

PRODUCT LINEUP

AIR TO WATER

For RESIDENTIAL

Room Heating & Cooling



Domestic Hot Water



Swimming Pool

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.

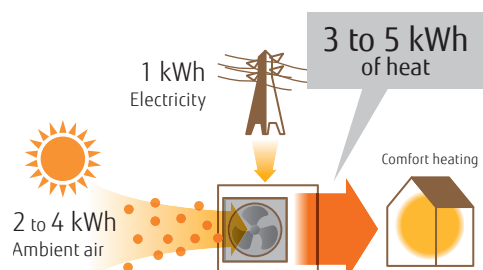
WATERSTAGE™



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What's a Heat Pump ?

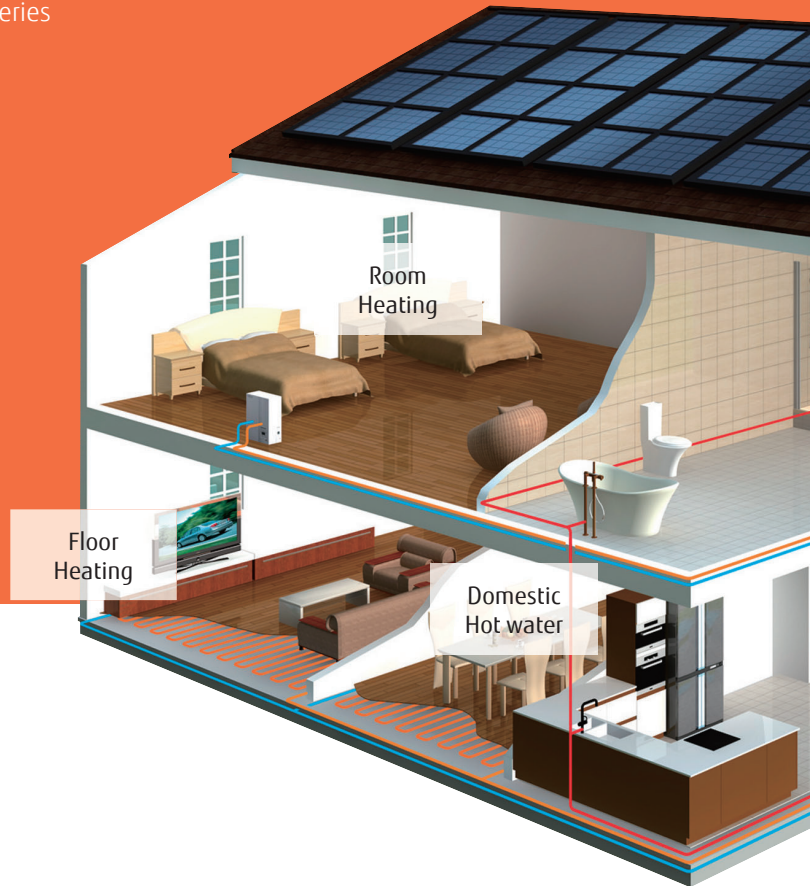
Absorbing free energy from the atmosphere. Heat pump system requires only 1 kW of electricity to generate 3 to 5 kW thermal energy.





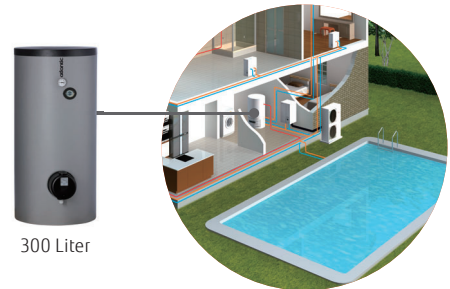
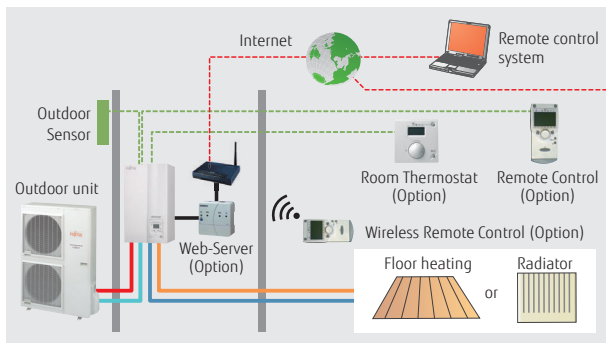
HOME HEATING

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



High leaving water temperature

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



+ DHW Tank

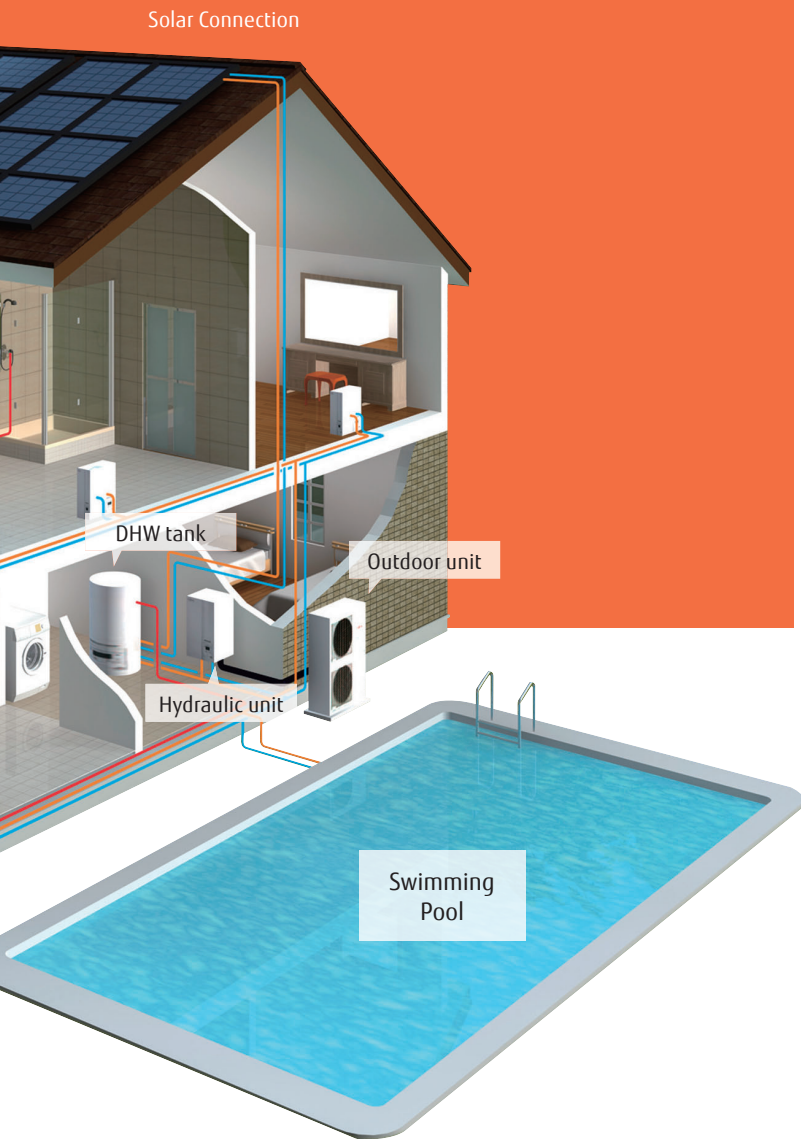
DHW tank (option) can be used to supply hot water by connecting it to the system.

