

WATERSTAGE™

Innovative Solution of Domestic Heating

SPLIT TYPE / SPLIT DHW INTEGRATED TYPE

AIR TO WATER

Residential



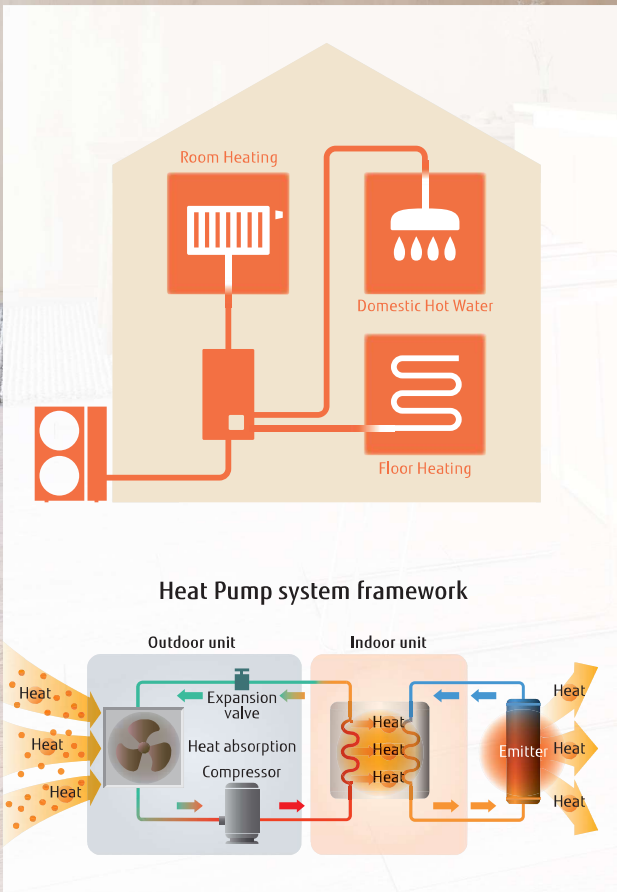
FUJITSU GENERAL LIMITED

AIR TO WATER

WATERSTAGE™ Overview

Complete Solution meets various needs

The clean energy produced by WATERSTAGE™ reliably delivers “comfort” to all spaces in the home up to the living room, bedrooms, bath, and swimming pool.



30 Models

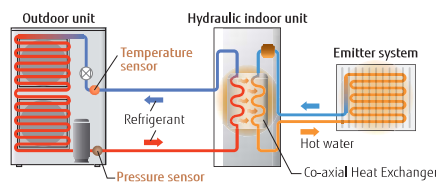
Fujitsu General WATERSTAGE™ Heat Pumps are very efficient, regenerative and varied central heating systems, which absorb the energy mainly from the air.



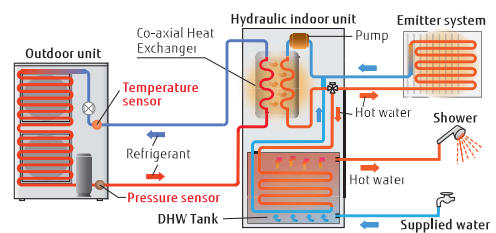
Optimization of refrigerant cycle operation

Super High Power and High Power model realizes high performance and high efficiency by adopting twin sensors and control technology corresponding to hot water heating.

Split type

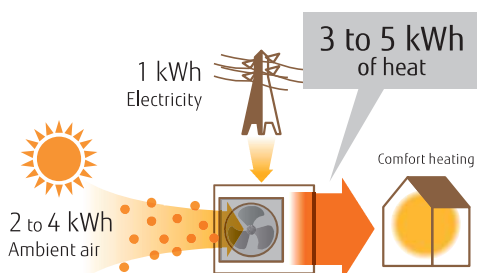


Split DHW Integrated type



What's a Heat Pump ?

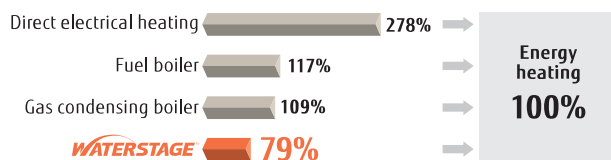
Absorbing free energy from the atmosphere. Heat Pump system requires only 1 kW of electricity to generate 3 to 5 kW thermal energy.



Primary Energy Usage Reduced Drastically!

Proportion of primary energy into heating energy of 100%

Primary Energy Consumption*



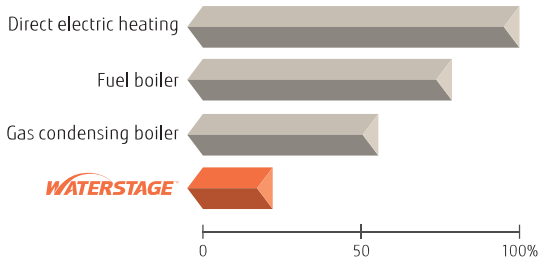
*Electricity loss is different due to power plant. Example efficiency of power plant: 36%

Benefits

Less CO₂ Emissions

This environmentally-friendly system substantially reduces CO₂ emissions compared to conventional gas and hydro carbons combustion.

Average annual CO₂ emissions

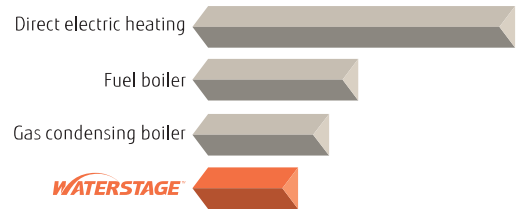


Calculations based on data provided by European Program-2001 for EU 27
 Fuel boiler efficiency: 89%, Gas boiler efficiency: 93%

Low Running Cost

Running cost is low and economical by high efficiency heat pump technology.

Average annual running cost



*The values may vary depending on installation, location, and operating conditions.

Clean and Healthy

Since burners are unnecessary, NO_x and other harmful substances are not generated.



Easy Installation and Maintenance

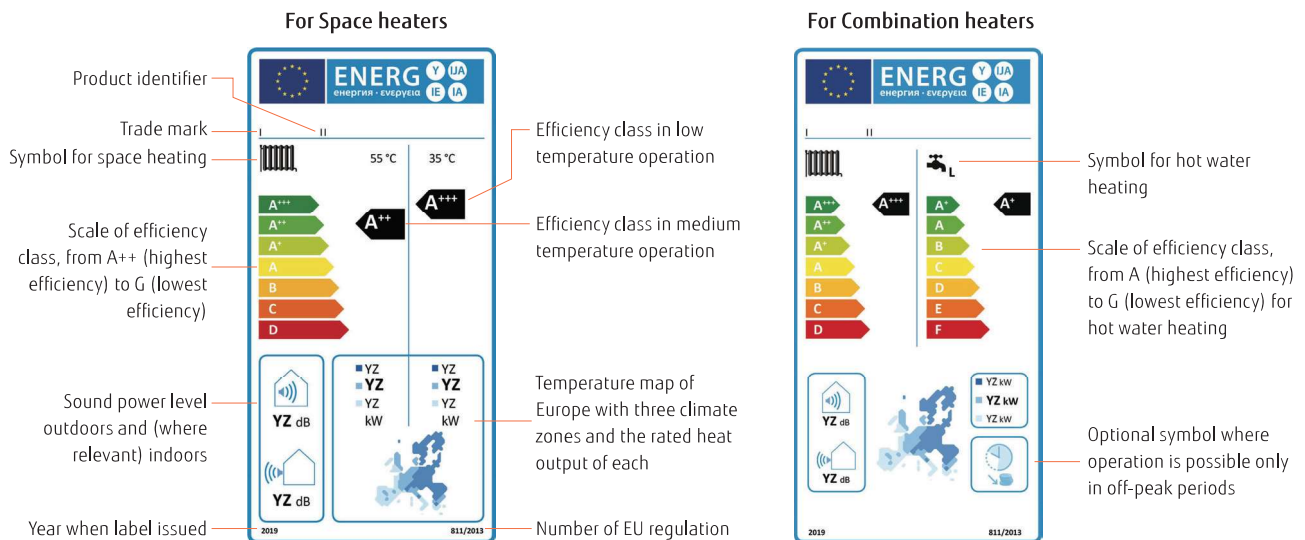
All components are built into compact outdoor unit or hydraulic indoor unit.



Well structured Hydraulic indoor unit.

Sophisticated arrangement of hydraulic units, allows easy piping and maintenance

Energy Efficiency standard Product labels



The Ecodesign Directive Lot 1 Regulation 813/2013

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

From 26 September 2015, the Ecodesign Directive will apply to space heaters (including heat pumps and fossil fuel boilers), combination heaters (for both space and water heating), water heaters and water storage tanks.

All these products will have to meet minimum requirements for energy efficiency*1 and maximum sound power levels. The minimum energy efficiency level will be raised from 26 September 2017 and maximum sound power level will be lowered on 26 September 2018.

*1: Energy efficiency is represented by seasonal space heating efficiency (η_s). This value is based upon the seasonal coefficient of performance (SCOP).

The Energy Labelling Directive (EU) No. 811/213

The energy label aims to help consumers make direct comparisons of energy use, as well as product specific features. On all labels, product identifier, efficiency class, sound power levels and heat output must be displayed. For heat generators, the scale runs from A+++ to D. There are two different product labels for space heaters and combination heaters.

