

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.

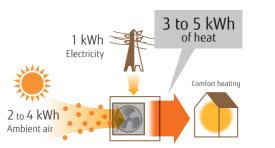




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What's a Heat Pump?

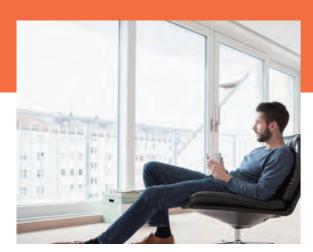
Absorbing free energy from the atmosphere. Heat pump system requires only 1 kW of electricity to generate 3 to 5 kW thermal energy.



HOME HEATING

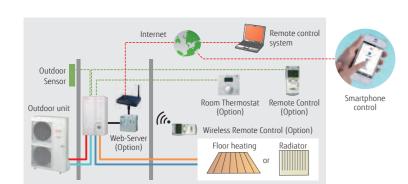
Wide range lineup suited for regional characteristics, family structure, and application. We provide various products to meet your needs from High Power via heating-centered series to reasonably-priced compact series





High leaving water temperature

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



Smart control

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



Room

Heating

Heating

+ 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.



Outdoor unit

Swimming Pool

Solar Connection

Hydraulic unit

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.





Appearance-oriented compact outdoor unit

Split type Comfort series

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





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.



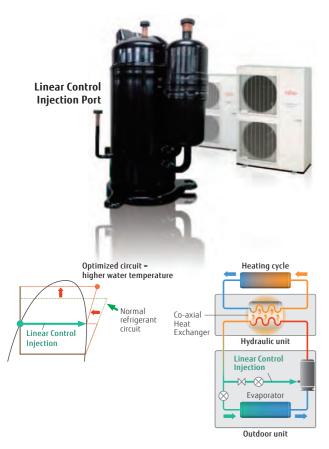


High Efficiency

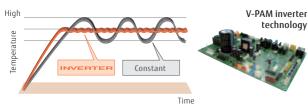
For Outdoor Unit Twin Rotary Compressor

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



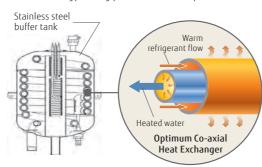


For Hydraulic Indoor Unit Class A pump

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

Ca	pacity (kW)	5	6	8	10	11	14	15	16	17
	Super High Power series 3 phase Page 244							0		0
	Hydraulic Indoor Unit/Outdoor Unit							WSYK170xxx* / WOYK150LJL		WSYK170xxx* / WOYK170LJL
	High Power series Single phase Page 244									
Split	Hydraulic Indoor Unit/Outdoor Unit					WSYG140DG6 / WOYG112LHT	WSYG140DG6 / WOYG140LCTA			
ר	High Power series 3 phase Page 244 Hydraulic Indoor Unit/Outdoor Unit					WSYK160DG9 / WOYK112LCTA	WSYK160DG9 / WOYK140LCTA		WSYK160DG9 / WOYK160LCTA	
	Comfort series Page 244					WORKTIZEE	Nonvision		WOTKTOOLESK	
	Hydraulic Indoor Unit/Outdoor Unit	WSYA050DG6 / WOYA060LFCA	WSYA100DG6 / WOYA060LFCA	WSYA100DG6 / WOYA080LFCA	WSYA100DG6 / WOYA100LFTA					
	High Power series Single phase Page 244									
	Hydraulic Indoor Unit/Outdoor Unit					WGYG140DG6 / WOYG112LHT	WGYG140DG6 / WOYG140LCTA			
Split DHW integrated	High Power series 3 phase Page 244					WCW1CODCO /	WCW1CODGO /		WGYK160DG9 /	
rated	Hydraulic Indoor Unit/Outdoor Unit					WGYK160DG9 / WOYK112LCTA	WGYK160DG9 / WOYK140LCTA		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	.0								
-13	Hydraulic Indoor Unit/Outdoor Unit	WSYP100DG6 / WPYA050LG		WSYP100DG6 / WPYA080LG	WSYP100DG6 / WPYA100LG					
									*: Tent	ative model name

*: Tentative model name

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 endconsumer 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

Split Type

Super high power series High power series **Comfort series**



WATERSTAGE"

Super high power series

Hydraulic indoor unit: [3phase] WSYK170xxx* Outdoor unit:

[3phase] WOYK150LJL/WOYK170LJL

*: Tentative model name



indoor unit 3 Phase 15/17 kW

High power series

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



Hvdraulic indoor unit Single Phase/ 3 Phase

11/14 kW

11/14/16 kW

Comfort series

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



Hvdraulic

Outdoor unit

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.



Comfort series:

(15 kW class)

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 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)



(11 kW class)

(5 kW class)

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

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



indoor unit Single Phase/

Outdoor unit

11/14/16 kW

Comfort series

Hvdraulic indoor unit: WGYA050DG6/WGYA100DG6

WOYA060LFCA/WOYA080LFCA/WOYA100LFTA



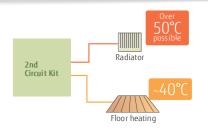
Hydraulic Outdoor unit indoor unit



2 Zone individual control*

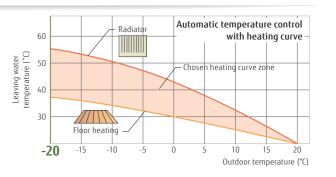
2 Zone individual control (2 under floor heating zones or under floor heating + radiator zone, etc.)*

*: Optional parts are required.