+ Boiler

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

Smart control

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



Stylish space saving solution with built-in DHW tank



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

Existing boiler can be replaced easily. A larger heating capacity can be performed flexibly by using more units in cascade connection.



For Room heating & domestic hot water

Split type Super High Power series

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.



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Appearance-oriented compact outdoor unit

Split type Comfort series

For Comfort series, optimized flow temperature control is realized by DC inverter technology.

 244 Page



Monobloc type

Outdoor unit and hydraulic indoor unit can be installed anywhere due to compact size. Installation work can be performed easily only by connecting hydraulic pipes. DHW tank can be connected to indoor side.



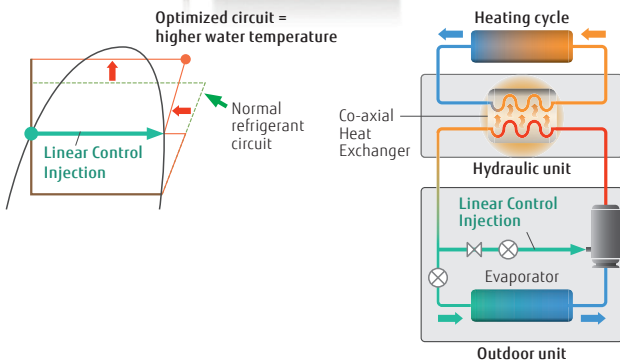
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CORE TECHNOLOGY

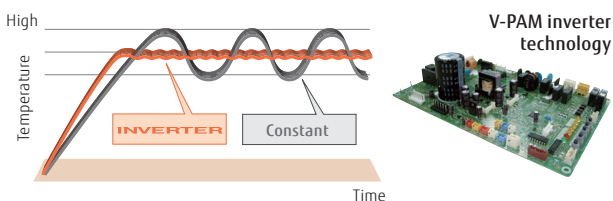
High Efficiency

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.



Accurate temperature control by DC inverter technology



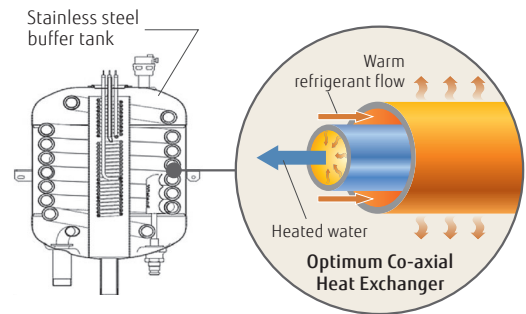
For Hydraulic Indoor Unit Class A pump

Energy saving pump with constant volume or pressure adjustment function.



Stainless steel buffer tank

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



Easy Control



Hydraulic Indoor Unit Controller 4 Heating mode

- 1. Automatic mode**
Comfort/Reduce mode switching automatically according to time program
- 2. Reduce mode**
Constant reduce temperature
- 3. Comfort mode**
Constant comfort temperature
- 4. Protection mode**
Stand-by mode with anti-frost protection

WATERSTAGE™ Lineup

Capacity (kW)	5	6	8	10	11	14	15	16	17
Split	NEW Super High Power series 3 phase Page 244 Hydraulic Indoor Unit/Outdoor Unit						 WSYK170DJ9 / WOYK150LJL		 WSYK170DJ9 / WOYK170LJL
	High Power series Single phase Page 244 Hydraulic Indoor Unit/Outdoor Unit					 WSYG140DG6 / WOYG112LHT WSYG140DG6 / WOYG140LCTA			
	High Power series 3 phase Page 244 Hydraulic Indoor Unit/Outdoor Unit					 WSYK160DG9 / WOYK112LCTA WSYK160DG9 / WOYK140LCTA		 WSYK160DG9 / WOYK160LCTA	
	Comfort series Page 244 Hydraulic Indoor Unit/Outdoor Unit	 WSYA050DG6 / WOYA060LFCA	 WSYA100DG6 / WOYA060LFCA	 WSYA100DG6 / WOYA080LFCA	 WSYA100DG6 / WOYA100LFTA				
Split DHW Integrated	High Power series Single phase Page 244 Hydraulic Indoor Unit/Outdoor Unit					 WGYG140DG6 / WOYG112LHT WGYG140DG6 / WOYG140LCTA			
	High Power series 3 phase Page 244 Hydraulic Indoor Unit/Outdoor Unit					 WGYK160DG9 / WOYK112LCTA WGYK160DG9 / WOYK140LCTA		 WGYK160DG9 / WOYK160LCTA	
	Comfort series Page 244 Hydraulic Indoor Unit/Outdoor Unit	 WGYA050DG6 / WOYA060LFCA	 WGYA100DG6 / WOYA060LFCA	 WGYA100DG6 / WOYA080LFCA	 WGYA100DG6 / WOYA100LFTA				
Monobloc	Compact series with hydraulic unit Page 246 Hydraulic Indoor Unit/Outdoor Unit	 WSPY100DG6 / WPYA050LG		 WSPY100DG6 / WPYA080LG WSPY100DG6 / WPYA100LG					

EHPA Quality Label



Fujitsu General's WATERSTAGE* have obtained the EHPA Quality Label** by tests according to the international Standards EN14511 and EN17025. The EHPA Quality Label** is a label that shows the end-consumer a quality heat pump unit on the market.