Seasonal space heating Energy efficiency class

Class	Except low temp HP 55°C	Low temp HP 35°C
A+++	$\eta_s \geq 150$	$\eta_s \geq 175$
A++	$125 \leq \eta_s < 150$	$150 \leq \eta_s < 175$
A+	$98 \leq \eta_s < 125$	$123 \leq \eta_s < 150$
A	$90 \leq \eta_s < 98$	$115 \leq \eta_s < 123$
B	$82 \leq \eta_s < 90$	$107 \leq \eta_s < 115$
C	$75 \leq \eta_s < 82$	$100 \leq \eta_s < 107$
D	$36 \leq \eta_s < 75$	$61 \leq \eta_s < 100$
E	$34 \leq \eta_s < 36$	$59 \leq \eta_s < 61$
F	$30 \leq \eta_s < 34$	$55 \leq \eta_s < 59$
G	$\eta_s < 30$	$\eta_s < 55$

EHPA Quality Label



Fujitsu General's WATERSTAGE² have obtained the EHPA Quality Label³ by tests according to the international Standards EN14511 and EN17025. The EHPA Quality Label³ is a label that shows

the end-consumer a quality heat pump unit on the market.

*2: Only High Power 3 phase

*3: Check the validity of label at

www.ehpa.org/quality/quality-label/

SG-Ready Label



SG-Ready is a defined standard by BWP⁴, which makes it possible that the device can be integrated into a smart grid. Heat pumps, which

are equipped with the SG-Ready Label, can receive signals from the power grid (and e.g. also from PV systems) about the available (unused renewable) energy (from wind, sun & water). Fujitsu General provides the SG-Ready compatibility to all new Heat Pumps Series.

*4: BWP = the 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 WATERSTAGE⁵ have obtained the KEYMARK⁶.

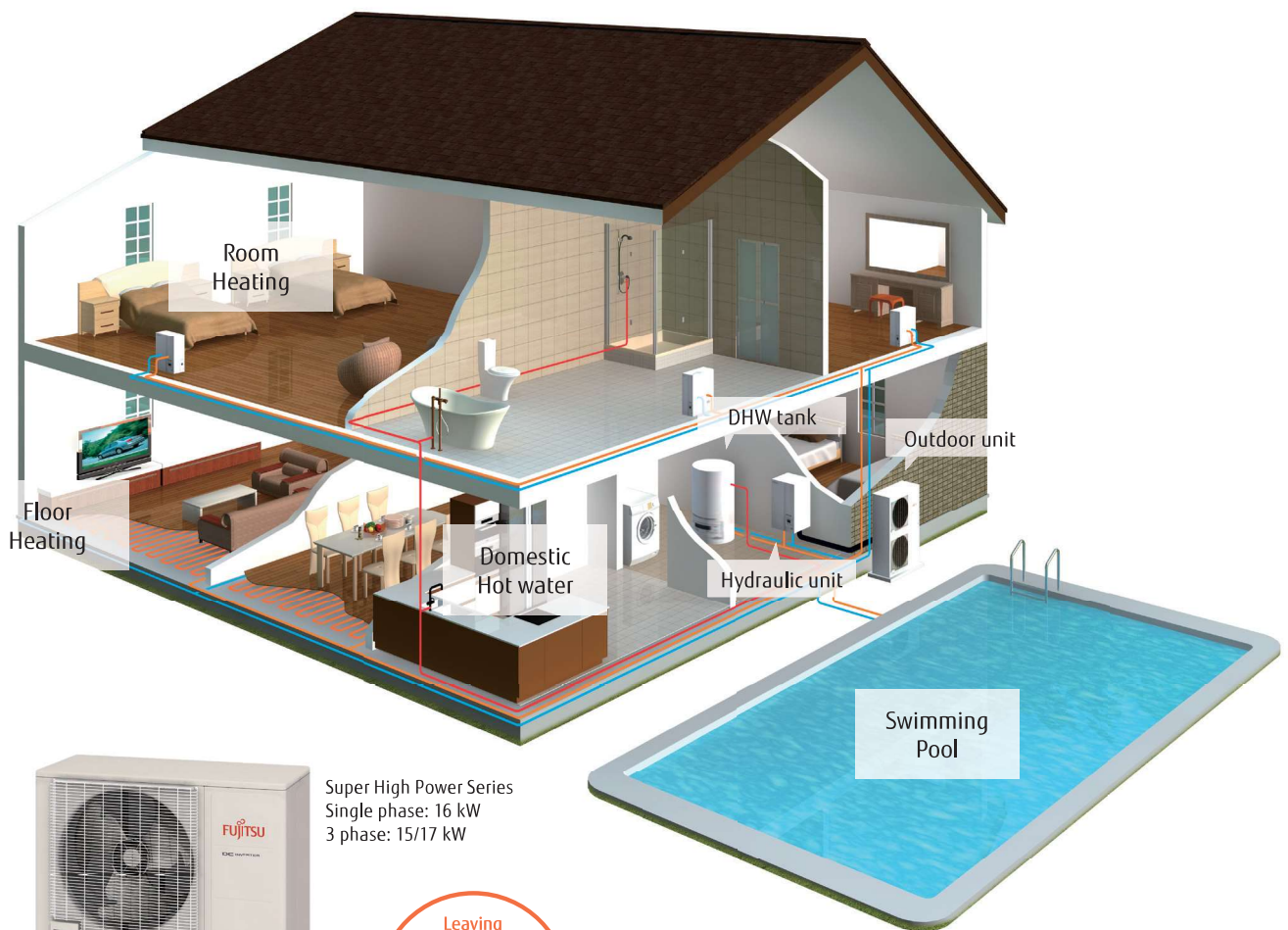
*5: Only R32 comfort model

*6: Check the validity of mark at www.heatpumpkeymark.com/about/



Home Heating & Domestic Hot Water

Wide range lineup suited for regional characteristics, family structure, and application. We provide various products to meet your needs from High Power via heating-centered series to reasonably-priced compact series.



Super High Power Series
Single phase: 16 kW
3 phase: 15/17 kW



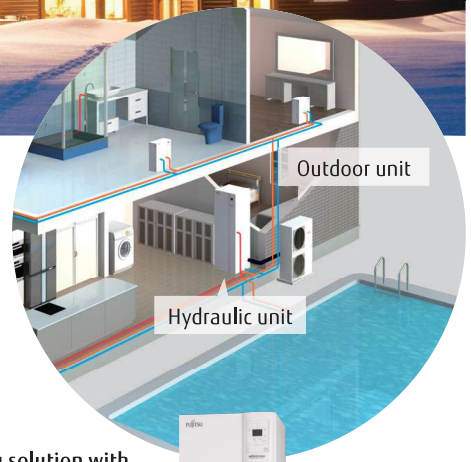
High leaving water temperature

High leaving water temperature 60°C kept down to -20°C outdoor temperature without using backup heater.

For Room heating & domestic hot water

Outdoor unit and hydraulic indoor unit can be installed freely, so installation is easy. Since hydraulic indoor unit is installed inside a house, freezing of circulated water can be prevented. A larger heating capacity can be performed flexibly by using more units in cascade connection.*1

*1: For High Power only



Stylish space saving solution with built-in DHW tank



Appearance-oriented compact outdoor unit

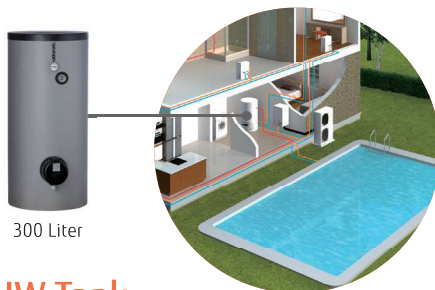
Split type Comfort Series

For Comfort Series, optimized flow temperature control is achieved by DC inverter technology.

*2: Outdoor Unit: WOYA06LFCA/WOYA08LFCA

Space is saved drastically due to built-in DHW tank.

Existing boiler can be replaced easily. Higher heating capacities can be achieved as there is the flexibility to use more units in a cascade type connection.



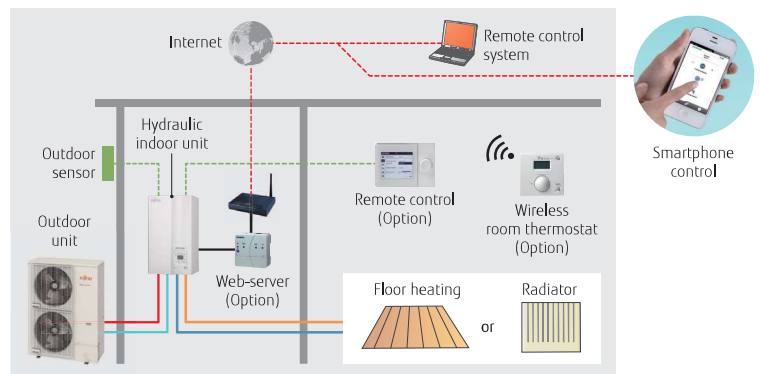
+ DHW Tank

DHW tank (option) can be used to supply hot water by connecting it to the system.

+ Boiler

By combining existing boiler, powerful heating can be achieved even at low outdoor temperature.

*Optional parts necessary



Smart control

User's needs are supported by offering a variety of controls, such as individual control and remote control options.

High Efficiency Technology

Twin Rotary Compressor

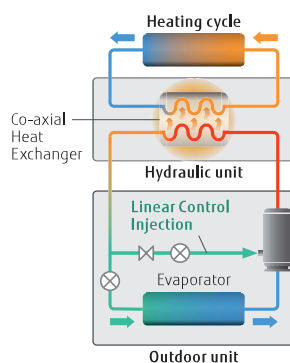
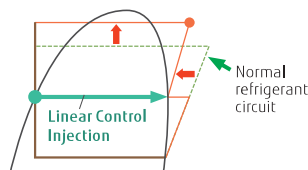


For Outdoor Unit

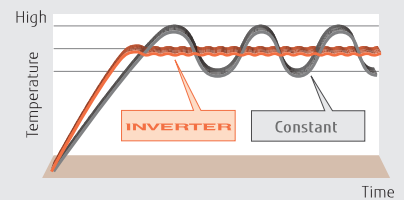
Twin Rotary Compressor with Linear Control Injection Port

It realizes the high condensing temperature without overheating discharge gas temperature by Linear Control Injection process during compression. Therefore, the condensing temperature rises up higher than normal circuit. A higher hot water temperature is realized by controlling the injection amount according to the usage state.