Automatic heating curve control

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



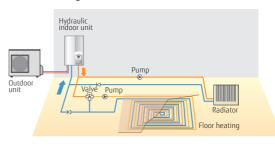
Monobloc Type

Case Studies

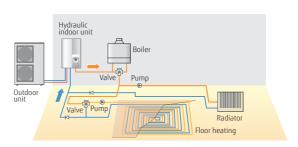
Split Type

2 emitter simultaneous heating (Individual control)

Floor heating + Radiator



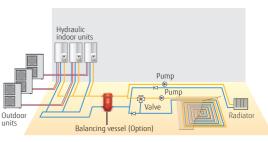
Boiler connected to heating (Boiler + Heating)



Split Cascade System

2 emitter simultaneous heating (Individual control)

Floor heating + Radiator



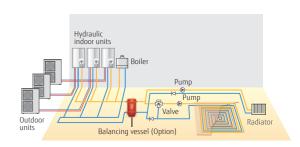
Boiler connected to heating (Boiler + Heating)

Monobloc Type

Single heating system

Floor heating

Floor heating



Compact series

Comfort series

Hydraulic indoor unit: WSYP100DG6

Outdoor unit:

WPYA050LG / WPYA080LG / WPYA100LG

WATERSTAGE



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.



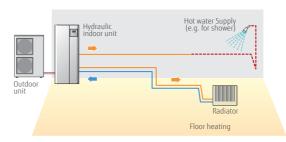




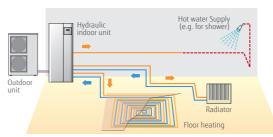
Split DHW Integrated Type

Single heating & Domestic Hot Water

Radiator + Domestic Hot Water

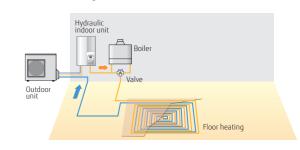


Domestic Hot Water



2 emitter simultaneous heating (Individual control) &

Radiator + Domestic Hot Water



Boiler connected to heating (Boiler + Heating)

49 kg

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).



Optional Parts

			Cu	iper				Split		I						Split	DHW	integ	rated	type			М	onobl	00
Product	Name	Model Name	Hi	igh wer		Hi	gh Po	wer			Con	nfort			Hi	gh Po	wer			Con	nfort		C	ompa	ct
			15	17	11	Ø 14	11	3Ø 14	16	5	6	Ø 8	10	11	Ø 14	11	3Ø	16	5	6	Ø 8	10	5	1Ø	10
2nd Circuit Kit		UTW-KZSXE	•	•	•	•	•	•	•	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-	-
ZHO CHCOIL NIL	F	UTW-KZDXE	-	-	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•	•	•	•	-	-	-
Boiler	D	UTW-KBSXD	•	•	•	•	•	•	•	•	•	•	•	_	_	-	_	_	-	-	_	_	_	-	_
Connection Kit	3	UTW-KBDXD	-	_	-	_	-	-	_	_	-	-	_	•	•	•	•	•	•	•	•	•	-	-	_
Balancing Vessel	-	UTW-TEVXA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DHW Kit	A	UTW-KDWXG (Internal)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•
		UTW-KDWXD (External)	•	•	•	•	•	•	•	•	•	•	•	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	•	•	•
DHW Tank	200 Liter 300 Liter 400 Liter	UTW-T20AXH UTW-T30AXH UTW-T40AXH	•	•	•	•	•	•	•	•	•	•	•	_*1	_*1	_*1	_*1	_*1	_* ¹	_*1	_*1	_*1	•	•	•
	200 Liter 300 Liter 400 Liter	UTW-T20BXH UTW-T30BXH UTW-T40BXH	•	•	•	•	•	•	•	•	•	•	•	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	•	•	•
Circulating Pump	9	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	1	UTW-KLNXE	•	•	•	•	•	•	•	_	_	_	_	•	•	•	•	•	-	-	-	-	_	-	_
Drain Pan		UTW-KDPXA	-	-	-	-	-	-	-	•	•	•	-	-	-	-	-	-	•	•	•	-	-	-	-
Cascade Master Kit (incl. LPB Clip)	100	UTW-KCMXE	•	•	•	•	•	•	•	_	-	-	•	_	-	-	-	-	_	_	-	_	-	-	_
Cascade Slave Kit (incl. LPB Clip)		UTW-KCSXE	•	•	•	•	•	•	•	_	-	-	•	_	_	-	_	_	_	_	_	_	_	-	-