*: High Power split model

** : Check the validity of label at www.ehpa.org/QL

SG-Ready Label



SG-Ready is a defined standard by BWP***, 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.

***BWP: the Federal German Heat Pump Association

PRODUCT LINEUP: AIR TO WATER

Split Type

Super high power series
High power series
Comfort series



Super high power series

Hydraulic indoor unit:
[3phase] WSYK170D)9
Outdoor unit:
[3phase] WOYK150LJL/WOYK170LJL



Hydraulic indoor unit
3 Phase
Outdoor unit
3 Phase
15/17 kW

High power series

Hydraulic indoor unit:
WSYG140DG6/[3phase] WSYK160DG9
Outdoor unit:
WOYG112LHT/WOYG140LCTA
[3phase] WOYK112LCTA/WOYK140LCTA/
WOYK160LCTA



Hydraulic indoor unit
Single Phase/
3 Phase
Outdoor unit
Single Phase
11/14 kW
3 Phase
11/14/16 kW

Comfort series

Hydraulic indoor unit:
WSYA050DG6/WSYA100DG6
Outdoor unit:
WOYA060LFCA/WOYA080LFCA/
WOYA100LFTA



Hydraulic indoor unit
Outdoor unit
5/6/8 kW
10 kW

Split DHW Integrated Type

High power series
Comfort series



High power series

Hydraulic indoor unit:
WGYG140DG6/[3phase] WGYK160DG9
Outdoor unit:
WOYG112LHT/WOYG140LCTA
[3phase] WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic indoor unit
Single Phase/
3 Phase
Outdoor unit
Single Phase
11/14 kW
3 Phase
11/14/16 kW

Comfort series

Hydraulic indoor unit:
WGYA050DG6/WGYA100DG6
Outdoor unit:
WOYA060LFCA/WOYA080LFCA/WOYA100LFTA



Hydraulic indoor unit
Outdoor unit
5/6/8 kW
10 kW

High leaving water temperature

Super High power series:

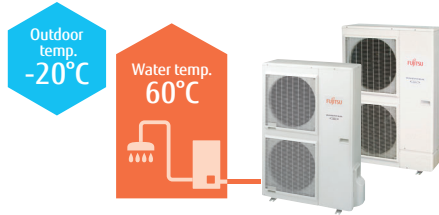
High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters. Maximum leaving water temperature is 55°C without backup heater. Hot water supply temperature can be maintained even at -22°C outdoor temperature.



Super high power series

High power series:

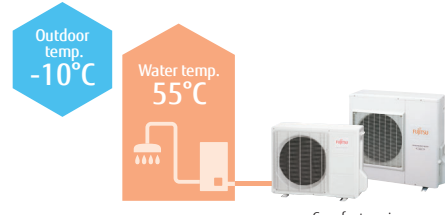
High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.



High power series

Comfort series:

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



Comfort series

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

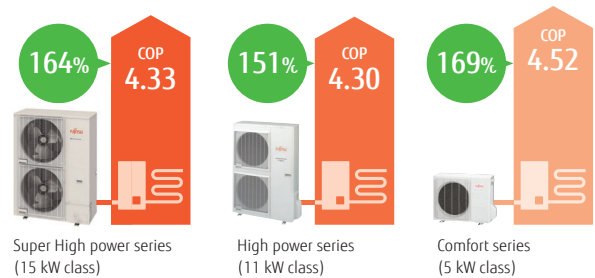
High COP

Air to water heat pumps work with much more efficiency and save more energy than a traditional heating system.

Energy efficiency class



Seasonal space heating energy efficiency (η_s)

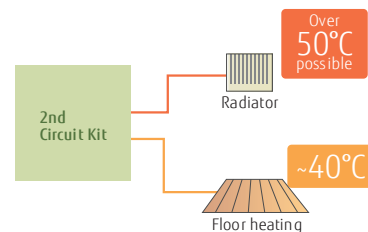


Condition : Outdoor Temp. 7°C Heating Temp. 35°C.

2 Zone individual control*

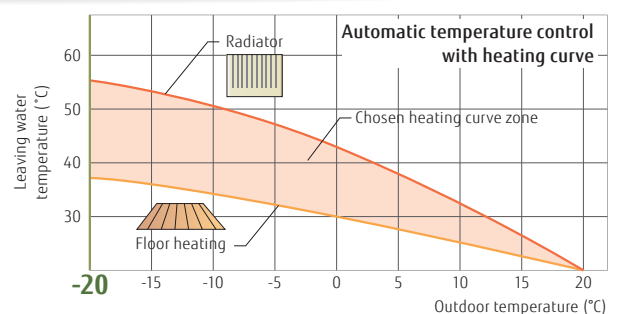
2 Zone individual control (2 under floor heating zones or under floor heating + radiator zone, etc.)*

*: Optional parts are required.



Automatic heating curve control

Automatic temperature regulation in accordance with heating curve (Depends on heating terminal and outdoor temperature)



Monobloc Type

Comfort series



Compact series

Hydraulic indoor unit:

WSYP100DG6

Outdoor unit :

WPYA050LG / WPYA080LG / WPYA100LG



Hydraulic indoor unit



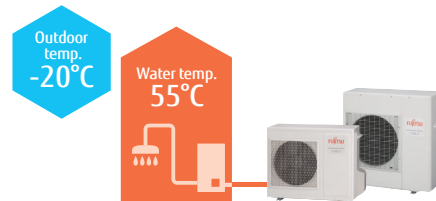
Outdoor unit 5 kW



8/10 kW

High leaving water temperature

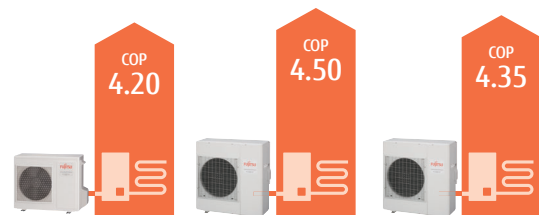
High leaving water temperature of 55°C keeps to -20°C outdoor temperature without additional heater.



High COP

High COP is realized by using a DC twin rotary compressor, inverter technology, and high efficient water heat exchanger.

