FUJITSU

Split Air Conditioner
Nordic Collection

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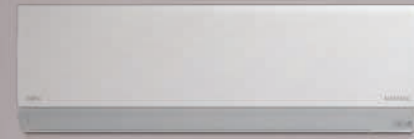
FUJITSU GENERAL LIMITED

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FUJITSU GENERAL LIMITED

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

Heat exchanger
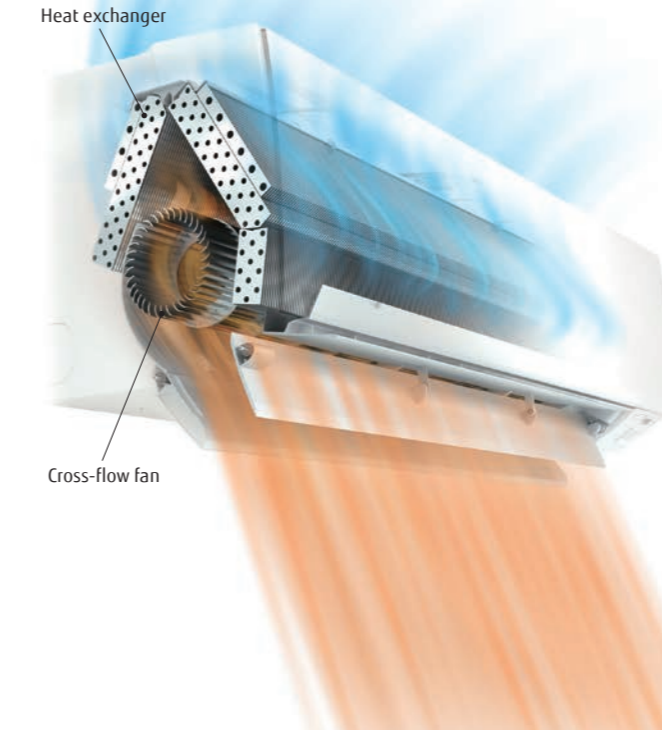
Cross-flow fan

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 -25°C outdoor temperature. (KH series)

*KMCEN series and KV series: -15°C

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 -30°C outdoor air temperature. *KHCBN series *KM series and KV series: -25°C

Steel material & wide opening structure

High efficiency large heat exchanger

Base heater

Wide machinery space

Anti-freezing parts

High performance DC twin rotary compressor for cold climate
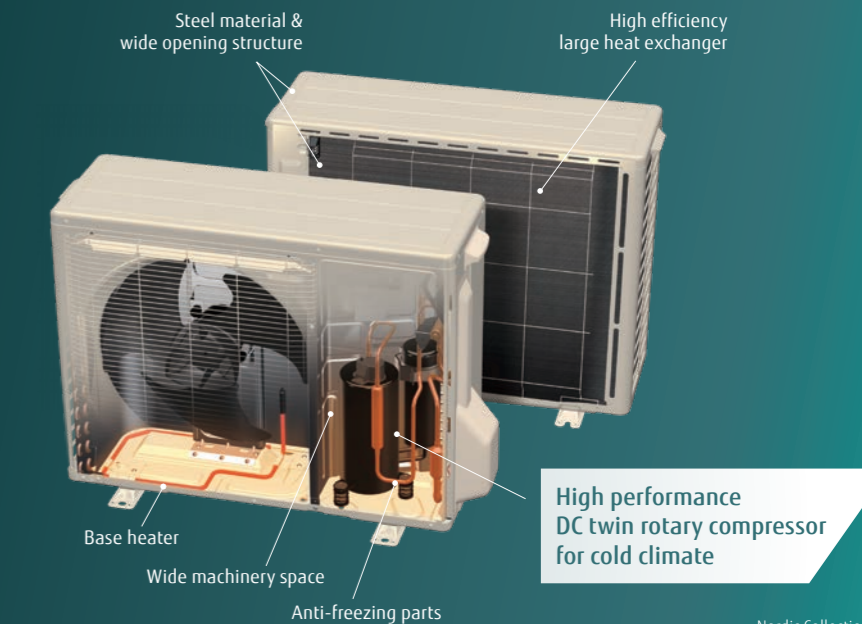
Nordic Collection

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.