			Su	iper				Split								Spiit	DHW	integ	rated	type			M	lonobl	OC
Produ	ct Name	Model Name	Hi Po	igh wer			gh Po					nfort				gh Po					nfort		C	ompa	ct
			15	17	11	Ø 14	11	3Ø	16	5	6	Ø 8	10	11	Ø 14	11	3Ø 14	16	5	6	Ø 8	10	5	1Ø	10
IMI Kit		UTW-KHMXE*3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Wired	UTW-C74TXF*3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
emote		UTW-C74HXF* ³	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ontroller	(t. <u> </u>	UTW-C78XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Wireless	UTW-C78XD-E*4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
loom	Wired	UTW-C55XA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
hermostat	Wireless	UTW-C58XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Jutdoor Sensor ransmitter	(t.	UTW-MOSXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
F Modules	for BSB-Port	UTW-MRCXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Veb Server	2 /2 .	UTW-KW1XD UTW-KW4XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PB Clip		UTW-KL1XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MODBUS Clip		UTW-KMBXE	-* ⁷	-* ⁷	_* ⁷	-* ⁷	_* ⁷	_* ⁷	-* ⁷	-* ⁷	_* ⁷	-* ⁷	•	•	•										
aca Haatar		UTW-HAMXE	_	_	-	-	_	-	-	-	_	-	-	-	-	_	-	_	-	-	-	-	-	•	•
lase Heater		UTW-HAMXF	-	_	-	_	_	-	_	-	_	-	-	-	-	_	-	-	-	-	-	_	•	-	
ervice Tool incl. OCI700 Adapto	or)	UTW-KSTXD	●* ⁵	● * ⁵	● * ⁵	●* ⁵	● * ⁵	●* ⁵	● * ⁵	●* ⁵	•														
ervice Tool oftware		UTW-KPSXD	●* ⁶	●* ⁶	●* ⁶	●* ⁶	●* ⁶	●* ⁶	●* ⁶	●* ⁶	●* ⁶	●* ⁶	●* ⁶	●* ⁶	●* ⁶	●* ⁶	●* ⁶	●* ⁶	•						
xternal Connect Kit		UTY-XWZXZ2	•	•						_		_	_	•	•			•	_	_	_				_

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● : Available —: Not Available

^{*1:} DHW operation is possible without DHW Kit and DHW Tank.

*2: Cooling operation is possible without cooling kit

*3: 19 Languages included, no separate Eastern European RC necessary. C74TXF: Built in Room Temperature sensor C74HXF: Built in Room temperature and Humidity sensor

*4: Eastern European Language(English, Czech Republic, Slovakia, Poland, Turkey, Hungary, Russia, Slovenia, Greece, Serbia)

*5: UTW-KLIXD is required for the connection.

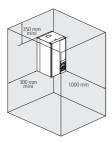
*6: UTW-KW1XD or UTW-KW4XD is required for the connection.

Installation Limitations

Equipment Installation

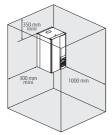
Split type Hydraulic indoor unit

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



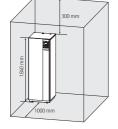
Monobloc Type Hydraulic indoor unit

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



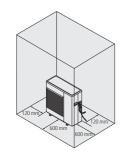
Split DHW integrated type Hydraulic indoor unit

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



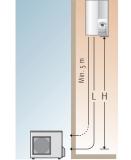
Monobloc type Outdoor unit

- 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)
	5		
Comfort	6	±20	5-30
COIIIIOIT	8	120	3-30
	10		
	11	±15	5-20
10.1	14	±10	3-20
High power	15	±15	5-30
power	16	±15	5-20
	17	±15	5-30

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

Specifications & Dimensions

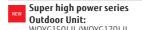
Split type Super high power series/High power series

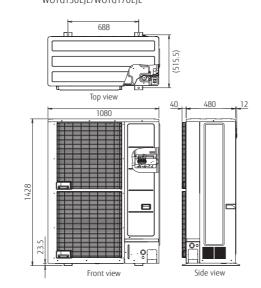
					Tene	derve	
Specifications					Super high	power series	
		Hydraulic indoor unit		WSYN	(170xxx* ³	WSYK1	70xxx* ³
Model Name		Outdoor unit			/K150LJL		170LJL
Capacity range		'			15		17
		Heating capacity	kW		15.00	17	.00
7°C/35°C floor heat	ing *1	Input power	KVV		3.46	4.	.13
	-	COP			4.33	4.	.12
		Heating capacity	Law		13.20	13	.50
2°C/35°C floor heat	ing *1	Input power	kW		4.06	4.	27
	-	COP			3.25	3.	.16
		Heating capacity	LAM		13.2	15	5.0
-7°C/35°C floor heal	ting* ¹	Input power	kW		4.55	5.	32
	3	COP			2.90	2.	82
Space heating cha	racteristics*2						
Temperature applic			°C	55	35	55	35
Energy efficiency cl	lass			A++	A++	A++	A++
Rated heat output			kW	16	17	17	18
Seasonal space hea	ating energy efficiency	(n _c)	%	130	164	130	161
Annual energy con:		(1)	kWh	9913	8606	10225	9089
	Hydraulic indoor up	nit	10/41		_		_
Sound power level	Outdoor unit		dB(A)	68	67	68	68
Hydraulic indoor u	init Specification						
Power source					3 N 400	V 50 Hz	
Dimensions H×W×[)		mm	-	_	_	-
Weight (Net)			kg	=	_	-	-
Water circulation		Min/Max	L/min	-	_	_	-
Buffer tank capacit	y		L	-	_	_	-
Expansion vessel c	apacity		L	-	_	_	-
Leaving water tem	perature range	Max	°C	-	_	-	-
Water pipe connect	tion diameter	Flow/Return	mm	=	_	-	-
Backup heater		Capacity	kW	=	_	-	-
Outdoor unit speci	ification						
Power source					3 N 400	V 50 Hz	
Current		Max	A		14.0	14	4.0
Dimensions H × W	× D		mm	1,428 >	1,080 ×480	1,428 × 1	,080 ×480
Weight (Net)			kg		138	1.	38
Defrieereek		Type (Global Warming F	Potential)		R410A	(2,088)	
Refrigerant		Charge	kg		3.80	3.	80
Additional refrigera	ant charge amount		g/m		50	5	50
		Liquid		(ð 9.52	09	9.52
	Diameter	Gas	mm		15.88		5.88
Connection pipe	Length	Min/Max	m		5/30	5/	30
	Length(Pre-charge		m		15		5
	Height difference	Max	m		15		5
Operation range		Heating	°C	-2	5 to 35	-25	to 35

