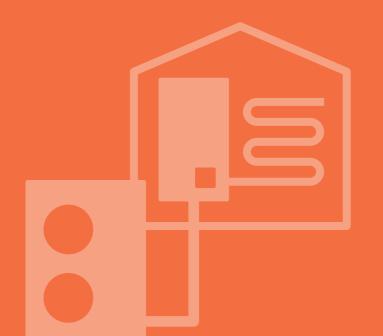
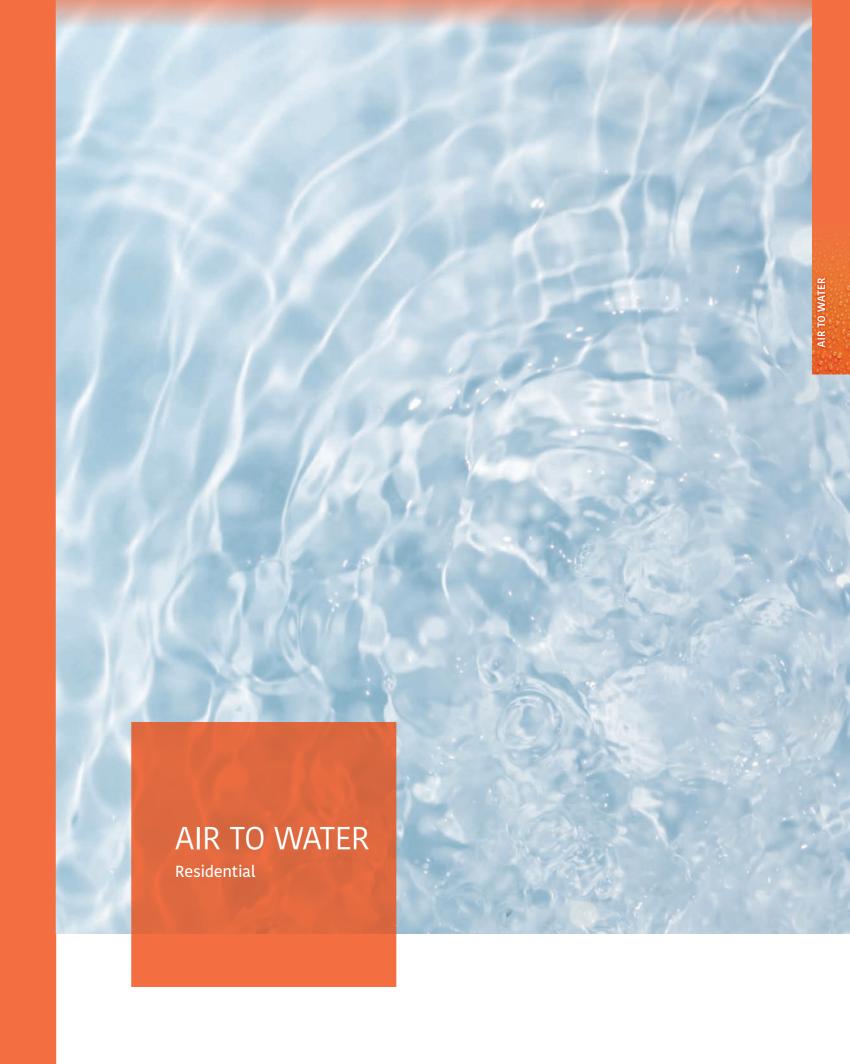
Residential

AIR TO WATER

W-006 Energy Efficiency Standards W-008 AIR TO WATER Series Overview

- Comfort series
- High Power series
- Super High Power series
W-038 Indoor Units
- Type-A, Type-B
W-042 Optional Parts & Control Overview
W-044 Optional Parts List for Monobloc type
W-050 Control Overview
W-052 Optional Parts Overview
W-054 Optional Parts List for Split type





FUJITSU GENERAL LIMITED

AIR TO WATER Overview

Solutions that meet a variety of needs

Water heated by Air to Water, which uses clean energy, can provide a steady supply of comfortable water throughout the home for heating and hot water applications.



2nd floor



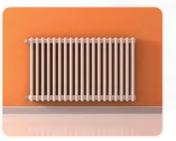


1st floor



heating

Bedroom & Bathroom





Living & Dining Kitchen







Air to Water heat pump

Outdoor unit

The unit is used to extract heat from the environment, making use of renewable energy resources from the sun and the outside air.







Indoor unit control box*

If you want to update your system by reusing your existing pump and buffer tank, etc., you can do so by installing only the control box.

Indoor unit Wall mounted

Stands for preparation of heating water for under floor heating and radiators. It can optionally operate with domestic hot water tank.

Indoor unit Domestic Hot Water integrated

Can be used with a variety of heating systems, including under floor heating and radiators. Space saving heating and DHW supply in a single indoor unit.

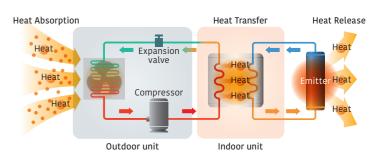
*The control box can only be selected for Monobloc outdoor units.

Ecological consideration in your home

Heat pump system framework

Heat is absorbed from the atmosphere by expanding the refrigerant.

Higher-temperature heat is generated by compressing the refrigerant, and the indoor unit transfers that heat to the water.



*Split products are listed as examples.

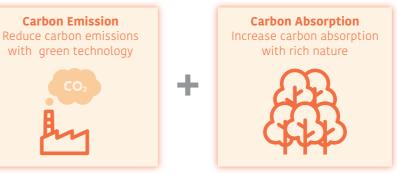


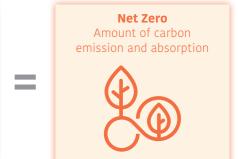
Our Goal

Decarbonisation

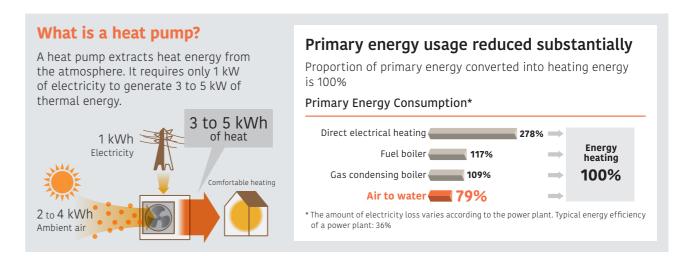
European Comission is committed to decarbonisation and has a national target of "**Net Zero**" carbon emissions by 2050.

We need to reduce carbon emissions with green technology products and increase carbon absorption by working to extend nature.



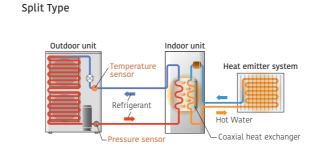


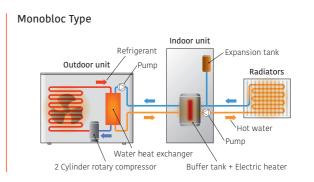
Fujitsu General's ATW system will provide the best solutions that are friendly to the environment and people with products conscious of decarbonisation.



The Choice of ATW

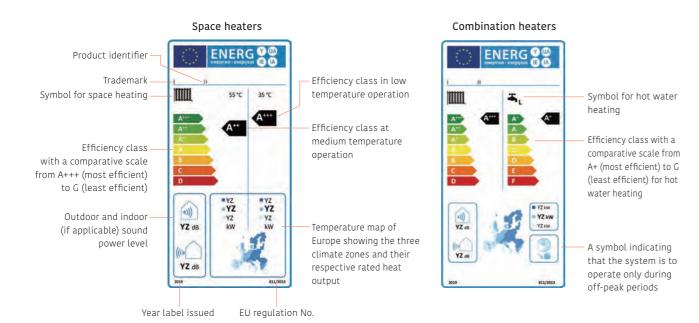
Optimized refrigerant cycle operation





Energy Efficiency Standards

Product labels



The Ecodesign Directive Lot 1 Regulation 813/2013

The Ecodesign directive defines a regulatory framework for improving the environmental performance of energy-related products (ErP) through design.

Since September 26, 2015, the Ecodesign Directive has applied to space heaters, including heat pumps and fossil fuel fired boilers, combination heaters for space and hot water heating, water heaters, and water storage tanks.

All of these products must meet minimum requirements for energy efficiency*1 and maximum sound power level. The minimum energy efficiency class were raised on September 26, 2017, and the maximum sound levels were lowered on September 26, 2018.

*1: Energy efficiency is expressed in terms of seasonal space heating efficiencies (η s). The value is based upon the Seasonal Coefficient of Performance (SCOP).

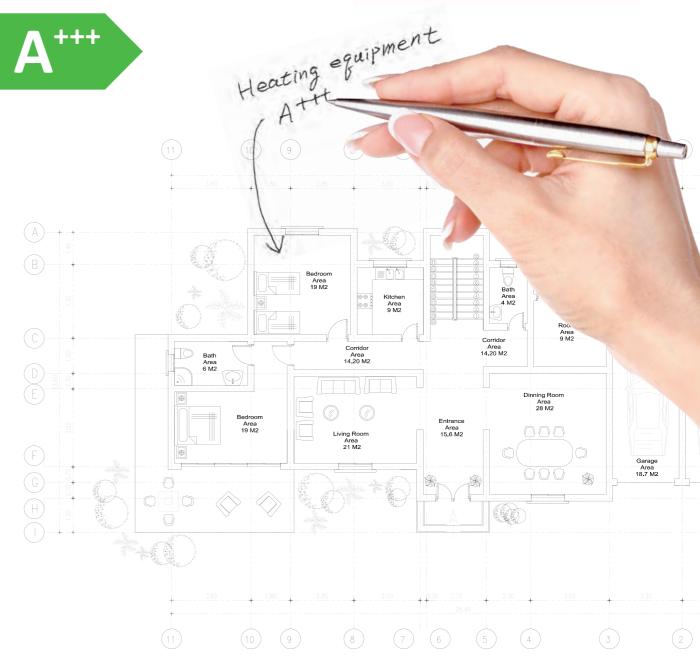
The Energy Labelling Directive (EU) No. 811/2013

Energy label is intended to enable consumers to make direct comparisons of energy use and product features. All labels should indicate the product identifier, efficiency class, sound power level, and heat output. Heat generators are rated A+++ to G. There are two different product labels. One for space heaters and one for combination heaters.

	Seasonal space Energy efficienc	•
	Except low temp. HP 55°C	Low temp. HP 35°C
A	ηs ≥ 150	ηs ≥ 175
A	125 ≤ ηs < 150	150 ≤ ηs < 175
A [*]	98 ≤ ηs < 125	123 ≤ ηs < 150
	90 ≤ ηs < 98	115 ≤ ηs < 123
В	82 ≤ ηs < 90	107 ≤ ηs < 115
C	75 ≤ ηs < 82	100 ≤ ηs < 107
D	36 ≤ ηs < 75	61 ≤ ηs < 100
E	34 ≤ ηs < 36	59 ≤ ηs < 61
F	30 ≤ ηs < 34	55 ≤ ηs < 59
G	ηs < 30	ηs < 55

Due to restrictions on the use of fossil fuels in Europe and the F-Gas regulations, the use of environmentally friendly heating equipment is required not only for new buildings but also for renovated properties. Let's consider installing high energy efficiency products that will be essential for future living environments.

Heating equipment



AIR TO WATER Series

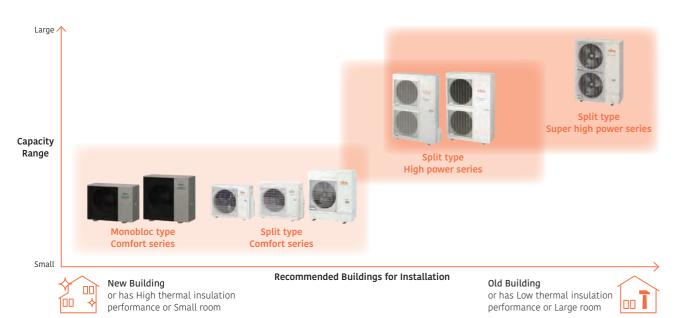
Overview



Series	System Outline	Refrigerant	Recommended Building for Installation
Comfort series	Indoor unit		
	Control box consists of the hot water circuit controller and the user interface. It is not connected to the water pipe.		
ntrol box	Outdoor unit		✓
Wall mounted	 Supplies 60°C hot water even when the outdoor temperature is -5°C. 		
DHW integrated	 Supplies 55°C hot water even when the outdoor temperature is -10°C. 	REFRIGERANT R 3	
	 Can be used with a variety of heating systems, including under floor heating and radiators.* 		
	• Heating and DHW supply in one system.*		
	• Up to Three independent control circuits.*		
5kW 8/10kW	• Operating range is -20 to 35°C in heating.		
	Cooling operation is possible		

ATW Product simplified selection method

Please select a product based on the amount of heat required to maintain a comfortable temperature in the house, just as with air conditioners. For example, the Split comfort series with a low Capacity Range is recommended for newly built houses, as they tend to have high insulation performance.









