





WATERSTAGE™ makes an Economical and Clean hot water heating system by Heat Pump

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.



All Type Lineup

Split Type

Split DHW Integrated Type

Monobloc Type

Smart & Comfort Control

Case Studies

Optional Parts

Installation Limitations

Specifications & Dimensions

All Type Lineup

_				-
Cap	pacity (kW)	5	6	8
	High Power series Single phase Page 218 Hydraulic Indoor Unit / Outdoor Unit			
Split	High Power series 3 phase Page 218 Hydraulic Indoor Unit / Outdoor Unit			
	Comfort series Page 218 Hydraulic Indoor Unit / Outdoor Unit	WSYA050DG6 / WOYA060LFCA	WSYA100DG6 / WOYA060LFCA	WSYA100DG6 / WOYA080LFCA
	High Power series Single phase Page 218 Hydraulic Indoor Unit / Outdoor Unit			
Split DHW integrated	High Power series 3 phase Page 218 Hydraulic Indoor Unit / Outdoor Unit			
	Comfort series Page 218 Hydraulic Indoor Unit / Outdoor Unit	WGYA050DG6 / WOYA060LFCA	WGYA100DG6 / WOYA060LFCA	WGYA100DG6 / WOYA080LFCA
Monobloc	Compact series with hydraulic unit Page 220 Hydraulic Indoor Unit / Outdoor Unit	WSYP100DF6 / WPYA050LG		WSYP100DF6 / WPYA080LG

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



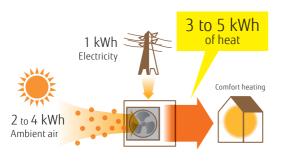
SG-Ready is a defined standard by BWP***, which makes it possible that the device can be integrated into a smart grid. Heat pumps, which are equipped with the SG-Ready Label, can receive signals from the power grid (and e.g. also from PV systems) about the available (unused renewable) energy (from wind, sun & water). Fujitsu General provides the SG-Ready compatibility to all new Heat Pumps series.

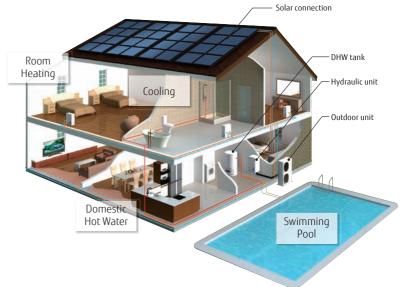
***BWP: the Federal German Heat Pump Association

10	11	14	16
10	WSYG140DG6 / WOYG112LCTA	WSYG140DG6 / WOYG140LCTA	10
	WSYK160DG9 / WOYK112LCTA	WSYK160DG9 / WOYK140LCTA	WSYK160DG9 / WOYK160LCTA
WSYA100DG6 / WOYA100LFTA			
	WGYG140DG6 / WOYG112LCTA	WGYG140DG6 / WOYG140LCTA	
	WGYK160DG9 / WOYK112LCTA	WGYK160DG9 / WOYK140LCTA	WGYK160DG9 / WOYK160LCTA
WGYA100DG6 / WOYA100LFTA			
WSYP100DF6 / WPYA100LG			

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.





Split Type High power Series/Comfort series



High power series

Hydraulic indoor unit: WSYG140DG6/[3phase] WSYK160DG9 Outdoor unit: WOYG112LCTA/WOYG140LCTA

[3phase] WOYK112LCTA/WOYK140LCTA/WOYK160LCTA

Comfort series

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



Hydraulic indoorunit Single Phase/ 3 Phase

Outdoor unit Single Phase 11/14 kW



3 Phase 11/14/16 kW



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: WOYG112LCTA/WOYG140LCTA

[3phase] WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic indoor unit

Single Phase/ 3 Phase



Outdoor unit Single Phase 11/4 kW



3 Phase 11/14/16 kW

Comfort series

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



Hydraulic indoor unit



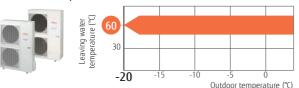


10 kW

High leaving water temperature

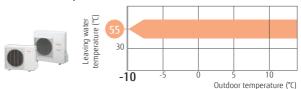
High power series: High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.

At -20°C outdoor temperature: 60°C Hot water



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.

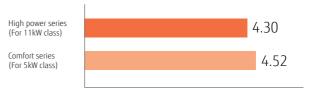
At -10°C outdoor temperature: 55°C Hot water



^{*} 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.

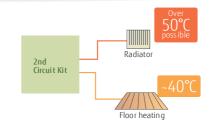


Condition: Outdoor Temp. 7°C Heating Temp. 35°C.

