C	43°C
Refrigerant Type			R410A	R410A
Compressor Type			Rotary	Scroll

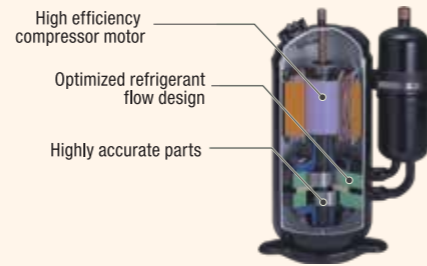
\*Specifications, design and features are subject to change without prior notice for further development. Specifications are based on the following conditions. Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Pipe length : 5.0 m Voltage : 230 [V]. Piping can be extended to above length for full efficiency with additional charge of gas and above 10mts/15 mts/20mts as per installation manual. The noise level is the value when measured in an anechoic room. Standard length of wired remote is 10m, which can be extended upto 500m. Wire spec is 22 AWG (0.33mm2).

# THE MOST POWERFUL OUTDOOR LINE-UP

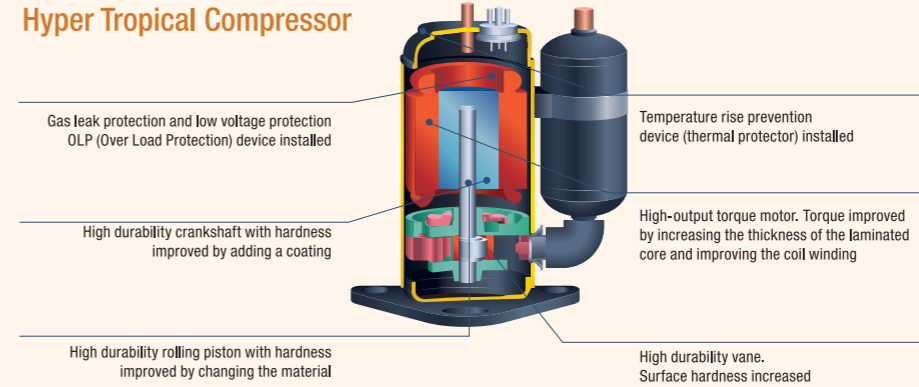
Designed to perform at high ambient temperatures General outdoor units house tropical compressors along with a large condenser coil and a large propeller fan which enable powerful cooling. These units can withstand 1,000 hours of salt spray test, as per procedure ASTM B117.

These outdoor units are built heavier with corrosion-resistant materials to make it long-lasting, sturdier and also quieter at the same time.