Split type



AIR TO WATER Lineup

Туре	Series	Refrigerant		Model	Power Source	Capacity 5kw	6kw	8kw	10kw	Cap 11kw	acity 14kw	15kw	16kw	17kw	App CEN KEYMARK	roval EHPA
	Comfort series Control box type	R32 Heating & Cooling	IJ		Single phase, ~230 V, 50 Hz	UTW-SCBEC WPEG050KRF	S.W	UTW-SCBEC WPEG080KRF	UTW-SCBEC WPEG100KRF			15.1.1			Ě	2,
Monobloc type	Comfort series Wall Mounted type	R32 Heating & Cooling			Single phase, ~230 V, 50 Hz	WSEP100KR3 WPEG050KRF		WSEP100KR3 WPEG080KRF	WSEP100KR3 WPEG100KRF						E	
	Comfort series DHW Integrated type	R32 Heating & Cooling	1		Single phase, ~230 V, 50 Hz	WGEP100KR3-19 WPEG050KRF		WGEP100KR3-19 WPEG080KRF	WGEP100KR3-19 WPEG100KRF						E	
	Comfort series Wall Mounted type	R32 Heating*		0 0 0	Single phase, ~230 V, 50 Hz	WSYA050ML3 WOYA060KLT	WSYA080ML3 WOYA060KLT	WSYA080ML3 WOYA080KLT	WSYA100ML3 WOYA100KLT						E	
	Comfort series DHW Integrated type	R32 Heating*		0 0 0	Single phase, ~230 V, 50 Hz	WGYA050ML3 WOYA060KLT	WGYA080ML3 WOYA060KLT	WGYA080ML3 WOYA080KLT	WGYA100ML3 WOYA100KLT						E	
	High Power series	R410A Heating*			Single phase, ~230 V, 50 Hz					WSYG140DG6 WOYG112LHT	WSYG140DG6 WOYG140LCTA				E	
	Wall Mounted type	R410A Heating*			3-phase, ~400 V, 50 Hz					WSYK160DG9 WOYK112LCTA	WSYK160DG9 WOYK140LCTA		WSYK160DG9 WOYK160LCTA		E	auchyń.
Split type	High Power series	R410A Heating*			Single phase, ~230 V, 50 Hz					WGYG140DG6 WOYG112LHT	WGYG140DG6 WOYG140LCTA				E	
5,,	DHW Integrated type	R410A Heating*			3-phase, ~400 V, 50 Hz					WGYK160DG9 WOYK112LCTA	WGYK160DG9 WOYK140LCTA		WGYK160DG9 WOYK160LCTA		E	Exception 1
	Super High Power series	R410A Heating*		6	Single phase, ~230 V, 50 Hz								WSYG160DJ6 WOYG160LJL		E	
	Wall Mounted type	R410A Heating*		8	3-phase, ~400 V, 50 Hz							WSYK170DJ9 WOYK150LJL		WSYK170DJ9 WOYK170LJL	E	
	Super High Power series	R410A Heating*		8	Single phase, ~230 V, 50 Hz								WGYG160DJ6 WOYG160LJL		E	
	DHW Integrated type	R410A Heating*		8	3-phase, ~400 V, 50 Hz							WGYK170DJ9 WOYK150LJL		WGYK170DJ9 WOYK170LJL	bling is available b	

EHPA Quality Label



Fujitsu General's Air to water ¹² has acquired the EHPA Quality Label ¹³ through testing in accordance with the International Standards EN14511 and EN17025. The EHPA Quality Label ¹³ is a label that shows the end-consumer a quality heat pump unit on the market.

*2: 3-phase high power series only *3: Learn more about the validity of the mark at www.ehpa.org/quality/quality-label/

SG ready Label



SG ready is a label issued to heat pumps and their control technologies that meet the requirements set by BWP's, and technologies that conform to their standards can be integrated into a smart grid. SG ready labeled heat pumps receive signals from the power grid and PV systems with regard to energy and renewable energy sources such as wind, solar, and water. All of Fujitsu General's new heat pump series are SG ready compatible.

*4: BWP: Bundesverband Wärmepumpe e. V (Federal German Heat Pump Association)

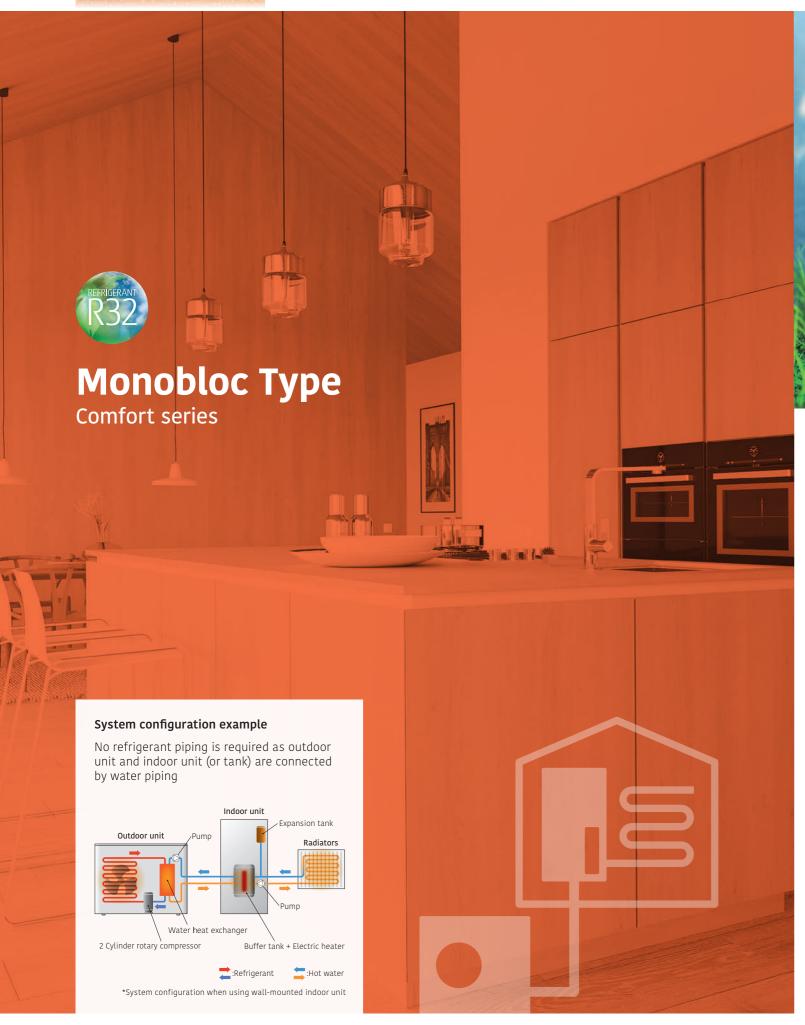
The CEN Heat Pump KEYMARK



The Heat Pump KEYMARK is a full certificate supporting the quality of heat pumps in the European market. The Heat Pump KEYMARK is a voluntary, independent, European certification mark (ISO Type 5 Certification) for all heat pumps, combination heat pumps, and hot water heaters (as covered by Ecodesign, EU Regulation 813/2013 and 814/2013). Fujitsu General's Air to water's has acquired the KEYMARK certificate's.

*5: R32 refrigerant comfort model only *6: Learn more about the validity of the mark at www. heatpumpkeymark.com/about/











Monobloc type with fewer pipe works and easy installation. It provides a wide variety of solutions to meet the usage

Aesthetic and compact design

By changing from the conventional two-fan system to a large-diameter single-fan system, we have been able to keep the height down. Because it is lower than a house window, you won't have any trouble finding a place to install the outdoor unit.



W-012 W-013

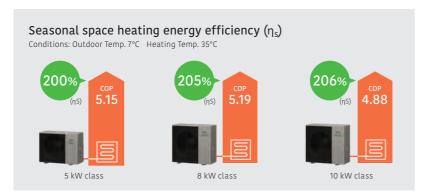
High Energy Efficiency

Energy efficiency class



*Temperature application: Heating temp. 35°C

Plate heat exchanger with high heat exchange performance improves energy-related product performance, achieving high energy efficiency.
All classes achieved top rank A+++* energy efficiency class.



* Value when the control box is connected

-

Compact & High efficiency Plate heat exchanger

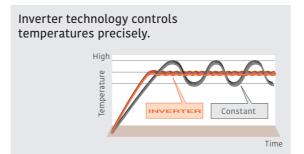
Transmitting the heat of the Refrigerant to the Water.



Invertor technology

Invertor-equipped models operate at a capacity suited to the heat load. Because they can respond to heat loads in detail, inverter-equipped models are more economical and comfortable than non-inverter models.

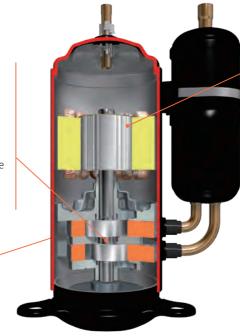
Compared to a non-inverter, it reaches the set temperature more quickly, operates at the minimum capacity and responds to slight changes in water temperature. The range of water temperature fluctuation is small, and a comfortable temperature is maintained.



Technology to achieve high efficiency

High-precision parts

The precision machining of parts has improved the degree of adhesion between parts. Refrigerant leakage from gaps has been reduced, leading to improved compression efficiency and high-efficiency operation. In addition, the contact surfaces between parts have been smoothed and the amount of wear has been reduced, resulting in stable performance over a long period of time.



2 Cylinder rotary compressor

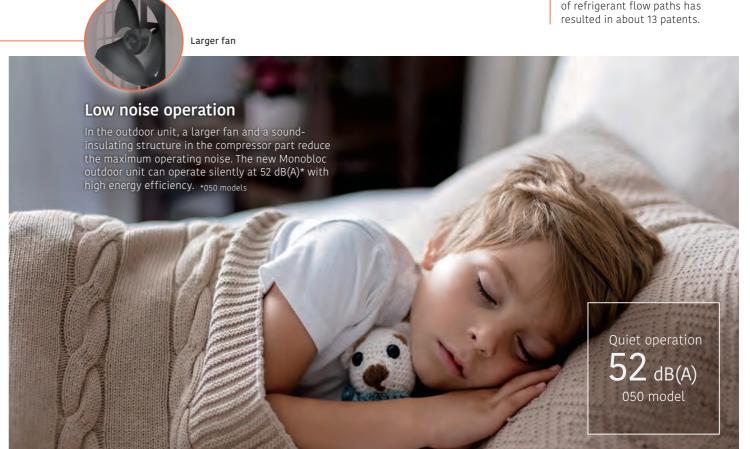
High-magnetic flux motor

Copper and iron losses are thoroughly suppressed to realize high magnetic flux of the motor. The high magnetic flux produces stronger torque than ever before. Thanks to this, operation with less current is possible, bringing out high-efficiency operation.



Smooth gas flow

The arrangement of parts that do not obstruct refrigerant flow in the compressor leads to highly efficient operation. Broad interpretation of the optimization of refrigerant flow paths has

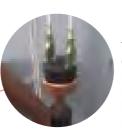


Durability and Reliability

We take care to ensure that our products can be used by our customers for a long time.

We have taken measures to reduce damage to our products even in the event of problems with the installation environment or during operation.





Pressure switch

The pressure switch equipped on the refrigerant cycle protects the system from malfunction that may caused by abnormal refrigerant



Silicon coating of PCBs

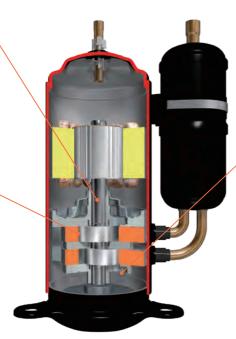
The silicon coating protects the PCBs and their components from damage caused by small animals living in the electrical box and salt.

Optimized shaft design

- The stress on specific parts is reduced, reducing the risk of wear and damage
- Vibration during rotation is reduced, reducing wear and fatigue damage, and ultimately improving durability

DLC coating vane

- It has a very high hardness and low wear coefficient, and shows excellent resistance to wear
- It is chemically stable and has excellent resistance to various working fluids and environmental conditions, so it protects the vanes from corrosion and chemical degradation, contributing to a longer lifespan



2 Cylinder rotary compressor

Technology to increase durability

Optimal lubricant

- Prevents friction and heating of parts, improving durability
- Contains rust-proofing and antioxidant agents, protecting metal parts from corrosion and preventing breakdowns and performance degradation
- Reduces impact between parts, suppresses vibration, and prevents excessive stress on parts, improving durability



*The values in the pictures are examples.

Service Monitor Tool UTY-ASSXZ1

Bluetooth communication

AIRSTAGE Service Monitor Tool can diagnose using a smart device and reduce the working time compared with diagnosis by PC. No need to connect a PC making diagnosis easier even in narrow spaces.



New application with simple design

New application for smart devices has been released. The stylish design makes the application easy to use for everyone.

Refrigerant cycle diagram display

The operating status can be displayed with a simple, clear diagram*2 on the smart device. It reduces the time for diagnosis and makes diagnosis easier. It can complement abundant experience and advanced knowledge of refrigerant cycle. This shortens the training time for service personnel.

*2: List and graph displays are also available





Compact and lightweight design

New model is easy to carry by compact and lightweight design. The service personnel can visit the maintenance site with small luggage.



Function I	ist		
			UTY-ASSXZ1
Product	Installation		Outdoor unit PCB
specification	Communication		Bluetooth
	Product distinction	1	•
	Signal-type distinc	tion	•
		List	•
	Operating status	Graph	•
Function	display	Refrigerant cycle diagram	•
		Operating history records	•
	Adapter firmware u	ıpdate	•
	Adapter status mo	nitoring	•
	Input and output of	of history data	•

Specifications

	UTY-ASSXZ1
Dimensions (H x W x D) (mm)	20 x 35 x 60 (adapter)
Communication cable (cm)	60
Weight (g)	25 (adapter)
Communication method	Bluetooth 5.3
Max. communication distance (m)	10*3
Compatible device	Android8.0, iOS17 or later

*3: Depends on the environment

W-016 W-017

Serviceability and Maintainability

Easy pipe work

No refrigerant piping work is required as the outdoor unit is an integrated unit, The hot water unit comes standard with the outdoor unit. Installation requires only hydraulic connection work, making installation easy.



Easy Installation

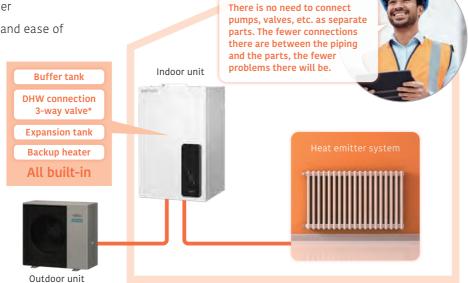
Wiring connections can be made simply by removing the side panel, so installation work can be easily carried out from a single direction. The compact, lightweight panel is easy to remove.