2 Zone individual control*

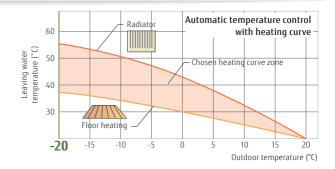
2 Zone individual control (2 under floor heating zones or under floor heating + radiator zone, etc.)*

*: Optional parts are required.



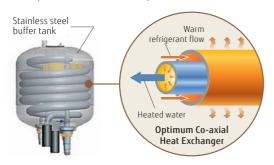
Automatic heating curve control

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



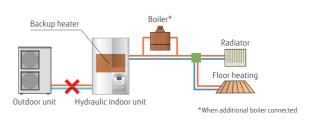
High durability

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



Emergency operation

System can continuously supply hot water by built in back up heater or boiler, as emergency, even if an error has occurred.



Monobloc lype Comfort series



Hydraulic indoor unit: WSYP100DG6

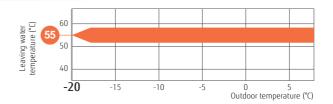
Outdoor unit: WPYA050LG / WPYA080LG / WPYA100LG



Features

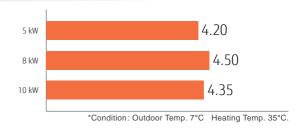
High leaving water temperature

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.



Compact & light weight design



Features of the hydraulic indoor unit

- The compact Indoor unit provides two electrical back up heater, each with 3kW 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).



Smart & Comfort Control

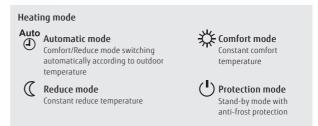


Large LCD panel

- Operation status display
- Error display
- Plain text

Simple operation mode setting

• Selecting the heating mode and Domestic hot water operation

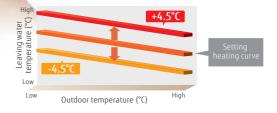


Navigation and setting

- Selecting the heating menu
- Setting program timer

Automatic heating curve operation

Automatic heating curve control based on outdoor temperature and setting room temperature. This can be adjusted when too warm or too cold.



Programmable timer

- The setting of timer operation can easily be adjusted.
- Changing the heating mode linked with time is possible.

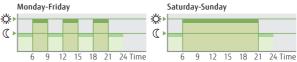
Day-Weekly timer setting

- The day-weekly timer can be set up for up to 3 times per day.
- Allows separate settings for each day of the week.

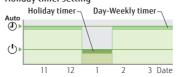
Holiday timer setting

- The holiday timer can be set for up to 8 periods
- If you are absent for a long time in the winter, freezing of room can be prevented.

Day-Weekly timer setting



Holiday timer setting



Auto-changeover

If the cooling operation function is set, the system can automatically switch to cooling or heating, depending on the outdoor temperature to provide all-season comfortable air conditioner.

Remote control-extension

Various remote controls are available on your hands. Remote control is also available via Web. All kinds of life styles are supported.

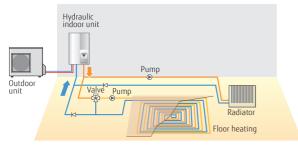


Case Studies

Split Case studies

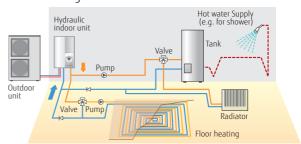
2 emitter simultaneous heating (Individual control)

Floor heating + Radiator

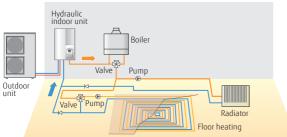


3 types of heat distribution

Floor heating + Radiator + Domestic Hot Water

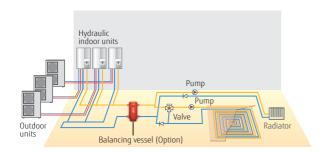


Boiler connected to heating (Boiler + Heating)

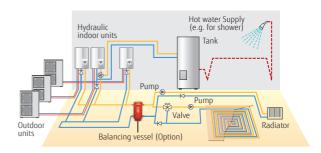


Split Cascade System Case studies

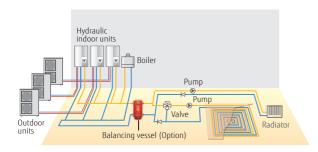
2 emitter simultaneous heating (Individual control)



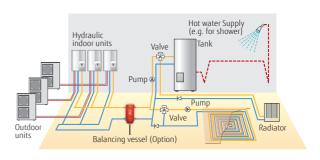
2 emitter simultaneous heating & Domestic Hot Water (type A)



Boiler connected to heating (Boiler + Heating)