WSYG1		WSYG1		WSYK1			60DG9	WSYK1	
WOYG1	112LHT	WOYG14	40LCTA	WOYK1	12LCTA	WOYK1	40LCTA	WOYK1	60LCTA
1	1	1-	4	1	1	1	4	1	6
10.	.80	13.	50	10.	80	13	.50	15.	.17
	54	3.2	23	2.5	51	3.	20	3.1	70
4.	25	4.	18	4.3	30	4.	22	4.	10
10.	.77	12.		10.	77	13	.00	13.	.50
3.4	44	3.8	37	3.4	40	4.	15	4.3	34
3.	.13	3.	10	3.1	17	3.	13	3.	11
	.38	11.		10.			.20		.50
	32	5.0		4.2			13		40
2.4	40	2.2	27	2.4	43	2.	38	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	13	14
112	151	113	148	112	154	117	150	117	149
6704	6062	8041	6824	6669	5930	7803	6738	9062	7408
	-6	4	-	4	~		6		6
6	18	6	9	69	68	70	68	7	1
						2.11.60			
		V 50 Hz					V 50 Hz		
		50 × 457					50 × 457		
40.5		2		10.5	200		2		15.1.0
19.5/	/39.0	24.4/	48./	19.5/	39.0		/48.7	27.4/	/54.8
		16					6		
		8					0		
		/Ø 25.4					Ø 25.4		
	0.U(3.UK	W×2pcs.)				9.0(3.0k	w×spcs.)		
	1 (3 22)	V 50 Hz				3 N Y O O	V 50 Hz		
2.1	2.0	25	n	8.	5		.5	10).5
	1.0		.0	1,290 × 9		1 9		1 10	
	(92		1,230 ^ 3	טננ^ טטי	0	9		
		, <u>L</u>		R410A (2 088)		,		
				2.5					
				5					
				αч					
				Ø 9 Ø 15					
				Ø 15	.88				
					5.88 20				
				Ø 15	5.88 20 5				

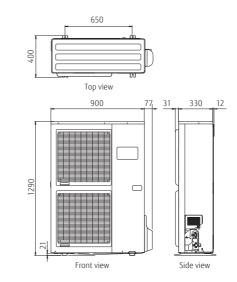
- *1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.
- *2:All information of ErP can be available for downloaded from www. fujitsu-general.com/global/products/erp-ecodesign/index.html.
- *3:Tentative model name

Dimensions





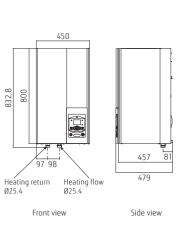
High power series Outdoor Unit: WOYG112LHT/WOYG140LCTA



WOYG112LHT/WOYG140LCTA 900

Hydraulic Indoor Unit:

WSYK170xxx*3 (Super high power series)
WSYG140DG6/WSYK160DG9 (High power series)