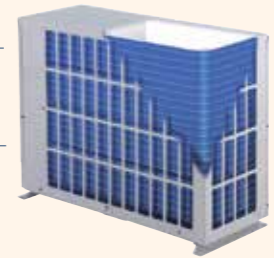
## DC Twin Rotary Compressor



## Hyper Tropical Compressor



## Blue Fin Condenser



Large Outdoor Fan



12BMWA / 12JLCA-B / 12CGTA  
14CGTA / 14CLCA / 18CLCA

18JCC-B / 24JCC-B  
18LFCD-B / 24LFCD-B / 24CLCA-B

18FUTA / 18FUTC  
24FUTC / 18FTTC

30JCC-B / 30LFCE-B / 22FTTC

30FUTC

36FUTC / 36FUAS / 54FUAS

TECHNICAL SPECIFICATIONS	OUTDOOR UNIT LINEUP		PREMIUM SPLIT-COOLING				INVERTER SPLIT-COOLING					INVERTER SPLIT-COOLING				INVERTER SPLIT-HOT & COLD			SPLIT-COOLING			CASSETTE-COOLING	
	PARAMETERS	Units	ASGA18FUTA ASGA18FUTC	ASGA24FUTC	ASGA30FUTC	ASGA36FUTC	ASGG12CGTA	ASGG14CGTA	ASGG14CLCA	ASGG18CLCA	ASGG24CLCA	ASGG12JLCA-B	ASGA18JCC-B	ASGA24JCC-B	ASGA30JCC-B	ASGG18LFCD-B	ASGG24LFCD-B	ASGG30LFCE-B	ASGA12BMWA	ASGA18FTTC	ASGA22FTTC	AUG36FUAS	AUG54FUAS
Tonnage	TR	1.5	2.0	2.5	3.0	1.0	1.2	1.2	1.5	2.0	1.0	1.5	2.0	2.5	1.5	2.0	2.5	1.0	1.5	2.0	3.0	4.0	
Cooling Capacity	W	5,470	7,250	8,180	10,580	3,400	4,200	4,000	5,200	7,100	3,400	5,200	7,000	8,000	5,000	7,100	7,900	3,600	5,300	6,500	10,500	14,500	
Condenser Type	-	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper
No. of Condenser Coil Rows	-	1	2	3	3	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2
Compressor Insulation Jacket	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Outdoor Unit Fan Diameter	mm	440	440	560	450 x 2	400	400	400	400	440	400	440	440	440	415	415	440	395	440	440	440 x 2	440 x 2	
Condenser Protection Grill	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Corrosion Resistant Body	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Outdoor Unit Dimensions (HxWxD)	mm	650x830x320	650x830x320	914x970x370	1290x900x330	542x799x290	542x799x290	541x663x290	542x799x290	632x799x290	535x663x293	620x790x298	620x790x298	830x900x330	620x790x290	620x790x290	830x900x330	540x848x320	650x830x320	830x900x330	1165x900x330	1290x900x330	
Outdoor Unit Net Weight	kg	47	52	77	104	31	32	25	31	38	26	40	40	58	45	45	61	30	51	63	80	114	
Outdoor Unit Air Circulation	m <sup>3</sup> /h	3,320	3,070	4,400	5,900	1,680	1,680	1,805	1,830	2,885	1,850	2,070	2,640	3,600	Cooling: 2,150 Heating: 2,070	Cooling: 2,460 Heating: 2,340	Cooling: 3,600 Heating: 3,500	1,800	3,200	3,300	7,000	6,300	
Outdoor Unit Noise Level	dB(A)	53	55	54	56	50	50	51	53	55	52	50	56	53	50	55	53	48	54	54	54	54	
Pipe Length Min~Max (Precharged)	m	3~20(7.5)	3~20(7.5)	3~30(7.5)	3~50(20)	3~20(7.5)	3~20(7.5)	3~20(15)	3~20(15)	3~30(15)	3~15(10)	3~30(15)	3~30(15)	3~30(20)	3~25(15)	3~30(15)	3~50(20)	3~20(7.5)	3~20(7.5)	3~20(7.5)	3~50(20)	3~50(20)	
Max Height Difference	m	8	8	15	30	15	15	15	15	25	10	20	20	20	20	20	30	10	8	8	30	30	
Max Operating Temperature	°C	52°C	52°C	52°C	52°C	52°C	52°C	52°C	52°C	52°C	46°C	46°C	46°C	46°C	46°C	46°C	46°C	48°C	52°C	52°C	43°C	43°C	
Refrigerant Type	-	R410A	R410A	R410A	R410A	R32	R32	R32	R32	R32	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R32	R410A	R410A	R410A	R410A	
Precharged Refrigerant	g	1,200	1,600	2,450	3,500	850	850	630	850	1,100	750	1,200	1,300	2,000	1,200	1,800	2,100	640	1,400	1,800	2,000	3,300	
Additional Refrigerant per Metre	g/m	20	20	20	40	20	20	20	20	20	20	20	20	40	20	20	40	12	20	20	30	40	
Blue Fin Condenser	-	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	
Compressor Type	-	Hyper Tropical Rotary	Hyper Tropical Rotary	Hyper Tropical Scroll	Hyper Tropical Scroll	Hyper Tropical Rotary	Hyper Tropical Rotary	Hyper Tropical Rotary	Hyper Tropical Twin Rotary	Hyper Tropical Twin Rotary	Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Rotary	Hyper Tropical Rotary	Hyper Tropical Rotary	Rotary	Scroll	

# ECO-FRIENDLY WINDOW

## COMPACT DESIGN



Cooling AKGB09FAWA



Cooling AMGB12FAWA



- FRESH AIR INTAKE
- QUIET OPERATION
- CATECHIN FILTER
- BLUE FIN CONDENSER
- AUTO RESTART

### Strong Power

The efficiency-improved compressor or heat exchanger quickly changes your room into a comfortable environment. Pursuit of optimum comfort through innovative "Powerful" operation.