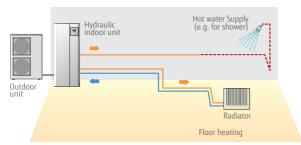
2 emitter simultaneous heating & Domestic Hot Water (type B)



Split DHW integrated Case studies

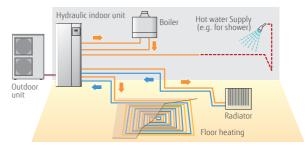
Single heating & Domestic Hot Water

Radiator + Domestic Hot Water



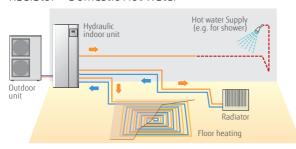
Boiler connected to heating (Boiler + Heating) & Domestic Hot Water

Radiator + Domestic Hot Water



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

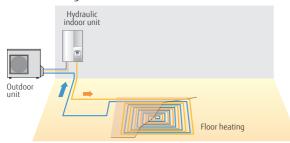
Radiator + Domestic Hot Water



Monobloc Case studies

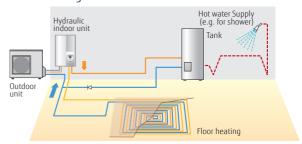
Single heating system

Floor heating



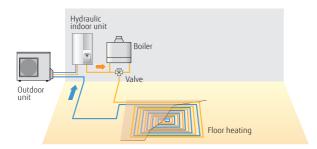
2 types of heat distribution

Floor heating + Domestic Hot Water



Boiler connected to heating (Boiler + Heating)

Floor heating



Optional Parts

							Split							Spli	t DHW	integ	ated t	уре			N	onobl	ос
Produc	t Name	Model Name			gh Pov					nfort				gh Pov					nfort		(ompa	ct
			11	Ø 14	11	3Ø	16	5	6	Ø 8	10	11	Ø 14	11	3Ø	16	5	6	Ø 8	10	5	1Ø 8	10
		UTW-KZSXE	•	•	•	•	•	•	•	•	•	-	-	-	-	-	_	_	_	-	_	_	-
2nd Circuit Kit		UTW-KZDXE	-	-	_	-	-	-	-	_	-	•	•	•	•	•	•	•	•	•	-	-	_
Boiler	D	UTW-KBSXD	•	•	•	•	•	•	•	•	•	_	_	-	_	-	_	_	_	_	_	_	_
Connection kit	3	UTW-KBDXD	_	_	_	_	_	_	_	_	_	•	•	•	•	•	•	•	•	•	_	_	_
Balancing vessel	+	UTW-TEVXA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DHW kit		UTW-KDWXG (Internal)	-	-	_	-	_	-	-	_	-	-	-	-	_	-	-	_	-	-	•	•	•
	9.	UTW-KDWXD (External)	•	•	•	•	•	•	•	•	•	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	•	•	•
DHW tank	200 Liter 300 Liter	UTW-T20XA UTW-T30XA	•	•	•	•	•	•	•	•	•	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	•	•	•
	300 Liter	UTW-T30XD	•	•	•	•	•	•	•	•	•	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	•	•	•
Circulating pump	76	UTW-PHFXD	•	•	•	•	•	-	-	-	-	•	•	•	•	•	-	-	-	-	-	-	-
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)	-08	UTW-KCMXE	•	•	•	•	•	-	-	_	•	_	_	-	_	-	-	_	_	-	-	-	=
Cascade Slave Kit (incl. LPB Clip)		UTW-KCSXE	•	•	•	•	•	-	-	-	•	-	_	=	_	-	-	-	-	-	-	-	_