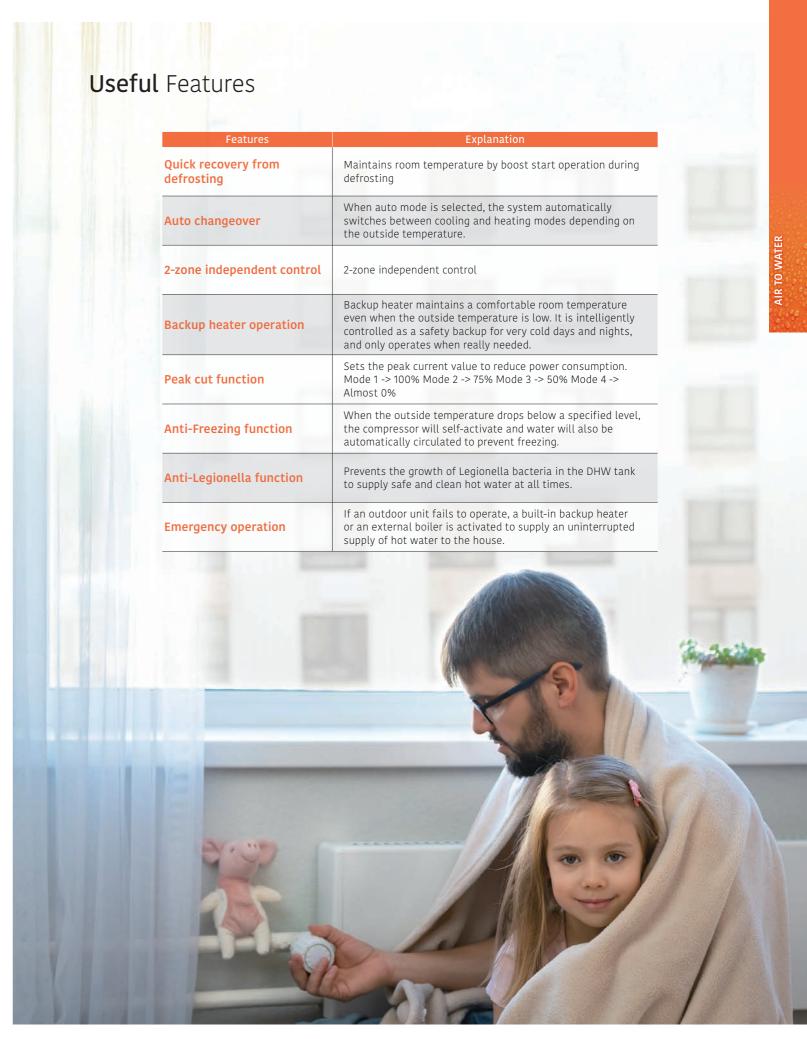


Improved workability

- The indoor unit is equipped with a buffer tank, DHW connection 3-way valve*, as well as an expansion tank and backup heater
- This improves system reliability and ease of installation

*Wall-mounted only





Outdoor unit: WPEG050KRF / WPEG080KRF WPEG100KRF





















Outdoor unit

Specifications

					Contro	ol box			
Model Name	Indoor unit		UTW-	SCBEC	UTW-9	SCBEC	UTW-	-SCBEC	
	Outdoor unit		WPEG	D50KRF	WPEG0	80KRF	WPEG	100KRF	
Capacity Range				5	8	3	•	10	
	Heating capacity	kW	5.	00	8.0	00	10	.00	
7°C/35°C floor heating *1	Input power	T KVV	0	.97	1.5	54	2	.05	
	COP		5	.15	5.	19	4.	.88	
	Heating capacity	kW	5.	00	8.0	00	10	.00	
7°C/55°C radiator *1	Input power	T KVV	1.	64	2.0	52	3.36		
	COP		3.	04	3.0)5	2	.98	
	Heating capacity	kW	4.80		7.5	50	8	.50	
-7°C/55°C radiator *1	Input power	T KVV	2.	25	3.5	50	3	.97	
	COP		2.13		2.1	14	2	.14	
	Cooling capacity	kW	5.	45	7.7	79	9.	.40	
35°C/18°C cooling mode *1	Input power	T KVV	1.	25	1.6	59	2	.40	
	EER		4.	35	4.0	52	3.91		
Space heating characteristics*2									
Temperature application		°C	55	35	55	35	55	35	
Energy efficiency class			A++	A+++	A++	A+++	A++	A+++	
Rated heat output (P _{rated})		kW	6	6	9	9	10	10	
Seasonal space heating energy effic	iency (η _s)	%	143	200	144	205	146	206	
Annual energy consumption		kWh	3,110 2,364		4,880	3,571	5,480	4,018	
Sound power level*3 Outdoor unit		dB(A)	52	52	56	56	57	57	
Indoor unit specifications									
Power source					Single phase,	, 230 V, 50 Hz			
Dimensions H × W × D		mm	483 × 3	70 × 222	483 × 37	70 × 222	483 × 3	70 × 222	
Weight (Net)		kg	1	0	1	0	,	10	
Outdoor unit specifications									
Power source					Single phase,	, 230 V, 50 Hz			
Current	Max.	А	14	4.6	19	1.1	2	0.6	
Water flow temperature range	Max.	°C	6	0	6	0	(50	
Dimensions H × W × D	mensions H × W × D		798 × 1,0	180 × 480	1,008 × 1,0	080 × 480	1,008 × 1	,080 × 480	
Weight (Net)		kg	3	35	10	19	1	09	
Defrigerent	Type (Global Warming F	otential)	R32	(675)	R32 ((675)	R32	(675)	
Refrigerant	Charge	kg	0.	88	1.4	17	1.	.47	
Connection pipe Diameter	Water	mm	Ø2	25.4	Ø2	5.4	Ø	25.4	
Operating range	Heating	°C	-20	to 35	-20 t	0 35	-20	to 35	

*1: Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.
*2: Information about ErP can be downloaded from our website at www.fujitsu-general.com/global/support/downloads/search/
*3: The sound power level values are based on EN12102 standard measurements under EN14825 standard conditions.

Outdoor unit:

Indoor unit:

WSEP100KR3 WGEP100KR3-19

Outdoor unit:

WPEG100KRF

WPEG050KRF / WPEG080KRF

Wall Mounted

					Wall M	ounted					DHW In	tegrated		
			WSEP1	100KR3	WSEP1	00KR3	WSEP1	IOOKR3	WGEP10	0KR3-19	WGEP10	0KR3-19	WGEP10	0KR3-19
	Outdoor unit		WPEG	050KRF	WPEGO	80KRF	WPEG ²	100KRF	WPEG	050KRF	WPEG	D80KRF	WPEG.	100KRF
Capacity Range				5		3	1	0		5		8	1	10
. , , ,	Heating capacity		5.	00	8.	00	10	.00	5.	.00	8.	00	10	.00
7°C/35°C floor heating*1	Input power	kW		00		57	2.	13	1.	.00	1.	57	2	.13
	COP		4.	99	5.	08	4.	70	4	.99	5.	08	4.	.70
	Heating capacity		5.	00	8.	00	10	.00	5.	.00	8.	00	10	.00
7°C/55°C radiator*1	Input power	kW	1.	72	2.	62	3.	40	1	.72	2.	62	3.	40
	COP	-		.91	3.			94		.91		05		.94
	Heating capacity			80		50		50		.80		50		.50
-7°C/55°C radiator*1	Input power	kW		.51		62		.11		.51		62		.11
,	FFR			91		07		07		.91		07		.07
	Cooling capacity	Τ		.35	7	59		30		.35		69		.30
35°C/18°C cooling mode*1	Input power	kW		26		72		47		.26		72		.47
oo ey io e cooling mode	EER			.23		47		77		.23		47		.77
Space heating characteristics*2	CEN			.20						.20				-
Temperature application		°C	55	35	55	35	55	35	55	35	55	35	55	35
Energy efficiency class			A++	A+++	A++	A+++	A++	A+++	A++	A+++	A++	A+++	A++	A+++
Rated heat output (P _{roted})		kW	6	6	9	9	10	10	6	6	9	9	10	10
Seasonal space heating energy efficie	ency (n.)	%	133	189	139	195	141	195	133	189	139	195	141	195
Annual energy consumption		kWh	3,355	2,503	5.078	3,764	5,685	4,269	3,355	2,503	5,078	3,764	5.685	4,269
Sound power level*3 Outdoor unit		dB(A)	52	52	56	56	57	57	52	52	56	56	57	57
Indoor unit specifications		1 05(1)		02				01	02	02	1 00		01	
Power source				Sino	le phase	230 V. 5	0 Hz			Sino	gle phase	. 230 V. 5	0 Hz	
Dimensions H × W × D		mm	737 × 44	48 × 469		18 × 469		18 × 469	1755 × 5	598 x 623		98 × 623		98 × 623
Weight (Net)		kg		4.0		.0	34	1.0		0.0		0.0		0.0
Water circulation	Min./Max.	L/min		1.5		.5		1.5		3.5		1.5		4.5
DHW tank volume		T .	_	-	_			-		90		90		90
Buffer tank capacity		1	1	16	1 1	6	1	6		16		16		16
Expansion vessel capacity		L		12		2		2		12		2		12
Water flow tempreature range	Max.	°C		50		0		0		50		0		50
Water pipe connection diameter	Flow/Return	mm	Ø19.05	/Ø19.05	Ø19.05	Ø19.05	Ø19.05	/Ø19.05	Ø19.05	/Ø19.05	Ø19.05	/Ø19.05	Ø19.05	/Ø19.05
	Heating		3	.0	3	.0	3	.0	3	3.0	3	.0		3.0
Electrical heater capacity	DHW	kW		-				-	1	.2	1	.2	1	.2
Delclared load profile		-		-				-		L		L		L
Efficiency nDHW		%		-				-	1	24	1:	24	1	24
Heating up time				-				-	1h4	5min	1h3	5min	1h3	5min
COP(EN16147)		-		-				-	3	.10	3.	10	3.	.10
Outdoor unit specifications														
Power source				Sino	le phase	, 230 V, 5	0 Hz			Sino	gle phase	, 230 V, 5	0 Hz	
Current	Max.	A	14	1.6	19	9.1	20	0.6	14	4.6	19	9.1	20	0.6
Water flow temperature range	Max.	°C	6	0	6	0	6	0	(50	6	0	6	50
Dimensions H × W × D		mm	798 × 1,0	80 × 480	1,008 × 1,	080 × 480	1,008 × 1,	080 × 480	798 × 1,0	080 × 480	1,008 × 1,	080 × 480	1,008 × 1,	080 × 48
Weight (Net)		kg	8	35	1()9	10)9	8	35	10	09	1	09
	Type (Global Warming		R32	(675)	R32	(675)	R32	(675)	R32	(675)	R32	(675)	R32	(675)
Refrigerant	Charge	kg		88		47		47		.88		47		.47
Connection pipe Diameter	Water	mm	Ø2	25.4	Ø2	5.4	Ø2	5.4	Ø2	25.4	Ø2	5.4	Ø2	25.4
		°C	-201			0 35		to 35		to 35	-201			to 35

DHW Integrated

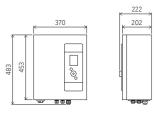
*1: Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.

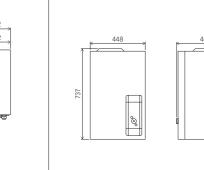
*2: Information about ErP can be downloaded from our website at www.fujitsu-general.com/global/support/downloads/search/

*3: The sound power level values are based on EN12102 standard measurements under EN14825 standard conditions.

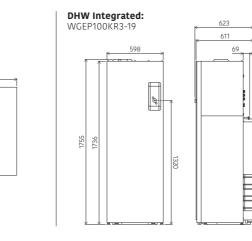
Dimensions

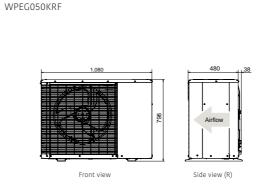
Control box: UTW-SCBEC





Wall Mounted: WSEP100KR3





WPEG080KRF/WPEG100KRF

Side view (R)

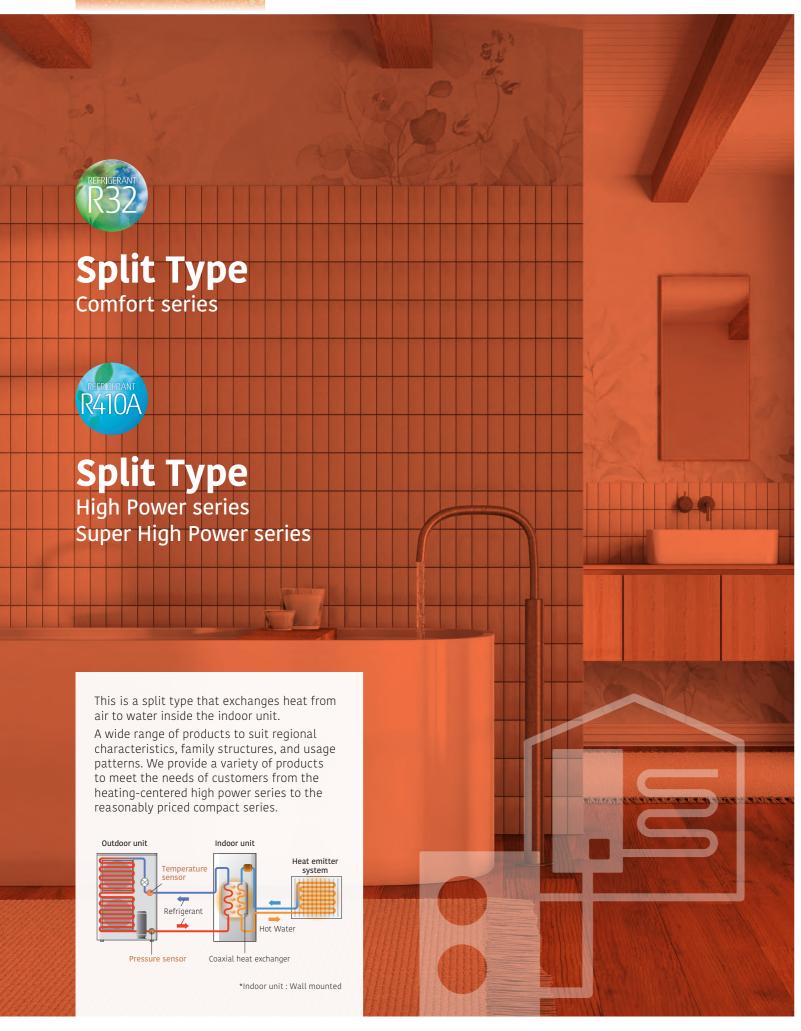
Front view

W-020 W-021

Outdoor unit

Single phase 8/10 kW

Outdoor unit



High Energy Efficiency

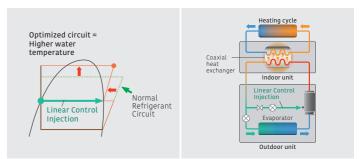
All classes achieved top rank A+++* energy efficiency class.



For Outdoor unit

Twin-Rotary Compressor with Linear Control Injection Port

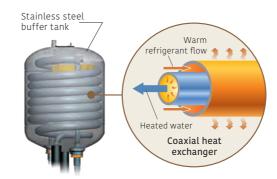
The compressor achieves a high condensing temperature without overheating the discharge gas temperature due to the Linear control injection process used during compression. This makes the condensing temperature higher than in a normal circuit. Higher water temperatures can be achieved by controlling the injection volume according to usage conditions.