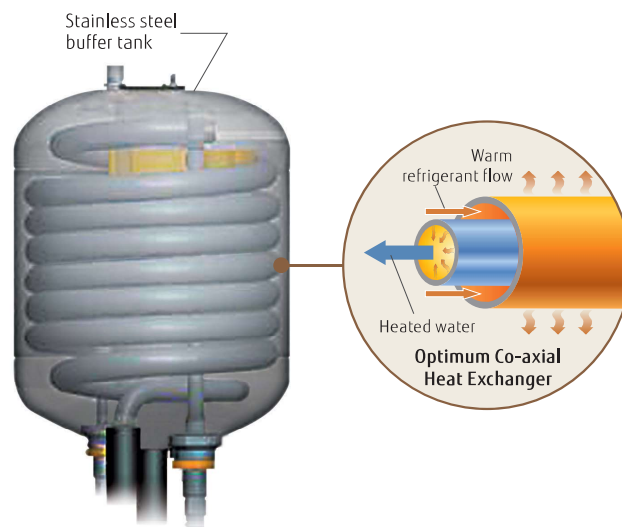
Optimized circuit = higher water temperature



Accurate temperature control by DC inverter technology



High Durability Co-axial Heat Exchanger



For Hydraulic Indoor Unit

Stainless steel buffer tank

Heat exchange amount is 25% higher than previous model.
Energy saving performance is improved.

- Corrosion protected
- No flow switch necessary
- Anti-freeze-protection is unnecessary

Class A++ Pump















Energy saving pump with constant volume or pressure adjustment function.



Energy efficiency class
WSYK170DJ9



WATERSTAGE™ Lineup

Type	Split type					
	Super High Power Series		High Power Series		Comfort Series	
Hydraulic indoor unit					 	
Outdoor unit					 	
Capacity range	15/16/17 kW		11/14 kW 11/14/16 kW		5/6 kW 8 kW 5/6/8 kW 10 kW	
System outline	<ul style="list-style-type: none"> • 60°C hot water supply even at -20°C outdoor temperature • 55°C hot water supply even at -22°C outdoor temperature • Different heating system can be used. Like underfloor heating, radiators and others.* • Heating and DHW in one system.* • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operation range is -25 to 35 °C. 		<ul style="list-style-type: none"> • 60°C hot water supply even at -20°C outdoor temperature • Different heating system can be used. Like underfloor heating, radiators and others.* • Heating and DHW in one system.* • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cascade connection up to three systems.* • Cooling operation is possible.* • Operation range is -25 to 35 °C. 		<ul style="list-style-type: none"> • 55°C hot water supply even at -10°C outdoor temperature • Heating and DHW in one system.* • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operation range is -25 to 35 °C. 	
Power source	Single Phase, 230 V/50 Hz	3 Phase, 400 V/50 Hz	Single Phase, 230 V/50 Hz	3 Phase, 400 V/50 Hz	Single Phase, 230 V/50 Hz	
Capacity	5 kW				WSYA050ML3 WOYA060KLT 	WSYA050DG6 WOYA060LFCA
	6 kW				WSYA080ML3 WOYA060KLT 	WSYA100DG6 WOYA060LFCA
	8 kW				WSYA080ML3 WOYA080KLT 	WSYA100DG6 WOYA080LFCA
	10 kW					WSYA100DG6 WOYA100LFTA
	11 kW			WSYG140DG6 WOYG112LHT	WSYK160DG9 WOYK112LCTA 	
	14 kW			WSYG140DG6 WOYG140LCTA	WSYK160DG9 WOYK140LCTA 	
	15 kW		WSYK170DJ9 WOYK150LJL			
	16 kW	WSYG160DJ6 WOYG160LJL			WSYK160DG9 WOYK160LCTA 	
17 kW		WSYK170DJ9 WOYK170LJL				



Split DHW Integrated type

Super High Power Series		High Power Series		Comfort Series			
15/16/17 kW		11/14 kW	11/14/16 kW	5/6 kW	8 kW		
<ul style="list-style-type: none"> • 60°C hot water supply even at -20°C outdoor temperature • 55°C hot water supply even at -22°C outdoor temperature • Different heating system can be used. Like underfloor heating, radiators and others.* • Heating and DHW space saving in one hydraulic indoor unit. • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operation range is -25 to 35 °C. 		<ul style="list-style-type: none"> • 60°C hot water supply even at -20°C outdoor temperature • Different heating system can be used. Like underfloor heating, radiators and others.* • Heating and DHW space saving in one hydraulic indoor unit. • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operation range is -25 to 35 °C. 		<ul style="list-style-type: none"> • 55°C hot water supply even at -10°C outdoor temperature • Heating and DHW in one system.* • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operation range is -25 to 35 °C. 		<ul style="list-style-type: none"> • 55°C hot water supply even at -10°C outdoor temperature • Different heating system can be used. Like underfloor heating, radiators and others.* • Heating and DHW space saving in one hydraulic indoor unit. • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operation range is -25 to 35 °C. 	
Single Phase, 230 V/50 Hz	3 Phase, 400 V/50 Hz	Single Phase, 230 V/50 Hz	3 Phase, 400 V/50 Hz	Single Phase, 230 V/50 Hz			
				WGYA050ML3 WOYA060KLT	WGYA050DG6 WOYA060LFCA		
				WGYA080ML3 WOYA060KLT	WGYA100DG6 WOYA060LFCA		
				WGYA080ML3 WOYA080KLT	WGYA100DG6 WOYA080LFCA		
					WGYA100DG6 WOYA100LFTA		
		WGYG140DG6 WOYG112LHT	WGYK160DG9 WOYK112LCTA				
		WGYG140DG6 WOYG140LCTA	WGYK160DG9 WOYK140LCTA				
	WGYK170DJ9 WOYK150LJL						
WGYG160DJ6 WOYG160LJL			WGYK160DG9 WOYK160LCTA				
	WGYK170DJ9 WOYK170LJL						

*Optional parts are required.

NEW

Split Type

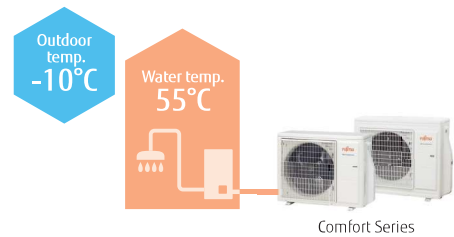
Comfort Series



High Leaving Water Temperature

Maximum leaving water temperature is 55°C without backup heater. Hot water supply temperature can be maintained even at -10°C outdoor temperature.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



High COP

Waterstage Air to water heat pumps work much more efficient and save energy compared to traditional heating system.

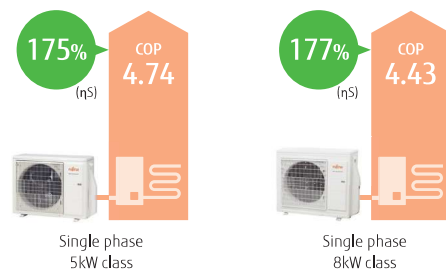
Energy efficiency class



*Temperature application : Heating Temp. 35°C.

Seasonal space heating energy efficiency (η_s)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



Outdoor unit technology



DC Fan Motor

High performance, high efficiency small DC fan motor mounted.



DC Twin Rotary Compressor

High efficient DC twin rotary compressor



DC Inverter

Smooth water temperature control realized by DC inverter control.

Hydraulic indoor unit:
WSYA050ML3 / WSYA080ML3
Outdoor unit:
WOYA060KLT / WOYA080KLT



Hydraulic indoor unit
Single phase



Outdoor unit
Single phase
5/6kW



Outdoor unit
Single phase
8kW

Specifications

Model Name	Hydraulic indoor unit	WSYA050ML3	WSYA080ML3	WSYA080ML3		
Capacity range	Outdoor unit	WOYA060KLT	WOYA060KLT	WOYA080KLT		
7°C/35°C floor heating *1	Heating capacity	4.50	5.50	7.50		
	Input power	0.949	1.18	1.69		
	COP	4.74	4.65	4.43		
2°C/35°C floor heating *1	Heating capacity	4.50	5.30	6.30		
	Input power	1.33	1.65	1.96		
	COP	3.39	3.22	3.21		
-7°C/35°C floor heating*1	Heating capacity	4.40	5.00	5.70		
	Input power	1.59	1.90	2.13		
	COP	2.76	2.63	2.68		
Space heating characteristics**2						
Temperature application	°C	55	35	55	35	
Energy efficiency class		A++	A+++	A++	A+++	
Rated heat output(P _{rated})	kW	5	5	6	7	
Seasonal space heating energy efficiency(η _s)	%	125	175	125	175	
Annual energy consumption	kWh	3,035	2,322	3,411	2,594	
Sound power level*3	Hydraulic indoor unit	40	-	40	-	
	Outdoor unit	57	-	57	-	
Hydraulic indoor unit Specification						
Power source		Single phase 230 V 50 Hz				
Dimensions H×W×D	mm	847 x 450 x 493	847 x 450 x 493	847 x 450 x 493		
Weight (Net)	kg	41	41	41		
Water circulation	Min/Max	L/min	7.6/22.0	8.5/22.0	10.0/22.0	
Buffer tank capacity	L	16	16	16		
Expansion vessel capacity	L	8	8	8		
Leaving water temperature range	Max	°C	55	55	55	
Water pipe connection diameter	Flow/Return	mm	∅ 25.4/∅ 25.4	∅ 25.4/∅ 25.4	∅ 25.4/∅ 25.4	
Backup heater	Capacity	kW	3.0	3.0	3.0	
Outdoor unit specification						
Power source		Single phase 230 V 50 Hz				
Current	Max	A	13.0	13.0	18.0	
Dimensions H × W × D	mm	632 x 799 x 290	632 x 799 x 290	716 x 820 x 315		
Weight (Net)	kg	39	39	42		
Refrigerant	Type (Global Warming Potential)		R32(675)	R32(675)	R32(675)	
	Charge	kg	0.97	0.97	1.02	
Additional refrigerant charge amount	g/m	25	25	25		
Connection pipe	Diameter	Liquid	mm	6.35	6.35	6.35
		Gas	mm	12.70	12.70	12.70
	Length	Min/Max	m	3/30	3/30	3/30
		Length(Pre-charge)	m	15	15	15
Height difference	Max	m	20	20	20	
Operation range	Heating	°C	-20 to 35	-20 to 35	-20 to 35	