	ct Name	Model Name	1							nfort				gh Pov	VCI			Com			1	ompa	
			- 1	Ø		3Ø			1	Ø		1	Ø		3Ø			1	Ø			1Ø	
			11	14	11	14	16	5	6	8	10	11	14	11	14	16	5	6	8	10	5	8	10
HMI Kit		UTW-KHMXE*3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Wired	UTW-C74TXF*3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Remote	WIEC	UTW-C74HXF* ³	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Controller	((r. Wireless	UTW-C78XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Wileless	UTW- C78XD-E* ⁴	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Room	Wired	UTW-C55XA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Thermostat	Wireless	UTW-C58XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Outdoor Sensor Transmitter	(tr.	UTW-MOSXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RF Modules	for BSB-Port	UTW-MRCXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Web server	10 (00)	UTW-KW1XD UTW-KW4XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
LPB Clip		UTW-KL1XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MODBUS Clip		UTW-KMBXE	-* ⁷	_* ⁷	-* ⁷	-* ⁷	-* ⁷	-* ⁷	-* ⁷	-* ⁷	-* ⁷	-* ⁷	-* ⁷	_* ⁷	-* ⁷	-* ⁷	-* ⁷	-* ⁷	-* ⁷	-* ⁷	•	•	•
Base Heater		UTW-HAMXE	-	-	_	-	-	-	-	-	-	-	-	ı	-	-	-	-	-	_	-	•	•
разе пеаге		UTW-HAMXF	_	=	_	-	_	_	-	_	-	-	-	-	-	-	-	_	_	_	•	=	_
Service Tool (incl.OCI700 adaptor	20	UTW-KSTXD	●* ⁵	●* ⁵	●* ⁵	● * ⁵	●* ⁵	● * ⁵	●* ⁵	●* ⁵	● * ⁵	●* ⁵	●* ⁵	● * ⁵	● * ⁵	●* ⁵	●* ⁵	●* ⁵	●* ⁵	●* ⁵	●* ⁵	●* ⁵	● * ⁵
Service Tool Software	0	UTW-KPSXD	●* ⁶	●* ⁶	●* ⁶	●* ⁶	● * ⁶	●* ⁶	●* ⁶	●* ⁶	● * ⁶	●* ⁶	●* ⁶	●* ⁶	●* ⁶	● * ⁶	●* ⁶	● * ⁶	●* ⁶	● * ⁶	● * ⁶	●* ⁶	●* ⁶
External connect kit		UTY-XWZXZ2	•	•	•	•	•	-	-	_	-	•	•	•	•	•	-	_	-	_	-	=	_

-: 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 Estern 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-KL1XD is required for the connection.

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

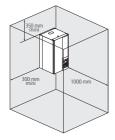
*7: Additional optional part necessary

Installation Limitations

Equipment Installation

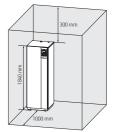
Split type Hydraulic indoor unit

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



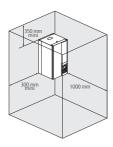
Split DHW integrated type Hydraulic indoor unit

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



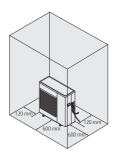
Monobloc Type Hydraulic indoor unit

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



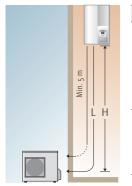
Monobloc type Outdoor unit

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



Piping and Wiring

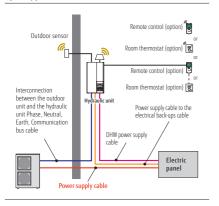
Split type



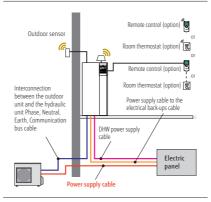
Series	Capacity range(kW)	H (m)	L (m)
	5		
Comfort	6	±20	5-30
Common	8	<u> </u>	5-30
	10		
	11		
High power	14	±15	5-20
F	16		

Electrical wiring

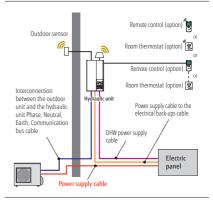
Split type



Split DHW integrated type



Monobloc Type with Hydraulic indoor unit

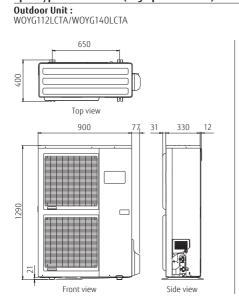


Specifications & Dimensions

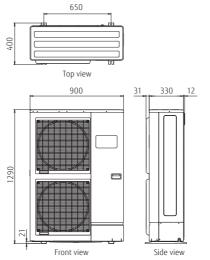
Split type Specifications (High power series)