Energy efficiency class



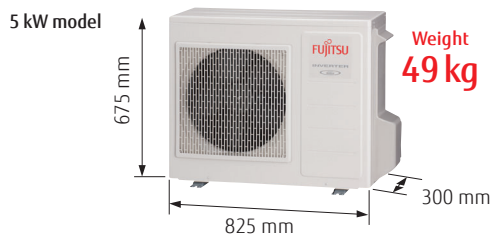
5 kW class

8 kW class

10 kW class

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

Compact & light weight design



Features of the hydraulic indoor unit

- The compact Indoor unit provides two electrical back up heater, each with 3 kW capacity
- 12 L expansion vessel included
- No waste of space. DHW Kit installation inside the hydraulic unit possible.
- New generation controller. Connection by MODBUS protocol possible.
- Integrated heat metering (flow sensor included).



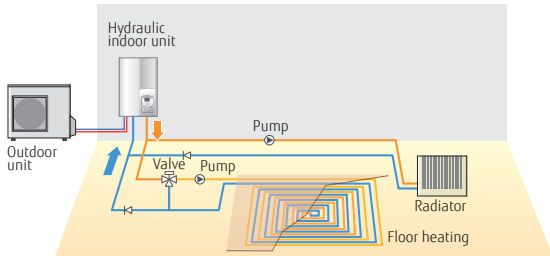
Hydraulic indoor unit

Case Studies

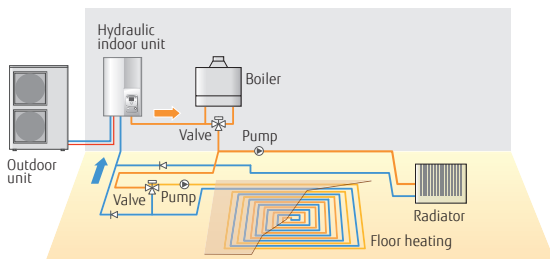
Split Type

2 emitter simultaneous heating (Individual control)

Floor heating + Radiator



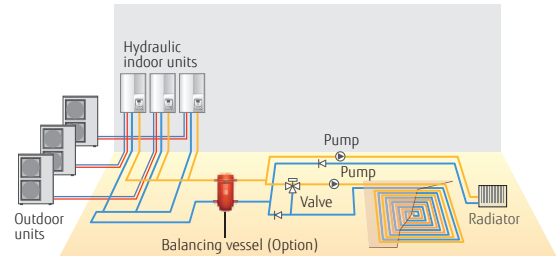
Boiler connected to heating (Boiler + Heating)



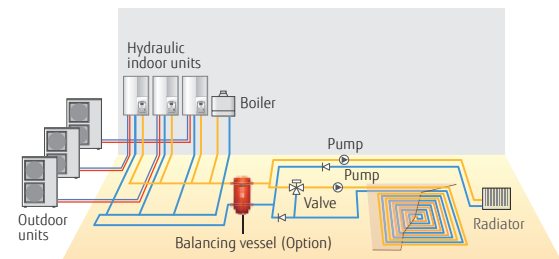
Split Cascade System

2 emitter simultaneous heating (Individual control)

Floor heating + Radiator



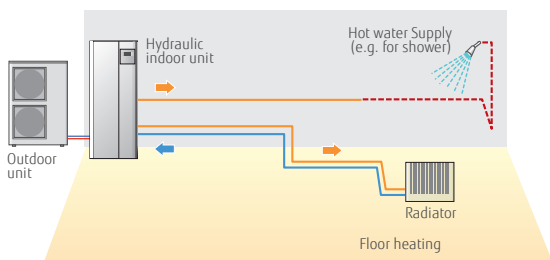
Boiler connected to heating (Boiler + Heating)



Split DHW Integrated Type

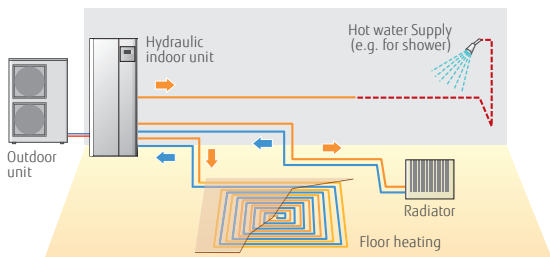
Single heating & Domestic Hot Water

Radiator + Domestic Hot Water



2 emitter simultaneous heating (Individual control) & Domestic Hot Water

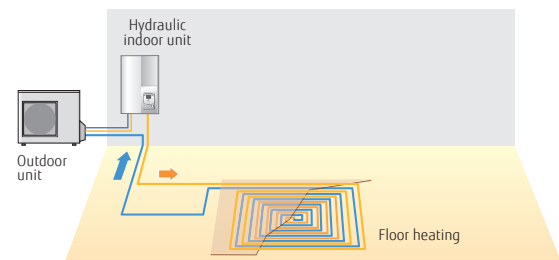
Radiator + Domestic Hot Water



Monobloc Type

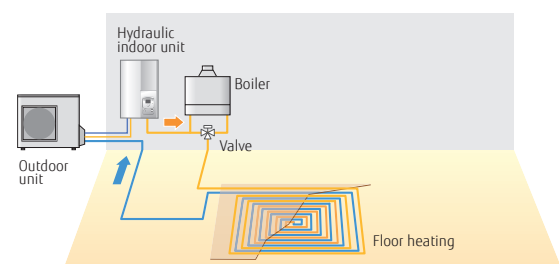
Single heating system

Floor heating



Boiler connected to heating (Boiler + Heating)