Series	Wall Mounted			Compact Floor
	KH Series — Hi-grade range series 9/12/14 class — R32	**KM** Series (KMCEN) — Standard range series 9/12/14 class — R32	**KM** Series (KMCB) — Standard range series 9/12/14 class — R32	**KV** Series — Standard range series 9/12/14 class — R32
	NEW			
	New slim and stylish square design. Combining high energy saving and powerful heating performance 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 -25°C	Powerful Heating at -15°C	Powerful Heating at -7°C	Powerful Heating at -15°C
	Power diffuser	Weekly Timer	Power Diffuser	2-way Airflow
	Built-in Wireless LAN Adapter	Built-in Wireless LAN Adapter		
	Plasma Air Clean			
	Quiet Operation & Comfortable Airflow			
Operating Range (Heating)	-30 to 24	-25 to 24	-25 to 24	-25 to 24

KH
Series

Hi-grade range series

REFRIGERANT R32
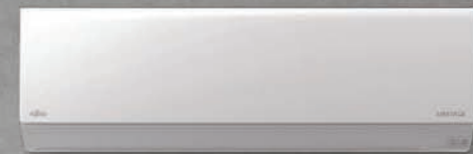
Wall Mounted
ASEH09KHCBN 9 class
ASEH12KHCBN 12 class
ASEH14KHCBN 14 class

Optional parts
Wired Remote Controller*1: UTY-RVRY, UTY-RNRYZ5, UTY-RLRY
Compact Wired Remote Controller*1: UTY-RCRYZ1
Simple Remote Controller*1: UTY-RSRY, UTY-RHRY
Communication kit: UTY-TWRXZ4
External Connect Kit: UTY-XWZXZ5
External input and output PCB*2: UTY-XCSXZ3
External Connect Kit: UTY-XWZX
MODBUS Converter: UTY-VMSX
KNX Converter: UTY-VKSX
Silver ion filter: UTR-FA16-5
*1: The communication kit (UTY-TWRXZ4) is required.
*2: The external connect kit (UTY-XWZXZ5) is required.

Wireless R.C.   For ASEH09KHCBN   For ASEH12/14KHCBN

New slim and stylish square design. Combining high energy saving and powerful heating performance for foot zone.

High heating capacity till -25℃ 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℃	-15℃	-25℃
09	7.00	4.90	4.00
12	8.40	6.10	4.60
14	9.00	7.10	5.40

Heating Operation at -30℃ Outdoor Air Temperature

High-efficiency large heat exchanger and high-performance DC twin rotary compressor correspond to heating operation at -30℃ outdoor air temperature.

High energy saving

Achieved top rank A+++ seasonal efficiency
All new KH models achieved top rank A+++ seasonal efficiency for both heating (average) and cooling.

A+++ (Average)
A+ (Colder)   SCOP: 5.30   A+++   SEER: 10.90
*09 class

Comfort

Quiet operation & Comfortable airflow
The new model can operate silently at 19 db(A) with high energy efficiency. You can also use it at bedtime or in silent rooms. In addition, room air can be circulated by moving the fan in the indoor unit.

Quiet operation
19 dB(A)
09/12 models

Plasma air clean
Air passing through the indoor unit is cleaned by a built-in electrostatic dust collector. Pollen, house dust and other tiny pollutants are collected and removed with static electricity.

Generating low concentration ozone
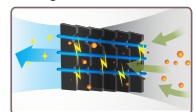
Smart device control
By integrated wireless LAN adapter, you can control it from anywhere with your smart device.
* You need to install the AIRSTAGE Mobile app on your smart device in order to control the air conditioner.