Specifications & Dimensions

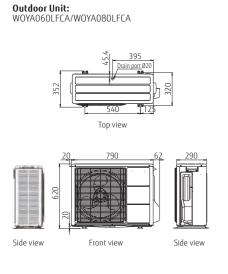
Split type Comfort series

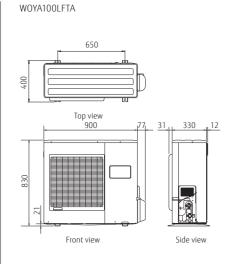
Specifications

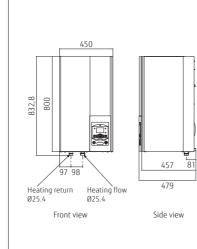
Model Name		Hydraulic indoor unit			050DG6 060LFCA		00DG6 160LFCA		100DG6 080LFCA		00DG6 00LFTA				
Capacity range		T Outdoor utilit			5		6		8		0				
capacity range		Heating capacity			.50		00		.50		.00				
7°C/35°C floor heatin	na *1	Input power	- kW		996		41		.84		49				
/ C/33 C HOOF HEALH	ig	(OP			.52		27		.08		02				
		Heating capacity			.50		95		.65		70				
2°C/35°C floor heating	na *1	Input power	- kW		39		53		.78		47				
2 C/33 C IIOOI IIEatii	iy	COP			.24		24		.17		.12				
		Heating capacity	_		.10		60		.70		40				
-7°C/35°C floor heati	na*1	Input power	kW		.47		.74		.23		97				
-7 (733 (1100) 116811	ng	COP			.79		64		.56		49				
Space heating char	actoristics*2	TCOP		۷.	.79	Z.	.04		.30		43				
Temperature applica			1 °C	55	35	55	35	55	35	55	35				
Energy efficiency cla			1	A+	A++	A+	A++	A+	A++	A+	A++				
Rated heat output (F			kW	4	4	5	5	6	7	8	8				
Seasonal space hear		v(n ₋)	%	115	169	115	169	118	156	113	155				
Annual energy cons		7 (15)	kWh	3026	2160	3180	2505	3886	3375	5415	4415				
	Hydraulic indoor u	nit	1 1		6		6		46		6				
Sound power level	Outdoor unit	THE STATE OF THE S	dB(A)	65	60	65	63	65	69	68	69				
Hydraulic indoor un									1 03		03				
Power source	ne specification						1 Ø 230	V 50 Hz							
Dimensions H×W×D			mm				800 × 45								
Weight (Net)			kg					2							
Water circulation		Min/Max	L/min	8.1/	16.2	10.8	1/21.7		5/27.1	18.1	/36.1				
Buffer tank capacity			1	-				6							
Expansion vessel ca															
Leaving water temp		Max	°C					5							
Water pipe connecti		Flow/Return	mm				Ø 25.4								
Backup heater	on didirecter	Capacity	kW				6.0(3.0k)								
Outdoor unit specif	ication	1 0000000	1111				0.0 (0.0								
Power source							1 Ø 230	V 50 Hz							
Current		Max	I A	11	1.0	12	2.5		7.5	18	3.5				
Dimensions H × W ×	D		mm			620 × 7	90 ×290			830 × 90					
Weight (Net)			kg		4				42	9					
		Type (Global Warming F					R410A	(2,088)							
Refrigerant		Charge	kg		1.	10		1.	.40	1.	80				
Additional refrigerar	nt charge amount		g/m			2	25			4	0				
	T -	Liquid	1			Øe	5.35			Ø 9	9.52				
	Diameter	Gas	mm		Ø 1				Ø 1	5.88					
Connection pipe	tion pipe Length Min/Max				5/30										
	Length(Pre-charge	e)	m				1	5							
	Height difference	Max	m				2	0							
	I height difference														

^{*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

Dimensions







Hydraulic Indoor Unit:

Split DHW Integrated type High power series

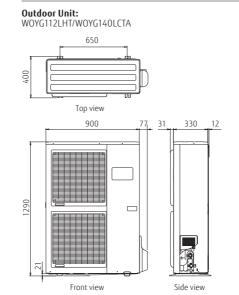
Specifications

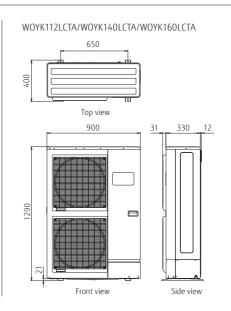
Madal Nama		Hydraulic indoor unit		WGYG1	140DG6	WGYG1	140DG6	WGYK1	60DG9	WGYK1	160DG9	WGYK1	60DG9
Model Name		Outdoor unit		WOYG	112LHT	WOYG1	40LCTA	WOYK1	12LCTA	WOYK1	40LCTA	WOYK1	60LCTA
Capacity range				1	11	1	4	1	1	1	4	1	6
		Heating capacity	1,147	10	.80	13	.50	10.	.80	13	.50	15	.17
7°C/35°C floor heati	ing *1	Input power	kW	2.	54	3.	23	2.	51	3.	20	3.	70
	,	COP		4.	25	4.	.18	4.	30	4.	22	4.	10
		Heating capacity		10	.77	12	.00	10.	.77	13	.00	13.	.50
2°C/35°C floor heati	ina *¹	Input power	kW		44		87	3.4			.15	4.	
	9	COP	_		.13		.10	3.			13	3.	
		Heating capacity	Ι.		.38		.54	10.			.20		.50
-7°C/35°C floor heat	inn*1	Input power	kW		32		08	4			.13		40
7 6733 6 11001 11606	9	COP			40		27	2.4			38	2.	
Space heating cha	racteristics*2	[601			-10			2.	13		50		50
Temperature applic			°C	55	35	55	35	55	35	55	35	55	35
Energy efficiency cl			1	A+	A++	A+	A+	A+	A++	A+	A++	A+	A+
Rated heat output(kW	9	11	11	13	9	11	11	13	13	14
	r _{rated} , ating energy efficiency	(n)	%	112	151	113	148	112	154	117	150	117	149
Annual energy cons	cumption	(15)	kWh	6704	6062	8041	6824	6669	5930	7803	6738	9062	740
	Hydraulic indoor ur	nit			16		6	4			6		6
Sound power level	Outdoor unit	IIL	dB(A)		58		59	69	68	70	68	7	
Domestic hot wate					00	1 0	כו	09	00	///	00	/	1
Load profile	i ciiaiacteristics												
Energy efficiency cl	200							L	-				
Energy efficiency (n			T 0/					8					
			%										
Annual electricity of			kWh					- 11	66				
Hydraulic indoor u	nit Specification				1 0 220					2.11.7.00	11/5011		
Power source					1 Ø 230) V 50 Hz				3 N 400	V 50 Hz		
Dimensions H×W×D)		mm						48 × 698				
Weight (Net)			kg						52				
Water circulation			L/min	19.5	/39.0	24.4	/28.7		39.0	24.4	/48.7	27.4	/54.8
DHW capacity			L						90				
Hot water heater ca			kW					1.					
Expansion vessel ca			L					1					
Leaving water temp		Max	°C					6					
Water pipe connect		Flow/Return	mm					Ø 25.4					
Hot water pipe con	nection diameter		mm					Ø 19	9.05				
Backup heater		Capacity	kW		6.0(3.0k	:W×2pcs.)				9.0(3.0k	W×3pcs.)		
Outdoor unit speci	fication												
Power source) V 50 Hz				3 N 400	V 50 Hz		
Current		Max	Α	22	2.0	25	5.0	8.		9	.5	10).5
Dimensions H × W >	× D		mm					1,290 × 9	900 ×330				
Weight (Net)			kg		g	92				9	19		
Defrience		Type (Global Warming P	otential)					R410A	(2,088)				
Refrigerant		Charge	kg	-					50				
Additional refrigera	ant charge amount		g/m					5	0				
		Liquid						Ø 9	.52				
	Diameter	Gas	mm					Ø 15	5.88				
Connection pipe	Length	Min/Max	m					5/.					
zzection pipe	Length(Pre-charge		m					1					
	Height difference	Max	m					1					
Operation range	Height difference	Heating	°C					-25 t					
טערומנוטוו ומוועל		Licothia	١ '	l				-231	עע ט.				

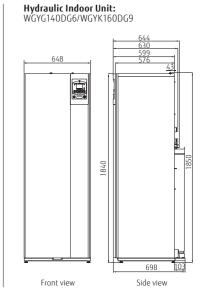
^{*1:}The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

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

Dimensions







these values.

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Specifications & Dimensions

Split DHW Integrated type Comfort series

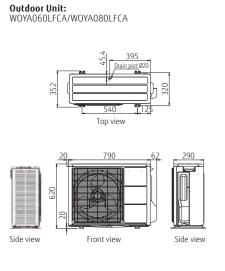
Specifications: Split DHW Integrated type Comfort series