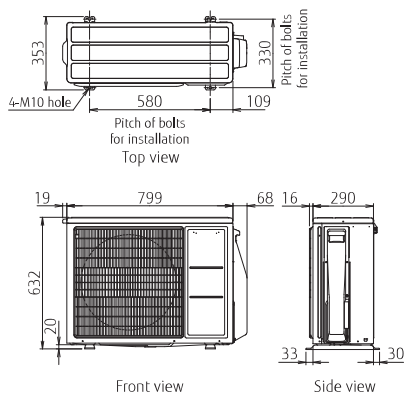
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

*2:All information of ErP can be available for download from www.fujitsu-general.com/global/support/downloads/search/

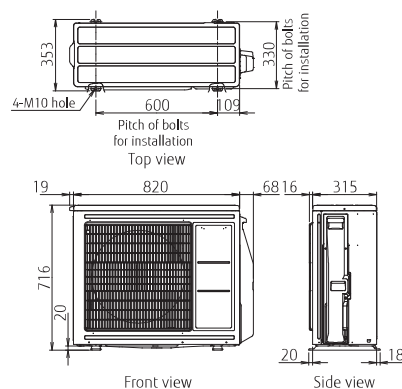
*3:The values of sound power level are based on measurement of EN12102 standard under conditions of EN14825 standard.

Dimensions

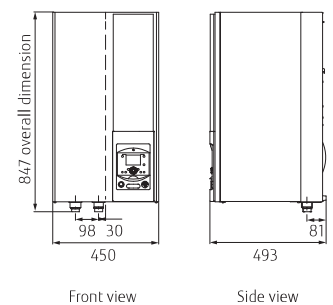
Outdoor Unit:
WOYA060KLT



WOYA080KLT



Hydraulic Indoor Unit:
WSYA050ML3/WSYA080ML3



Split Type

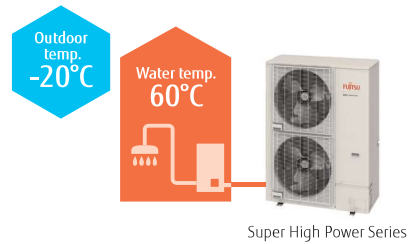
Super High Power Series



High Leaving Water Temperature

High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters. And it's possible to supply 55°C at -22°C outdoor temperature without backup heater.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



High COP

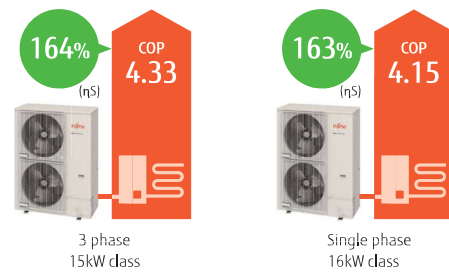
Waterstage Air to water heat pumps work much more efficient and save energy compared to traditional heating system.

Energy efficiency class



Seasonal space heating energy efficiency (η_s)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



Extended Operation Range down to -25°C

Improved operation range down to -25°C outdoor temperature



Hydraulic indoor unit:
WSYG160DJ6 / [3 phase] WSYK170DJ9
Outdoor unit:
WOYG160LJL
[3 phase] WOYK150LJL / WOYK170LJL



Hydraulic indoor unit
 Single phase/
 3 phase



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

Specifications

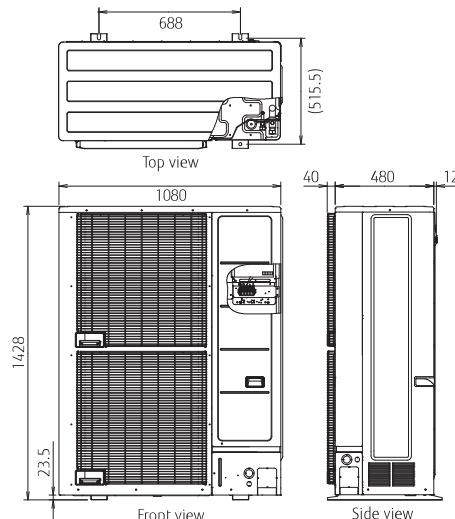
Model Name	Hydraulic indoor unit	WSYG160DJ6	WSYK170DJ9	WSYK170DJ9			
Capacity range	Outdoor unit	WOYG160LJL	WOYK150LJL	WOYK170LJL			
7°C/35°C floor heating *1	Heating capacity	16.00	15.00	17.00			
	Input power	3.86	3.46	4.10			
	COP	4.15	4.33	4.15			
2°C/35°C floor heating *1	Heating capacity	13.30	13.20	13.50			
	Input power	4.25	4.06	4.27			
	COP	3.13	3.25	3.16			
-7°C/35°C floor heating*1	Heating capacity	14.50	13.20	15.00			
	Input power	5.27	4.55	5.32			
	COP	2.75	2.90	2.82			
Space heating characteristics**2							
Temperature application	°C	55	35	55	35		
Energy efficiency class		A++	A++	A++	A++		
Rated heat output (P _{rated})	kW	14	16	17	18		
Seasonal space heating energy efficiency (η _s)	%	125	163	130	161		
Annual energy consumption	kWh	8,757	8,014	9,915	8,606	10,232	9,059
Sound power level	Hydraulic indoor unit	45	45	45	45	45	
	Outdoor unit	67	66	67	66	67	68
Hydraulic indoor unit Specification							
Power source		Single phase, 230 V 50 Hz		3 phase, 400 V 50 Hz			
Dimensions H×W×D	mm	805 × 450 × 471		805 × 450 × 471			
Weight (Net)	kg	52.5		52.5			
Water circulation	Min/Max	L/min 26.4/57.8		24.0/54.2	27.3/61.4		
Buffer tank capacity	L	25		25			
Expansion vessel capacity	L	10		10			
Leaving water temperature range	Max	°C 60		60			
Water pipe connection diameter	Flow/Return	mm Ø 25.4/Ø 25.4		Ø 25.4/Ø 25.4			
Backup heater	Capacity	kW 6.0(3.0kW×2pcs.)		9.0(3.0kW×3pcs.)			
Outdoor unit specification							
Power source		Single phase, 230 V 50 Hz		3 phase, 400 V 50 Hz			
Current	Max	A 28.00		14.0	14.0		
Dimensions H × W × D	mm	1,428 × 1,080 × 480		1,428 × 1,080 × 480	1,428 × 1,080 × 480		
Weight (Net)	kg	137		138	138		
Refrigerant	Type (Global Warming Potential)	R410A (2,088)					
	Charge	kg 3.80		3.80	3.80		
Additional refrigerant charge amount		g/m 50		50	50		
Connection pipe	Diameter	Liquid	mm Ø 9.52		Ø 9.52		
		Gas	mm Ø 15.88		Ø 15.88		
	Length	Min/Max	m 5/30		5/30	5/30	
		Length (Pre-charge)	m 15		15	15	
Height difference	Max	m		25/15 (Outdoor unit:Upper/Lower)			
Operation range	Heating	°C -25 to 35		-25 to 35			

*1: The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

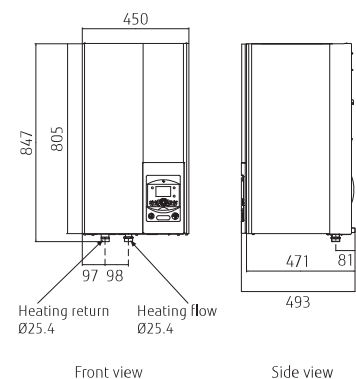
*2: All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

Dimensions

Outdoor Unit:
 Single phase: WOYG160LJL
 3 phase: WOYK150LJL/WOYK170LJL

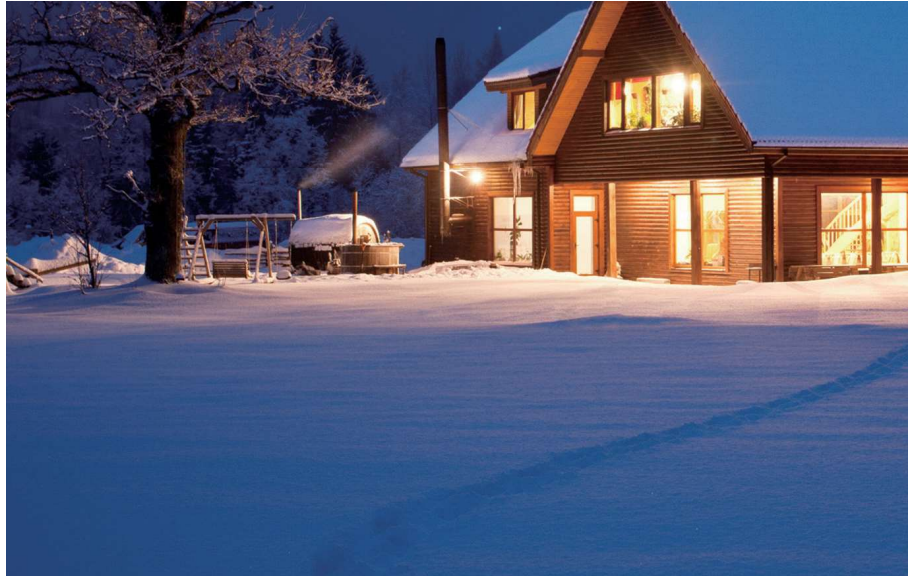


Hydraulic Indoor Unit:
 Single phase : WSYG160DJ6
 3 phase: WSYK170DJ9



Split Type

High Power Series



High Leaving Water Temperature

High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



High COP

Waterstage Air to water heat pumps work much more efficient and save energy compared to traditional heating system.