Model Name		Hydraulic indoor unit		WSYG1			40DG6		60DG9			WSYK1		
Model Name		Outdoor unit		WOYG1	12LCTA		40LCTA	WOYK1	12LCTA			WOYK1		
Capacity range					1		4	1				1		
		Heating capacity	kW		.80		.50		.80	CTA W0YK140LCTA 14 13.50 3.20 4.22 13.00 4.15 3.13 13.00 5.18 2.51 35 55 35 A++ A+ A++ 11 11 13 154 117 150 5930 7803 6738 46 68 70 68 3 N 400 V 50 Hz 457 0 24.4/48.7 25.4 9.0(3.0kW×3pcs.) 3 N 400 V 50 Hz 9.5 ×330 99		15.		
7°C/35°C floor heati	ing *1	Input power	I KW		54		23	2.				3.		
		COP		4.			18		30			4.		
		Heating capacity	kW	10	.77	12	.00	10	.77	13	.00	13.	50	
2°C/35°C floor heati	ing *1	Input power] KVV	3.		3.	87		40			4.	34	
	-	COP		3.	13	3.	10	3.	17	4.22 13.00 4.15 3.13 13.00 5.18 2.51 35 55 35 4++ A+ A++ 11 11 13 154 117 150 930 7803 6738 46 68 70 68 3 N 400 V 50 Hz 457 24.4/48.7		3.	11	
		Heating capacity	kW	10.	.80	12	.00	10	.80	4.15 3.13 13.00 5.18 2.51 35 55 35 A++ A+ A++ 11 11 13 154 117 150 5930 7803 6738 46 68 70 68 3 N 400 V 50 Hz 457 0 24.4/48.7		13.	50	
-7°C/35°C floor heat	ing*1	Input power	T KW	4.	32	5.	08	4.	28	5.	18	5.4	40	
		COP		2.	50	2.	36	2.	52	2.	51	2.	50	
Space heating cha	racteristics*2	'												
Temperature applic	ation		°C	55	35	55	35	55	35	55	35	55	35	
Energy efficiency cl	ass			A+	A++	A+	A+	A+	A++	A+	A++	A+	A+	
Rated heat output(kW	9	11	11	13	9	11	11	13	13	14	
	ating energy efficiency	(η _s)	%	109	151	113	148	112	154	117	150	117	149	
Annual energy cons			kWh	6842	6062	8041	6824	6669	5930	7803	6738	9062	740	
<u> </u>	Hydraulic indoor un	it	ID/A)	4	6	4	6	4	6	6	46			
Sound power level	Outdoor unit		dB(A)	6	8	6	9	69	68	70	68	71		
Hydraulic indoor u	nit Specification		68 69 69 68 70 68											
Power source	•				1 Ø 230	V 50 Hz				3 N 400	V 50 Hz			
Dimensions H×W×D)		mm					800 × 4	50 × 457					
Weight (Net)			kg					4	2					
Water circulation		Min/Max	L/min	19.5	/39.0	24.4	/48.7	19.5	39.0	24.4	/48.7	27.4/	54.8	
Buffer tank capacit	V		L					1	6					
Expansion vessel ca	apacity		L						3					
Leaving water temp	perature range	Max	°C					6	0					
Water pipe connect		Flow/Return	mm					Ø 25.4	Ø 25.4					
Backup heater		Capacity	kW		6.0(3.0k	W×2pcs.)				9.0(3.0k	W×3pcs.)			
Outdoor unit speci	fication			<u> </u>		1 /								
Power source					1 Ø 230	V 50 Hz				3 N 400	V 50 Hz			
Current		Max	A	22			5.0	8	.5			10	1.5	
Dimensions H × W >	× D	Į.	mm					1.290 × !	900 ×330					
Weight (Net)			kg		9	2				9	19			
		Type (Global Warming P						R410A	(2,088)					
Refrigerant		Charge	kg						50					
Additional refrigera	tional refrigerant charge amount								0					
		Liquid	g/m						.52					
	Diameter	Gas	mm						5.88					
Connection pipe									20					
Length(Pre-charge)				15										
Length(Pre-charge) Height difference Max				15										
	eration range Heating				-25 to 35									

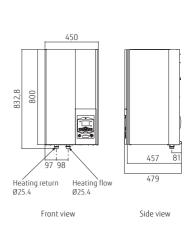
Split type Dimensions (High power series)



Outdoor Unit: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic Indoor Unit : WSYG140DG6/WSYK160DG9

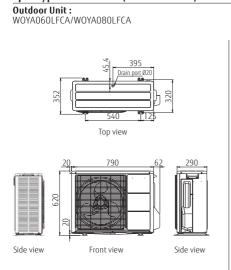


Split type Specifications (Comfort series)