### Quiet Operation

Quiet operation is enabled even while the fan is working on high mode. "Quiet" operation enables comfortable sleep.

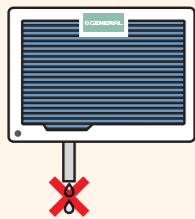
### Catechin Filter

The Catechin Filter filtrates pollen and dust particles to keep air fresh.



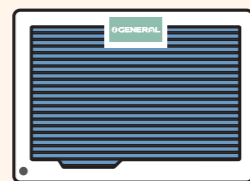
### Non-Drip Design

Non-drip design No drain piping work is necessary (in humid location or operate for an extended period may require to install a Drain boat for better drainage).



### Blue Condenser Fins

The blue coating on the aluminum fins provides improved anti-rust performance.



### Wide Airflow

The louver automatically swings to right and left. "Wide airflow". Gives you a comfortable and satisfactory environment.



PARAMETERS	UNITS	AKGB09FAWA	AMGB12FAWA
ISEER Star Rating	-	2	4
Tonnage	TR	0.75	1.1
Power Supply	Ph-Hz-V	1φ-50-230	
Running Current	A	4.1	5.1
Standard Cooling at 100% Capacity	W	2,500	3,800
Power Consumption at 100% Capacity	W	887	1,155
EER	W/W	2.82	3.29
Rated ISEER	kWh/kWh	2.82	3.29
Electricity Consumption per Annum	kWh	687	878
Moisture Removal	l/h	1.0	1.15
Airflow Volume-High	m³/h	350	650
Unit Dimensions HxWxD	mm	350x450x580	428x660x700
Unit Net Weight	kg	34	50
Indoor Noise Level (Quiet)	dB(A)	46	48
Outdoor Noise Level	dB(A)	52	55
Max Operating Temperature	°C	46°C	46°C
Refrigerant Type	Non-CFC	R410A	R410A
Compressor Type	-	Rotary	Rotary

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# HYPER TROPICAL WINDOW

## EXTREME COOLING | EXTREME AIRFLOW

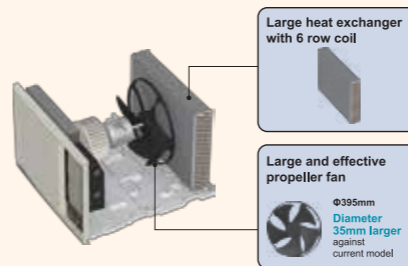


Cooling AXGT18FHTC / AXGT24FHTC



- SUPER WAVE TECHNOLOGY
- REAR CABINET PROTECTION
- 6 ROW COIL (24FHTA/B)
- MILDEW RESISTANT FILTER
- AUTO RESTART

### Advanced Technology



### Super Power / Super Wave

Long louver provides wide airflow

◀ New, long louver



Wide airflow

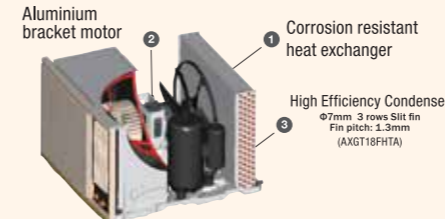
### Rear Cabinet Protection

The only AC with a backside cover for additional protection to heat exchanger from sun and sand.



### High Reliability

Adapting super protection against dust and corrosion.



### Fujitsu Fan Motor

Efficient, state-of-the-art Fujitsu-Japan fan motor with BSS sealing, CRS ball bearing and aluminum fin.



### Mildew Resistant Filter

Prevents mold formation



PARAMETERS	UNITS	AXGT18FHTC	AXGT24FHTC
ISEER Star Rating	-	3	3
Tonnage	TR	1.5	2.0
Power Supply	Ph-Hz-V	1φ-50-230	
Running Current	A	8.2	9.9
Standard Cooling at 100% Capacity	W	5,370	6,450
Power Consumption at 100% Capacity	W	1,800	2,220
EER	W/W	2.98	2.91
Rated ISEER	kWh/kWh	2.98	2.91
Electricity Consumption per Annum	kWh	1,394	1,719
Moisture Removal	l/h	2.0	2.0
Airflow Volume-High	m³/h	940	990
Unit Dimensions HxWxD	mm	455x670x710	455x670x710
Unit Net Weight	kg	56	62
Indoor Noise Level (Quiet)	dB(A)	51	53
Outdoor Noise Level	dB(A)	56	59
Max Operating Temperature	°C	55°C	55°C
Refrigerant Type	Non-CFC	R410A	R410A
Compressor Type	-	Advanced Hyper Tropical Rotary	Advanced Hyper Tropical Rotary

