

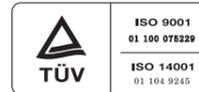


Split Air Conditioner
**Nordic
Collection**



FUJITSU GENERAL LIMITED

Fujitsu General (Thailand) Co., Ltd.



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Fujitsu General (Shanghai) Co., Ltd.



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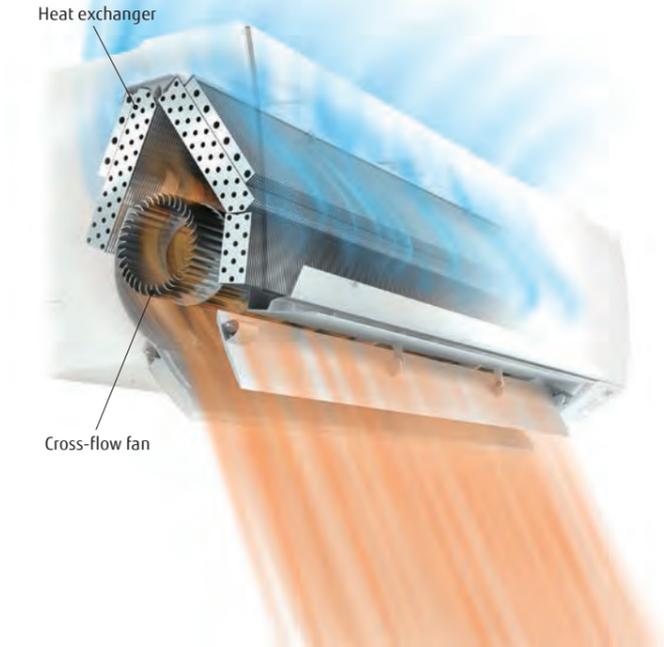
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3EFNE6-2203E

Fujitsu General's Air Conditioners Designed for Nordic Performance

Fujitsu General's air conditioner has been designed to handle the frigid Nordic spec. The outdoor unit has a built-in heater to keep it from freezing during the freezing cold mid-winter season. The air conditioner uses highly cold resistant components designed to prevent freezing to provide comfortable heating even when the temperatures fall to -25°C . In addition, the high-performance DC twin rotary compressors, large heat exchanger, and Fujitsu General's proprietary PAM inverter control provide high heating capability even during low outdoor temperatures.



Nordic Technology



Powerful Heating High Efficiency Heat Exchanger

Powerful heating capacity even during low ambient temperature
Heating capacity at low ambient temperatures is greatly enhanced due to large heat exchanger volume and large cross-flow fan on indoor unit.

Keeps rated heating capacity even at -15°C outdoor temperature. (All models*)

*Except KMCB model

Anti-freezing Design High Performance Outdoor Unit

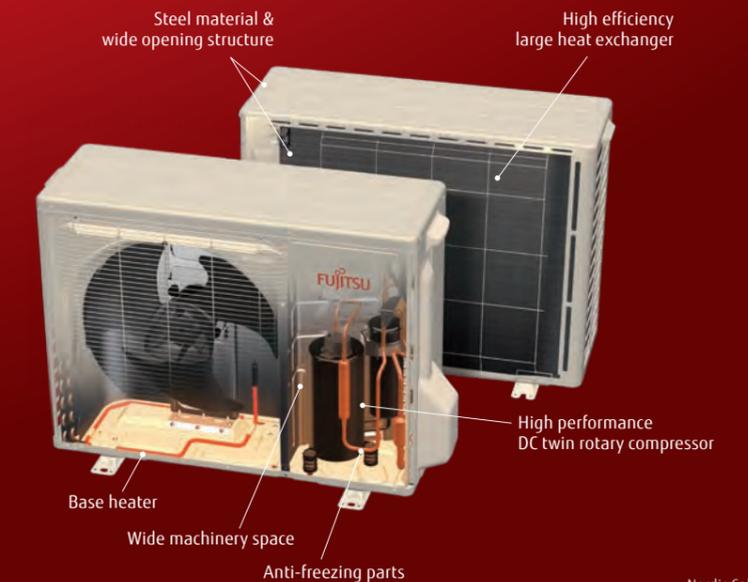
Anti-freezing

- Steel material & wide opening structure: Avoid freezing easily
- Wide machinery space: Preventing the contact of each part even when freezing
- Base heater: Enough capacity of the heater and its best layout
- Anti-freezing parts: Wire and electronic parts under low ambient temperature correspondence

High performance

- High efficiency large heat exchanger
- High performance DC twin rotary compressor

Corresponds to heating operation at -25°C outdoor air temperature. (All models)



Nordic Collection

Features Outline

Powerful heating capacity even during low ambient temperatures

Features for comfort and convenience to provide a pleasant lifestyle

Efficient operating system provides high energy saving performance

R32 refrigerant is highly environmentally friendly for the reduction of the global warming potential than other refrigerant.