NEW **AIRSTAGE Mobile**

KM
Series
Standard range series

REFRIGERANT R32

Wall Mounted
ASYG09KMCEN 9 class
ASYG12KMCEN 12 class
ASYG14KMCEN 14 class

Optional parts
Wired Remote Controller*[1]: UTY-RVRY, UTY-RNRYZ5, UTY-RLRY
Compact Wired Remote Controller*[1]: UTY-RCRYZ1
Simple Remote Controller*[1]: UTY-RSRY, UTY-RHRY
Communication Kit: UTY-TWRXZ2
External input and output PCB*[2]: UTY-XCSXZ2
External Switch Controller: UTY-TERX
Network Convertor for single split (DC power supply type): UTY-VTGX
Network Convertor for single split (AC power supply type): UTY-VTGXV
KNX® Convertor*[2]: UTY-VKSX
MODBUS® Convertor*[2]: UTY-VMSX
External connect kit*[2]: UTY-XWZXZ5
Silver ion filter: UTR-FA16-5
*1: Communication kit (UTY-TWRXZ2) is required.
*2: These options can be used only when the wireless LAN adapter is removed.

Wireless R.C.   For ASYG09KMCEN   For ASYG12KMCEN   For ASYG14KMCEN

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.

High energy saving
Achieved top rank seasonal efficiency
All KMCEN models achieved high rank seasonal efficiency. Fujitsu General advanced inverter technology and high performance components provide high efficiency and low energy consumption.

A++ (Average)
A (Colder)   **SCOP: 4.60**   A++   **SEER: 7.50**
*12 class

Comfort
Weekly timer
You can set operation schedules up to 4 settings for each day of the week and can also specify temperature settings using the On timer.
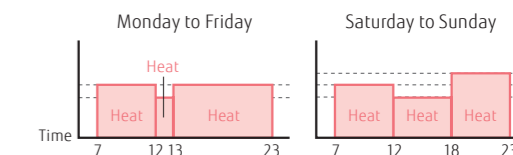
Monday to Friday   Saturday to Sunday
Heat
Time Heat Heat   Heat Heat Heat
7 12 13   23   7   12   18 23

Smart device control
By integrated wireless LAN adapter, you can control it from anywhere with your smart device.

You need to install the AIRSTAGE Mobile app on your smart device in order to control the air conditioner.

WLAN adapter (USB)
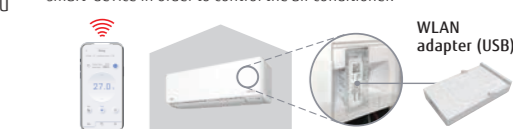
NEW **AIRSTAGE**
Mobile

Easy Installation
Installation when left outlet piping is easier by removable under cover of the indoor unit chassis. Installation when center outlet piping is easier by design change of wall hook bracket.

Current   NEW   Wide Installation space Easy Installation

48.7mm   111.5mm

KM
Series

Standard range series

REFRIGERANT R32
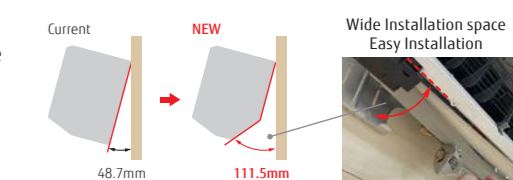
Wall Mounted
ASYG09KMCB 9 class
ASYG12KMCB 12 class
ASYG14KMCB 14 class

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
Silver ion filter: UTR-FA16-5
*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.
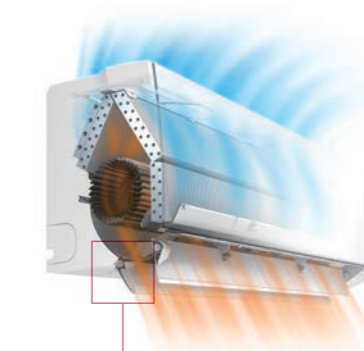
Power diffuser

