







Split type

Split DHW Integrated type

Monobloc type

FUJITSU GENERAL LIMITED



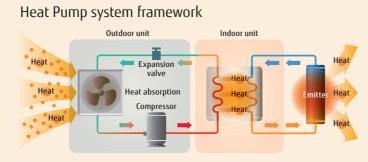
Fujitsu General "Waterstage" heat pumps are very efficient, regenerative and varied central heating systems, which absorb the energy mainly from the air.

21 Models

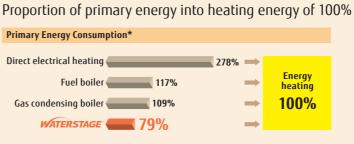




What's a Heat Pump? Absorbing the free energy from atmosphere. Heat pump system requires only 1 kW of electricity to generate 3 to 5 kW thermal energy.



Primary Energy Usage Reduced Drastically!



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

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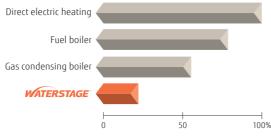
OVERVIEW

Advantage



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

Average annual CO₂ emissions



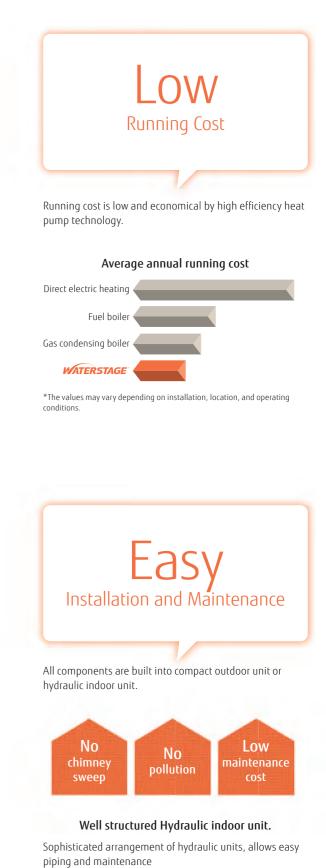
*Calculations based on data provided by European Program-2001` for EU 27 Fuel boiler efficiency: 89%, Gas boiler efficiency: 93%



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





WATERSTAGE

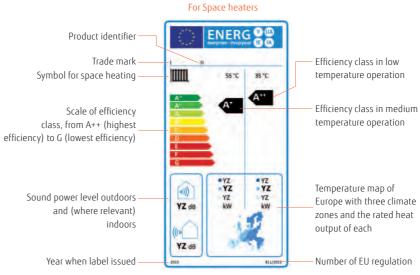
IEW

Wide Comfort

The clean energy delivers "comfort" to all spaces in the home up to the livin room, bedrooms, bath and swimming pool.



Energy Efficiency standard **Product labels**



The Ecodesign Directive Lot1 Regulation 813/2013

New Ecodesign directive defines a regulatory framework for improving the environmental performance of energy-related products(ErP)through design. From 26 September 2015, the Ecodesign Directive will apply to space heaters(including heat pumps and fossil fuel boilers), combination heaters(for both space and water heating), water heaters and water storage tanks. All these products will have to meet minimum requirements for energy efficiency* and maximum sound power levels. The minimum energy efficience level will be raised from 26 September 2017 and maximum sound power level will be lowered on 26 September 2018

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

The Energy Labelling Directive (EU)No 811/213

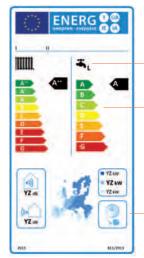
The energy label aims to help consumers make direct comparisons of energy use, as well as product specific features. On all labels, product identifier, efficiency class, sound power levels and heat output must be displayed. For heat generators, the scale runs from A++ to G(A+++ to D from 2019). There are two different product labels for space heaters and combination heaters.

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.