*KH Series, KM Series

Series	Wall Mounted			Compact Floor
	KH Series Hi-grade range series 9/12/14 class 	KM Series (KMCDN) Standard range series 9/12/14 class 	KM Series (KMCB) Standard range series 9/12/14 class 	KV Series Standard range series 9/12/14 class 
				
	Combining high energy saving and strong heating for foot zone.	Aesthetic exterior with strong heating performance.	Superior in the heating for foot zone with standard functions.	Compact body and strong heating for foot zone with standard functions.
Comfort	Powerful Heating at -15°C	Powerful Heating at -15°C	Powerful Heating at -15°C	Powerful Heating at -15°C
	Power Diffuser		Power Diffuser	2-way Airflow
	Double Swing Automatic			
Energy Saving	Save Human Sensor			
Nordic Spec.	Anti-freezing Design	Anti-freezing Design	Anti-freezing Design	Anti-freezing Design
Refrigerant	R32	R32	R32	R32



KH

Series

Hi-grade range series



Wall Mounted

ASYG09KHCA 9 class
 ASYG12KHCA 12 class
 ASYG14KHCA 14 class

Optional parts

Wireless LAN Interface*: UTY-TFNXZ1
 Wired Remote Controller*: UTY-RVNYM, UTY-RNNYM
 Simple Remote Controller: UTY-RSNYM
 Communication kit: UTY-TWBXF1
 External Connect Kit: UTY-XWZXZ5

*The communication kit (UTY-TWBXF1) is necessary separately.



Wireless R.C.



For ASYG09/12/14KHCA

Combining high energy saving and strong heating for foot zone.

High heating capacity till -15°C ambient!

Heating capacity at low ambient temperatures is greatly enhanced due to large heat exchanger volume and large cross-flow fan on indoor unit.

Max. Heating Capacity **7.2 kW Powerful heating!**
 *9 class, 138% of KMCB model's



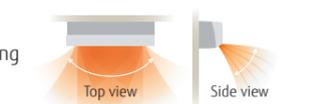
Comfort

Power diffuser

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

Double swing automatic

Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.



Powerful mode

Operation at maximum airflow and compressor speed, and quickly makes the room comfortable.

High energy saving

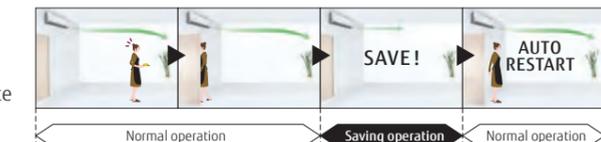
Achieved top rank A+++ seasonal efficiency

New KH models of 9 class achieved top rank A+++ seasonal efficiency for both heating and cooling. Fujitsu General advanced inverter technology and high performance components provide high efficiency and low energy consumption.

9 class **A+++** **SCOP: 5.21** 9 class **A+++** **SEER: 9.36**

Save human sensor control

Human sensor catches movement of people presence in a room. Operation adjust to reduce waste and save energy.



NEW

KM

Series

Standard range series



Wall Mounted

- ASYG09KMCDN 9 class
- ASYG12KMCDN 12 class
- ASYG14KMCDN 14 class

Optional parts

- Wired Remote Controller: UTY-RNRYZ3, UTY-RLRY
- Simple Remote Controller: UTY-RSRY, UTY-RHRY
- Communication Kit: UTY-TWRXZ2
- External input and output PCB*: UTY-XCSXZ2
- External Switch Controller: UTY-TERX
- Network Converter for single split (DC power supply type): UTY-VTGX
- Network Converter for single split (AC power supply type): UTY-VTGXV
- KNX® Converter*: UTY-VKSX
- MODBUS® Converter*: UTY-VMSX
- External connect kit*: UTY-XWZXZ5

*: These options can be used only when the wireless LAN interface is removed.



Wireless R.C.



For ASYG09KMCDN



For ASYG12KMCDN



For ASYG14KMCDN

Aesthetic exterior with strong heating performance.

High heating capacity till -15°C ambient!

Heating capacity at low ambient temperatures is greatly enhanced due to large heat exchanger volume and large cross-flow fan on indoor unit.

Slim & stylish square design

Slim and stylish square design is realized by high density multipath heat exchanger and high efficiency wind blower.