Floor heating



SPLIT
MULTI SPLIT
VRF
VENTILATION
OPTIONAL PARTS
AIR TO WATER

Optional Parts

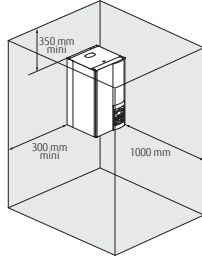
Product Name	Model Name	Split										Split DHW integrated type								Monobloc				
		Super High Power		High Power				Comfort				High Power			Comfort					Compact				
		3Ø		1Ø		3Ø		1Ø		1Ø		3Ø	1Ø					1Ø						
		15	17	11	14	11	14	16	5	6	8	10	11	14	11	14	16	5	6	8	10	5	8	10
2nd Circuit Kit	 UTW-KZSXE	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-
	 UTW-KZDXE	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●	●	-	-	-	-
Boiler Connection Kit	 UTW-KBSXD	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	
	 UTW-KBDXD	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●	●	-	-	-	-
Balancing Vessel	 UTW-TEVXA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
DHW Kit	 UTW-KDWXG (Internal)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	●	-
	 UTW-KDWXD (External)	●	●	●	●	●	●	●	●	●	●	●	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1
DHW Tank	200 Liter  UTW-T20AXH 300 Liter 400 Liter	●	●	●	●	●	●	●	●	●	●	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	
	200 Liter  UTW-T20BXH 300 Liter 400 Liter	●	●	●	●	●	●	●	●	●	●	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	
Circulating Pump	 UTW-PHFXG	●	●	●	●	●	●	-	-	-	-	●	●	●	●	●	-	-	-	-	-	-	-	
Swimming Pool Kit	 UTW-KSPXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Heat Exchanger for Swimming Pool Kit	 UTW-ESPXA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cooling Kit	 UTW-KCLXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	_*2	_*2	_*2	-
Regulation Extension Kit	 UTW-KREXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Low Noise Kit	 UTW-KLNXE	●	●	●	●	●	●	-	-	-	-	●	●	●	●	●	-	-	-	-	-	-	-	-
Drain Pan	 UTW-KDPXA	-	-	-	-	-	-	●	●	●	-	-	-	-	-	●	●	●	-	-	-	-	-	
Cascade Master Kit (incl. LPB Clip)	 UTW-KCMXE	●	●	●	●	●	●	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	
Cascade Slave Kit (incl. LPB Clip)	 UTW-KCSXE	●	●	●	●	●	●	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	

Installation Limitations

Equipment Installation

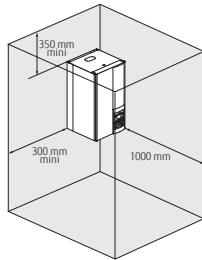
Split type Hydraulic indoor unit

- Hydraulic indoor unit is to be hang on the wall
- Weight < 65 kg (including water)
- Space for maintenance should be respected



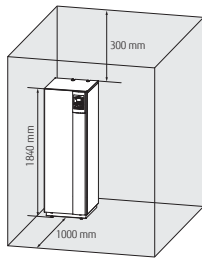
Monobloc Type Hydraulic indoor unit

- Hydraulic indoor unit is to be hang on the wall
- Weight < 62 kg (including water)
- Distances for maintenance should be respected



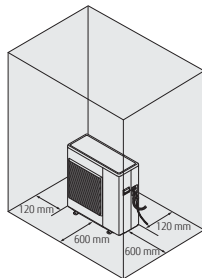
Split DHW integrated type Hydraulic indoor unit

- Floor stand
- Weight 366 kg (including water)
- Space for maintenance should be respected.



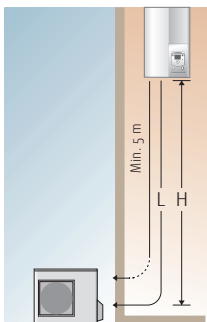
Monobloc type Outdoor unit

- Floor stand
- Weight 72 kg (without water): WPYA080LG, WPYA100LG
- 49 kg (without water): WPYA050LG
- Distances for maintenance should be kept



Piping and Wiring

Split type



Series	Capacity range(kW)	H (m)	L (m)
Comfort	5	±20	5-30
	6		
	8		
	10		
High power	11	±15	5-20
	14		
	15		
	16		
	17		

*For the outdoor unit installed below the indoor units: 25 m max. (15, 17 kW models)

Specifications & Dimensions

Split type Super high power series/High power series

Specifications

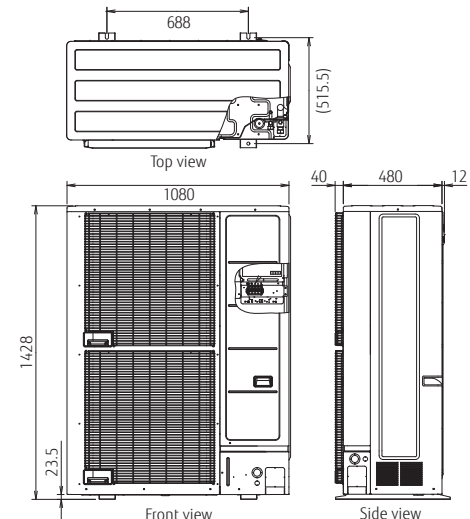
Model Name		Hydraulic indoor unit		Outdoor unit	
Capacity range					
7°C/35°C floor heating *1		Heating capacity	Input power		kW
		COP			
2°C/35°C floor heating *1		Heating capacity	Input power		kW
		COP			
-7°C/35°C floor heating *1		Heating capacity	Input power		kW
		COP			
Space heating characteristics*2					
Temperature application					°C
Energy efficiency class					
Rated heat output (P _{rated})					kW
Seasonal space heating energy efficiency (η _s)					
Annual energy consumption					kWh
Sound power level	Hydraulic indoor unit				dB(A)
	Outdoor unit				
Hydraulic indoor unit Specification					
Power source					
Dimensions H×W×D					mm
Weight (Net)					kg
Water circulation					Min/Max L/min
Buffer tank capacity					L
Expansion vessel capacity					L
Leaving water temperature range					Max °C
Water pipe connection diameter					Flow/Return mm
Backup heater					Capacity kW
Outdoor unit specification					
Power source					
Current					Max A
Dimensions H × W × D					mm
Weight (Net)					kg
Refrigerant					
Type (Global Warming Potential)					Charge
Additional refrigerant charge amount					kg/g/m
Connection pipe	Diameter		Liquid		mm
			Gas		
	Length		Min/Max		m
	Length (Pre-charge)				m
Height difference		Max		m	
Operation range					Heating °C

*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/products/erp-ecodesign/index.html.