*High power and super high power only

For Indoor unit

High-durability coaxial heat exchanger



Stainless steel buffer tank

Heat exchange amount is 25% higher than the previous model. Energy-saving performance has also been improved.

The buffer tank has anti-corrosion protection thanks to

The buffer tank has anti-corrosion protection thanks to stainless steel material.

Class A Pump

Energy-saving pump with the ability to adjust the flow rate and pressure to a constant level



Durability and Reliability

We take care to ensure that our products can be used by our customers for a long time. We have taken measures to reduce damage to our products even in the event of problems with the installation environment or during operation.



For Outdoor unit



Pressure switch

The pressure switch equipped on the refrigerant cycle protects the system from malfunction that may caused by abnormal refrigerant pressure.



Silicon coating of PCBs

The silicon coating protects the PCBs and their components from damage caused by small animals living in the electrical box and salt.

2 Cylinder Rotary Compressor

Optimal bearings

wear and tear.

increased durability.



Coated vane

• Very high hardness and low coefficient of wear, providing excellent resistance to abrasion. Scientifically stable and highly resistant to a wide range of working fluids and environmental conditions, it protects vanes from corrosion and chemical degradation, contributing to longer service life.

Optimal lubricating oil

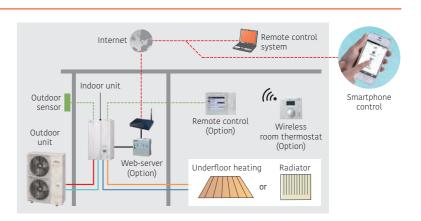
- Improves durability by preventing friction and heating of parts
- Contains rust inhibitors and antioxidants to protect metal parts from corrosion, which can cause failure and loss of performance.
- Reduces shock and vibration between parts, preventing overstressing of parts and increasing durability

Useful Features

Features	Explanation
Quick recovery from defrosting	Maintains room temperature by boost start operation during defrosting
Auto changeover	When cooling mode is selected, the system automatically switches between cooling and heating modes depending on the outside temperature.
2-zone independent control	2-zone independent control
Backup heater operation	Backup heater maintains a comfortable room temperature even when the outside temperature is low. It is intelligently controlled as a safety backup for very cold days and nights, and only operates when really needed.
Peak cut function	Sets the peak current value to reduce power consumption. Mode 1 -> 100% Mode 2 -> 75% Mode 3 -> 50% Mode 4 -> Almost 0%
Anti-Freezing function	When the outside temperature drops below a specified level, the compressor will self-activate and water will also be automatically circulated to prevent freezing.
Anti-Legionella function	Prevents the growth of Legionella bacteria in the DHW tank to supply safe and clean hot water at all times.
Emergency operation	If an outdoor unit fails to operate, a built-in backup heater or an external boiler is activated to supply an uninterrupted supply of hot water to the house.

Smart control

To meet the diverse needs of customers, we offer a variety of control options, such as individual control and remote control options.



W-024 W-025

















High water flow temperature

The temperature of water flow is up to 55°C without a backup heater. Hot water supply temperature can be maintained even at -10°C outdoor temperature.

* If you want to raise the temperature of the water supply to above the maximum temperature, use a backup heater to supplement the primary heater.







Comfort series

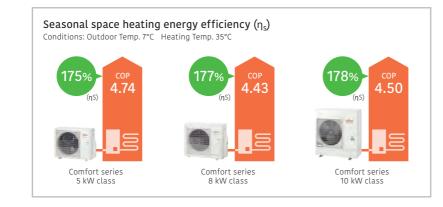
High COP

Heat pumps of ATW Systems work more efficiently and consume less energy than conventional heating systems.

Energy efficiency class



*Temperature application: Heating temp. 35°C





Indoor unit:

WSYA050ML3 / WSYA080ML3 / WSYA100ML3

Outdoor unit:

WOYA060KLT / WOYA080KLT /

WOYA100KLT









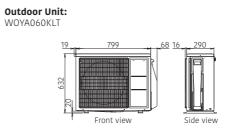
Specifications

Model Name		Indoor unit			050ML3		080ML3		80ML3		100ML3	
		Outdoor unit			060KLT		060KLT	!	D80KLT		WOYA100KLT	
Capacity Range					5		6		3		10	
		Heating capacity	kW		50		50		50	9.50		
7°C/35°C floor heating) * ¹	Input power	KVV	0.9	949	1.18		1.69		2.11		
		COP			.74		65	4.43			.50	
		Heating capacity	kW	4.	50	5.	30	6.	30	9.	30	
2°C/35°C floor heating	3 * ¹	Input power	KVV		33		65	1.	96	3.08		
		COP		3.	3.39		3.22		21	3.	.02	
		Heating capacity	kW		40		00		70		.90	
-7°C/35°C floor heatin	g* ¹	Input power	NVV		59		90		13	3.	.36	
		COP		2.	.76	2.	63	2.	68	2.	.65	
		Heating capacity	kW	3.90		4.	25	5.	30	8.	.00	
-7°C/55°C Radiator*1		Input power	7 KVV	2	.11	2.	25	2.	79	4.	.10	
		COP		1.	85	1.	89	1.	90	1.	95	
Space heating charac	cteristics*2											
Temperature applicat	ion		°C	55	35	55	35	55	35	55	35	
Energy efficiency clas	SS			A++	A+++	A++	A+++	A++	A+++	A++	A++	
Rated heat output (Pr	ated)		kW	5	5	5	6	6	7	8	9	
Seasonal space heati	ng energy efficiency	(η _ς)			175	125	175	128	177	130	178	
Annual energy consur	mption		kWh	3,035	2,322	3,411	2,594	3,903	2,982	5,083	3,87	
6 1 143	Indoor unit		10(4)	40	-	40	-	40	-	40	-	
ound power level*3 Outdoor unit		dB(A)	57		57	-	60		62	-		
Indoor unit specifical	tions					'			'			
Power source							Single phase,	~230 V, 50 H;	7			
Dimensions H × W × D)		mm	847 × 4	50 × 493	847 × 450 × 493		847 × 4	50 × 493	847 × 4	50 × 493	
Weight (Net)			kg	4	17	4	17	4	.7	4	17	
Water circulation		Min./Max.	L/min	7.6/22.0		8.5/22.0		2.0 10.0/		13.2/30.0		
Buffer tank capacity			L	1	6	1	6	1	6	16		
Expansion vessel cap	acity		L		8		8		3		8	
Water flow temperatu	ure range	Max.	°C	5	55	5	5	5	5	5	5	
Water pipe connectio		Flow/Return	mm	Ø25.4	/Ø25.4	Ø25.4	/Ø25.4	Ø25.4	/Ø25.4	Ø25.4	/Ø25.4	
Electrical heater capa		Heating	kW		.0		.0		.0			
Outdoor unit specific		1				_			-			
Power source							Single phase,	~230 V. 50 H	7			
Current		Max.	l A	13	3.0		3.0		3.0	19	9.0	
Dimensions H × W × D)		mm		99 × 290		99 × 290		20 × 315			
Weight (Net)			kg		19		19		2			
		Type (Global Warming P			(675)		(675)		(675)			
Refrigerant		Charge	kg		.97		97		02			
Additional refrigerant	charge	1 3-	q/m		25		15		5			
geran		Liquid	J.		35		35		35	WOYA 1 9. 2. 4. 9. 3. 3. 8. 4. 1. 55 A++ 8 8 130 5,083 40 62 847 × 4! 4 13.2, 1 15 998 × 9. 6 R32 9. 15 3/ 2		
	Diameter	Gas	mm		.70		.70		.70			
Connection pipe	Length	Min./Max.	m		30		30		30			
cocetion pipe	Length (Pre-charge		m		15		5		5			
-	Height difference	Max.	m		10		10		0		20	
Operating range	ricigiit uirierence	Heating	°C		to 35		to 35		0 35			
											-	

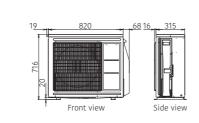
^{*1:} Heating capacity, input power, and COP are measured using the EN14511 Standard. Actual usage environments, such as the operating indues of the neating exproom temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.
*2: Information about ErP can be downloaded from our website at www.fujitsu-general.com/global/support/downloads/search/
*3: The sound power level values are based on EN12102 standard measurements under EN14825 standard conditions.

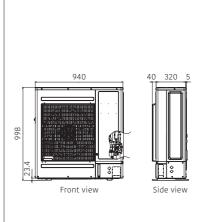
WOYA100KLT

Dimensions

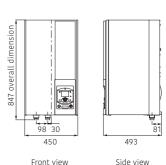












W-026 W-027

















High water flow temperature

The temperature of water flow is up to 55°C without a backup heater. Hot water supply temperature can be maintained even at -10°C outdoor temperature.

* If you want to raise the temperature of the water supply to above the maximum temperature, use a backup heater to supplement the primary heater.







Comfort series

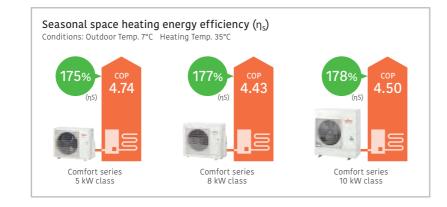
High COP

Heat pumps of ATW Systems work more efficiently and consume less energy than conventional heating systems.

Energy efficiency class



*Temperature application: Heating temp. 35°C





Indoor unit: WGYA050ML3 / WGYA080ML3 / WGYA100ML3

Outdoor unit:

WOYA060KLT / WOYA080KLT / WOYA100KLT





Outdoor unit

Outdoor unit Single phase

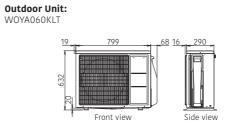
Specifications

Model Name					50ML3		080ML3		80ML3		100ML3
		Outdoor unit			D60KLT		060KLT	WOYA			100KLT
Capacity range							6				
		Heating capacity	kW	4.	50	5.	50	7.	50	9.50	
7°C/35°C floor heat	ing *1	Input power	KVV	0.9	949	1.	18	1.	59	2.	.11
		COP			74		65	4.		4.	50
		Heating capacity	kW	4.	50	5.	30	6.	30	9.	30
2°C/35°C floor heat	ing *1		KVV	1.	33	1.	65	1.	96	3.	08
		COP			39	3.	22	3.21		3.02	
	Again to the pacity range pacity range pacity range pacity range pacity range pacity range page page page page page page page pa	Heating capacity	kW		40	5.	00		70	8.	90
-7°C/35°C floor hea	Second	Input power	KVV	1.59			90		13	3.	36
	Cyase C floor heating *1				76		63		58		
		Heating capacity	kW		90		25		30		
-7°C/55°C Radiator	k ¹		NVV		.11		25		79		
		COP		1.	85	1.	89	1.90		8.90 3.36 2.65 8.00 4.10 1.95 55 A++ A 8 130 1,5083 3, 40	
			°C	55	35	55	35	55	35		35
				A++	A+++	A++	A+++	A++	A+++		A++
			kW	5	5	5	6	6	7		9
		/ (η _s)	%	125	175	125	175	128	177		178
Annual energy con			kWh	3,035	2,322	3,411	2,594	3,903	2,982		3,87
Sound power level			dB(A)	40	-	40	-	40	-		-
-	Outdoor unit		0509	57	-	57	-	60	-	62	_
	er characteristics*										
					L		L		-		
					+		(+	A+ 130			
		%		30		30					
			kWh	7	93	7	93	79	93	79	93
	cations										
							Single phase,				
	× D		mm		48 × 700	1,863 × 648 × 700			48 × 700		
			kg	145		145		145			
		Min./Max.	L/min		22.0	8.5/22.0					
DHW tank volume			L		90	190					
Flectrical heater ca	anacity		l kW		.0	3.0		3.			
		DHW			.5	1.5		1.5			.5
			L		6		6		6		6
			L		3		8		3		8
			°C		5		5		5		55
		Flow/Return	mm		/Ø25.4		/Ø25.4		Ø25.4		/Ø25.4
			mm	Ø1:	9.05	Ø1	9.05	Ø19	9.05	j Ø19	9.05
	incations										
Power source		T.,					Single phase,			1	
Current		Max.	A		3.0		3.0		.0		9.0
	× D		mm		99 × 290		99 × 290		20 × 315	998 × 94	
Weight (Net)			kg		9		(675)		2		(475)
Refrigerant					(675)		(675)	R32			(675)
		Charge	kg		97		97		02		63
Additional retriger	ant charge	Lii	g/m		5		15		5		20
	Diameter		→ mm -		35		35		35		52
					.70		.70		.70		.88
Connection pipe			m		30		30		30		30
			m		5		5		5		20
	Height difference		m		0		.0		0		0
Operating range		I Heating	°C	-20 1	to 35	-20	to 35	-201	0 35	ı -20 t	to 35

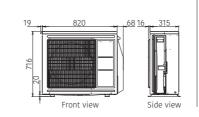
WOYA100KLT

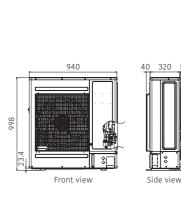
Dimensions

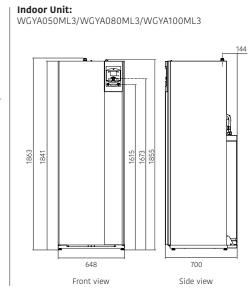
(Unit: mm)



WOYA080KLT







room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.

*2: Information about ErP can be downloaded from our website at www.fujitsu-general.com/global/support/downloads/search/

*3: The sound power level values are based on EN12102 standard measurements under EN14825 standard conditions.

















The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C.

* If you want to raise the temperature of the water supply to above the maximum temperature, use a backup heater to supplement the primary heater.







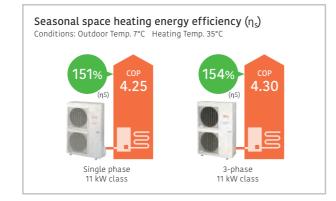
High COP

Heat pumps of ATW Systems work more efficiently and consume less energy than conventional heating systems.