Comfort

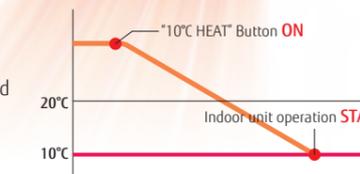
Weekly timer

Weekly timer can be easily set by wireless remote controller. ON, OFF of the system can be set up to 4 times per day and up to 28 times per week.



10°C heat mode operation

When you leave, minimum heating operation is performed to maintain the room temperature.



Smart device control

By integrated wireless LAN interface, this model can be controlled even if you are not home.



High energy saving

Achieved top rank seasonal efficiency

New KM models achieved top rank seasonal efficiency. Fujitsu General advanced inverter technology and high performance components provide high efficiency and low energy consumption.

All classes **A++** **SCOP: 4.60**



KM

Series

Standard range series



Wall Mounted

- ASYG09KMCB 9 class
- ASYG12KMCB 12 class
- ASYG14KMCB 14 class

Optional parts

- Wireless LAN Interface*: UTY-TFNXZ1
- Wired Remote Controller*: UTY-RVNYM, UTY-RNNYM
- Simple Remote Controller: UTY-RSNYM
- Communication Kit: UTY-XCBXZ2
- External Connect Kit: UTY-XWZXZ5

*The communication kit (UTY-XCBXZ2) is necessary separately.



Wireless R.C. For ASYG09/12/14KMCB



Superior in the heating for foot zone with standard functions.

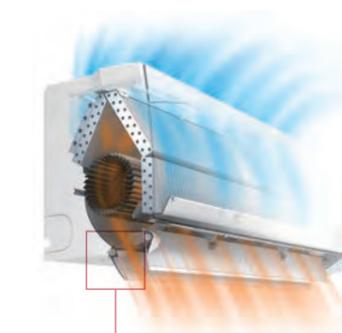
High heating capacity till -7°C ambient!

Heating capacity at low ambient temperatures is greatly enhanced due to large heat exchanger volume and large cross-flow fan on indoor unit.

Comfort

Power diffuser

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



Power diffuser



Powerful mode

Operation at maximum airflow and compressor speed, and quickly makes the room comfortable.



NEW

KV

Series

Standard range series



Compact Floor

- AGYG09KVCB 9 class
- AGYG12KVCB 12 class
- AGYG14KVCB 14 class

Optional parts

- Wireless LAN Adapter: UTY-TFSXZ1
- Wired Remote Controller: UTY-RNRYZ3, UTY-RLRY
- Simple Remote Controller: UTY-RSRY, UTY-RHRY
- Compact Wired Remote Controller: UTY-RCRYZ1
- Communication Kit: UTY-TWRXZ3
- External Switch Controller: UTY-TERX
- Network Converter for single split (DC power supply type): UTY-VTGX
- Network Converter for single split (AC power supply type): UTY-VTGXV
- KNX® Converter: UTY-VKSX
- MODBUS® Converter: UTY-VMSX
- Half Concealed Kit: UTR-STA
- External connect kit: UTY-XWZXZ5



Wireless R.C.



For AGYG09/12/14KVCB

Compact body and strong heating for foot zone with standard functions.

High heating capacity till -15°C ambient!

Heating capacity at low ambient temperatures is greatly enhanced due to large heat exchanger volume and large cross-flow fan on indoor unit.

High heating max capacity

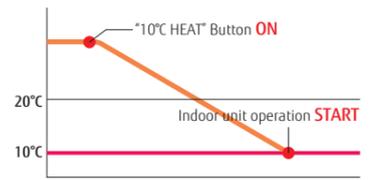
Top class heating capacity is achieved by high efficiency compressor. Regarding new floor 12 model, max heating capacity improved by 8.8% vs current model.

Max. heating capacity (12 class)	
New model	6.20
current model	5.70

Comfort



10°C heat mode operation
When you leave, minimum heating operation is performed to maintain the room temperature.



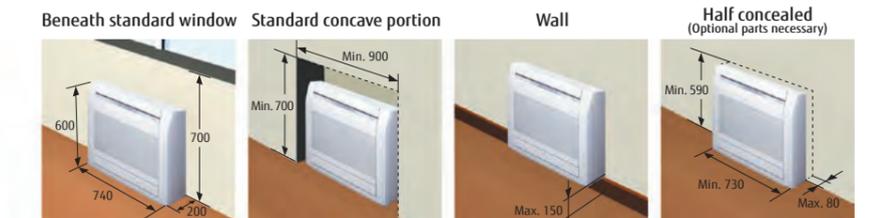
High energy saving

High SCOP value for heating

New KV models achieved top rank seasonal efficiency. Fujitsu General advanced inverter technology and high performance components provide high efficiency and low energy consumption.