: Hiah Power split model **: Check the validity of label at www.ehpa.org/QL



For Combination heaters

Symbol for hot water heating

Scale of efficiency class, from A (highest efficiency) to G (lowest efficiency) for hot water heating

Optional symbol where operation is possible only in off-peak periods

Seasonal space heating Energy efficiency class

cy rel	
the	

	Except low temp HF 55℃
A	ηs ≥ 150
A "	125 ≤ ηs < 150
Α'	98 ≤ ηs < 125
	90 ≤ ηs < 98
В	82 ≤ ηs < 90
С	75 ≤ ηs < 82
D	36 ≤ ŋs < 75
E	34 ≤ ηs < 36
F	30 ≤ ηs < 34
G	ηs < 30

low temp HP 35℃ ηs ≥ 175 150 ≤ ηs < 175 123 ≤ ηs < 150 115 ≤ ŋs < 123 107 ≤ ηs < 115 $100 \le ns < 107$ $61 \le \eta s < 100$ 59 ≤ ηs < 61 55 ≤ ŋs < 59 ηs < 55

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



USAGE INTRODUCTION

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

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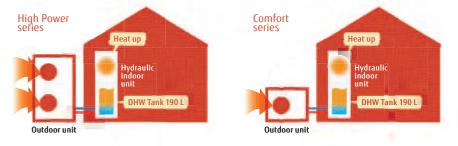
Outdoor

-25°C

temperature

Cold district



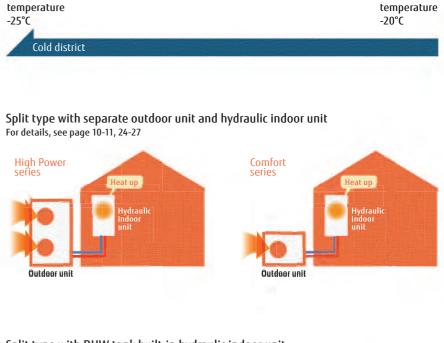


MONOBLOC TYPE



For details, see page 14-15, 32-33



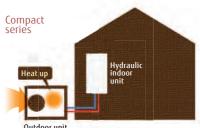


Outdoor

Split type with DHW tank built-in hydraulic indoor unit

For details, see page 12-13, 28-31

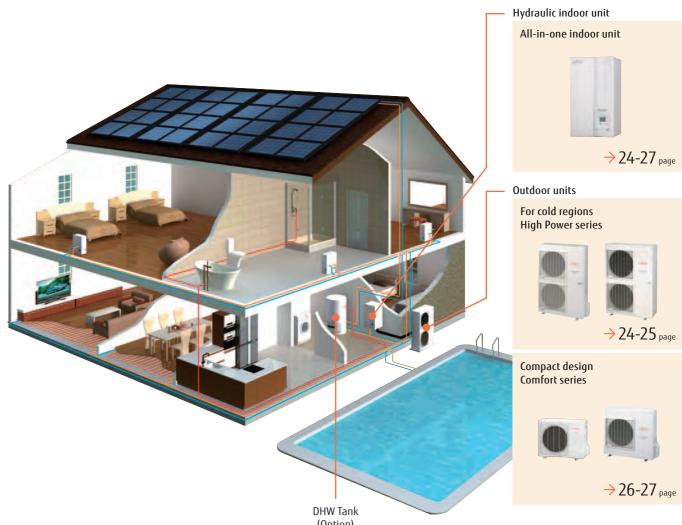
All-in-one type without refrigerant piping work



USAGE INTRODUCTION

SPLIT TYPE

Room heating & Domestic hot water



(Option)

- 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.

+ Boiler

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

+ DHW Tank

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

300 Liter



USAGE INTRODUCTION



Room heating & Domestic hot water



- 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.

Stylish space saving solution with built-in DHW tank



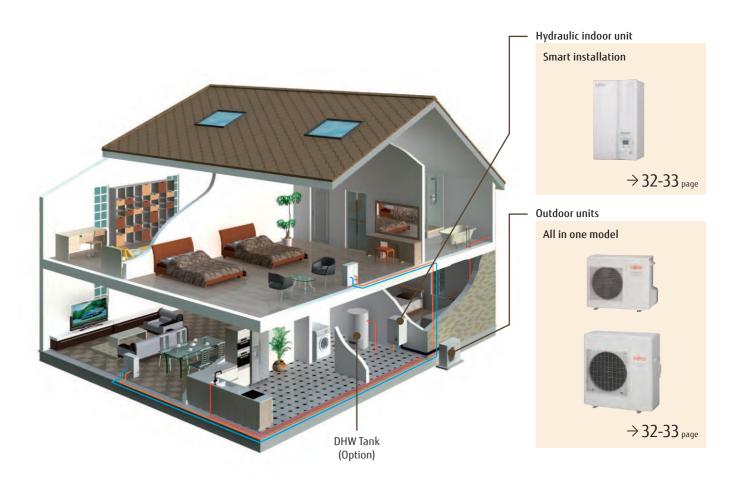
USAGE INTRODUCTION



1 1.44

Simple setting

Room heating & Domestic hot water



- 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.