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# Feature Explanation



**Up / down swing flaps**  
The up/down flaps automatically swing up and down.



**Left / Right swing flaps**  
The left / right flaps automatically swing left and right.



**Double swing automatic - 3D**  
Complex swing action of flaps enables automatic swing in both horizontal and vertical directions, which enables 30 unique configurations



**Automatic airflow adjustment**  
The micro-computer automatically adjusts the airflow effectively to follow the changes in room temperature.



**Auto restart**  
In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once the power supply is restored.



**Auto-Changeover**  
The unit automatically switches between heating and cooling modes based on the temperature setting and the room temperature



**10°C HEAT operation**  
The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.



**Fresh air intake**  
Fresh air can be taken in by a fan which can be connected using an external control unit.



**Economy mode**  
Limits the maximum operation current, and performs operations with the power consumption suppressed.



**Powerful mode**  
Operates at maximum airflow and compressor speed to quickly make the room comfortable.



**Sleep timer**  
The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.



**Program timer**  
This digital timer allows selection of one of four options: ON, OFF, ON→OFF or OFF→ON.



**Long pipe**  
Easy and extended location of indoor unit to outdoor unit with full efficiency.



**Removable and washable panel**  
Easy removal and cleaning of the flat front panel of the IDU.



**Weekly + Setback timer**  
Weekly + Setback timer can set temperature for two time spans and for each day of the week.



**V-PAM control**  
V-PAM inverter control reduces the effects of magnetic flux and increases the maximum speed and efficiency of the compressor by vector control technology.



**Connectable distributing duct**  
Can make extension of supply air.



**Compressor insulation blanket**  
Sound insulation blanket and rubber mounting on compressor, reduces the noise.



**Weekly timer**  
Different ON-OFF times can be set for each day.



**Rear cabinet protection**  
To protect the coil from damages due to sun and sand.



**Mildew resistant filter**  
Prevents mold formation.



**Power diffuser**  
An additional louver that opens based on monitoring sensors to quickly enhance immediate comfort needs.



**Apple-catechin filter**  
The Apple-catechin filter uses static electricity to clean fine particles and dust in the air.



**5 Speed Control**  
Provides airflow control in 5 steps from powerful to quiet operation.



**6 Speed Control**  
Provides airflow control in 6 steps from powerful to quiet operation.



**Connectable Fresh Air Duct**



**Super Wave Technology**  
The unique design of the vertical louvers in front will enable the air sweep at wider angle for better distribution.



**Blue Fin Condenser**  
Adoption of strong blue fin hydrophilic coated heat exchanger provides protection against rust and salt damage.



**Power airflow dual flaps**  
Can flatten out during cooling operation to deliver cool air to the corners of the room.



**Wide angle louvers**  
The smoothly curved wide angle louvers provide wide airflow coverage for effective cooling independent of indoor unit placement in room.



**Dry function**  
Automatically reduces the level of humidity and maintains the preset temperature.



**Quiet operation**  
High efficiency fan construction and large independently driven diffuser ensures quiet operation.



**Corrosion resistant ODU**  
The outdoor unit's heat exchanger fins are processed with special coating to avoid salt and acid corrosion.



**5 Year warranty on compressors**  
For Inverter split and split type air conditioners upto 3.0TR



**3 Year warranty on compressors**  
For Cassette type air conditioners - 3.0 / 4.0TR



**Powder coated outdoor unit**  
Powder coated body ensures extra protection from corrosion.



**Inner groove copper tube**  
IGT copper tube heat exchanger ensures better performance.



**BLDC motor indoor unit**  
Specially designed BLDC motor for smooth & energy efficient operation.



**Wireless remote controller**  
For ease of operation.



**Wired remote controller**  
Programmable wired remote, for ease of operation in busy commercial spaces.



**Coanda Airflow technology**  
Cold air is discharged along the ceiling and is delivered far away for long reach and comfortable cooling and to avoid direct air blast on body.