Energy efficiency



*Temperature application: Heating temp. 35°C





Indoor unit: WSYG140DG6/ [3-phase]WSYK160DG9 WOYG112LHT / WOYG140LCTA [3 phase] WOYK112LCTA / WOYK140LCTA /WOYK160LCTA







Outdoor unit 3-phase 11/14/16 kW

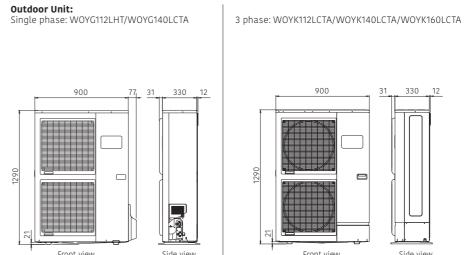
Specifications

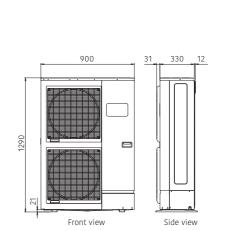
Model Name		Indoor unit		WSYG1	40DG6	WSYG1	40DG6	WSYK1	60DG9	WSYK'	160DG9	WSYK [*]	160DG9		
		Outdoor unit		WOYG	112LHT	WOYG1	40LCTA	WOYK1	12LCTA	WOYK1	40LCTA	WOYK1	60LCTA		
Capacity range				1	1	1	4	1	1	1	4	5.40 2.50 11.00 6.29 1.75 55 A+ 13 117 9.062 46 71	6		
		Heating capacity	kW		.80	13.	.50	10.	.80	13	.50	15	.17		
7°C/35°C floor heati	ng *1	Input power	T KVV	2.	54	3.	23	2.	51	3.	20	3.	.70		
		COP		4.	25	4.	18	4.	30	4.	22	4.	.10		
		Heating capacity	134/	10	.77	12.	.00	10	.77	13	.00	13	.50		
2°C/35°C floor heati	ng *1	Input power	kW	3.	44	3.	87	3.4	40	4.	.15	4.	.34		
	-	COP		3.	13	3.	10	3.	17	3.	.13	3	.11		
		Heating capacity		10.	.38	11.	54	10.	.38	12	.20	13	.50		
-7°C/35°C floor heat	ing*1	Input power	kW	4.	32	5.	08	4.	28	5.	.13	5.	40		
	3	СОР			40		27	2.			38				
		Heating capacity		7.			20		27		.10				
-7°C/55°C Radiator*	1	Input power	kW	4.	57	5	08	5.	09		65	6	29		
,		COP			66		81	1.8			79				
Space heating char	acteristics*2											2.50 11.00 6.29 1.75 35 55 A++ A+ 13 13 150 117 6,738 9,062 68 71 0 V, 50 Hz			
Temperature applica			°C	55	35	55	35	55	35	55	35	55	35		
Energy efficiency cl				A+	A++	A+	A+	A+	A++	A+		35 55 A++ A+ 13 13 150 117 7,738 9,062 7 46 8 71 7 27.4/54.			
Rated heat output (kW	9	11	11	13	9	11	11			A+ 14		
	ting energy efficiency	/ (n.)	%	112	151	113	148	112	154	117			149		
Annual energy cons		/ \ ¹ 15/	kWh	6,704	6,062	8,041	6,824	6,669	5,930	7,803			7,408		
	Indoor unit				6	46		46		46					
Sound power level	Outdoor unit		dB(A)		8		9	69	68	70					
Indoor unit specific					0		7	07	00	10	1 00	· '			
Power source	ations			Sin	nla nhaca	, ~230 V, 50	Н7	Γ		R_nhaca ~/	100 V 50 H	17			
Dimensions H × W ×	r D		mm	3111		50 × 457	112	1				12			
Weight (Net)	· D		kq			42					12				
Water circulation		Min./Max.	L/min	10.5			/40.7	10.5	/20.0			27.4	/F.4.0		
		IVIIII./IVIdX.		19.5/39.0 24.4/48.7			/48./	19.5/39.0 24.4/48.7 27.4 ₁				/54.8			
Buffer tank capacity	<u> </u>		L			16		-							
Expansion vessel ca			L			8					8				
Water flow tempera		Max.	°C			50		60 Ø25.4/Ø25.4							
Water pipe connect		Flow/Return	mm			/Ø25.4									
Electrical heater ca		heating	kW		6.0 (3.0 k	W × 2 pcs.)				9.0 (3.0 K)	N × 3 pcs.)	+ A+ A+ 3 13 13 13 13 13 13 13 15 117 15 15 17 15 17 17 17 17 17 17 17 17 17 17 17 17 17			
Outdoor unit specif	hcations														
Power source		1				,~230 V, 50				3-phase, ~4					
Current		Max.	A	22	2.0	25	5.0		.0	9	.5	10).5		
Dimensions H × W ×	D		mm					1,290 × 9	00 × 330						
Weight (Net)			kg		9	92					19				
Refrigerant		Type (Global Warming I	otential)					R410A							
-		Charge	kg					2.							
Additional refrigera	nt charge		g/m					5	0						
	Diameter	Liquid	mm					Ø9	.52						
	Diametel	Gas	7 '''''					Ø15	.88						
Connection pipe	Length	Min./Max.	m					5/	20						
	Length (Pre-charge)	m					1	5						
	Height difference	Max.	m	İ				1	5						
Operating range		Heating	°C					-25 t	:0 35						

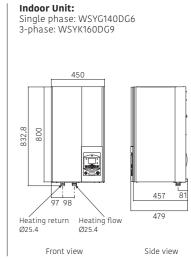
^{*1:} Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.
*2: Information about ErP can be downloaded from our website at www.fujitsu-general.com/global/support/downloads/search/

Dimensions

(Unit: mm)























High water flow temperature

The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C.

 $\mbox{\ensuremath{^{\star}}}$ If you want to raise the temperature of the water supply to above the maximum temperature, use a backup heater to supplement the primary heater.







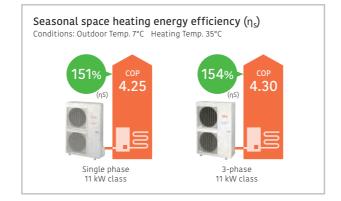
High COP

Heat pumps of ATW Systems work more efficiently and consume less energy than conventional heating systems.

Energy efficiency

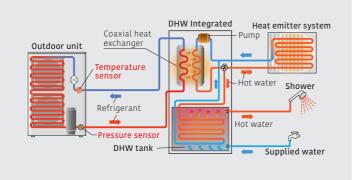


*Temperature application: Heating temp. 35°C



Optimized refrigerant cycle operation

The high power series deliver high performance and efficiency with twin sensors and hot water heating technology.



Indoor unit:

WGYG140DG6/ [3-phase]WGYK160DG9

WOYG112LHT / WOYG140LCTA [3 phase] WOYK112LCTA / WOYK140LCTA / WOYK160LCTA

DHW Integrated Single phase/ 3-phase



Outdoor unit



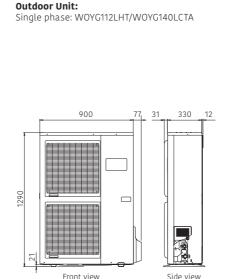
Specifications

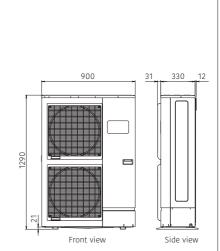
		Indoor unit Outdoor unit			140DG6 112LHT	WGYG1		WGYK1 WOYK1			160DG9 40LCTA		160DG9 160LCTA
Canacity range		Outdoor diffe			1		4		1		4		16
Capacity range		Heating capacity		10.		13.		10.			.50		5.17
7°C/35°C floor heati	na *1	Input power	kW		54		23	2.			20		.70
/ C/35 C ILUUI IIEALI	ilg "	COP			25	4.		4.:			.22		.10
			1		.77	12.		10.			.00		.50
200/2000 8	+1	Heating capacity	kW		44								.34
2°C/35°C floor heati	ng *	Input power				3.1			40		.15		
		COP	_		13	3.			17		.13		.11
		Heating capacity	kW		.38	11.		10.			.20		.50
-7°C/35°C floor heat	ing*'	Input power			32	5.0		4.:			.13		.40
		COP			40	2		2.4			38		.50
		Heating capacity	kW	7.		9.2		9.:			1.10		.00
-7°C/55°C Radiator*	1	Input power		4.		5.0		5.0			.65		.29
		COP		1.	66	1.8	81	1.8	82	1.	79	1.	.75
Space heating char													
Temperature applic			°C	55	35	55	35	55	35	55	35	55	35
Energy efficiency cl				A+	A++	A+	A+	A+	A++	A+	A++	A+	A+
Rated heat output	(P _{rated})		kW	9	11	11	13	9	11	11	13	13	14
Seasonal space hea	iting energy efficienc	y (η _s)	%	112	151	113	148	112	154	117	150	117	149
Annual energy cons	umption		kWh	6,704	6,062	8,041	6,824	6,669	5,930	7,803	6,738	9,062	7,40
C	Indoor unit		10(4)	4	-6	4	6	4	6		16	4	16
Sound power level	Outdoor unit		dB(A)	6	8	6	9	69	68	70	68	7	71
Domestic hot wate	r characteristics*2												
Load profile								1					
Energy efficiency cl	255								7				
Energy efficiency(n			%						8				
Annual electricity of			kWh					11					
Indoor unit specific									00				
Power source	Lucions			Sin	nle nhase	~230 V, 50	H ₇	Τ		R-nhase ~	400 V, 50 H	17	
Dimensions H × W >	(D		mm	5111	igic pilase,	230 1,30	112	1,840 × 6		priase,	100 0, 30 11	12	
Weight (Net)			kg						52				
Water circulation		Min./Max.	L/min	10.5	/39.0	24.4	/28.7	19.5/		24.4	/48.7	27.4	/54.8
DHW tank volume		IVIIII./IVIdX.	L/IIIIII	19.5/	39.0	24.4)	20.1			24.4	/40./	21.4	/54.0
DHVV Latik volutile		1114:	L	 		,		15	90		9		
Electrical heater ca	pacity	Heating	kW		-	6			-		9		
D (C	-	DHW	+						.5				
Buffer tank capacit			L						6				
Expansion vessel ca		1	L						2				
Water flow tempera		Max.	°C						0				
Water pipe connect		Flow/Return	mm						/Ø25.4				
Hot water pipe con			mm					Ø19	9.05				
Outdoor unit speci	fications												
Power source						~230 V, 50					400 V, 50 H		
Current		Max.	A	22	2.0	25	.0		.0	9	.5	10	0.5
Dimensions H × W >	< D		mm					1,290 × 9	00 × 330				
Weight (Net)			kg		9	2				9	9		
Refrigerant		Type (Global Warming F	otential)					R410A	(2,088)				
Kerrigerani		Charge	kg					2.	50				
Additional refrigera	int charge		g/m					5	0				
		Liquid						Ø9	.52				
	Diameter	Gas	mm					Ø15	5.88				
Connection pipe	Length	Min./Max.	m					5/:		-			
zzeccion pipe	Length (Pre-charge		m						5				
	Height difference	Max.	m						5				
		I TYLCL A.	1 111										
Operating range		Heating	°C					-25 t	0.25				

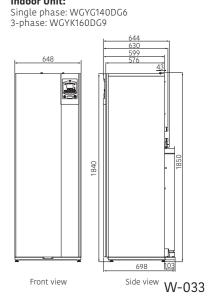
^{*2:} Information about ErP can be downloaded from our website at www.fujitsu-general.com/global/support/downloads/search/

3 phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA

Dimensions







Indoor Unit:

Split Type Wall Mounted type















High water flow temperature

The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C. The system can supply 55°C water without a backup heater at an outdoor temperature of -22°C.

* If you want to raise the temperature of the water supply to above the maximum temperature, use a backup heater to supplement the primary heater.



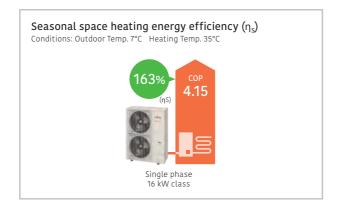
Super High Power series

High COP

Heat pumps of ATW Systems work more efficiently and consume less energy than conventional heating systems.

Energy efficiency





Operating range extended to -25°C

Operating range improved down to -25°C outdoor temperature



Indoor unit:

WSYG160DJ6 / [3-phase] WSYK170DJ9

Outdoor unit:

WOYG160LJL

[3-phase] WOYK150LJL / WOYK170LJL



Wall Mounted Single phase/ 3-phase



Outdoor unit Single phase 16 kW 3-phase 15/17 kW

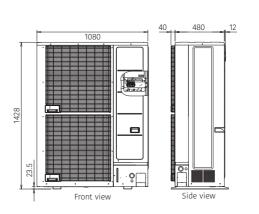
Specifications

		Indoor unit		WSYG1	160D16	WCVK	170DJ9	WCAK-	170DJ9			
	Name Outdoor unit ty range Heating capac			WOYG			150LJL	WOYK170LJL				
Canacity range		Outdoor diffe		1			5		7			
capacity range	S°C floor heating *1 Heating capa Input power COP Heating capa			16.			.00		00			
7°C/35°C floor heat	ina *1		- kW	3.8			46	4.10				
-,	y range If floor heating *1 If floor heating capar Input power COP Heating capar Input power COP Heating capar Input power COP eating characteristics *2 ature application efficiency class eat output (P _{tates}) If space heating energy efficiency (\(\eta_i\)) energy consumption ower level Indoor unit Outdoor unit unit specifications ource ons H × W × D (Net) irculation Min./Max. ank capacity on vessel capacity on vessel capacity on weten perature range ipe connection diameter al heater capacity r unit specifications ource Max.			4.			33	4.15				
			$\overline{}$	13.			.20		.50			
2°C/35°C floor heat	Heating capacity Input power COP Heating Input power In	_ , ,	kW	4.3			06		27			
2 6/55 6 11001 11641				3.			25					
	or heating *1 linput power COP Heating capac Input power COP Heating capac Input power COP GOP Heating capac Input power COP Input power Input power COP Input power COP Input power COP Input power Input power COP Input power Input power COP Input power In			14.			.20	3.16 15.00				
-7°C/35°C floor heat	Aget Name Aget y range Heating capacity Input power COP Input power COP Heating capacity Input power Input power COP Heating capacity Input power Input p		- kW	5.3			55		32			
- C/33 C Itool liea				2.			90		82			
			10.			.20		.20				
7°C/EE°C Dadiator*			- kW	5.8	-		77		40			
-/ C/33 C Naulatul				1.8			95		92			
Snace heating cha		CUP		1.0	J.J.	1.	7.3	1.	7.6			
			°C	55	35	55	35	55	35			
			1	A++	A++	A++	A++	A++	A++			
			kW	14	16	16	17	17	18			
		ncu (n)		kW 14 % 125 kWh 8,757	163	130	164	130	161			
		IILY (I)S)			8,014	9,915	8,606	10,232	9,059			
Allituat ellergy cons			KVVII		45	45	45	45	45			
Sound power level			- dB(A) -	67	66	67	66	67	68			
Indoor unit coocifi				01	00	07	00	07	08			
Power source	Cations			Single phase,	~230 V 50 Hz		3-nhase ~	100 V, 50 Hz				
	x D		mm	805 × 45				50 × 471				
			kg	52				2.5				
		Min /May	L/min	26.4/		24.0	/54.2		/61.4			
	7/	I-IIII,/I-Iux.	L	20.4/		24.0		12	701.4			
			L	11				10				
		Max	°C	6	-							
			mm	Ø25.4/				60 .4/Ø25.4				
			kW	6.0 (3.0 kV				N × 3 pcs.)				
		neating	KVV	0.0 (3.0 KV	v ^ 2 pcs.)		9.0 (3.0 K)	/v ^ 3 pcs.)				
Power source	incacions			Single phase,	~220 V E0 Uz		2-phace ~	100 V, 50 Hz				
Current		Max	A	28		1/	1.0		l.0			
	v D	IVIGA.	mm	1,428 × 1,0			080 × 480	1,428 × 1,				
Weight (Net)			kq	1,420 ^ 1,0			38		38			
J ()		Tyne (Global Warming		15	/1		(2,088)	1	,,,			
Refrigerant	Max. ons H × W × D (Net) Type (Global Wai		kg	3.8	30		80	2	80			
Additional refriger:	ons H × W × D (Net) ant Type (Global Wari Charge	charge	g/m	5.0			10		0			
toorcionat remiger	nns H × W × D Net) Int Type (Global W Charge al refrigerant charge	Liquid	9/111				0.52		.52			
	nk capacity n vessel capacity w temperature range		- mm -	Ø15			5.88		5.88			
Connection nine			m	5/:			30		30			
connection pipe			m	5/. 1			5		5			
	at output (P _{rated}) space heating energy efficiency (n _c) nergy consumption wer level Indoor unit Outdoor		m	- 1			១ nit: Upper/Lower)		J			
Operating report	I meight differenc		°C	0.5.4				0.54	. 25			
operating range		neating	J -C	-25 t	U 35	-251	10 35	-25 1	10 35			

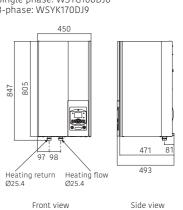
^{*1:} Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.
*2: Information about ErP can be downloaded from our website at www.fujitsu-general.com/global/support/downloads/search/

Dimensions

Single phase: WOYG160LJL 3-phase: WOYK150LJL/WOYK170LJL



Indoor Unit: Single phase: WSYG160DJ6 3-phase: WSYK170DJ9



Split Type DHW Integrated type

















High water flow temperature

The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C. The system can supply 55°C water without a backup heater at an outdoor temperature of -22°C.

* If you want to raise the temperature of the water supply to above the maximum temperature, use a backup heater to supplement the primary heater.







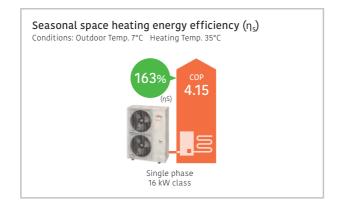
Super High Power series

High COP

Heat pumps of ATW Systems work more efficiently and consume less energy than conventional heating systems.

Energy efficiency





Operating range extended to -25°C

Operating range improved down to -25°C outdoor temperature



Indoor unit:

WGYG160DJ6 / [3-phase] WGYK170DJ9

Outdoor unit:

WOYG160LJL

[3-phase] WOYK150LJL / WOYK170LJL



DHW Integrated Single phase/ 3-phase



Outdoor unit Single phase 16 kW 3-phase 15/17 kW

Specifications

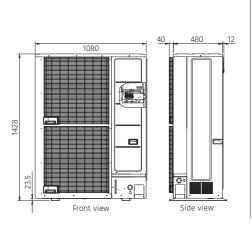
					5160DJ6 5160LJL		170DJ9	WGYK170DJ9 WOYK170LJL							
C		Outdoor unit					150LJL	17							
Capacity range					16		15		17.00						
706/0506 0	Heating *1 Input pr COP Heating		kW		5.00		.00	4.10							
/°C/35°C floor heat	acity range Hea Inpu COP (COP Heating *1 Inpu COP (COP Heating *1 Inpu COP (COP Heating *1 Inpu COP (COP Heating *1 Inpu COP (COP Heating *1 Inpu COP (COP Heating the Heating *1 Inpu COP (COP Heating the Hea				.86		46	4.10							
	Thame Outdoor up		_		1.15		.33								
	ity range "C floor heating *1 Heating capa Input power COP heating capa Input power COP "C floor heating *1 Heating capa Input power COP Learny consumption Indoor unit output (Prase) Input power level Indoor unit Outdoor unit output (Prase) I learny consumption I learny c				3.30		.20		.50						
2°C/35°C floor heat	Name ty range C floor heating *1 Input power COP Heating capa Input power Input power Input power COP Heating capa Input power Input power Input power COP Heating capa Input power Input power Input power COP Heating capa Input power				.25		06		.27						
	Ame yrange If floor heating *1 If floor heating capa in floor provided floor f				3.13		.25		.16						
	Trange Heating capa Input power COP Heating Indoor unit Indoor uni	Heating capacity	- kW		1.50		.20		.00						
-7°C/35°C floor hea	ting*'				.27		.55		.32						
	range floor heating *1 floor heating capa linput power COP Heating capa linput power linput power level lindoor unit linput power level lingut				.75		90		82						
	pacity range	Heating capacity	kW		0.90		.20		.20						
-7°C/55°C Radiator			N.VV		.89		.77		40						
apacity range "C/35°C floor heating *1 "C/35°C floor heating *1 "C/35°C floor heating *1 "C/35°C floor heating*1 "C/55°C Radiator*1 pace heating characteristics*2 emperature application nergy efficiency class ated heat output (Pratea) easonal space heating energy effi nnual energy consumption ound power level Outdoor unit tomestic hot water characteristic oad profile nergy efficiency class nergy efficiency tynth nnual electricity consumption door unit specifications ower source imensions H × W × D Veight (Net) Vater ficulation IHW tank volume lectrical heater capacity uffer tank capacity xpansion vessel capacity vater pipe connection diameter lot water pipe connection diameter		COP		1.	.85	1.	85	1.	92						
	pacity range C/35°C floor heating *1 Input pow COP Heating co Input pow CoP Input pow COP Heating co Input pow CoP Heating co Input pow CoP Input pow CoP Input pow CoP Heating co Input pow CoP Heating co Input pow CoP Heating co Input pow CoP Input pow CoP Heating co Input pow CoP Heating co Input pow CoP Input		°C	55	35	55	35	55	35						
	c/35°C floor heating *¹ leg col determine the color leg determine the			A++	A++	A++	A++	A++	A++						
	C/35°C floor heating *¹ C/35°C floor heating *¹ C/35°C floor heating *¹ **C/35°C floor heating*¹ **C/55°C Radiator*¹ **Dace heating characteristics*² **Imperature application **Imperature characteristics*² **Imperature characteristics*² **Imperature characteristics*² **Imperature characteristics*² *Imperature characteristics*² *Im		kW	14	16	16	17	17	18						
Seasonal space hea	ating energy efficiency	(η _s)	%	125	163	130	164	130	161						
Annual energy con:	Outdoor unit pacity range C/35°C floor heating *1 C/35°C floor heating *1 C/35°C floor heating *1 C/35°C floor heating *1 Example 1 Example 2 Example 3 Example 3 Example 3 Example 4 Example 4 Example 4 Example 5 Example 5 Example 6 Example 6 Example 6 Example 7 Example 8 Example 7 Example 8 Example 7 Example 7 Example 7 Example 7 Example 7 Example 8 Example 7 Example 7 Example 7 Example 7 Example 7 Exam		kWh	8,757	8,014	9,915	8,606	10,232	9,059						
Cound nower laws			dB(A)	45	45	45	45	45	45						
Soming bower rever			J GR(Y)	67	66	67	66	67	68						
Domestic hot water															
Load profile							Ĺ								
Energy efficiency c	lass						A								
			%			1	09								
	al energy consumption d power level Indoor unit Outdoor unit estic hot water characteristics*2 profile gy efficiency class gy efficiency (nwh) al electricity consumption or unit specifications or source nsions H × W × D ht (Net) r circulation Min./Max. tank volume		kWh	941											
Power source				Single phase	, ~230 V, 50 Hz		3-phase. ~	400 V, 50 Hz							
	× D		mm		,	1.841 × 6	648 × 698	,							
	file fficiency class fficiency (ηwh) ectricity consumption nit specifications urce ss H × W × D Net) culation k volume Libertor conscient Heating		kg				66								
		Min./Max.	L/min	26.4	1/57.8		/54.2	27.3	/61.4						
		1	1	20.	.,01.0		90	21.0	,						
		Heating	+	6 U (3 U h	W × 2 pcs.)			W × 3 pcs.)							
Electrical heater ca	apacity		kW	0.0 (3.0 K	vv ·· 2 pcs.j	1	.5	vv 3 pcs./							
Ruffer tank canacit	tv	DITT	- L	-											
	ht (Net) re circulation Min./Max. tank volume rical heater capacity Heating DHW Per tank capacity		1	1		22 12									
		Max	°C	-			50								
							/Ø25.4								
		rtow/Ketuili	mm	-			9.05								
			mm			W I	7.UJ								
	IIICALIONS			Cinala phasa	, ~230 V, 50 Hz		2 phace	400 V E0 Uz							
	Input power COP	May	Τ Δ					400 V, 50 Hz							
		IVId.X.	A		8.0			4.0							
			mm		,080 × 480			080 × 480							
vveignt (Net)		T (Clabal M/ ' '	kg		(2.000)			38							
Refrigerant					(2,088)			(2,088)							
	al heater capacity ank capacity on vessel capacity ow temperature range ple connection diameter runit specifications ource Max. Max. Max. Max. Max. Max. Max. Max. In the proper connection of the proper connection of the proper connection of the proper connection of the properties of the pr	criarge	kg		.80			.80							
Additional retrigera	unit specifications ource ions H × W × D (Net) ion vessel capacity low temperature range ion vessel capacity ource ions H × W × D (Net) ion wessel capacity low temperature range ion vessel capacity low temperature range ion vessel capacity ion ve		g/m		50			50							
	energy consumption Indoor unit Outdoor unit Indoor unit Outdoor unit Indoor un		mm		9.52			9.52							
	COP Heating c CO				5.88	015.88									
Connection pipe			m		/30			/30							
			m		15			15							
	power level Outdoor unit stic hot water characteristics*2 orofile y efficiency class y efficiency (nyh) I electricity consumption r unit specifications source sisons H × W × D it (Net) circulation Min,/N tank volume ical heater capacity flow temperature range Max. pipe connection diameter Flow/F ater pipe connection diameter or unit specifications source tit (Net) flow temperature range Max. pipe connection diameter Flow/F ater pipe connection diameter or unit specifications source tt (Net) erant Max. Itype (C Charge onal refrigerant charge Diameter Liquid Gas Length Min,/N Length (Pre-charge) Height difference Max. ting range		m												
			°C		to 35		2.5	to 35							

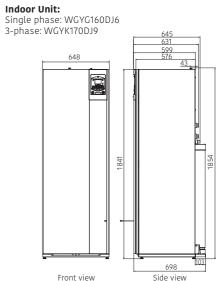
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*2: Information about ErP can be downloaded from our website at www.fujitsu-general.com/global/support/downloads/search/

Dimensions

Outdoor Unit:

Single phase: WOYG160LJL 3-phase: WOYK150LJL/WOYK170LJL





W-037



What Each Indoor Unit Can Do



Indoor unit control box*

If you want to update your system by reusing your existing pump and buffer tank, etc., you can do so by installing only the control box.



Indoor unit Wall mounted

Stands for preparation of heating water for under floor heating and radiators. It can optionally operate with domestic hot water tank.



Indoor unit Domestic Hot Water integrated

Can be used with a variety of heating systems, including under floor heating and radiators. Space saving heating and DHW supply in a single indoor unit.

*The control box can only be selected for Monobloc outdoor units.

Types of Indoor Units



Compatibility for Monobloc type Comfort series



Indoor unit type	Control box	Wall mounted	DHW integrated
Housing Equipment			
Under floor heating	0	•	•
Radiator	0	•	•
Fan coil	0	•	•
Bath	0	0	•
Shower	0	0	•
Hot Water	0	0	•



Compatibility for Split type Comfort series, High power series Super high power series



Indoor unit type Housing Equipment	Wall mounted	DHW integrated
Under floor heating	•	•
Radiator	•	•
Fan coil	•	•
Bath	0	•
Shower	0	•
Hot water	0	•

- $\ensuremath{\bullet}$: It can be used by constructing a system using options and carrying out water piping work.
- O: It can be used by constructing a system using options and carrying out water piping work, by reusing (or locally procuring) existing pumps and tanks, etc. Housing Equipment requires the preparation of separately sold products.



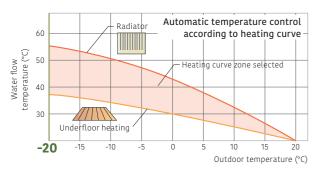
Comfort Control

Useful Features

Flow temperature control with weather compensation

Automatic heating curve control

Automatic temperature regulation according to heating curve (depending on heating terminal and outdoor temperature)



Auto changeover

When Auto mode is selected, the system automatically switches between cooling and heating modes depending on the outdoor temperature to serve as an all-season air conditioner.

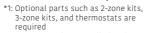


Quick recovery from defrosting

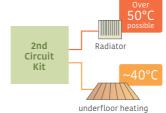
Maintains room temperature by boost start operation during defrosting.