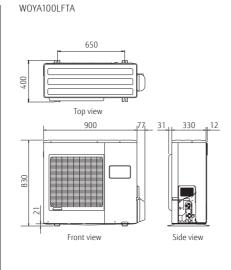
Model Name		Hydraulic indoor unit		WGYA0	150DG6	WGYA1	00DG6	WGYA	100DG6	WGYA1	00DG6
Model Name		Outdoor unit		WOYA0	60LFCA	WOYA0	60LFCA	WOYAG	080LFCA	WOYA10	00LFTA
Capacity range				Į.	5	(5		8	1	0
		Heating capacity	kW		50	6.	00	7.	.50	10.	.00
7°C/35°C floor heating	ng *1	Input power	7 KW [0.9	996	1.4	41	1.	.84	2./	49
	,	COP		4.	52	4.	27	4	.08	4.0	02
		Heating capacity	1344	4.	50	4.	95	5	.65	7.3	70
2°C/35°C floor heating	na *1	Input power	kW		39	1.			.78	2.4	
	,	COP			24	3.			.17	3.	
		Heating capacity	T		10	4.			.70		40
-7°C/35°C floor heati	ina*1	Input power	kW		47		74		.23	2.9	
	9	COP			79	2.			.56		49
Space heating char	racteristics*2	1 001							.50		.,
Temperature applica			°C	55	35	55	35	55	35	55	35
Energy efficiency cla				A+	A++	A+	A++	A+	A++	A+	A++
Rated heat output(F			kW	4	4	5	5	6	7	8	8
	iting energy efficiency	/(n-)	%	115	169	115	169	118	156	113	155
Annual energy cons	umntion	1,121	kWh	3026	2160	3180	2505	3886	3375	5415	4415
	Hydraulic indoor ur	nit	+ + +		6	3100			46		6
Sound power level	Outdoor unit	inc.	dB(A)	65	60	65	63	65	69	68	69
Domestic hot water	r characteristics*2		_	0.5	1 00	0.5	0.5	0.5	1 05	00	
Load profile	i ciiaiacteristics										
Energy efficiency cla	acc		-				Δ	+		-	
Energy efficiency(n)			%					20			
Annual electricity of			kWh					30			
Hydraulic indoor ur			KVVII				01	30			
Power source	пи эреспісаціон						1 0 220	V 50 Hz			
Dimensions H×W×D								48 × 698			
Weight (Net)	1		mm					52 × 090			
Water circulation			kg L/min	0.1/	16.2	10.8			5/27.1	18.1/	126.1
			L/IIIIII	0.1/	10.2	10.0			0/2/.1	10.1/	30.1
DHW capacity Hot water heater ca	o o citu		kW					90 .5			
			KVV					2			
Expansion vessel ca		Max	 								
Leaving water temp	perature range										
Water nine connecti			°C				5	5			
	ion diameter	Flow/Return	mm				Ø 25.4	5 /Ø 25.4			
Hot water pipe conr	ion diameter	Flow/Return	mm mm				Ø 25.4 Ø 1	5 /Ø 25.4 9.05			
Hot water pipe conr Backup heater	ion diameter nection diameter		mm				Ø 25.4	5 /Ø 25.4 9.05			
Hot water pipe conn Backup heater Outdoor unit specif	ion diameter nection diameter	Flow/Return	mm mm				Ø 25.4 Ø 19 6.0(3.0k	5 /Ø 25.4 9.05 W×2pcs.)			
Hot water pipe conn Backup heater Outdoor unit specif Power source	ion diameter nection diameter	Flow/Return Capacity	mm mm kW				5 Ø 25.4 Ø 1! 6.0(3.0k	5 /Ø 25.4 9.05 W×2pcs.) V 50 Hz			
Hot water pipe conr Backup heater Outdoor unit specif Power source Current	ion diameter nection diameter fication	Flow/Return	mm mm kW	11	1.0	12	5 Ø 25.4 Ø 1! 6.0(3.0k	5 /Ø 25.4 9.05 W×2pcs.) V 50 Hz	7.5		3.5
Hot water pipe conr Backup heater Outdoor unit specif Power source Current Dimensions H × W ×	ion diameter nection diameter fication	Flow/Return Capacity	mm mm kW	11		620 × 7	5 Ø 25.4 Ø 1! 6.0(3.0k	5 /Ø 25.4 9.05 W×2pcs.) V 50 Hz		830 × 90	00 ×330
Hot water pipe conr Backup heater Outdoor unit specif Power source Current Dimensions H × W ×	ion diameter nection diameter fication	Flow/Return Capacity Max	mm mm kW	11			5 Ø 25.4 Ø 1! 6.0(3.0k 1 Ø 230 !.5 90 ×290	5 /Ø 25.4 3.05 W×2pcs.) V 50 Hz	7.5	830 × 90	
Hot water pipe conr Backup heater Outdoor unit specif Power source Current Dimensions H × W × Weight (Net)	ion diameter nection diameter fication	Flow/Return Capacity Max Type (Global Warming F	mm kW	11	4	620 × 7	5 Ø 25.4 Ø 1! 6.0(3.0k	5 /Ø 25.4 9.05 W×2pcs.) V 50 Hz	42	830 × 90	00 ×330 i0
Hot water pipe conr Backup heater Outdoor unit specif Power source Current Dimensions H × W × Weight (Net)	ion diameter nection diameter fication	Flow/Return Capacity Max	mm kW A mm kg Potential) kg	11	4	620 × 7!	5 Ø 25.4 Ø 19 6.0(3.0k 1 Ø 230 2.5 90 ×290	5 /Ø 25.4 9.05 W×2pcs.) V 50 Hz		830 × 90 6	00 ×330 60
Hot water pipe conr Backup heater Outdoor unit specif Power source Current Dimensions H × W × Weight (Net)	ion diameter nection diameter fication	Flow/Return Capacity Max Type (Global Warming F	mm kW	11	4	620 × 7 ¹	5 Ø 25.4 Ø 11 6.0(3.0k 1 Ø 230 2.5 90 ×290 R410A	5 /Ø 25.4 9.05 W×2pcs.) V 50 Hz	42	830 × 90 6	00 ×330 60 80
Hot water pipe conr Backup heater Outdoor unit specif Power source Current Dimensions H × W × Weight (Net)	ion diameter nection diameter fication D ont charge amount	Flow/Return Capacity Max Type (Global Warming F Charge Liquid	mm kW A mm kg Potential) kg g/m	11	1.	620 × 7 ¹ i1 10 2 Ø 6	5 Ø 25.4 Ø 11 6.0(3.0k 1 Ø 230 2.5 90 ×290 R410A	5 /Ø 25.4 9.05 W×2pcs.) V 50 Hz	.40	830 × 90 6 1.8 4 Ø 9	00 ×330 60
Hot water pipe conr Backup heater Outdoor unit specif Power source Current Dimensions H × W × Weight (Net) Refrigerant Additional refrigera	ion diameter nection diameter fication D Int charge amount Diameter	Flow/Return Capacity Max Type (Global Warming F Charge Liquid Gas	mm kW A mm kg Potential) kg	11	1.	620 × 7 ¹	5 Ø 25.4 Ø 1! 6.0(3.0k 1 Ø 230 1.5 90 ×290 R410A	5 Ø 25.4 9.05 W×2pcs.) V 50 Hz 1 (2,088)	42	830 × 90 6 1.8 4 Ø 9	00 ×330 60 80
Hot water pipe conr Backup heater Outdoor unit specif Power source Current Dimensions H × W × Weight (Net) Refrigerant Additional refrigera	ion diameter nection diameter fication D ont charge amount Diameter Length	Flow/Return Capacity Max Type (Global Warming F Charge Liquid Gas Min/Max	mm mm kW A mm kg votential) kg g/m mm m	11	1.	620 × 7 ¹ i1 10 2 Ø 6	5 Ø 25.4 Ø 11 6.0(3.0k 1 Ø 2305 90 ×290 R410A 535	5 Ø 25.4 9.05 W×2pcs.) V 50 Hz 1 (2,088) 1	.40	830 × 90 6 1.8 4 Ø 9	00 ×330 60 80
Hot water pipe conr Backup heater Outdoor unit specif Power source Current Dimensions H × W ×	ion diameter nection diameter fication The Diameter Length Length(Pre-charge)	Flow/Return Capacity Max Type (Global Warming F Charge Liquid Gas Min/Max	mm kW A mm kg Potential) kg g/m mm	11	1.	620 × 7 ¹ i1 10 2 Ø 6	5 0 25.4 0 1! 6.0(3.0k 1 0 230 2.5 90 ×290 R410A 5 .35	5	.40	830 × 90 6 1.8 4 Ø 9	00 ×330 60 80
Hot water pipe conr Backup heater Outdoor unit specif Power source Current Dimensions H × W × Weight (Net) Refrigerant Additional refrigera	ion diameter nection diameter fication D ont charge amount Diameter Length	Flow/Return Capacity Max Type (Global Warming F Charge Liquid Gas Min/Max	mm mm kW A mm kg votential) kg g/m mm m	11	1.	620 × 7 ¹ i1 10 2 Ø 6	5 0 25.4 Ø 19: 6.0(3.0k 1 Ø 230 1.55 90 ×290 R410A 535 5/ 1 2	5 Ø 25.4 9.05 W×2pcs.) V 50 Hz 1 (2,088) 1	.40	830 × 90 6 1.8 4 Ø 9	00 ×330 60 80