Dimensions

NEW Super high power series
Outdoor Unit:
 WOYG150LJL/WOYG170LJL

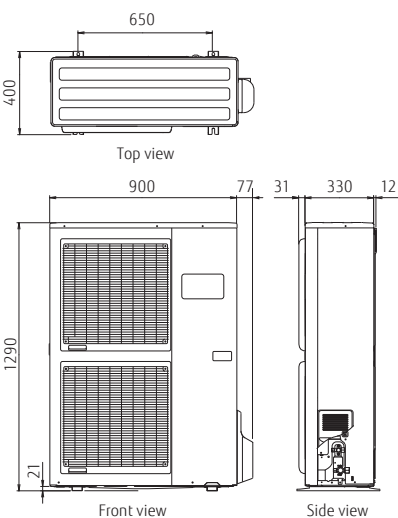


NEW

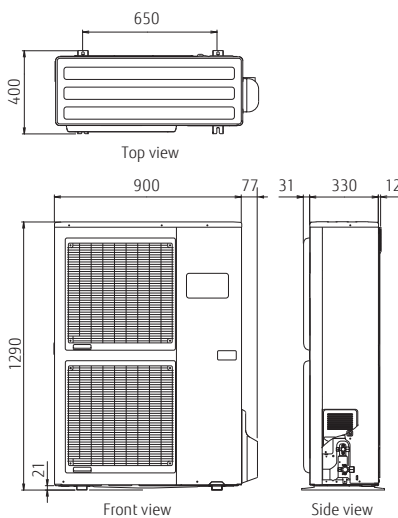
Super high power series			
WSYK170DJ9 WOYK150LJL	WSYK170DJ9 WOYK170LJL		
15	17		
15.00	17.00		
3.46	4.13		
4.33	4.12		
-	-		
-	-		
-	-		
13.2	15.0		
4.55	5.32		
2.90	2.82		
55	35	55	35
A++	A++	A++	A++
16	17	17	18
130	164	130	161
9849	8635	10178	9092
68	67	68	68
3 N 400 V 50 Hz			
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
3 N 400 V 50 Hz			
-	-	-	-
1,428 × 1,080 × 480	1,428 × 1,080 × 480		
138	138		
R410A (2,088)			
3.80	3.80		
50	50		
Ø 9.52	Ø 9.52		
Ø 15.88	Ø 15.88		
5/30	5/30		
15	15		
15	15		
-25 to 35	-25 to 35		

High power series									
WSYG140DG6 WOYG112LHT		WSYG140DG6 WOYG140LCTA		WSYK160DG9 WOYK112LCTA		WSYK160DG9 WOYK140LCTA		WSYK160DG9 WOYK160LCTA	
11	14	11	14	11	14	11	14	11	14
10.80	13.50	10.80	13.50	10.80	13.50	10.80	13.50	10.80	13.50
2.54	3.23	2.51	3.20	2.51	3.20	2.51	3.20	2.51	3.20
4.25	4.18	4.30	4.22	4.30	4.22	4.30	4.22	4.30	4.22
10.77	12.00	10.77	13.00	10.77	13.00	10.77	13.50	10.77	13.50
3.44	3.87	3.40	4.15	3.40	4.15	3.40	4.34	3.40	4.34
3.13	3.10	3.17	3.13	3.17	3.13	3.17	3.11	3.17	3.11
10.38	11.54	10.38	12.20	10.38	12.20	10.38	13.50	10.38	13.50
4.32	5.08	4.28	5.13	4.28	5.13	4.28	5.40	4.28	5.40
2.40	2.27	2.43	2.38	2.43	2.38	2.43	2.50	2.43	2.50
55	35	55	35	55	35	55	35	55	35
A+	A++	A+	A+	A+	A++	A+	A++	A+	A+
9	11	11	13	9	11	11	13	9	11
112	151	113	148	112	154	117	150	117	149
6704	6062	8041	6824	6669	5930	7803	6738	9062	7408
46	46	46	46	46	46	46	46	46	46
68	69	69	68	69	68	70	68	71	71
1 Ø 230 V 50 Hz					3 N 400 V 50 Hz				
800 × 450 × 457					800 × 450 × 457				
42					42				
19.5/39.0		24.4/48.7		19.5/39.0		24.4/48.7		27.4/54.8	
16					16				
8					8				
60					60				
Ø 25.4/Ø 25.4					Ø 25.4/Ø 25.4				
6.0(3.0kW×2pcs.)					9.0(3.0kW×3pcs.)				
1 Ø 230 V 50 Hz					3 N 400 V 50 Hz				
22.0		25.0		8.5		9.5		10.5	
92					1,290 × 900 × 330				
92					99				
R410A (2,088)					R410A (2,088)				
2.50					2.50				
50					50				
Ø 9.52					Ø 9.52				
Ø 15.88					Ø 15.88				
5/20					5/20				
15					15				
15					15				
-25 to 35					-25 to 35				

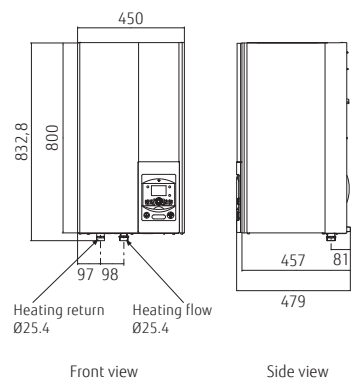
High power series
Outdoor Unit:
WOYG112LHT/WOYG140LCTA



WOYG112LHT/WOYG140LCTA



Hydraulic Indoor Unit:
WSYK170DJ9 (Super high power series)
WSYG140DG6/WSYK160DG9 (High power series)



Specifications & Dimensions

Split type Comfort series

Specifications

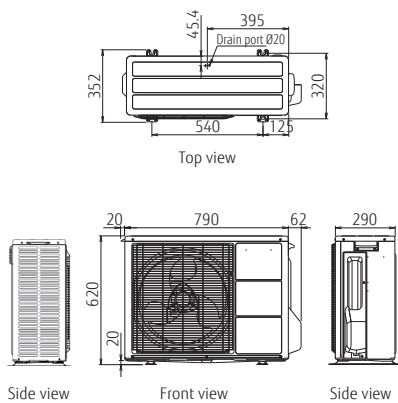
Model Name	Hydraulic indoor unit Outdoor unit	WSYA050DG6 WOYA060LFCA	WSYA100DG6 WOYA060LFCA	WSYA100DG6 WOYA080LFCA	WSYA100DG6 WOYA100LFCA					
Capacity range		5	6	8	10					
7°C/35°C floor heating *1	Heating capacity	4.50	6.00	7.50	10.00					
	Input power	0.996	1.41	1.84	2.49					
	COP	4.52	4.27	4.08	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	3026	2160	3180	2505	3886	3375	5415	4415	
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		1 Ø 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		1 Ø 230 V 50 Hz								
Current	Max	A	11.0	12.5	17.5	18.5				
Dimensions H × W × D	mm	620 × 790 × 290								
Weight (Net)	kg	41								
Refrigerant	Type (Global Warming Potential)	R410A (2,088)								
	Charge	kg	1.10	1.40	1.80					
Additional refrigerant charge amount		g/m	25							
Connection pipe	Diameter	Liquid	Ø 6.35							
		Gas	Ø 12.7				Ø 15.88			
	Length	Min/Max	5/30							
		Length(Pre-charge)	15							
Height difference	Max	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.