**Hyper tropical spec**  
Tropical design for high ambient operation upto 52°C.



**Tropical spec**  
Tropical design for high ambient operation upto 46°C/48°C.



**Advanced Hyper tropical spec**  
Tropical design for high ambient operation upto 55°C.



**Energy saving mode**  
This mode raises the set temperature slightly in the cooling mode and lowers the set temperature in the heating mode to economically control the operation of the unit.



**i-PAM control**  
i-PAM inverter control is a technology which reduces loss by adjusting the current waveform to a better sine waveform.



**Dual suction intake design**  
Warm air is sucked in through dual intakes enabling larger volume of air to be cooled for fast and effective cooling



**Ion deodorization filter**  
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.



**Auto Moisture Prevent**  
During Cooling and Dry modes if the vertical air direction louvers are operated outside their proper operating range of (1) - (3) for more than 20 minutes, they will automatically return to the (3) level in order to prevent moisture condensation and water dropping from the air outlet. This can be disabled by following simple steps as mentioned in the operation manual.



**Human sensor**  
Human sensor detects movement of people in the room and judges whether energy saving operation is required or not.



**6 Row Coil**  
Enables faster and efficient cooling.



**Filter sign**  
Indicates the filter cleaning period by lamp.



**Self Diagnosis**  
Enables automatic detection of errors in the unit for easy trouble shooting.



**Washable panel**  
Since the front panel is easy to remove, maintenance is also easy.



**Powerful mode**



**BLDC motor indoor unit**



**Inner groove copper tube**



**Dual suction intake design**



**Self Diagnosis**



**Operating voltage range**



**Tropical Spec**

# Feature Summary

Features	SPLIT - COOLING			INVERTER - HOT & COLD	INVERTER - COOLING				CASSETTE - COOLING
	ASGA18FUTA ASGA18FUTC ASGA24FUTC ASGA30FUTC ASGA36FUTC	ASGA18FTTC ASGA22FTTC	ASGA12BMWA	ASGG18LFCB-B ASGG24LFCB-B ASGG30LFCB-B	ASGG12JLCA-B	ASGG12CGTA ASGG14CGTA	ASGG14CLCA ASGG18CLCA ASGG24CLCA	ASGA18JCC-B ASGA24JCC-B ASGA30JCC-B	AUG36FUAS AUG54FUAS
Up / down swing flaps	○	○	○	○	○	○	○	○	○
Left / Right swing flaps	○	○	-	-	-	-	-	-	-
Double swing automatic - 3D	○	○	-	○	-	-	-	○	-
Power airflow dual flaps	○	Single	Single	○	○	Single	○	○	-
Wide angle louvers	○	○	○	○	○	○	○	○	-
Power diffuser	-	○	-	○	-	-	-	○	-
Automatic airflow adjustment	○	○	○	○	○	○	○	○	○
10°C Heat operation	-	-	-	○	-	-	-	-	-
Compressor insulation blanket	○	○	○	○	○	○	○	○	○
Quiet operation	○	○	○	○	○	○	○	○	○
Dry Function	○	○	○	○	○	○	○	○	○
Auto-changeover	-	-	-	○	-	-	-	-	-
Auto-Moisture Prevention	-	○	-	○	○	-	-	○	-
Connectable distributing duct	-	-	-	-	-	-	-	-	○
Connectable fresh air duct	-	-	-	-	-	-	-	-	○
Energy saving mode	-	-	-	-	-	-	-	-	○
V-PAM control models	-	-	-	○ (24)	-	○	○	○ (18/30)	-
i-PAM control models	-	-	-	○ (18/30)	○	-	-	○ (24)	-
Coanda Airflow	○ 18m/20m/25m/25m	○ 15m	○ 10m	○ 15m	○ 10m	○ 10m	○ 10m/15m/15m	○ 15m	-
Mildew Resistant Filter	○	○	○	○	○	○	○	○	○
Ion deodorization filter	-	-	-	○	-	-	-	○	-
Apple-catechin filter	-	-	-	○	-	-	-	○	-
Fan Speed Control	6	5	5	4	5	5	5	4	4
Washable panel	-	○	○	○	○	-	○	○	○
Sleep timer	○	○	○	○	○	○	○	○	-
Human sensor	-	-	-	-	-	○	-	-	-
Economy mode	-	-	-	○	○	○	○	○	-
Filter sign	-	-	-	○	○	-	-	-	-
Wireless remote controller	○	○	○	○	○	○	○	○	-
Wired remote controller	-	-	-	-	-	-	-	-	○
Auto restart	○	○	○	○	○	○	○	○	○
Long pipe	○	○	-	○	-	-	-	○	○
Program timer	○	○	-	○	○	○	○	○	○
Weekly timer	-	-	-	-	-	○	-	-	-
Weekly + setback timer	-	-	-	-	-	-	-	-	○
Anti-corrosion treatment for ODU and heat exchanger fins	○	○	○	○	○	○	○	○	○
Powder coated outdoor unit	○	○	○	○	○	○	○	○	○
Blue Fin Condenser	○	-	○	○ (30)	-	-	-	-	-
Years of warranty on compressors	5	5	5	5	5	5	5	5	3
Powerful mode	○	○	○	-	○	○	○	-	-
BLDC motor indoor unit	-	-	-	○	○	○	○	○	-
Inner groove copper tube	○	○	○	○	○	○	○	○	○
Dual suction intake design	○	-	-	-	-	-	-	-	-
Self Diagnosis	○	○	○	○	○	○	○	○	○
Operating voltage range	198V~264V	198V~264V	185V~264V	198V~264V	198V~264V	155V~265V	155V~265V	198V~264V	198V~264V
Tropical Spec	52°C	52°C	48°C	46°C	46°C	52°C	52°C	46°C	43°C