SCOP (9 class)	
New model	4.40
current model	4.20

Flexible & easy installation



*Concaved position installation with conceal is prohibited.

Specifications

Model			KH Series			KM Series			KM Series			KV Series		
Model No.	Indoor unit		ASYG09KHCA	ASYG12KHCA	ASYG14KHCA	ASYG09KMCDN	ASYG12KMCDN	ASYG14KMCDN	ASYG09KMCB	ASYG12KMCB	ASYG14KMCB	AGYG09KVCB	AGYG12KVCB	AGYG14KVCB
	Outdoor unit		AOYG09KHCAN	AOYG12KHCAN	AOYG14KHCAN	AOYG09KMCDN	AOYG12KMCDN	AOYG14KMCDN	AOYG09KMCBN	AOYG12KMCBN	AOYG14KMCBN	AOYG09KVCBN	AOYG12KVCBN	AOYG14KVCBN
Power Source	V/Ø/Hz		230/1/50			230/1/50			230/1/50			230/1/50		
Capacity	Heating	kW	3.2 (0.9 ~ 7.2)	4.0 (0.9 ~ 7.4)	5.4 (0.9 ~ 8.2)	3.2 (0.9 ~ 5.7)	4.0 (0.9 ~ 5.9)	5.4 (0.9 ~ 6.4)	3.20 (0.9 ~ 5.2)	4.00 (0.9 ~ 5.7)	5.40 (1.1 ~ 6.0)	3.5 (0.9 ~ 5.5)	4.5 (0.9 ~ 6.2)	5.2 (0.9 ~ 6.3)
	Cooling	kW	2.5 (0.9 ~ 4.65)	3.5 (0.9 ~ 4.8)	4.2 (0.9 ~ 5.5)	2.5 (1.0 ~ 3.8)	3.4 (1.0 ~ 4.2)	4.2 (1.2 ~ 4.65)	2.50 (1.0 ~ 3.2)	3.40 (1.0 ~ 4.15)	4.20 (1.1 ~ 4.8)	2.5 (0.9 ~ 4.3)	3.5 (0.9 ~ 4.3)	4.2 (0.9 ~ 5.2)
Input Power	Heating/Cooling	kW	0.580/0.450	0.790/0.760	1.160/0.980	0.72/0.54	0.96/0.80	1.40/1.10	0.730/0.630	0.990/0.925	1.560/1.205	0.81/0.51	1.10/0.83	1.41/1.06
COP/EER	Heating/Cooling	WW	5.52/5.56	5.06/4.61	4.66/4.29	4.44/4.63	4.17/4.25	3.86/3.82	4.38/3.97	4.04/3.68	3.46/3.49	4.32/4.95	4.10/4.20	3.70/3.95
Heating capacity at -7°C		kW	-	-	-	-	-	-	3.35	3.65	4.50	-	-	-
Heating capacity at -15°C		kW	4.20	4.20	5.88	3.40	4.30	6.00	2.80	3.05	3.59	3.70	4.50	5.20
SCOP - Energy Efficiency Class			5.21 - A+++	4.89 - A++	4.80 - A++	4.60 - A++	4.60 - A++	4.60 - A++	4.10 - A+	4.10 - A+	4.10 - A+	4.40 - A+	4.20 - A+	4.00 - A+
SEER - Energy Efficiency Class			9.36 - A+++	9.06 - A+++	8.36 - A++	6.50 - A++	7.50 - A++	7.30 - A++	6.50 - A++	6.90 - A++	7.10 - A++	8.60 - A+++	8.50 - A+++	8.10 - A++
Annual Energy Consumption	Heating/Cooling	kWh/a	671/93	1,001/135	1,209/176	761/135	1,096/159	1,278/201	1,024/135	1,230/173	1,537/208	953/102	1,198/144	1,467/181
Sound Pressure Level (H-Q)	Indoor (Heating)	dB(A)	41-23	41-23	44-27	42-22	43-22	44-24	43-22	43-22	44-27	41-22	43-22	43-22
	Outdoor (Heating)	dB(A)	42	45	47	43	43	49	43	47	47	46	52	50
Sound Power Level (High)	Indoor (Heating/Cooling)	dB(A)	57/57	57/57	60/60	57/55	58/56	60/58	59/59	59/59	60/60	53/53	55/53	55/57
	Outdoor (Heating/Cooling)	dB(A)	55/56	58/60	60/65	56/59	56/59	59/61	59/63	63/65	63/65	58/54	62/58	63/63
Connection Pipe Diameter	Liquid/Gas	mm	6.35/9.52			6.35/9.52			6.35/9.52			6.35/9.52		
Maximum Pipe Length (Pre-Charge)		m	20 (15)			20 (15)			20 (15)			20 (15)		
Maximum Height Difference		m	15			15			15			15		
Drain Hose Diameter (I.D./O.D.)		mm	13.8/15.8 to 16.7			13.8/15.8 to 16.7			13.8/15.8 to 16.7			13.8/15.8 to 16.7		
Operation Range (Outdoor)	Heating/Cooling	°CDB	-25 to 24/-10 to 46			-25 to 24/-10 to 43			-25 to 24/10 to 43			-25 to 24/-10 to 46		
Dimensions (H x W x D)	Indoor	mm	295 × 940 × 270			270 × 834 × 222			268 × 840 × 203			600 × 740 × 200		
	Outdoor	mm	620 × 790 × 290			542 × 799 × 290	632 × 799 × 290	716 × 820 × 315	620 × 790 × 290			632 × 799 × 290		
Product Weight	Indoor/Outdoor	kg	14/36			10/33	10/36	10/42	8.5/35			14/36	14/38	14/38
Refrigerant (Global Warming Potential)			R32 (675)			R32 (675)			R32 (675)			R32 (675)		
Refrigerant Charge	kg (CO2eq-T)		1.10 (0.743)			0.85 (0.574)	0.94 (0.635)	1.12 (0.756)	0.85 (0.574)			0.94 (0.635)		