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

KV
Series

Standard range series

Compact Floor
AGEG09KVCB 9 class
AGEG12KVCB 12 class
AGEG14KVCB 14 class

Optional parts
Wireless LAN Adapter: UTY-TFSXJ3
Wired Remote Controller: UTY-RVRY, UTY-RNRYZ5, 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 Convertor for single split (DC power supply type): UTY-VTGX
Network Convertor for single split (AC power supply type): UTY-VTGXV
KNX® Convertor: UTY-VKSX
MODBUS® Convertor: UTY-VMSX
Half Concealed Kit: UTR-STA
External connect kit: UTY-XWZXZ5
Silver ion filter: UTR-FA03-5

REFRIGERANT
R32

Wireless R.C.   For AGEG09/12/14KVCB

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

High heating capacity till -15℃ 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℃ heat mode operation
When you leave, minimum heating operation is performed to maintain the room temperature.

"10℃ HEAT" Button ON
20℃
10℃
Indoor unit operation START
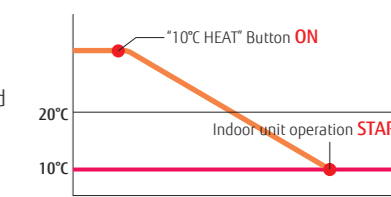
High energy saving

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

Beneath standard window   Standard concave portion   Wall   Half concealed (Optional parts necessary)

600
740   200   700

Min. 900
Min. 700

Max. 150

Min. 590
Min. 230   Max. 80
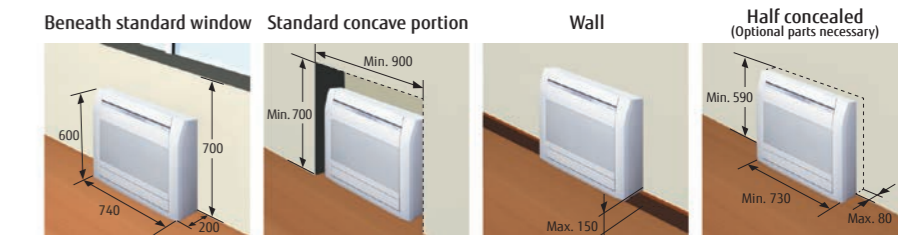
(Unit: mm)
*Concaved position installation with conceal is prohibited.

Specifications

Model			KH Series			KM Series			KM Series			KV Series		
Model No.	Indoor unit		ASEH09KHCBN	ASEH12KHCBN	ASEH14KHCBN	ASYG09KMCEN	ASYG12KMCEN	ASYG14KMCEN	ASYG09KMCBN	ASYG12KMCBN	ASYG14KMCB	AGEG09KVCB	AGEG12KVCB	AGEG14KVCB
	Outdoor unit		AOEH09KHCBN	AOEH12KHCBN	AOEH14KHCBN	AOYG09KMCEN	AOYG12KMCEN	AOYG14KMCEN	AOYG09KMCBN	AOYG12KMCBN	AOYG14KMCBN	AOEG09KVCBN	AOEG12KVCBN	AOEG14KVCBN
Power Source		VIØ/Hz	230/1/50			230/1/50			230/1/50			230/1/50		
Capacity	Heating	kW	3.2 (0.7 – 7.7)	4.0 (0.7 – 8.4)	5.4 (0.8 – 9.0)	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 (0.7 – 4.7)	3.5 (0.7 – 5.1)	4.2 (0.8 – 5.9)	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	0.54 / 0.42	0.74 / 0.68	1.11 / 0.88	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	W/W	5.93 / 5.95	5.41 / 5.15	4.86 / 4.77	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	4.90	6.10	7.10	3.40	4.30	6.00	2.80	3.05	3.59	3.70	4.50	5.20
SCOP - Energy Efficiency Class	Average		5.30 - A+++	5.30 - A+++	5.30 - 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+
	Colder		4.40 - A+	4.30 - A+	4.30 - A+	3.40 - A	3.40 - A	3.40 - A	-	-	-	3.60 - A	3.40 - A	-
SEER - Energy Efficiency Class			10.90 - A+++	10.60 - A+++	9.90 - 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	658 / 80	939 / 115	1,109 / 148	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)	44 - 19	44 - 19	46 - 23	42 - 22	43 - 22	44 - 24	43 - 22	43 - 22	44 - 27	41 - 22	43 - 22	43 - 22
	Outdoor (Heating)	dB(A)	44	49	49	43	43	49	43	47	47	46	52	50
Sound Power Level (High)	Indoor (Heating/Cooling)	dB(A)	59 / 57	60 / 58	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 / 57	59 / 61	60 / 64	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	°CD	-30 to 24 / -10 to 50			-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 × 894 × 280			270 × 834 × 222			268 × 840 × 203			600 × 740 × 200		
	Outdoor	mm	632 × 799 × 290	716 × 820 × 315	716 × 820 × 315	542 × 799 × 290	632 × 799 × 290	716 × 820 × 315	620 × 790 × 290			632 × 799 × 290		
Product Weight	Indoor/Outdoor	kg	14.5 / 39	14.5 / 42	14.5 / 45	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)	1.22 (0.824)	1.32 (0.891)	1.39 (0.938)	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
NEW UTY-TFSXJ3
UTY-TFNXZ1