2-zone independent control

2-zone independent control (For example, the individual control of 2 underfloor heating zones or the combination of 1 underfloor heating zone and 1 radiator zone)*1*2



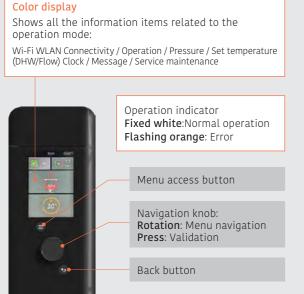
*2: 3 Zones can be controlled in the Control Box



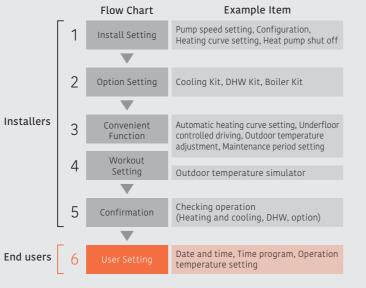
Backup heater operation

Backup heater maintains a comfortable room temperature even when the outside temperature is low. The backup heater is intelligently controlled as a safety backup for very cold days and nights, and only operates when really needed.

Controller with a clear color display and simple icons for easy function setting



Main operation flow and settings for installers and end users



Energy Saving

Away mode

It will set heating and DHW mode to the frost protection* during the selected period:

- -If you activate away mode on HMI: You can choose start and end time/date.
- -If you activate away mode on Room thermostat (option): You can choose start and end time/date, as well as room setpoint during away period.
- *: The protection mode automatically prevents an excessively sharp drop in room temperature.

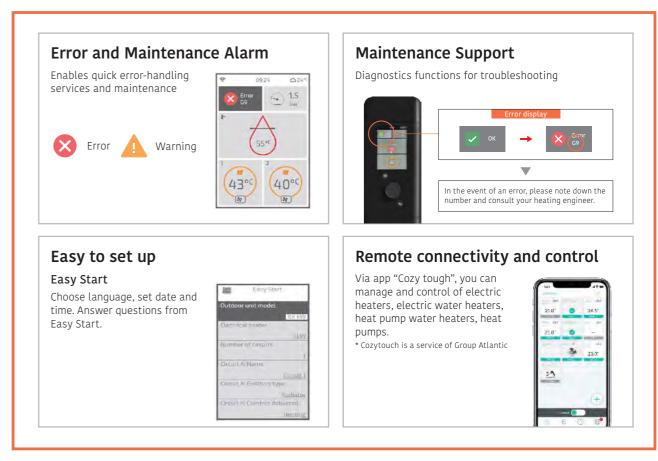
Safety Features

Anti-freeze function

When the outside temperature drops below a specified level, the outdoor unit water pump will self-activate and water will also be automatically circulated to prevent freezing.

Easy Installation & Maintenance

- All hydraulic safety and control components are built in with no additional selection required.
- Easy access for maintenance
- Refrigerant pump down operation



Type-A

Optional Parts & Control Overview

To meet the diverse needs of customers, we offer a variety of control options, such as individual control and remote control options.





for Indoor unit



Electrical backup heater relay

UTW-KBHXQ

It allows the backup heater for heating at 3 kW as standard can be

for Locally units



Second Circuit Kit

It can supply hot water at different temperatures to each two types of heating equipment, such as radiators and underfloor heating.







UTW-KZDXQ

UTW-KZC2XQ

Boiler Connection Kit

It can build hybrid systems using both boilers and heat pumps. Boiler and heat pumps are switched according to outside air temperature.



UTW-KBCXQ

for Outdoor unit



Drain pan

UTW-KDPXQ

It is used to collect and drain condensation water generated by outdoor units.



Antivibration Rubber feet

UTW-KARXQ

It reduces vibration caused by the operation of compressors and other equipment, and suppresses the generation of noise.



Antifreezing valve for Monobloc

UTW-KAVXQ When water

When water pipes freeze, the internal pressure increases and the pipes are purged to prevent parts from breaking.

for DHW



Required to connect locally purchased

DHW Kit

water.

DHW tanks to air to

UTW-KDWXQ UTW-KDWCXQ



DHW tank

200 Liters: UTW-T20AXH / UTW-T20BXH 300 Liters: UTW-T30AXH / UTW-T30BXH The BXH series is a more efficient tank than the AXH series.



DHW Expansion Kit

UTW-KDEXQ

The expansion vessel(18L) for connection to DHW water piping.

Service & Maintenance Tool Service Monitor Tool UTY-ASSXZ1



Indoor unit Controller DHW Integrated

Monobloc type Comfort series

Individual Control

Room thermostat

An optional wireless thermostat allows remote control of the ATW system away from the indoor units. Can also be operated from mobile apps.



Wired power supply UTW-C225XQ



Battery power supply UTW-C228XQ





Type-A Optional Parts List

Pr	oduct Name	Model Name		Comfor	oc Type t series	
			Contoll Box	1: Wall Mounted	Ø DHW Integrated	Outdoor Unit
Second Circuit Kit		UTW-KZSXQ		⊕ # ³		
DHW Kit		UTW-KDWXQ		•		
Second Circuit Kit		UTW-KZDXQ			••1	
DHW Loop Kit		UTW-KDLXQ			•	
DHW Expansion Kit		UTW-KDEXQ			•	
Outdoor temperature sensor		UTW-KESXQ	•	•	•	
Condensation detection sensor	TO	UTW-KCDXQ	•	•	•	
Regulation Extension Kit		UTW-KREXQ	•	•	•	
Electrical Backup heater relay		UTW-KBHXQ		•	•	
	Wired power supply	UTW-C225XQ	•	•	•	
Room thermostat	Battery power supply	UTW-C228XQ	•	•	•	
	Cover Plate for thermostat	UTW-KCPXQ	•	•	•	
Drain pan		UTW-KDPXQ				•
Antivibration Rubber feet		UTW-KARXQ				•
Antifreezing valve for Monobloc		UTW-KAVXQ				•

				Monob Comfor	t series	
		Model Name	Contoll Box		Ø DHW Integrated	Outdoor Unit
ingle Circuit Kit	(×1)	UTW-KZC1XQ	•			
ocond Circuit Vit	(×2)	UTW-KZC2XQ				
econd Circuit Kit —	(×1)	UTW-KZCZAQ	•			
_	(×3)					
hird Circuit Kit	(×2)	UTW-KZC3XQ	•			
	(×1)					
oiler Connection Kit		UTW-KBCXQ	•			
HW Kit		UTW-KDWCXQ	•			
ackup Heater Kit		UTW-HB6CXQ	•			
J.M.	200 Liters 300 Liters	UTW-T20AXH UTW-T30AXH	•	•		
HW tank —	200 Liters 300 Liters	UTW-T20BXH UTW-T30BXH	•	•		

 $[\]ensuremath{^{\star} \! 1}\!:$ Regulation extension kit (UTW-KREXQ) is not included but is required for connection.

Туре-В

Comfort Control

The high-grade heating controller automatically adjusts the flow temperature according to the climate conditions to maintain the room and domestic hot water temperatures at the desired levels.

Indoor unit Controller

4 Heating modes

1. Automatic mode

Enables automatic switching between Comfort mode and Reduce mode according to time program

2. Reduce mode

Maintains water temperature at a lower level

3. Comfort mode

Maintains water temperature at a comfortable level

4. Protection mode

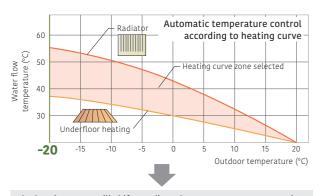
Activates frost protection in standby operation



Useful Features

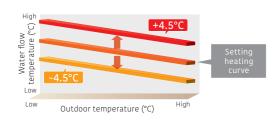
Automatic heating curve control

Automatic temperature regulation according to heating curve (depending on heating terminal and outdoor temperature)



The heating curve will shift to adjust the room temperature setting.

Can be fine-adjusted when it is too warm or too cold.



Quick recovery from defrosting

Maintains room temperature by boost start operation during defrosting.

Auto changeover

When cooling mode is selected, the system automatically switches between cooling and heating modes depending on the outdoor temperature to serve as an all-season air conditioner.

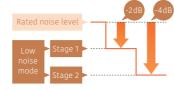
2-zone independent control

2-zone independent control (For example, the individual control of 2 underfloor heating zones or the combination of 1 underfloor heating zone and 1 radiator zone)*1
*1: Optional parts required



2-stage low-noise mode

The outdoor unit can be switched to quiet mode, depending on the installation environment. *Effective only for high power series



Backup heater operation

Backup heater maintains a comfortable room temperature even when the outside temperature is low. The backup heater is intelligently controlled as a safety backup for very cold days and nights, and only operates when really needed.

* Optional parts is needed for high power series.

Energy Saving

Time program

- The timer is easy to set.
- You can select the heating mode in conjunction with various times of the day.

Day-weekly timer

- Allows up to 3 settings per day.
- Allows individual settings for each day of the week.

Holiday timer

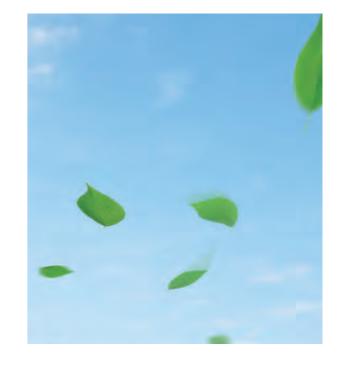
- Allows up to 8 settings.
- While you are away from home for an extended period during winter, the system prevents your room or house from freezing.

Peak cut Function*2

Sets the peak current value to reduce power consumption.

Mode	Ratio to reduce power consumption
1	100%
2	75%
3	50%
4	Almost 0%

 $[\]mbox{*}$ Please refer to page W-054 and W-055 for optional parts information.



Safety Features

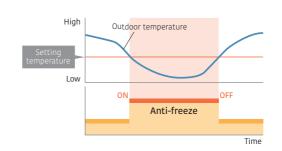
Anti-Legionella function

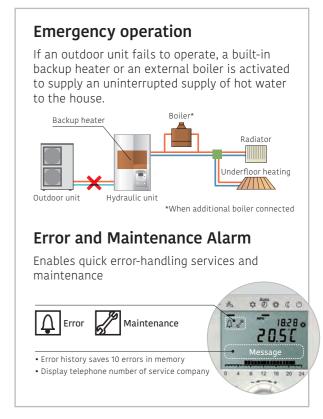
Prevents the growth of Legionella bacteria in the DHW tank to supply safe and clean hot water at all times.



Anti-freeze function

When the outside temperature drops below a specified level, the compressor will self-activate and water will also be automatically circulated to prevent freezing.



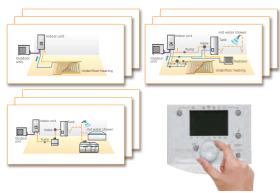


туре-В

Simple installation

Presetting configurations

A controller installed makes it easy to configure the system without having to set each component or unit individually.



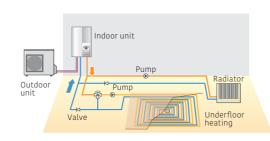
8 simple patterns for system presetting (Pair of heating: 12 patterns)

Configuration (Parameter 5700)	Installation type
Presetting 1	1 heating circuit
Presetting 2	2 heating circuits
Presetting 3	1 heating circuit with boiler backup
Presetting 4	2 heating circuits with boiler backup
Presetting 5	1/2 heating circuit with buffer control
Presetting 6	1/2 heating circuit with buffer control and boiler backup
Presetting 7	Cascade connection Primary
Presetting 8	Cascade connection A
Presetting 9	Cascade connection B/C

- DHW & solar control auto detection
- Cascade connection only available in High Power models.

Outdoor temperature simulation

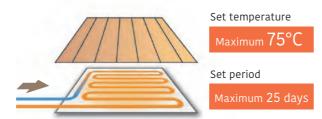
It verifies that each unit operates properly under the set conditions and expected outdoor air temperature when the system is actually assembled.



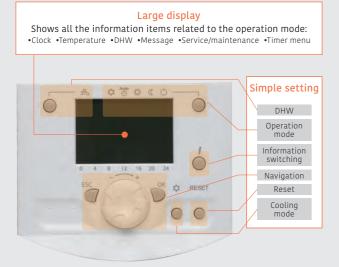
The outdoor temperatures can be simulated in the range of -50 $^{\circ}\text{C}$ to +50 $^{\circ}\text{C}$.

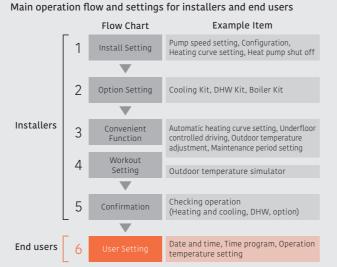
Concrete floor drying

Allows the concrete surrounding the hot-water pipes to dry more quickly, shortening the construction period for underfloor heating installations.