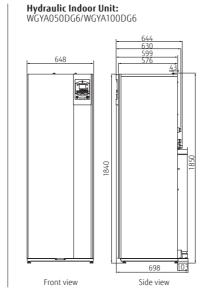
^{*1:}The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

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Dimensions







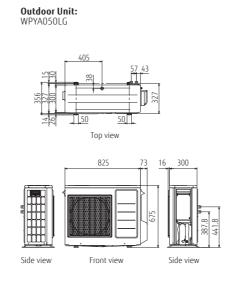
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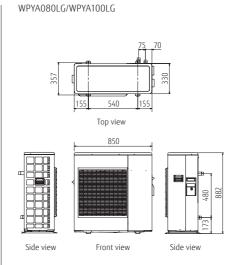
Specifications

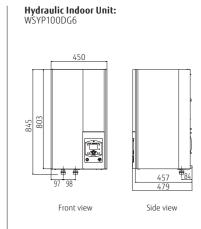
Mandal Name	Hydraulic indoor uni	t			WSYP1	00DG6					
Model Name	Outdoor unit		WPYA	.050LG	WPYA	080LG	WPYA	\100LG			
Capacity range	<u> </u>			5		8		10			
	Heating capacity	1344	5	.00	8.	00	10	0.00			
7°C/35°C floor heating *1	Input power	⊢ kW ⊢	1	.19	1.	78	2.	.30			
,	COP		4	.20	4.	50	4	.35			
	Heating capacity	kW	3	.65	4.	35	4.	.90			
2°C/35°C floor heating *1	Input power	KW	1.	.07	1.	23	1.	.44			
3	COP		3	.40	3.	55	3.	.40			
	Heating capacity	kW	3	.55	7.	10	8.	.00			
-7°C/35°C floor heating*1	Input power	KW	1.	.38	2.	93	3.	.32			
	COP		2	.57	2.	42	2	.41			
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	4	4	6	7	7	8			
Seasonal space heating energy efficie	ency(η_s)	%	118	171	123	168	118	167			
Annual energy consumption	,	kWh	3055	1952	3828	3580	4491	3700			
Sound power level	Outdoor unit	dB (A)	62	61	(5	(58			
Hydraulic indoor unit Specification											
Power source					1 Ø 230	V 50 Hz					
Dimensions H×W×D		mm			803 × 4	50 × 457					
Weight (Net)		kg			L	0					
Buffer tank capacity		L			2	22					
Expansion vessel capacity		L				2					
Water pipe connection diameter	Flow/Return	mm				/Ø 25.4					
Backup heater	Capacity	kW			6.0(3.0k	W×2pcs.)					
Outdoor unit specification											
Power source					1 Ø 230	V 50 Hz					
Dimensions H × W × D		mm	675 × 8	25 × 300		882 × 85	50 × 330				
Weight (Net)		kg		49		7					
Current	Max	A		0.9	1!	5.2		7.5			
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				
	Type (Global Warming	Potential)			R410A	(2,088)					
Refrigerant	Charge	kg	1	.05			72				
Leaving water temperature range	°C										
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

Dimensions







these values.

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