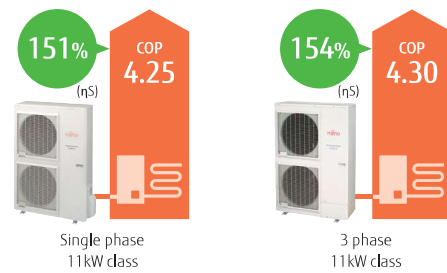
Energy efficiency class



*Temperature application : Heating Temp. 35°C.

Seasonal space heating energy efficiency (η_s)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



Hydraulic indoor unit:
WSYG140DG6 / [3 phase] WSYK160DG9

Outdoor unit:
WOYG112LHT / WOYG140LCTA
[3 phase] WOYK112LCTA / WOYK140LCTA /
WOYK160LCTA



Hydraulic indoor unit
 Single phase/
 3 phase



Outdoor unit
 Single phase
 11/14 kW



Outdoor unit
 3 phase
 11/14/16 kW

Specifications

Model Name	Hydraulic indoor unit	WSYG140DG6	WSYG140DG6	WSYK160DG9	WSYK160DG9	WSYK160DG9	
Capacity range	Outdoor unit	WOYG112LHT	WOYG140LCTA	WOYK112LCTA	WOYK140LCTA	WOYK160LCTA	
7°C/35°C floor heating *1	Heating capacity	11	14	11	14	16	
	Input power	10.80	13.50	10.80	13.50	15.17	
	COP	2.54	3.23	2.51	3.20	3.70	
2°C/35°C floor heating *1	Heating capacity	4.25	4.18	4.30	4.22	4.10	
	Input power	10.77	12.00	10.77	13.00	13.50	
	COP	3.44	3.87	3.40	4.15	4.34	
-7°C/35°C floor heating*1	Heating capacity	3.13	3.10	3.17	3.13	3.11	
	Input power	10.38	11.54	10.38	12.20	13.50	
	COP	4.32	5.08	4.28	5.13	5.40	
	COP	2.40	2.27	2.43	2.38	2.50	
Space heating characteristics*2							
Temperature application	°C	55	35	55	35	55	
Energy efficiency class		A+	A++	A+	A++	A+	
Rated heat output(P _{rated})	kW	9	11	11	13	14	
Seasonal space heating energy efficiency(η _s)	%	112	151	113	148	112	
Annual energy consumption	kWh	6,704	6,062	8,041	6,824	6,669	
Sound power level	Hydraulic indoor unit	46		46		46	
	Outdoor unit	68		69		71	
Hydraulic indoor unit Specification							
Power source		Single phase, 230 V 50 Hz			3 phase, 400 V 50 Hz		
Dimensions H×W×D	mm	800 × 450 × 457			800 × 450 × 457		
Weight (Net)	kg	42			42		
Water circulation	Min/Max	L/min		19.5/39.0	24.4/48.7	19.5/39.0	
Buffer tank capacity	L	16			16		
Expansion vessel capacity	L	8			8		
Leaving water temperature range	Max	°C			60		
Water pipe connection diameter	Flow/Return	mm			ø 25.4/ø 25.4		
Backup heater	Capacity	kW			6.0(3.0kW×2pcs.)		
Outdoor unit specification							
Power source		Single phase, 230 V 50 Hz			3 phase, 400 V 50 Hz		
Current	Max	A		22.0	25.0	9.0	
Dimensions H × W × D	mm	1,290 × 900 × 330			9.5		
Weight (Net)	kg	92			99		
Refrigerant	Type (Global Warming Potential)	R410A (2,088)					
	Charge	kg			2.50		
Additional refrigerant charge amount		g/m			50		
Connection pipe	Diameter	Liquid	mm			ø 9.52	
		Gas	mm			ø 15.88	
	Length	Min/Max	m			5/20	
		Length(Pre-charge)	m			15	
Height difference	Max	m			15		
Operation range	Heating	°C			-25 to 35		

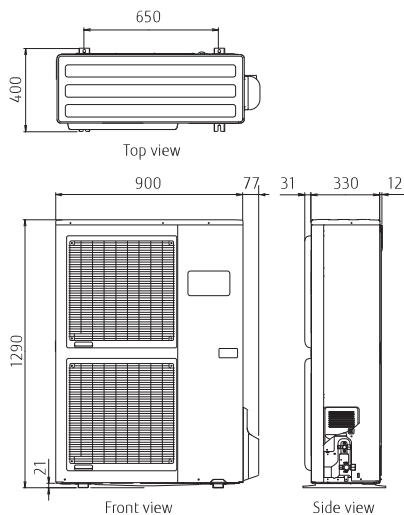
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

*2:All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

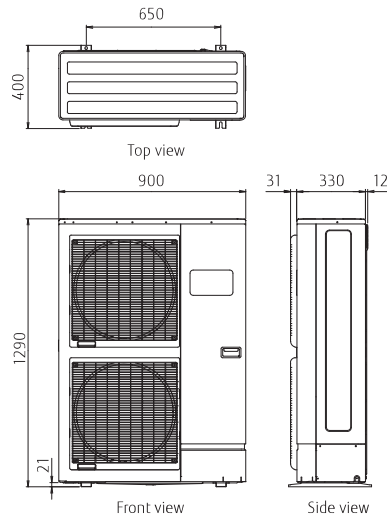
Dimensions

Outdoor Unit:

Single phase: WOYG112LHT/WOYG140LCTA



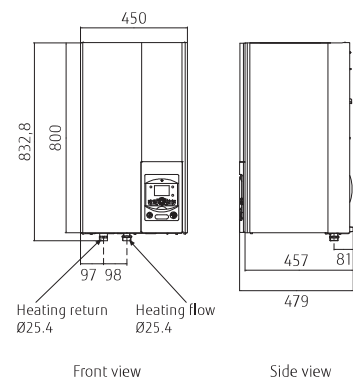
3 phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic Indoor Unit:

Single phase: WSYG140DG6

3 phase: WSYK160DG9



Split Type

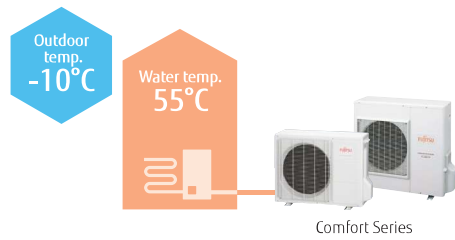
Comfort Series



High Leaving Water Temperature

Maximum leaving water temperature is 55°C without backup heater. Hot water supply temperature can be maintained even at -10°C outdoor temperature.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



High COP

Waterstage Air to water heat pumps work much more efficient and save energy compared to traditional heating system.

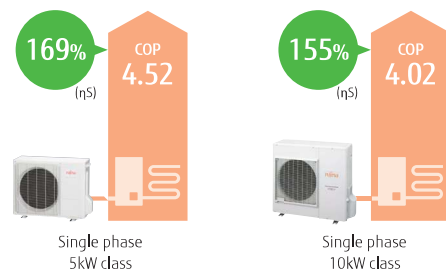
Energy efficiency class



*Temperature application : Heating Temp. 35°C.

Seasonal space heating energy efficiency (η_s)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



Outdoor unit technology



5 - 8 kW



10 kW



DC Fan Motor

High performance, high efficiency small DC fan motor mounted.



DC Twin Rotary Compressor

High efficient DC twin rotary compressor



DC Inverter

Smooth water temperature control realized by DC inverter control.

Hydraulic indoor unit:
WSYA050DG6 / WSYA100DG6

Outdoor unit:
WOYA060LFCA / WOYA080LFCA /
WOYA100LFCA



Hydraulic indoor unit
Single phase



Outdoor unit
Single phase
5/6/8kW



Outdoor unit
Single phase
10kW

Specifications

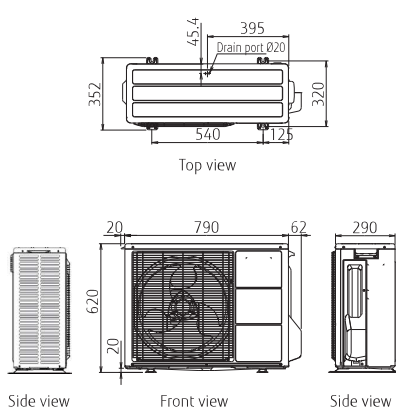
Model Name	Hydraulic indoor unit	WSYA050DG6	WSYA100DG6	WSYA100DG6	WSYA100DG6				
Capacity range	Outdoor unit	WOYA060LFCA	WOYA060LFCA	WOYA080LFCA	WOYA100LFCA				
		5	6	8	10				
7°C/35°C floor heating *1	Heating capacity	4.50	6.00	7.50	10.00				
	Input power	0.996	1.41	1.84	2.49				
	COP	4.52	4.27	4.08	4.02				
2°C/35°C floor heating *1	Heating capacity	4.50	4.95	5.65	7.70				
	Input power	1.39	1.53	1.78	2.47				
	COP	3.24	3.24	3.17	3.12				
-7°C/35°C floor heating*1	Heating capacity	4.10	4.60	5.70	7.40				
	Input power	1.47	1.74	2.23	2.97				
	COP	2.79	2.64	2.56	2.49				
Space heating characteristics*2									
Temperature application	°C	55	35	55	35	55	35	55	35
Energy efficiency class		A+	A++	A+	A++	A+	A++	A+	A++
Rated heat output(P _{rated})	kW	4	4	5	5	6	7	8	8
Seasonal space heating energy efficiency(η _s)	%	115	169	115	169	118	156	113	155
Annual energy consumption	kWh	3,026	2,160	3,180	2,505	3,886	3,375	5,415	4,415
Sound power level	Hydraulic indoor unit	46		46		46		46	
	Outdoor unit	65	60	65	63	65	69	68	69
Hydraulic indoor unit Specification									
Power source	Single phase 230 V 50 Hz								
Dimensions H×W×D	mm	800 × 450 × 457							
Weight (Net)	kg	42							
Water circulation	Min/Max	L/min	8.1/16.2	10.8/21.7	13.5/27.1	18.1/36.1			
Buffer tank capacity	L	16							
Expansion vessel capacity	L	8							
Leaving water temperature range	Max	°C	55						
Water pipe connection diameter	Flow/Return	mm	Ø 25.4/Ø 25.4						
Backup heater	Capacity	kW	6.0(3.0kW×2pcs.)						
Outdoor unit specification									
Power source	Single phase 230 V 50 Hz								
Current	Max	A	12.5	17.5	18.5				
Dimensions H × W × D	mm	620 × 790 × 290			830 × 900 × 330				
Weight (Net)	kg	41	42	60					
Refrigerant	Type (Global Warming Potential)	R410A (2,088)							
	Charge	kg	1.10	1.40	1.80				
Additional refrigerant charge amount	g/m	25	40	40					
Connection pipe	Diameter	Liquid	Ø 6.35		Ø 9.52				
		Gas	Ø 12.7		Ø 15.88				
	Length	Min/Max	5/30						
	Length(Pre-charge)	m	15						
Height difference	Max	m	20						
	Heating	°C	-20 to 35						