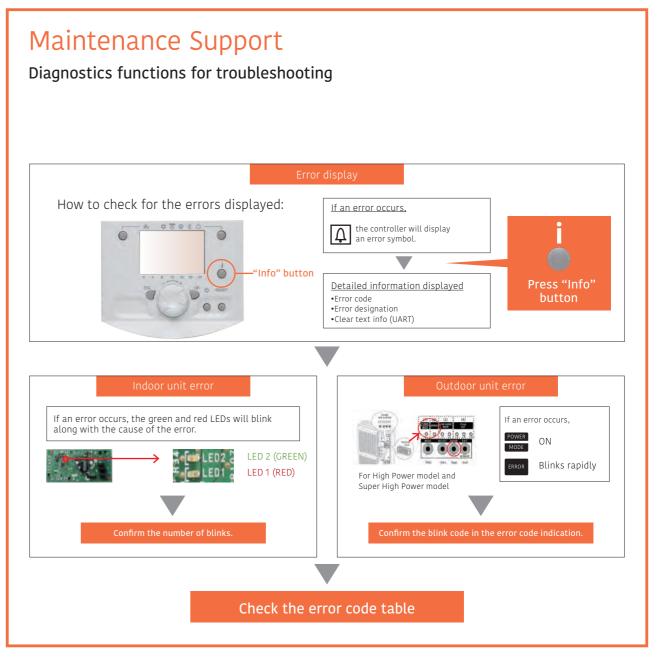
Controller with a large liquid crystal display and buttons for easy function setting





Easy Installation & Maintenance

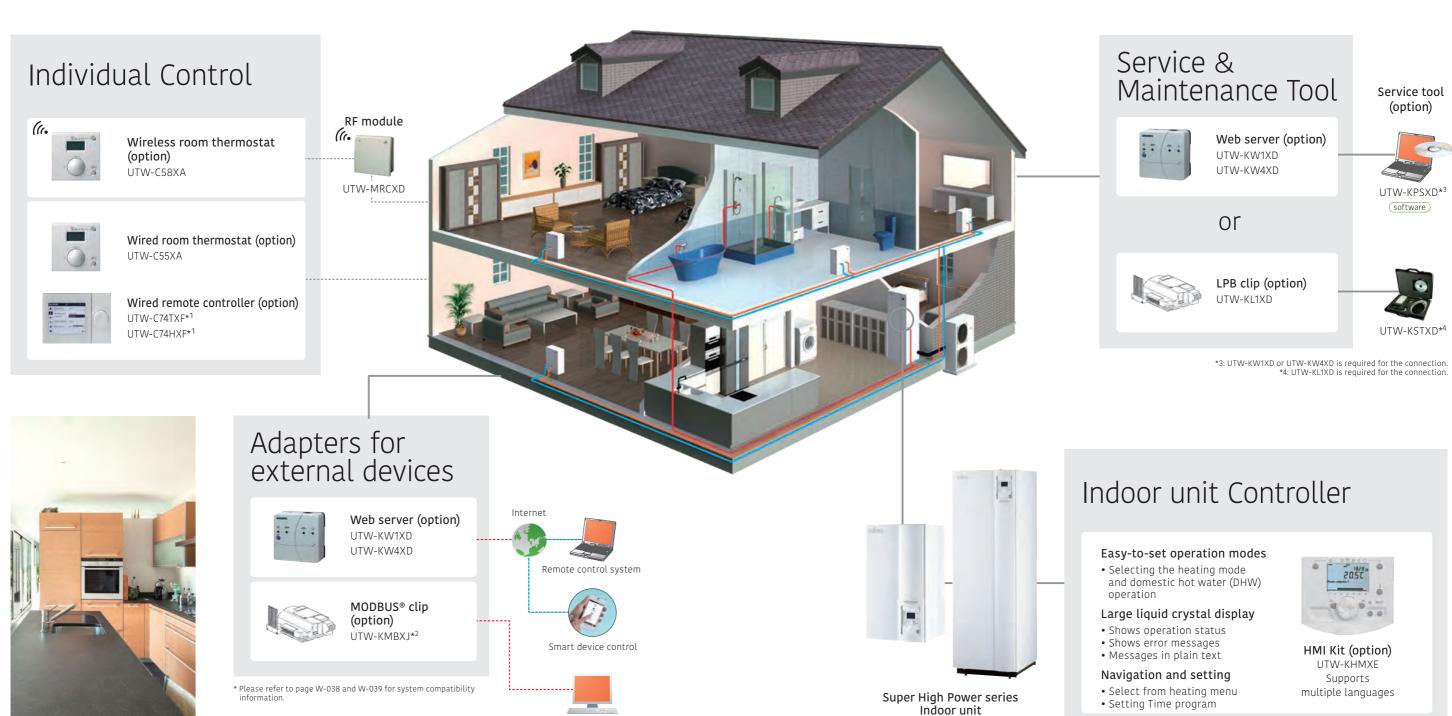
- · All hydraulic safety and control components are built in with no additional selection required.
- · Lifting bars for installation free of difficulty or risk
- · Easy access for maintenance
- · Refrigerant pump down operation



Control Overview

To meet the diverse needs of customers, we offer a variety of control options, such as individual control and remote control options.



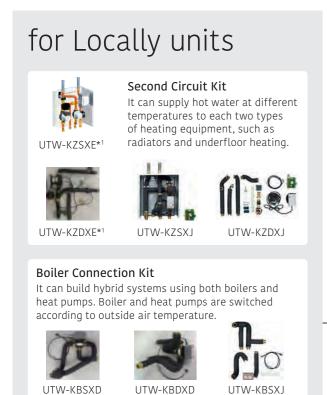


W-050

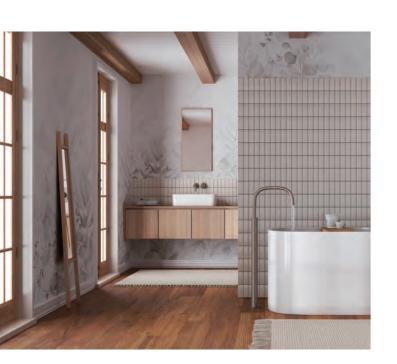
Home automation system

Optional Parts Overview

Various optional parts are available to use ATW according to needs and environments.



^{*1:} The UTW-KREXD (Regulation Extension Kit) is not included but is required for connection.





for Outdoor unit



Drain pan

UTW-KDPXB
It is used to collect and drain condensation water generated by outdoor units.

External Connection Kit



UTY-XWZXZ2 / UTY-XWZXZ3
The signal input (low noise mode, peak cut) and signal output (compressor operation, base pan heater control) for outdoor units are possible externally.

for Indoor unit



Circulating pump

UTW-PHFXG

The high-output pump for replacement of the standard pump in the hydraulic unit. It can be used in properties with longer and more complex water piping.

Cascade Master/Slave Kit

Up to 3 indoor units can be connected for largecapacity use. It is need to install a primary kit in one unit and a secondary kit in one or two other units.



Master K (incl. LPB cl



Cascade Slave Kit (incl. LPB clip)

Cooling Kit

Required when using ATW also for cooling operation. It is used to prevent condensation occurring in the indoor unit.





UTW-KCLXD

UTW-KCLXL



Electrical backup heater relay UTW-KBHXL

It allows the backup heater for heating at 3 kW as standard can be used at 6 kW.



DHW Expansion Kit
The expansion

The expansion wessel (18L) for connection to DHW water piping.

DHW Kit

DHW tank

UTW-KDEXL

UTW-KDWXD (External)

Required to connect locally

purchased DHW tanks to air to water.

200 Liters: UTW-T20AXH / UTW-T20BXH

300 Liters: UTW-T30AXH / UTW-T30BXH

The BXH series is a more efficient

tank than the AXH series.

●: Available —: Not Available

Type-B Optional Parts List

								Split	Туре									Sp	lit DF	HW In	tegra	ted Ty	/pe			
Produc				Supe gh Po	wer											Supe gh Po	wer									t
					Ø 17	1 11	Ø 14	11	3Ø 14			6	Ø 8				Ø 17	1 11	Ø 14		3Ø 14				Ø 8	10
		UTW-KZSXE	_	-	_	●* ¹	●* ¹	⊕ ±1	● * ¹	●* ¹	_	_	_	_	_	_	_	_	_	_	-	-				
Boiler Connection Kit Balancing vessel DHW Kit DHW tank Circulating pump Cooling Kit Regulation Extension Kit Drain pan Cascade Master Kit (incl. LPB clip) Cascade Kit (incl. LPB clip)	F	UTW-KZDXE	-	-	-	_	-	-	_	-	-	-	-	-	_	-	-	●* ¹	●* ¹	●* ¹	•*¹	•*¹	●* ¹	●* ¹	●* ¹	●* ¹
	13	UTW-KZSXJ	•	•	•	-	-	-	-	-	_	-	-	_	_	-	-	_	-	-	-	-	-	_	-	-
		UTW-KZDXJ	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	-	-	-	-	-	-	-	-	-
	D	UTW-KBSXD	-	-	-	•	•	•	•	•	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-	-
	3	UTW-KBDXD	-	-	-	-	-	-	-	-	_	-	-	_	-	-	-	•	•	•	•	•	•	•	•	•
	J.	UTW-KBSXJ	•	•	•	-	-	-	-	-	-	-	-	-	•	•	•	-	-	-	-	-	-	-	-	-
	++	UTW-TEVXA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DHW Kit	0	UTW-KDWXD (External)	•	•	•	•	•	•	•	•	•	•	•	•	_*²	_*2	_*²	_*2	_*2	_*²	_*2	_*²	_* ²	_*²	-* ²	_*²
	200 Liters 300 Liters	UTW-T20AXH UTW-T30AXH	•	•	•	•	•	•	•	•	•	•	•	•	_*²	_*²	_*²	_*²	_*²	_*2	_*²	_*²	_*²	_*²	_*²	_*²
DHW LAIK	200 Liters 300 Liters	UTW-T20BXH UTW-T30BXH	•	•	•	•	•	•	•	•	•	•	•	•	_*²	_*2	_*²	_*2	_*2	_*²	_*2	_*²	_* ²	_*²	-* ²	_*²
DHW		UTW-KDEXE	-	-	_	_	-	_	_	-	_	_	-	_	•	•	•	•	•	•	•	•	-	_	_	_
Expansion Kit		UTW-KDEXL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	•
	9	UTW-PHFXG	•	•	•	•	•	•	•	•	_	-	_	_	•	•	•	•	•	•	•	•	_	_	_	_
Cooling Vit		UTW-KCLXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	_	_	_	-
Cooting Kit	1	UTW-KCLXL	-	-	_	-	-	-	-	-	_	-	-	_	_	-	_	-	-	-	-	_	•	•	•	•
	5	UTW-KREXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Drain pan		UTW-KDPXB	-	_	-	-	_	-	-	-	•	•	•	_	_	_	_	_	-	-	-	-	•	•	•	-
Master Kit	\@@ 	UTW-KCMXE	-	-	-	•	•	•	•	•	_	-	-	_	_	-	-	_	-	-	-	-	_	_	-	-
		UTW-KCSXE	-	-	-	•	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_

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MI Kit	UTW-KHMXE	●*³	•*³	●*³	•*³	•*³	●*³	●*³	●*³	●*³	●* ³	●*³	●*³	●*³	●*³	●*³	●* ³	●*³	●*³	•*³	●*³	●*³	●*³	•*³	
emote Wind	UTW-C74TXF	●* ³	•*³	●* ³	●*³	●* ³	•*³	•*³	•*³	•*³	•*³	•*³	•*³	•*³	•*³	●*³	•*³	•*³	●*³	●* ³	•*³	●*³	•*³	●*³	
emote Wired Entroller	UTW-C74HXF	●* ³	•*³	•*³	•*³	•*³	•*³	•*³	•*³	•* ³	•*³	•*³	•* ³	•*³	•*³	●* ³	•* ³	•*³	●* ³	•*³	●*³	•*³	•*³	•*³	
Wired	UTW-C55XA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
wireless	UTW-C58XA	● ± ⁴	● * ⁴	● ± ⁴	●* ⁴	● * ⁴	•*	● * ⁴	●* ⁴	●* ⁴	● ±4	●* ⁴	●* ⁴	● * ⁴	●* ⁴	●* ⁴	●* ⁴	●* ⁴	● * ⁴	●* ⁴	●* ⁴	● * ⁴	● * ⁴	●* ⁴	
utdoor sensor (% ansmitter	UTW-MOSXD	●* ⁴	●* ⁴	●* ⁴	●* ⁴	●* ⁴	•*4	● x ⁴	●* ⁴	●* ⁴	●* ⁴	●* ⁴	●* ⁴	●* ⁴	●* ⁴	●* ⁴	●* ⁴	●* ⁴	●* ⁴	●* ⁴	•* ⁴	●* ⁴	●* ⁴	●* ⁴	
	UTW-MRCXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Ne for BSB-Port Veb server	UTW-KW1XD	●* ⁵	•* ⁵	● * ⁵	•* ⁵	•* ⁵	•*5	●* ⁵	●* ⁵	●* ⁵	•* ⁵	•* ⁵	●* ⁵	●* ⁵	● * ⁵	●* ⁵	●* ⁵	● * ⁵	●* ⁵	●* ⁵	•* ⁵	●* ⁵	●* ⁵	•* ⁵	
veb server	UTW-KW4XD	_	-	_	•* ⁵	•* ⁵	•*5	●* ⁵	●* ⁵	_	-	_	_	_	_	_	_	-	_	_	-	_	_	-	
PB clip	UTW-KL1XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
MODBUS® clip	UTW-KMBXJ	_	-	-	●* ⁶	●* ⁶	●* ⁶	●* ⁶	●* ⁶	_	-	_	_	-	_	_	●* ⁶	●* ⁶	●* ⁶	●* ⁶	●* ⁶	_	_	-	
ervice tool ncl. OCI700 dapter)	UTW-KSTXD	●* ⁷	•* ⁷	●* ⁷	•* ⁷	●* ⁷	●* ⁷	●* ⁷	•* ⁷	●* ⁷	●* ⁷	•* ⁷	•* ⁷	•* ⁷	•* ⁷	•* ⁷	•* ⁷	•* ⁷	●* ⁷	•* ⁷	•* ⁷	●* ⁷	•* ⁷	•* ⁷	
ervice tool oftware	UTW-KPSXD	●* ⁸	•* ⁸	●* ⁸	•* ⁸	•* ⁸	•* ⁸	●* ⁸	●* ⁸	●* ⁸	•* ⁸	•* ⁸	●* ⁸	•* ⁸	●* ⁸	●* ⁸	●* ⁸	●* ⁸	●* ⁸	●* ⁸	●* ⁸	●* ⁸	●* ⁸	●* ⁸	
xternal	UTY-XWZXZ2	-	_	-	•	•	•	•	•	-	-	-	-	-	-	-	•	•	•	•	•	-	-	-	
onnect Kit	UTY-XWZXZ3	•	•	•	-	_	_	-	_	_	_	_	•	•	•	•	_	_	_	_	-	_	-	-	
lectrical backup eater relay	UTW-KBHXL	_	_	_	_	_	_	_	_	•	•	•		_	_	_	_	_	_	_	_	•	•	•	1

^{*1:} The UTW-KREXD (Regulation Extension Kit) is not included but is required for connection.
*2: Split DHW integrated type supplies DHW without the DHW Kit and DHW tank.
*3: Includes 21 languages with no need to prepare an RC for Eastern Europe separately.
C74TXF has a built-in room temperature sensor. C74HXFhas a built-in room temperature and humidity sensor.
*4: UTW-MRCXD (RF modules) is required for the connection.
*5: The connection of UTW-KW4XD for simultaneous control of multiple ATW units is only possible for cascade systems.
*6: Additional Spare parts 9708302034 (Analogue interface PCB) and 109696 (connection wire) are required.
*7: UTW-KL1XD (LPB clip) is required for the connection.
*8: UTW-KW1XD or UTW-KW4XD (Web server) is required for the connection.