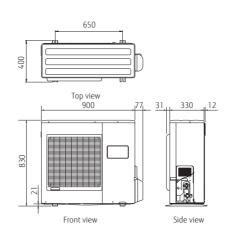
Model Name		Hydraulic indoor unit)50DG6		00DG6		100DG6	WSYA100DG6						
		Outdoor unit			60LFCA		60LFCA		80LFCA		00LFTA					
Capacity range					5		6		8		0					
		Heating capacity	kW -		50		00		.50	10.00						
7°C/35°C floor heati	ng *1	Input power	IXVV		996	1.			.84		49					
		COP			52	4.			.08		02					
		Heating capacity	→ kW →		50		95		.65	7.70						
2°C/35°C floor heati	ng *1	Input power	I NVV		39		53		.78	2.47						
		COP			24		24		.17		12					
		Heating capacity	⊢ kW ⊢		.10		60		.70		40					
-7°C/35°C floor heat	ing*¹	Input power	I VVV		47		74		.23		97					
		COP		2.	79	2.	64	2.	.56	2.	49					
Space heating cha																
Temperature applic			°C	55	35	55	35	55	35	55	35					
Energy efficiency cl	ass			A+	A++	A+	A++	A+	A++	A+	A++					
Rated heat output(P _{rated})		kW	4	4	5	5	6	7	8	8					
	ating energy efficienc	$y(\eta_s)$	%	115	169	115	169	118	156	113	155					
Annual energy cons			kWh	3026	2160	3180	2505	3886	3375	5415	441					
Sound namer lavel	power level Hydraulic indoor unit				ı6	4	6		46	4	-6					
•	Outdoor unit ulic indoor unit Specification			65	60	65	63	65	69	68	69					
	nit Specification															
Power source								V 50 Hz								
Dimensions H×W×D)		mm	800 × 450 × 457												
Weight (Net)			kg	42												
Water circulation		Min/Max	L/min	8.1/	8.1/16.2 10.8/21.7 13.5/27.1											
Buffer tank capacit	у		L				1	16								
Expansion vessel ca	apacity		L					8								
eaving water temp	perature range	Max	°C					55								
Water pipe connect	ion diameter	Flow/Return	mm				Ø 25.4	/Ø 25.4								
Backup heater		Capacity	kW				6.0(3.0k	W×2pcs.)								
Outdoor unit speci	fication															
Power source								V 50 Hz								
Current		Max	A	11	1.0		2.5	1	7.5		3.5					
Dimensions H × W >	× D		mm			620 × 7	90 ×290				00 × 330					
Weight (Net)			kg		4	-1			42	9	0					
Refrigerant		Type (Global Warming I					R410A	(2,088)								
		Charge	kg		1.	10		1.	.40		80					
Additional refrigera	tional refrigerant charge amount				25 40											
	Diameter Liquid			Ø 6.35 Ø 9.5												
C	Gas				Ø 1	2.7	-	120	Ø 1	5.88						
onnection pipe Length Min/Max			m m	5/30												
Length(Pre-charge) Height difference Max				15												
	Height difference	m	20 -20 to 35													
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.

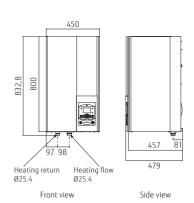
Split type Dimensions (Comfort series)



Outdoor Unit : WOYA100LFTA



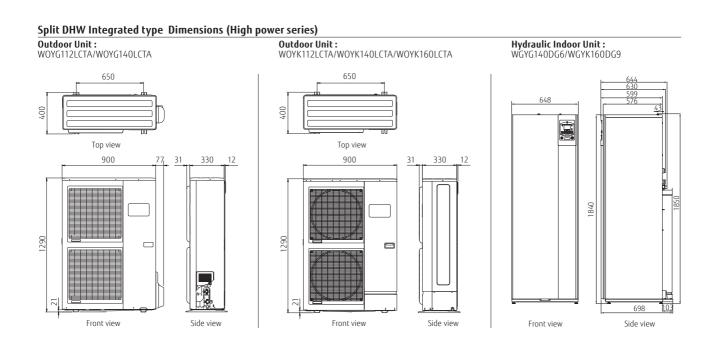
Hydraulic Indoor Unit : WSYA050DG6/WSYA100DG6



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

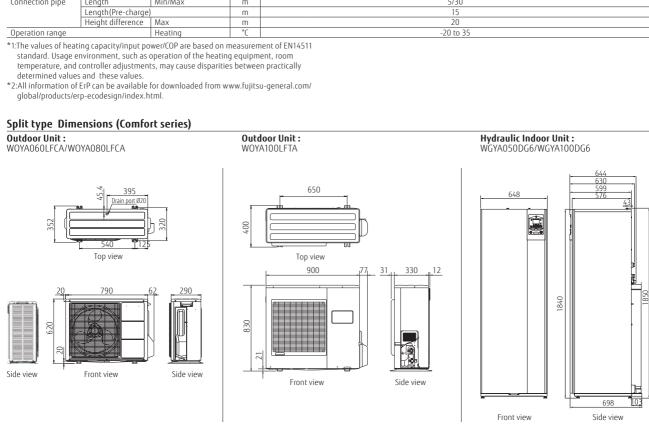
Split DHW Integrated type Specifications (High power series)