# Feature Summary

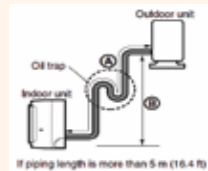
Features	AKGB09FAWA	AMGB12FAWA	AXGT18FHTC	AXGT24FHTC
Automatic airflow adjustment	○	○	○	○
Super Wave Technology	-	-	○	○
Left / Right swing flaps	○	○	○	○
Powerful mode	-	-	○	○
Fresh air intake	○	○	-	-
Wireless remote controller	○	○	○	○
Auto restart	○	○	○	○
Advanced Hyper tropical rotary compressor	-	-	○	○
Quiet operation	○	○	○	○
Washable panel	○	○	○	○
Compressor insulation blanket	-	-	○	○
Rear cabinet protection	-	-	○	○
Mildew Resistant Filter	○	○	○	○
Catechin filter	○	○	-	-
Sleep timer	○	○	○	○
5 Year warranty on compressors	○	○	○	○
Number of Rows of Condenser Coil	3	2	5	6
Anti-Corrosion treatment for outer body and heat exchanger fins	○	○	○	○
Blue Fin Condenser	○	○	-	-
Operating voltage range	193V~253V	193V~253V	198V~253V	198V~253V
Tropical Spec	46°C	46°C	55°C	55°C