*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

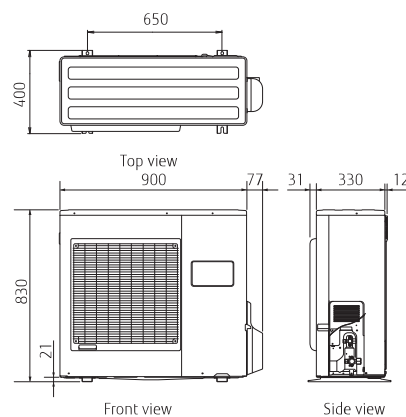
*2:All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

Dimensions

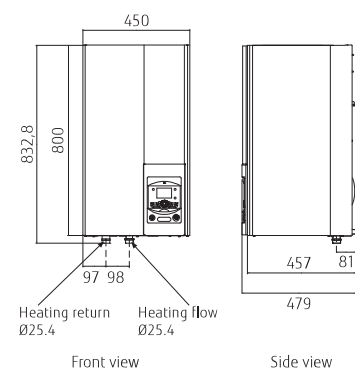
Outdoor Unit:
WOYA060LFCA/WOYA080LFCA



WOYA100LFCA



Hydraulic Indoor Unit:
WSYA050DG6/WSYA100DG6



NEW

Split DHW Integrated Type

Comfort Series

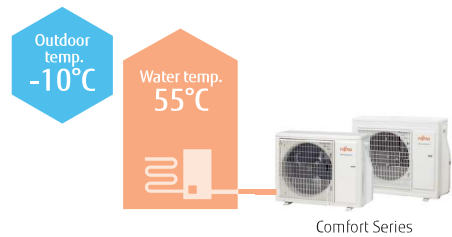


WATERSTAGE™

High Leaving Water Temperature

Maximum leaving water temperature is 55°C without backup heater. Hot water supply temperature can be maintained even at -10°C outdoor temperature.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



High COP

Waterstage Air to water heat pumps work much more efficient and save energy compared to traditional heating system.

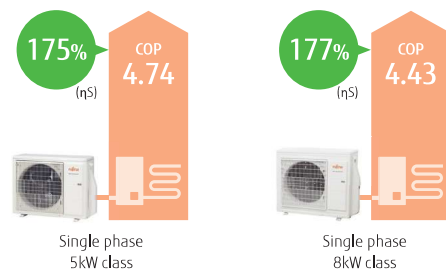
Energy efficiency class



*Temperature application : Heating Temp. 35°C.

Seasonal space heating energy efficiency (η_s)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



Outdoor unit technology



DC Fan Motor

High performance, high efficiency small DC fan motor mounted.



DC Twin Rotary Compressor

High efficient DC twin rotary compressor



DC Inverter

Smooth water temperature control realized by DC inverter control.

Hydraulic indoor unit:
WGYA050ML3 / WGYA080ML3
Outdoor unit:
WOYA060KLT / WOYA080KLT



Hydraulic indoor unit
Single phase



Outdoor unit
Single phase
5/6kW



Outdoor unit
Single phase
8kW

Specifications

Model Name	Hydraulic indoor unit	WGYA050ML3	WGYA080ML3	WGYA080ML3	
Capacity range	Outdoor unit	WOYA060KLT	WOYA060KLT	WOYA080KLT	
		5	6	8	
7°C/35°C floor heating *1	Heating capacity	4.50	5.50	7.50	
	Input power	0.949	1.18	1.69	
	COP	4.74	4.65	4.43	
2°C/35°C floor heating *1	Heating capacity	4.50	5.30	6.30	
	Input power	1.33	1.65	1.96	
	COP	3.39	3.22	3.21	
-7°C/35°C floor heating*1	Heating capacity	4.40	5.00	5.70	
	Input power	1.59	1.90	2.13	
	COP	2.76	2.63	2.68	
Space heating characteristics*2					
Temperature application	°C	55	35	55	35
Energy efficiency class		A++	A+++	A++	A+++
Rated heat output(P _{rated})	kW	5	5	6	7
Seasonal space heating energy efficiency(η _s)	%	125	175	125	175
Annual energy consumption	kWh	3,035	2,322	3,411	2,594
Sound power level*3	Hydraulic indoor unit	40	-	40	-
	Outdoor unit	57	-	57	-
Domestic hot water characteristics*2					
Load profile		L	L	L	
Energy efficiency class		A+	A+	A+	
Energy efficiency(η _{wh})	%	130	130	130	
Annual electricity consumption	kWh	793	793	793	
Hydraulic indoor unit Specification					
Power source		Single phase 230 V 50 Hz			
Dimensions H×W×D	mm	1,863 x 648 x 700	1,863 x 648 x 700	1,863 x 648 x 700	
Weight (Net)	kg	143	143	143	
Water circulation	L/min	7.6/22.0	8.5/22.0	10.0/22.0	
DHW capacity	L	190	190	190	
Hot water heater capacity	kW	1.5	1.5	1.5	
Buffer tank capacity	L	16	16	16	
Expansion vessel capacity	L	8	8	8	
Leaving water temperature range	Max °C	55	55	55	
Water pipe connection diameter	Flow/Return	mm	Ø 25.4/Ø 25.4	Ø 25.4/Ø 25.4	
Hot water pipe connection diameter		mm	Ø 19.05	Ø 19.05	
Backup heater	Capacity	kW	3.0	3.0	
Outdoor unit specification					
Power source		Single phase 230 V 50 Hz			
Current	Max	A	13.0	18.0	
Dimensions H × W × D	mm	632 x 799 x 290	632 x 799 x 290	716 x 820 x 315	
Weight (Net)	kg	39	39	42	
Refrigerant	Type (Global Warming Potential)		R32(675)	R32(675)	
	Charge	kg	0.97	0.97	
Additional refrigerant charge amount		g/m	25	25	
			25	25	
Connection pipe	Diameter	Liquid	mm	6.35	
		Gas	mm	12.70	
	Length	Min/Max	m	3/30	
		Length(Pre-charge)	m	15	
Height difference	Max	m	20		
			20		
Operation range	Heating	°C	-20 to 35	-20 to 35	

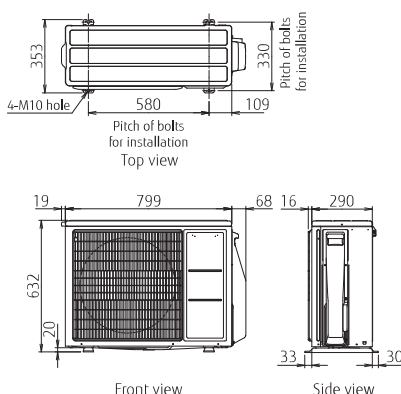
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

*2:All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

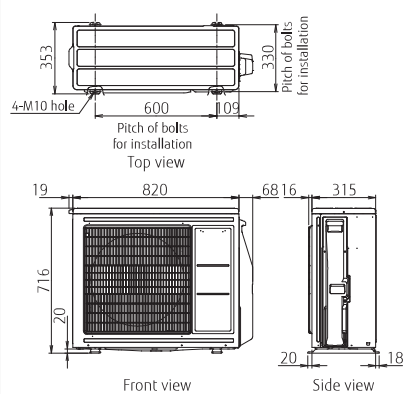
*3:The values of sound power level are based on measurement of EN12102 standard under conditions of EN14825 standard.

Dimensions

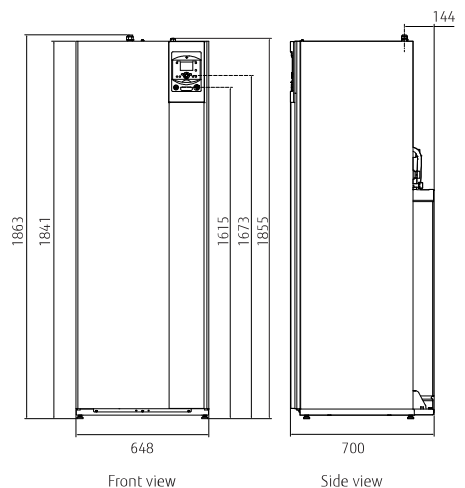
Outdoor Unit:
WOYA060KLT



WOYA080KLT



Hydraulic Indoor Unit:
WGYA050ML3/WGYA080ML3



Split DHW Integrated Type

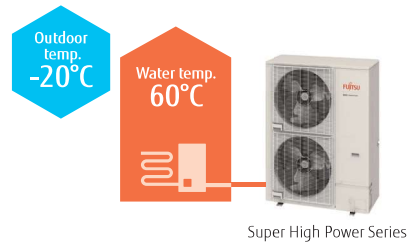
Super High Power Series



High Leaving Water Temperature

High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters. And it's possible to supply 55°C at -22°C outdoor temperature without backup heater.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



High COP

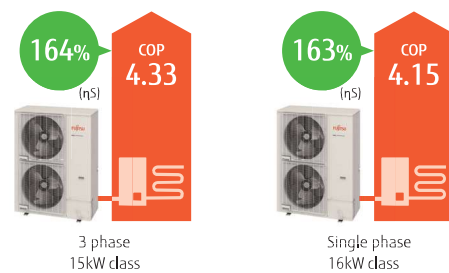
Waterstage Air to water heat pumps work much more efficient and save energy compared to traditional heating system.