Model Name		Hydraulic indoor unit			140DG6		140DG6	WGYK1			60DG9		160DG9
Model Name		Outdoor unit			12LCTA		40LCTA	WOYK1	12LCTA		40LCTA		60LCTA
Capacity range					1		4	1			4		6
		Heating capacity	kW		.80		.50	10.		13.50		15.17	
7°C/35°C floor heati	ing *¹	Input power	KVV		54		23	2.		3.20			70
		COP			25		18	4.			22		.10
		Heating capacity	kW	10	.77	12	.00	10.	.77	13	.00	13	.50
2°C/35°C floor heati	ing *1	Input power	T KVV		44		87	3.4	40		15		34
	-	COP		3.	.13	3.	10	3.	17	3.	13	3.	.11
		Heating capacity	kW	10	.80	12	.00	10.	.80	13.	.00	13	.50
-7°C/35°C floor heat	ting* ¹	Input power	KVV	4.	32	5.	08	4	28	5.	18	5.	40
	-	COP		2.	50	2.	36	2.:	52	2.	51	2.	50
Space heating cha	racteristics*2	•								<u> </u>			
Temperature applic			°C	55	35	55	35	55	35	55	35	55	35
Energy efficiency cl				A+	A++	A+	A+	A+	A++	A+	A++	A+	A+
Rated heat output(kW	9	11	11	13	9	11	11	13	13	14
	ating energy efficiency	/(η _s)	%	109	151	113	148	112	154	117	150	117	149
Annual energy con:		1.15	kWh	6842	6062	8041	6824	6669	5930	7803	6738	9062	740
	Hydraulic indoor ur	nit			6		6	4			6		6
Sound power level	Outdoor unit		dB(A)		i8		9	69	68	70	68		71
Domestic hot wate	er characteristics*2		_		-		-						
Load profile								1					
Energy efficiency cl	lass								4				
Energy efficiency(n			%					8					
Annual electricity c			kWh					11					
Hydraulic indoor u			1 111111						-				
Power source	inc specification				1 Ø 230	V 50 Hz				3 N 400	V 50 Hz		
Dimensions H×W×D)		mm		1 0 230	T JO TIL		1,840× 6	48 × 698	311 100	1 30 112		
Weight (Net)	,		kg						52				
Water circulation			L/min	19.5	/39.0	24.4	/28.7	19.5/		24.4	/48.7	27.4	/54.8
DHW capacity			1	13.3	733.0	2	, 20.,	19		2	, 10.7	27.1	, , , , , ,
Hot water heater ca	anacity		kW					1.					
Expansion vessel c			I						2				
Leaving water tem		Max	-°C		-			6					
Water pipe connect		Flow/Return	mm					Ø 25.4/					
Hot water pipe con		1 IOW/NCCUITI	mm					Ø 23.47					
Backup heater	cction diameter	Capacity	mm		6.0(3.0k	W×2ncs)		10 13	,	9.0(3.0k	W×3ncs)		
Outdoor unit speci	fication	Сорасиу	1 111111		70.015.07	** Zpc3./				J.U,J.UA	· · Jpcs./		
Power source	incacion				1 07 230	V 50 Hz		I		3 N V 00	V 50 Hz		
Current		Max	I A	2	2.0		5.0	8.	5		.5	11	0.5
Dimensions H × W :	× D	MOV	mm		L.U		J.U		.5 900 ×330	1 9		1	ر.ر
Weight (Net)	·· U		kg		0	12		1,230 ^ 3	טבבי טטי	0	19		
		Type (Global Warming F				-		R410A	(2.088)				
Refrigerant		Charge	kg	l				2.:					
		g/m					5						
nuuliiollai leiligela	I and the annount	Liquid	9/111		-			Ø 9					
	Diameter	Liquid Gas	mm										
Canaastiaa ais -	Longth		-					Ø 15					
Connection pipe	Length	Min/Max	m					5/.					
	Length(Pre-charge		m					1					
	Height difference Max m			15									
Operation range	ration range Heating "							-25 t	:0 35				



Split DHW Integrated type Specifications (Comfort series)