## INVERTER AIRCONDITIONER - INSTALLATION CHECK POINTS

Unit Capacity	1.0-Ton	1.0-Ton	1.2-Ton	1.2-Ton	1.5-Ton	1.5-Ton	2.0-Ton	2.0-Ton	2.5-Ton	1.5-Ton	2.0-Ton	2.0-Ton
<b>Model No.</b>	ASGG12JLCA-B	ASGG12CGTA	ASGG14CGTA	ASGG14CLCA	ASGG18CLCA	ASGA18JCC-B	ASGG24CLCA	ASGA24JCC-B	ASGA30JCC-B	ASGG18LFCB-B	ASGG24LFCB-B	ASGG30LFCB-B
Main wiring size	2.5 Sq. mm	2.5 Sq. mm	2.5 Sq. mm	2.5 Sq. mm	4 Sq. mm	4 Sq. mm	4 Sq. mm	4 Sq. mm	4 Sq. mm	4 Sq. mm	4 Sq. mm	4 Sq. mm
Main Power Supply at	OUTDOOR UNIT											
Main power Source P & N	230 Volts / 1 Phase											
Proper earthing	Mandatory											
Main power N & E	± 3 Volts											
Maximum Current-Amps (Cooling/Heating)	7.0 Amps	6.5 Amps	9.0 Amps	5.3 Amps	9.0 Amps	9.0 Amps	13.5 Amps	11.5 Amps	16.5 Amps	9/12.5Amps	13.5/18.5Amps	17.0/19.0Amps
Connection cord (mm2)	1.5 Sq. mm	1.5 Sq. mm	1.5 Sq. mm	1.5 Sq. mm	1.5 Sq. mm	1.5 Sq. mm	2.5 Sq. mm	2.5 Sq. mm	2.5 Sq. mm	1.5 Sq. mm	2.5 Sq. mm	2.5 Sq. mm
No of core ODU to IDU	4 Core wire											
Type of Gas	R410A	R32	R32	R32	R32	R410A	R32	R410A	R410A	R410A	R410A	R410A
Copper Pipe Thickness	0.8 mm	0.8 mm	0.8 mm	0.8 mm	0.8 mm	0.8 mm	0.8 mm	0.8 mm	0.8 mm	0.8 mm	0.8 mm	0.8 mm
Pipe size-Liquid (Inch)/mm	1/4" (6.35 mm)	1/4" (6.35 mm)	1/4" (6.35 mm)	1/4" (6.35 mm)	1/4" (6.35 mm)	1/4" (6.35 mm)	1/4" (6.35 mm)	1/4" (6.35 mm)	1/4" (6.35 mm)	3/8" (9.52 mm)	1/4" (6.35 mm)	3/8" (9.52 mm)
Pipe size-Suction (Inch)/mm	3/8" (9.52 mm)	3/8" (9.52 mm)	3/8" (9.52 mm)	3/8" (9.52 mm)	3/8" (9.52 mm)	1/2" (12.7 mm)	1/2" (12.7 mm)	5/8" (15.88 mm)	5/8" (15.88 mm)	1/2" (12.7 mm)	5/8" (15.88 mm)	5/8" (15.88 mm)
<b>Never Use The Old Installation Pipe For New System.</b>												
Minimum Pipe Length	3 m											
Max Pipe Length (A+B)	15 m	20 m	20 m	20 m	20 m	30 m	30 m	30 m	30 m	25 m	30 m	50 m
Maximum Height (B)	10 m	15 m	15 m	15 m	15 m	20 m	25 m	20 m	20 m	20 m	20 m	30 m
Pre-Charged Refrigerant (R410a)	750 gms	850 gms	850 gms	630 gms	850 gms	1200 gms	1100 gms	1300 gms	2000 gms	1200 gms	1800 gms	2100 gms
Standard Refrigerant Pre-Charged	10 m	7.5 m	7.5 m	15 m	15 m	15 m	15 m	15 m	20 m	15 m	15 m	20 m
Additional Charge	20 gms/m	20 gms/m	20 gms/m	20 gms/m	20 gms/m	20 gms/m	20 gms/m	20 gms/m	40 gms/m	20 gms/m	20 gms/m	40 gms/m
<p>For long pipe length, use single pipe or connector and flaring connection, don't braze the copper tube (Brazing oxidation can clog unit expansion valve.).</p>												
<p>Use Torque wrench for tightening flare-nuts.</p>												

### DOs and DON'Ts

- Working pressure of R410A is 1.6 Times higher than R22. Hence follow the safety norms while working with R410A refrigerant.
- Always read the Installation sheet before starting the installation work (that come with the unit).
- Use exclusive refrigeration tools for R410A Gas charging. No mix up of R22 Refrigerant tools.
- Avoid direct sun radiation on ODU and locate it in a shaded area always for better performance.
- Never use the Old Copper pipes for the new system. Always use single length copper pipes between ODU & IDU.
- Use only the prescribed Flare nuts suitable for R410A.
- Don't use Teflon Tape in flare threads.