Note: Specifications are based on the following conditions.

Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.

Pipe length: 5.0 m

Height difference: 0 m (Outdoor unit - Indoor unit)
I.D.= Inside Diameter O.D.= Outside Diameter

Optional parts

Wireless LAN Interface

UTY-TFSXZ1, UTY-TFNXZ1



Features

It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, and tablets.

*Wall mounted type needs communication kit.



Wired Remote Controller

UTY-RNRYZ3 UTY-RLRY



Compact Wired Remote Controller

UTY-RCRYZ1



Simple Remote Controller

UTY-RSRY UTY-RHRY



UTY-RSNYM



MODBUS® Converter*

UTY-VMSX



KNX® Converter*

UTY-VKSX



External Switch Controller

UTY-TERX



Network Converter

UTY-VTGX DC power supply type

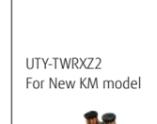


UTY-VTGXV AC power supply type



Communication Kit

UTY-TWBXF1 For KH models



UTY-TWRXZ2 For New KM model

UTY-TWRXZ3 For New KV model



External input and output PCB*

UTY-XCBXZ2



UTY-XCSXZ2

UTY-XWZXZ5



Input: Operation
Output: Operation status, Error status,



UTR-STA



This kit is used to half conceal floor type indoor unit into the wall.

* These options can be used only when the wireless LAN interface is removed.

Feature summary

	Save human sensor	Economy mode	Powerful heating	Power diffuser	Powerful mode	10°C HEAT operation	Low noise mode	Auto-changeover	Double swing automatic	Up/down swing flaps	Automatic fan speed	Auto restart	Sleep timer	Program timer	Weekly timer	Weekly + setback timer	Filter sign	Wireless LAN control	Ion deodorization filter	Apple-catechin filter	Washable panel
KH Series	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	○	●	●	●
KM Series (KMCDN)		●	●		●	●	●	●		●	●	●	●	●	●	○	●	●	●	●	●
KM Series (KMCB)		●	●	●	●	●	●	●		●	●	●	●	●	○	●	●	○	●	●	●
KV Series		●	●		●	●	●	●		●	●	●	●	●	●	○	●	○	●	●	●

○ : Optional parts is necessary

Feature explanation

Energy saving function

Save human sensor
Human sensor detects the movement of people in the room and judges whether the energy saving operation.

Economy mode
Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.

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.

Low noise mode
Sound noise level of outdoor unit can be selected.

Auto-changeover
The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.

Double swing automatic
Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.

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

Automatic fan speed
The micro-computer automatically adjusts the airflow effectively to follow the changes of 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.

Convenient function

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.

Weekly timer
Different on-off times can be set for each day.

Weekly + setback timer *Optional parts is necessary
Weekly + setback timer can set temperature for two times spans and for each day of the week.

Filter sign
Indicates the filter cleaning period by lamp.

Wireless LAN control
The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.

Clean function

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.

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

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