Energy efficiency class



Seasonal space heating energy efficiency (η_s)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



Extended Operation Range down to -25°C

Improved operation range down to -25°C outdoor temperature



Stylish space saving solution with
**Built in High Performance
DHW Tank 190 L**



- DHW Production with coil heat exchanger to optimise the DHW performance
- Quick temperature rise due to a big exchanger surface

Hydraulic indoor unit:
WGYG160DJ6 / [3 phase] WGYK170DJ9
Outdoor unit:
WOYG160LJL
[3 phase] WOYK150LJL / WOYK170LJL



Hydraulic indoor unit
 Single phase/
 3 phase



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

Specifications

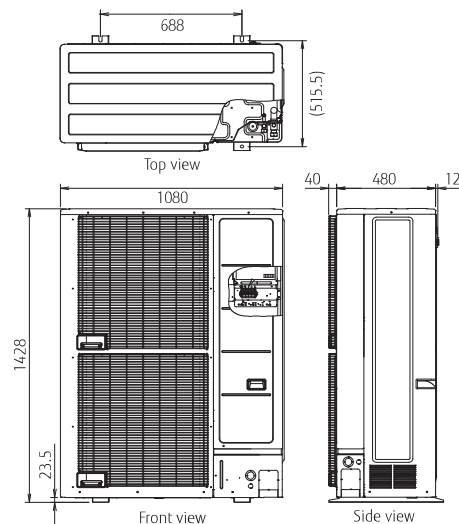
Model Name	Hydraulic indoor unit	WGYG160DJ6	WGYK170DJ9	WGYK170DJ9			
Capacity range	Outdoor unit	WOYG160LJL	WOYK150LJL	WOYK170LJL			
7°C/35°C floor heating *1	Heating capacity	16.00	15.00	17.00			
	Input power	3.86	3.46	4.10			
	COP	4.15	4.33	4.15			
2°C/35°C floor heating *1	Heating capacity	13.30	13.20	13.50			
	Input power	4.25	4.06	4.27			
	COP	3.13	3.25	3.16			
-7°C/35°C floor heating*1	Heating capacity	14.50	13.20	15.00			
	Input power	5.27	4.55	5.32			
	COP	2.75	2.90	2.82			
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	14	16	16	17	17	18
Seasonal space heating energy efficiency(η _s)	%	125	163	130	164	130	161
Annual energy consumption	kWh	8,757	8,014	9,915	8,606	10,232	9,059
Sound power level	Hydraulic indoor unit	dB(A)		45	45	45	45
	Outdoor unit	dB(A)		67	66	67	68
Domestic hot water characteristics*2							
Load profile				L			
Energy efficiency class				A			
Energy efficiency(η _{wh})	%			109			
Annual electricity consumption	kWh			941			
Hydraulic indoor unit Specification							
Power source		Single phase, 230 V 50 Hz		3 phase, 400 V 50 Hz			
Dimensions H×W×D	mm			1,841 × 648 × 698			
Weight (Net)	kg			166			
Water circulation	L/min	26.4/57.8		24.0/54.2	27.3/61.4		
DHW capacity	L			190			
Hot water heater capacity	kW			1.5			
Buffer tank capacity	L			25			
Expansion vessel capacity	L			12			
Leaving water temperature range	Max			°C 60			
Water pipe connection diameter	Flow/Return			mm Ø 25.4/Ø 25.4			
Hot water pipe connection diameter				mm Ø 19.05			
Backup heater	Capacity	kW 6.0(3.0kW×2pcs.)		9.0(3.0kW×3pcs.)			
Outdoor unit specification							
Power source		Single phase, 230 V 50 Hz		3 phase, 400 V 50 Hz			
Current	Max	A 28.0		14.0			
Dimensions H × W × D	mm	1,428 × 1,080 × 480		1,428 × 1,080 × 480			
Weight (Net)	kg	137		138			
Refrigerant	Type (Global Warming Potential)	R410A (2,088)		R410A (2,088)			
	Charge	kg 3.80		3.80			
Additional refrigerant charge amount	q/m	50		50			
Connection pipe	Diameter	Liquid	mm Ø 9.52				
		Gas	mm Ø 15.88				
	Length	Min/Max	m 5/30				
	Length(Pre-charge)		m 15				
Height difference	Max	m 25/15 (Outdoor unit:Upper/Lower)		25/15 (Outdoor unit:Upper/Lower)			
Operation range	Heating	°C -25 to 35		-25 to 35			

*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

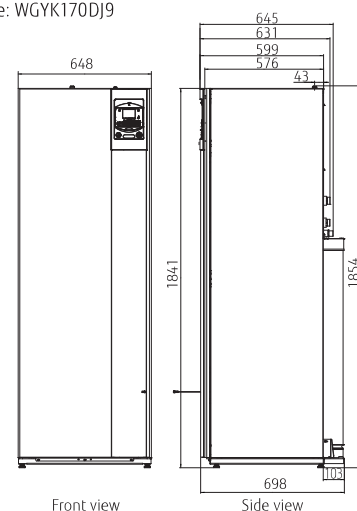
*2:All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

Dimensions

Outdoor Unit:
 Single phase: WOYG160LJL
 3 phase: WOYK150LJL/WOYK170LJL



Hydraulic Indoor Unit:
 Single phase: WGYG160DJ6
 3 phase: WGYK170DJ9



Split DHW Integrated Type

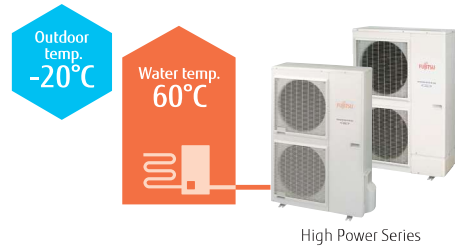
High Power Series



High Leaving Water Temperature

High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



High COP

Waterstage Air to water heat pumps work much more efficient and save energy compared to traditional heating system.

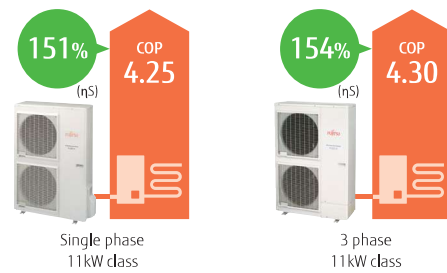
Energy efficiency class



*Temperature application : Heating Temp. 35°C.

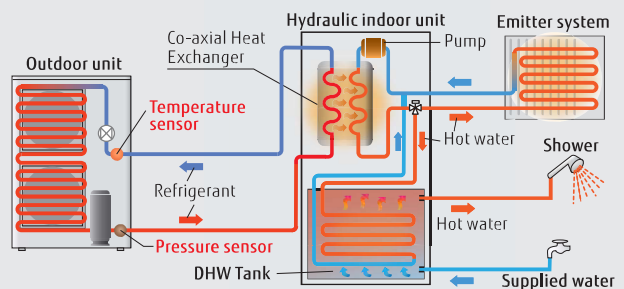
Seasonal space heating energy efficiency (η_s)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



Optimization of refrigerant cycle operation

High Power model achieves a high performance and high efficiency by adopting twin sensors and control technology corresponding to hot water heating.



Hydraulic indoor unit:
WGYG140DG6 / [3 phase] WGYK160DG9

Outdoor unit:
WOYG112LHT / WOYG140LCTA
[3 phase] WOYK112LCTA / WOYK140LCTA /
WOYK160LCTA