## SPLIT AIRCONDITIONER - INSTALLATION CHECK POINTS

Unit Capacity	1.0-Ton	1.5-Ton	2.0-Ton	1.5-Ton	1.5-Ton	2.0-Ton	2.5-Ton	3.0-Ton	
<b>Unit detail</b>	Indoor model	ASGA12BMWA	ASGA18FTTC	ASGA22FTTC	ASGA18FUTA	ASGA18FUTC	ASGA24FUTC	ASGA30FUTC	ASGA36FUTC
	Outdoor model	AOGR12BMWA	AOGA18FTTC	AOGA22FTTC	AOGA18FUTA	AOGA18FUTC	AOGA24FUTC	ASGA30FUTC	ASGA36FUTC
<b>Check for Main power supply</b>	Main wiring size	2.5 Sq. mm	4 Sq. mm	4 Sq. mm	4 Sq. mm	4 Sq. mm	4 Sq. mm	4 Sq. mm	4 Sq. mm
	Main Power Supply at	OUTDOOR UNIT							
	Main power Source P & N	230 Volts / 1 Phase							
	Proper earthing	Mandatory							
	Main power N & E	± 3 Volts							
<b>ODU to IDU Wiring</b>	Maximum Current-Amps	10.0 Amps	12.5 Amps	15.9 Amps	10.0 Amps	10.0 Amps	14.0 Amps	17.0 Amps	24.0 Amps
	Connection cord (mm2)	1.5 Sq. mm	1.5 Sq. mm	2.5 Sq. mm	1.5 Sq. mm	1.5 Sq. mm	2.5 Sq. mm	2.5 Sq. mm	2.5 Sq. mm
	No of core ODU to IDU	4 Core wire							
<b>Piping size &amp; Thickness</b>	Type of Gas	R32	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Copper Pipe Thickness	0.8 mm	Liq 0.8mm/Gas 1mm	Liq 0.8mm/Gas 1mm	Liq 0.8mm/Gas 1mm	Liq 0.8mm/Gas 1mm	Liq 0.8mm/Gas 1mm	Liq 0.8mm/Gas 1mm	Liq 0.8mm/Gas 1mm
	Pipe size-Liquid (Inch)/mm	1/4" (6.35 mm)	1/4" (6.35 mm)	1/4" (6.35 mm)	1/4" (6.35mm)	1/4" (6.35mm)	1/4" (6.35mm)	3/8" (9.52 mm)	3/8" (9.52 mm)
	Pipe size-Suction (Inch)/mm	1/2" (12.7 mm)	5/8" (15.88 mm)	5/8" (15.88 mm)	5/8" (15.88 mm)	5/8" (15.88 mm)	5/8" (15.88 mm)	5/8" (15.88 mm)	5/8" (15.88 mm)
<b>Never Use The Old Installation Pipe For New System.</b>									
<b>Pipe limitation &amp; Additional Ref charge</b>	Minimum Pipe Length	3m							
	MAX Pipe Length (A+B)	20m	20m	20m	20m	20m	20m	30m	50m
	Maximum Height (B)	10m	8m	8m	8m	8m	8m	15m	30m
	Pre-Charged Refrigerant	640 gms	1400 gms	1800 gms	1200 gms	1200 gms	1600 gms	2450 gms	3500gms
	Standard Refrigerant Pre-Charged for	7.5m	7.5m	7.5m	7.5m	7.5m	7.5m	7.5m	20m
	Additional Charge	12 gms/m	20 gms/m	20 gms/m	20 gms/m	20 gms/m	20 gms/m	20 gms/m	40 gms/m
<p>For long pipe length, use single pipe or connector and flaring connection, do not braze the copper tube (Brazing oxidation can clog unit expansion valve).</p>									
<p>Use Torque wrench for tightening flare-nuts.</p>									

### Certifications

#### ISO

ISO14001 is the standard defined by the International Organization for Standardization (ISO) related to environmental management systems. Fujitsu General America, Inc. has been acknowledged by an internationally accredited compliance organization as having an appropriate program of environmental protection procedures and activities to meet the requirements of ISO14001. The air conditioners manufactured by Fujitsu have received ISO9001 series certification for quality assurance.



#### ASTM

Our outdoor units shall withstand 1,000 hours of salt spray tested as per procedure ASTM B117.

#### RoHS Compliant

Fujitsu participates in the RoHS Directive, which is the Restriction of Hazardous Substances in electrical and electronic equipment. It is an EU directive intended to protect the environment by forcing manufacturers to eliminate or severely curtail the use of cadmium, hexavalent chromium, and lead in all products from automobiles to consumer electronics.



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