Model Name		Hydraulic indoor unit		WGYA0			00DG6		100DG6		00DG6			
Model Name		Outdoor unit		WOYA0	60LFCA	WOYA0	60LFCA	WOYA0	80LFCA	WOYA100LFTA				
Capacity range				5			6		8		0			
		Heating capacity	kW	4.			00		50		.00			
7°C/35°C floor heatir	ng *¹	Input power	IV V V	0.9		1.			84		49			
		COP		4.			27		.08		02			
		Heating capacity	- kw	4.50 1.39			95		.65		70			
2°C/35°C floor heatir	ng *¹	Input power	KVV				53		.78	2.47				
		COP		3			24		.17		12			
		Heating capacity	kW	4.	10	4.	60	5.	.70	7.40				
-7°C/35°C floor heati	ing*¹	Input power	KVV	1.4			74		.23		97			
		COP		2.	79	2.	64	2.	.56	2.	49			
Space heating char	acteristics*2													
Temperature applica			°C	55	35	55	35	55	35	55	35			
Energy efficiency cla	ass			A+	A++	A+	A++	A+	A++	A+	A++			
Rated heat output(F			kW	4	4	5	5	6	7	8	8			
Seasonal space hea	ting energy efficiency	γ(η _s)	%	115	169	115	169	118	156	113	155			
Annual energy cons	umption		kWh	3026	2160	3180	2505	3886	3375	5415	4415			
Sound power level	Hydraulic indoor u	nit	dB(A)	4			6		+6		6			
	Outdoor unit		ub(A)	65	60	65	63	65	69	68	69			
Domestic hot water	r characteristics*2													
Load profile	rofile													
Energy efficiency cla								\+						
Energy efficiency(ŋ v			%				1	20						
Annual electricity co			kWh				8	80						
Hydraulic indoor ur	nit Specification													
Power source								V 50 Hz						
Dimensions H×W×D			mm					48 × 698						
Weight (Net)			kg				1	52						
Water circulation			L/min	8.1/	16.2	10.8	/21.7		/27.1	18.1.	/36.1			
DHW capacity			L				1	90						
Hot water heater ca			kW					.5						
Expansion vessel ca	pacity		L					2						
Leaving water temp		Max	°C					5						
Water pipe connecti		Flow/Return	mm					/Ø 25.4						
Hot water pipe conr	nection diameter		mm					9.05						
Backup heater		Capacity	mm				6.0(3.0k	W×2pcs.)						
Outdoor unit specif	ication													
Power source								V 50 Hz						
Current		Max	A	11	.0		2.5	10	7.5		3.5			
Dimensions H × W ×	D		mm				90 ×290				00 ×330			
Weight (Net)			kg			¥1			+2	6	0			
Refrigerant	Type (Global Warming Po		Potential)				R410A	(2,088)						
		Charge	kg		1.	.10		1.	40		80			
Additional refrigera	nt charge amount		g/m				!5				0			
	Diameter	Liquid	mm				.35				9.52			
	Didilletel	Gas			Ø 1	2.70			Ø 1	5.88				
Connection pipe	Length	Min/Max	m					30						
	Length(Pre-charge		m	15										
	Height difference	Max	m											
		Heating	°C	-20 to 35										



Monobloc type Specifications

Model Name	Hydraulic indoor uni	t			WSYP1						
MIOUEI Name	Outdoor unit			.050LG	WPYA	080LG		100LG			
Capacity range				5		3		10			
	Heating capacity	kW	5	.00	8.	00	10	.00			
7°C/35°C floor heating *1	Input power	KVV		.19		78	2.30				
	COP		4	.20	4.		4.35				
	Heating capacity	- kW -	3	.65	4.	35	4.90				
2°C/35°C floor heating *1	Input power	KVV		.07	1.		1.	44			
	COP		3	.40	3.	55	3.	40			
	Heating capacity	- kW -	3	.55		10	8.	.00			
-7°C/35°C floor heating*1	Input power	T KVV	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	$ncy(\eta_s)$	%	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	6	5	6	8			
Hydraulic indoor unit Specification											
Power source						V 50 Hz					
Dimensions H×W×D		mm			803 × 45	50 × 457					
Weight (Net)		kg			4						
Buffer tank capacity		L			2						
Expansion vessel capacity		L			1						
Water pipe connection diameter	Flow/Return	mm			Ø 25.4	/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		25 × 300			50 × 330				
Weight (Net)		kg		49			'2				
Current	Max	A		0.9	15	5.2		7.5			
Water circulation	Min/Max	L/min	5.0	/20.0			/30.0				
Water pipe connection diameter	Flow/Return	mm									
Refrigerant	Type (Global Warming	Potential)	R410A (2,088)								
Kerriyeranı	Charge	kg	1	.05		1.	72				
Leaving water temperature range	Max	°Ć			5	5					
Operation range	Heating	°C	-20 to 35								

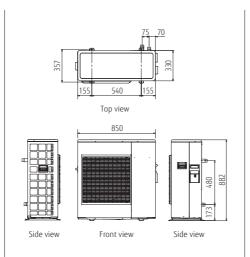
^{*1:}The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

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

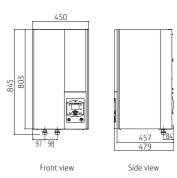
Monobloc type Dimensions Outdoor Unit : WPYA050LG

Top view 825 300 16 Side view Side view Front view

Outdoor Unit: WPYA080LG/WPYA100LG



Hydraulic Indoor Unit : WSYP100DG6



global/products/erp-ecodesign/index.html