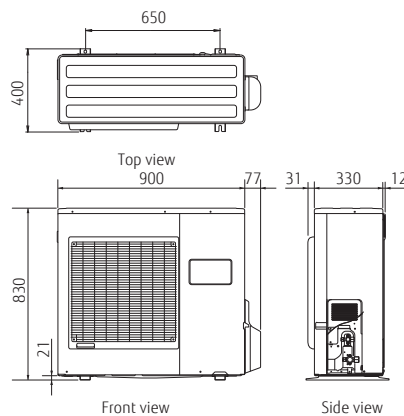
*2: All information of ErP can be available for downloaded from www.fujitsu-general.com/global/products/erp-ecodesign/index.html.

Dimensions

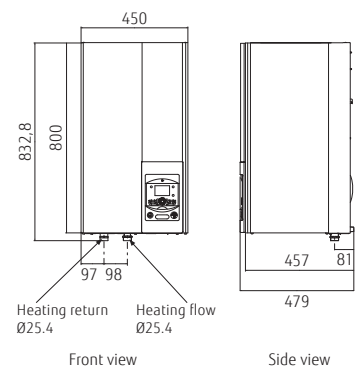
Outdoor Unit:
WOYA060LFCA/WOYA080LFCA



WOYA100LFCA



Hydraulic Indoor Unit:
WSYA050DG6/WSYA100DG6



Split DHW Integrated type High power series

Specifications

Model Name	Hydraulic indoor unit Outdoor unit	WGYG140DG6 WOYG112LHT	WGYG140DG6 WOYG140LCTA	WGYK160DG9 WOYK112LCTA	WGYK160DG9 WOYK140LCTA	WGYK160DG9 WOYK160LCTA					
Capacity range		11	14	11	14	16					
7°C/35°C floor heating *1	Heating capacity	10.80	13.50	10.80	13.50	15.17					
	Input power	2.54	3.23	2.51	3.20	3.70					
	COP	4.25	4.18	4.30	4.22	4.10					
2°C/35°C floor heating *1	Heating capacity	10.77	12.00	10.77	13.00	13.50					
	Input power	3.44	3.87	3.40	4.15	4.34					
	COP	3.13	3.10	3.17	3.13	3.11					
-7°C/35°C floor heating*1	Heating capacity	10.38	11.54	10.38	12.20	13.50					
	Input power	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	35	55	35	55	35
Energy efficiency class		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 heating energy efficiency (η _s)	%	112	151	113	148	112	154	117	150	117	149
Annual energy consumption	kWh	6704	6062	8041	6824	6669	5930	7803	6738	9062	7408
Sound power level	Hydraulic indoor unit	46		46		46		46		46	
	Outdoor unit	68		69		69		68		71	
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		1 Ø 230 V 50 Hz			3 N 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						
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		1 Ø 230 V 50 Hz			3 N 400 V 50 Hz						
Current	Max	A 22.0	25.0	8.5	9.5	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	Min/Max				m 5/20					
	Length(Pre-charge)					m 15					
Height difference	Max				m 15						
Operation range	Heating				°C -25 to 35						

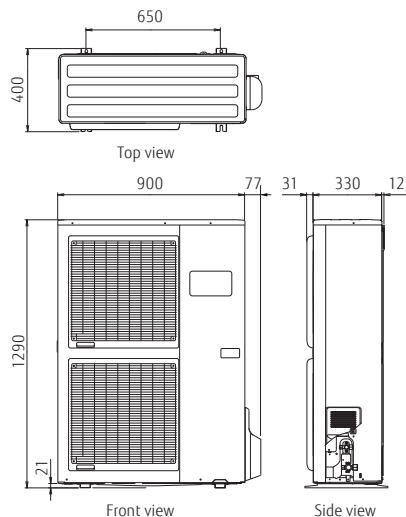
*1: The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

*2: All information of ErP can be available for download from www.fujitsu-general.com/global/products/erp-ecodesign/index.html.

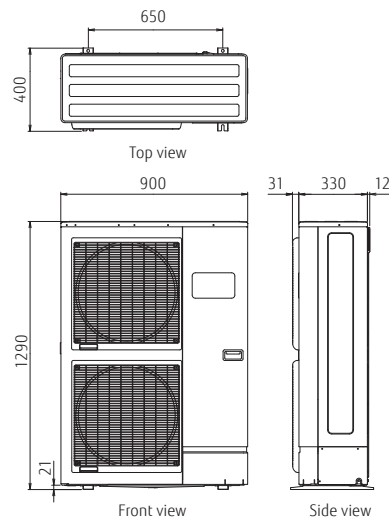
Dimensions

Outdoor Unit:

WOYG112LHT/WOYG140LCTA

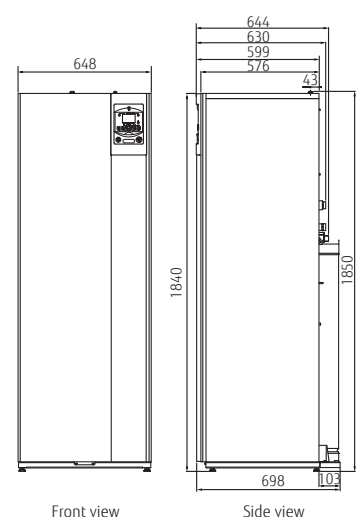


WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic Indoor Unit:

WGYG140DG6/WGYK160DG9



Specifications & Dimensions

Split DHW Integrated type Comfort series

Specifications: Split DHW Integrated type Comfort series

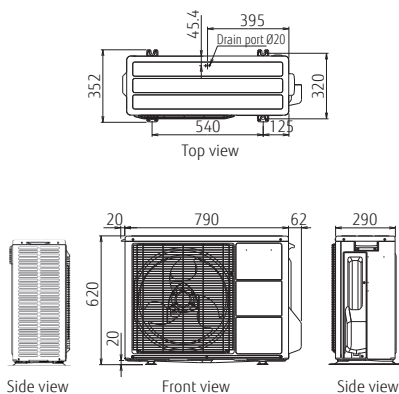
Model Name	Hydraulic indoor unit Outdoor unit	WGYA050DG6 WOYA060LFCA	WGYA100DG6 WOYA060LFCA	WGYA100DG6 WOYA080LFCA	WGYA100DG6 WOYA100LFCA					
Capacity range		5	6	8	10					
7°C/35°C floor heating *1	Heating capacity	4.50	6.00	7.50	10.00					
	Input power	0.996	1.41	1.84	2.49					
	COP	4.52	4.27	4.08	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	3026	2160	3180	2505	3886	3375	5415	4415	
Sound power level	Hydraulic indoor unit	46		46		46		46		
	Outdoor unit	65		63		65		69		
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		1 Ø 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								
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		1 Ø 230 V 50 Hz								
Current	Max	A 11.0	12.5		17.5		18.5			
Dimensions H × W × D	mm	620 × 790 × 290								
Weight (Net)	kg	41								
Refrigerant	Type (Global Warming Potential)	R410A (2,088)								
	Charge	1.10		1.40		1.80				
Additional refrigerant charge amount	g/m	25								
Connection pipe	Diameter	Liquid	mm Ø 6.35				Ø 9.52			
		Gas	Ø 12.70		Ø 15.88					
	Length	Min/Max	m 5/30							
	Length (Pre-charge)		m 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.

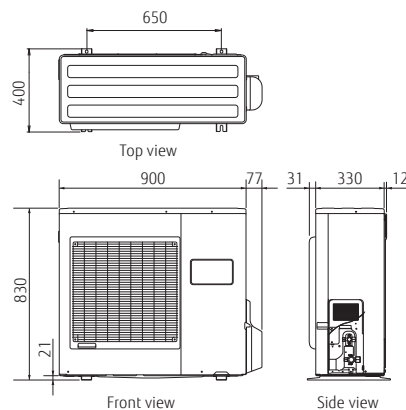
*2: All information of ErP can be available for download from www.fujitsu-general.com/global/products/erp-ecodesign/index.html.

Dimensions

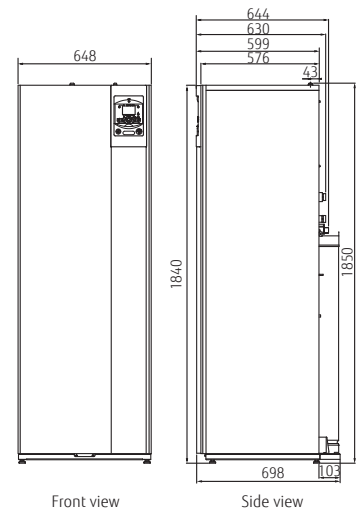
Outdoor Unit:
WOYA060LFCA/WOYA080LFCA



WOYA100LFCA



Hydraulic Indoor Unit:
WGYA050DG6/WGYA100DG6



Monobloc type

Specifications

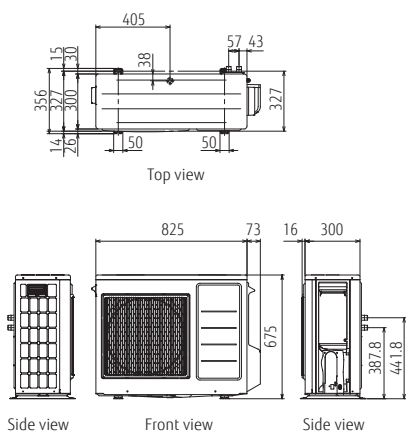
Model Name		Hydraulic indoor unit		WSYP100DG6							
		Outdoor unit		WPYA050LG		WPYA080LG		WPYA100LG			
Capacity range				5		8		10			
7°C/35°C floor heating *1	Heating capacity	kW	5.00		8.00		10.00				
	Input power		1.19		1.78		2.30				
	COP		4.20		4.50		4.35				
2°C/35°C floor heating *1	Heating capacity	kW	3.65		4.35		4.90				
	Input power		1.07		1.23		1.44				
	COP		3.40		3.55		3.40				
-7°C/35°C floor heating*1	Heating capacity	kW	3.55		7.10		8.00				
	Input power		1.38		2.93		3.32				
	COP		2.57		2.42		2.41				
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		6		7	
Seasonal space heating energy efficiency (η _s)		%		118		171		123		168	
Annual energy consumption		kWh		3055		1952		3828		3580	
Sound power level		Outdoor unit		dB (A)		62		61		65	
Hydraulic indoor unit Specification											
Power source										1 Ø 230 V 50 Hz	
Dimensions H×W×D		mm								803 × 450 × 457	
Weight (Net)		kg								40	
Buffer tank capacity		L								22	
Expansion vessel capacity		L								12	
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										1 Ø 230 V 50 Hz	
Dimensions H × W × D		mm		675 × 825 × 300		882 × 850 × 330					
Weight (Net)		kg		49		72					
Current		Max		A		10.9		15.2		17.5	
Water circulation		Min/Max		L/min		5.0/20.0		10.0/30.0			
Water pipe connection diameter		Flow/Return		mm		Ø 19.05/Ø 19.05		Ø 25.4/Ø 25.4			
Refrigerant		Type (Global Warming Potential)				R410A (2,088)					
		Charge		kg		1.05		1.72			
Leaving water temperature range		Max		°C		55					
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.

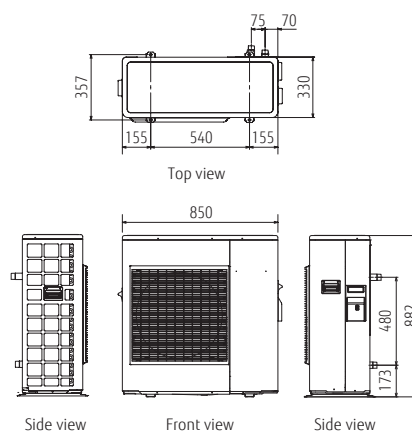
*2: All information of ErP can be available for downloaded from www.fujitsu-general.com/global/products/erp-ecodesign/index.html.

Dimensions

Outdoor Unit: WPYA050LG



WPYA080LG/WPYA100LG



Hydraulic Indoor Unit: WSYP100DG6