The WLAN adapter enables the air conditioner to be operated by smartphone or tablet PC from outside the home.

New stylish design and user friendly application

For UTY-TFSXJ3
NEW AIRSTAGE Mobile
for iOS, Android

For UTY-TFNXZ1
NEW FGLair
for iOS, Android

Wired Remote Controller
NEW UTY-RVRY
UTY-RNRYZ5

UTY-RLRY

UTY-RHRY

Compact Wired Remote Controller
UTY-RCRYZ1

Simple Remote Controller
UTY-RSRY

MODBUS® Convertor*
UTY-VMSX

KNX® Convertor*
UTY-VKSX

External Switch Controller
UTY-TERX

Network Convertor
UTY-VTGX
DC power supply type

UTY-VTGXV
AC power supply type

Communication Kit
UTY-TWRXZ4
For KH models

UTY-TWRXZ2
For KMCEN model

UTY-XCBXZ2
For KMCB model

UTY-TWRXZ3
For Floor KV model

External input and output PCB*
UTY-XCSXZ2
UTY-XCSXZ3

Silver ion filter
UTR-FA16-5
UTR-FA03-5

External Connect Kit*
UTY-XWZXZ5

Input: Operation
Output: Operation status, Error status,

Half Concealed Kit
UTR-STA

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

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

Feature summary

		Save occupancy sensor	Economy operation	Powerful heating	Power diffuser	Powerful operation	Fan control in heating operation	6-step air flow control	10°C heat	Outdoor unit low noise operation	Auto changeover	Double swing automatic	UP/DOWN swing louver	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	Silver ion filter	Plasma Air Clean
Wall Mounted	KH Series	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●*	○	●	●			●	○	●
	KM Series (KMCEN)	●	●		●		●	●	●	●	●	●	●	●	●	●	○	●	●	●	○			●		
	KM Series (KMCB)	●	●		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	○			●		
Floor	KV Series	●	●		●		●	●	●	●	●	●	○	●	●	○	●	○	●	●	●			●	○	

* For KH series, the weekly timer is only available on the AIRSTAGE Mobile application and wired remote controller. It can not be used via wireless remote controller.

○ : Optional parts is necessary

Feature explanation

Energy saving function

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

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

Comfortable function

Powerful heating
Keeping the rated heating capacity even when the outdoor ambient temperature is -7°C.

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

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

Fan control in heating operation
The fan control in heating can be switched between reducing the feeling of cold air and prioritizing the set air volume.

6-step air flow control
The operating airflow level can be selected from 6 steps depending on the environment.

10°C heat
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.

Outdoor unit low noise operation
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 louver
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.

Silver ion filter
The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.

Plasma air clean
The electrostatic precipitator removes dust particles such as pollen and house dust. It is washable and thus can always be kept clean.