Hydraulic indoor unit
Single phase/
3 phase



Outdoor unit
Single phase
11/14 kW



Outdoor unit
3 phase
11/14/16 kW

Specifications

Model Name	Hydraulic indoor unit	WGYG140DG6	WGYG140DG6	WGYK160DG9	WGYK160DG9	WGYK160DG9		
Capacity range	Outdoor unit	WOYG112LHT	WOYG140LCTA	WOYK112LCTA	WOYK140LCTA	WOYK160LCTA		
7°C/35°C floor heating *1	Heating capacity	11	14	11	14	16		
	Input power	10.80	13.50	10.80	13.50	15.17		
	COP	2.54	3.23	2.51	3.20	3.70		
2°C/35°C floor heating *1	Heating capacity	4.25	4.18	4.30	4.22	4.10		
	Input power	10.77	12.00	10.77	13.00	13.50		
	COP	3.44	3.87	3.40	4.15	4.34		
-7°C/35°C floor heating*1	Heating capacity	3.13	3.10	3.17	3.13	3.11		
	Input power	10.38	11.54	10.38	12.20	13.50		
	COP	4.32	5.08	4.28	5.13	5.40		
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	9	11	11	13	9	11	
Seasonal space heating energy efficiency (η _s)	%	112	151	113	148	112	154	
Annual energy consumption	kWh	6,704	6,062	8,041	6,824	6,669	5,930	
Sound power level	Hydraulic indoor unit	46		46		46		
	Outdoor unit	68		69		70		
Domestic hot water characteristics*2								
Load profile						L		
Energy efficiency class						A		
Energy efficiency (η _{wh})	%					88		
Annual electricity consumption	kWh					1166		
Hydraulic indoor unit Specification								
Power source		Single phase 230 V 50 Hz			3 phase, 400 V 50 Hz			
Dimensions H×W×D	mm				1,840× 648 × 698			
Weight (Net)	kg				152			
Water circulation	L/min	19.5/39.0	24.4/28.7	19.5/39.0	24.4/48.7	27.4/54.8		
DHW capacity	L				190			
Hot water heater capacity	kW				1.5			
Buffer tank capacity	L				16			
Expansion vessel capacity	L				12			
Leaving water temperature range	Max				°C 60			
Water pipe connection diameter	Flow/Return				mm Ø 25.4/Ø 25.4			
Hot water pipe connection diameter					mm Ø 19.05			
Backup heater	Capacity	6.0(3.0kW×2pcs.)			9.0(3.0kW×3pcs.)			
Outdoor unit specification								
Power source		Single phase 230 V 50 Hz			3 phase, 400 V 50 Hz			
Current	Max	A 22.0	A 25.0	A 9.0	A 9.5	A 10.5		
Dimensions H × W × D	mm				1,290 × 900 × 330			
Weight (Net)	kg	92			99			
Refrigerant	Type (Global Warming Potential)				R410A (2,088)			
	Charge				kg 2.50			
Additional refrigerant charge amount	g/m				50			
Connection pipe	Diameter	Liquid				mm Ø 9.52		
		Gas				mm Ø 15.88		
	Length (Pre-charge)	Min/Max				m 5/20		
	Height difference	Max				m 15		
Operation range	Heating				°C -25 to 35			

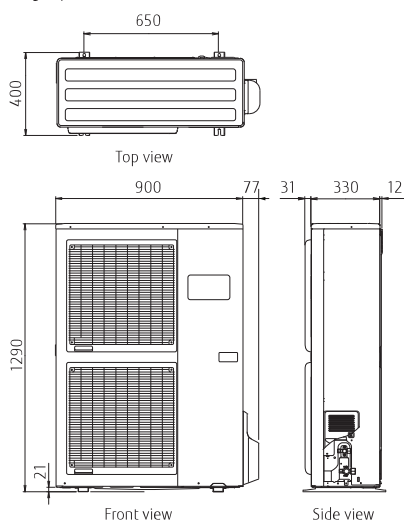
*1: The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

*2: All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

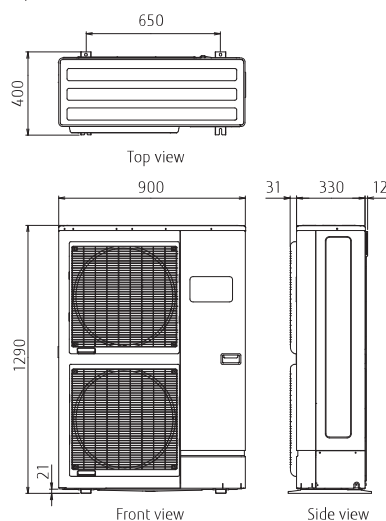
Dimensions

Outdoor Unit:

Single phase: WOYG112LHT/WOYG140LCTA

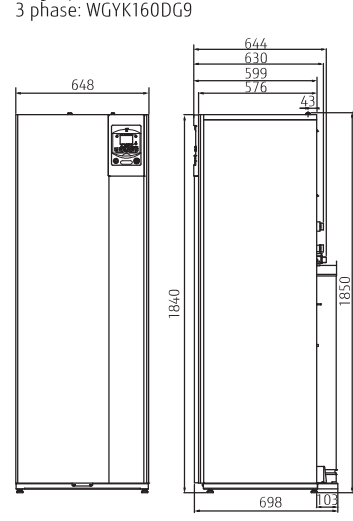


3 phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic Indoor Unit:

Single phase: WGYG140DG6
3 phase: WGYK160DG9



Split DHW Integrated Type

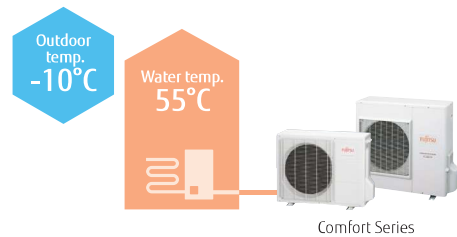
Comfort Series



High Leaving Water Temperature

Maximum leaving water temperature is 55°C without backup heater. Hot water supply temperature can be maintained even at -10°C outdoor temperature.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



High COP

Waterstage Air to water heat pumps work much more efficient and save energy compared to traditional heating system.

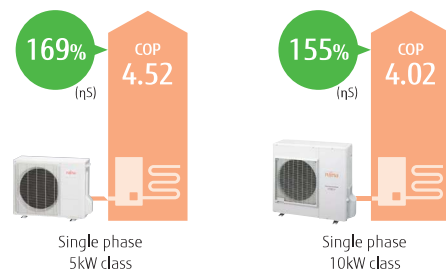
Energy efficiency class



*Temperature application : Heating Temp. 35°C.

Seasonal space heating energy efficiency (η_s)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



Outdoor unit technology



DC Fan Motor

High performance, high efficiency small DC fan motor mounted.



DC Twin Rotary Compressor

High efficient DC twin rotary compressor



DC Inverter

Smooth water temperature control realized by DC inverter control.

Hydraulic indoor unit:
WGYA050DG6 / WGYA100DG6

Outdoor unit:
WOYA060LFCA / WOYA080LFCA /
WOYA100LFCA



Hydraulic indoor unit
Single phase



Outdoor unit
Single phase
5/6/8kW



Outdoor unit
Single phase
10kW

Specifications

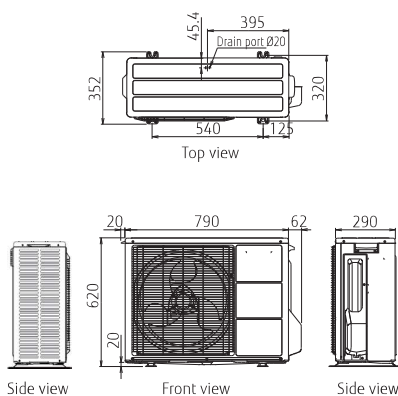
Model Name	Hydraulic indoor unit	WGYA050DG6	WGYA100DG6	WGYA100DG6	WGYA100DG6
Capacity range	Outdoor unit	WOYA060LFCA	WOYA060LFCA	WOYA080LFCA	WOYA100LFCA
7°C/35°C floor heating *1	Heating capacity	4.50	6.00	7.50	10.00
	Input power	0.996	1.41	1.84	2.49
	COP	4.52	4.27	4.08	4.02
2°C/35°C floor heating *1	Heating capacity	4.50	4.95	5.65	7.70
	Input power	1.39	1.53	1.78	2.47
	COP	3.24	3.24	3.17	3.12
-7°C/35°C floor heating*1	Heating capacity	4.10	4.60	5.70	7.40
	Input power	1.47	1.74	2.23	2.97
	COP	2.79	2.64	2.56	2.49
Space heating characteristics*2					
Temperature application	°C	55	35	55	35
Energy efficiency class		A+	A++	A+	A++
Rated heat output(P _{rated})	kW	4	4	5	5
Seasonal space heating energy efficiency(η _s)	%	115	169	115	169
Annual energy consumption	kWh	3,026	2,160	3,180	2,505
Sound power level	Hydraulic indoor unit	46		46	
	Outdoor unit	65	60	65	63
Domestic hot water characteristics*2					
Load profile		L			
Energy efficiency class		A+			
Energy efficiency(η _{wh})	%	120			
Annual electricity consumption	kWh	880			
Hydraulic indoor unit Specification					
Power source		Single phase 230 V 50 Hz			
Dimensions H×W×D	mm	1,840× 648 × 698			
Weight (Net)	kg	152			
Water circulation	L/min	8.1/16.2	10.8/21.7	13.5/27.1	18.1/36.1
DHW capacity	L	190			
Hot water heater capacity	kW	1.5			
Buffer tank capacity	L	16			
Expansion vessel capacity	L	12			
Leaving water temperature range	Max °C	55			
Water pipe connection diameter	Flow/Return	mm Ø 25.4/Ø 25.4			
Hot water pipe connection diameter		mm Ø 19.05			
Backup heater	Capacity	kW 6.0(3.0kW×2pcs.)			
Outdoor unit specification					
Power source		Single phase 230 V 50 Hz			
Current	Max	A	12.5	17.5	18.5
Dimensions H × W × D	mm	620 × 790 × 290		830 × 900 × 330	
Weight (Net)	kg	41		60	
Refrigerant	Type (Global Warming Potential)	R410A (2,088)			
	Charge	kg	1.10	1.40	1.80
Additional refrigerant charge amount	g/m	25		40	
Connection pipe	Diameter	Liquid	mm Ø 6.35		Ø 9.52
		Gas	Ø 12.70		Ø 15.88
	Length	Min/Max	m 5/30		15
	Height difference	Max	m 20		
Operation range	Heating	°C -20 to 35			

*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

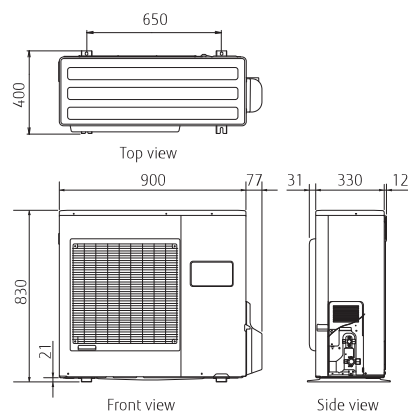
*2:All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

Dimensions

Outdoor Unit:
WOYA060LFCA/WOYA080LFCA



WOYA100LFCA



Hydraulic Indoor Unit:
WGYA050DG6/WGYA100DG6