Compact Design



anywhere due to compact size. ecting hydraulic pipes.

+ Boiler

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

+ DHW Tank

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



WATERSTAGE

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PRODUCT TECHNOLOGY & FEATURES





Linear Control Injection Port

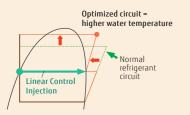
Twin Rotary Compressor

Product technology 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.



Heating cycl Co-axial — Heat Exchanger \cdot Hydraulic unit Linear Control $-\infty$

Evaporator

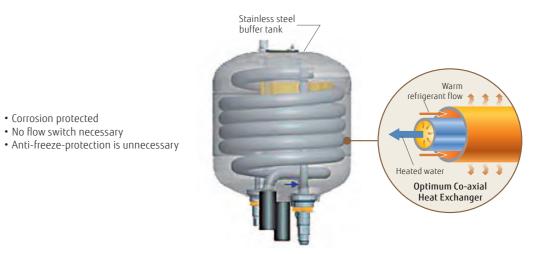
Outdoor unit



Accurate temperature control by DC inverter technology



High Durability Co-axial Heat Exchanger



Product technology for Hydraulic Indoor Unit

High Efficiency Class A Pump

Energy saving pump with constant volume or pressure adjustment function.

 Corrosion protected • No flow switch necessary



20.50

Esay Control Hydraulic Indoor Unit Controler 4 Heating mode

Automatic mode Comfort/Reduce mode switching automatically according to time program

Reduce mode Constant reduce temperature Comfort mode

Constant comfort temperature

Protection mode Stand-by mode with anti-frost protection







FEATURES

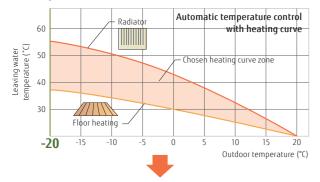
Comfort Control

A program adjusts the hot water temperature automatically in advance based on the outdoor temperature, so hot water temperature can be controlled so that setting temperature is maintained constantly.



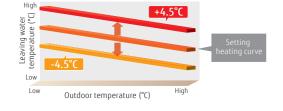
Automatic heating curve operation

Automatic heating curve control based on outdoor temp and setting room temperature.



Heating curve off-set: Adjust setting room temp.

This can be fine adjusted when too warm or too cold.



Quick recovery from defrost operation

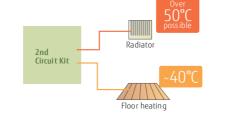
Maintaining the room temperature during defrost operation by boost start operation

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 conditioning.

2 Zone Individual Control*

Even if hot water temperature is different in 2 heating systems, they can be controlled simultaneously.



2 Stage Low Noise Mode*

Outdoor unit can be switched to silent mode, depending on the installation environment. (Valid only for High Power)



Backup heater operation

Backup heater can operates at low outdoor temperature so that comfortable status can be maintained. The backup heater is controlled intelligently just as a security backup for very cold days/ nights and only activated when really necessary.



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

Safety Function

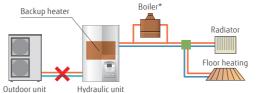
Anti-legionella function

The growth of Legionella in DHW tank is suppressed and safe and clean hot water is supplied at all times.



Emergency operation

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



*When additional boiler connected



Peak Cut Function*

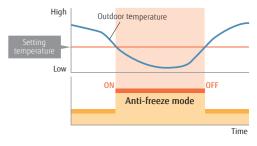
This function performs operation by setting a peak current value and reducing the power consumption.

Mode	The ratio of suppressing the power consumption
1	100%
2	75%
3	50%
4	Almost 0%



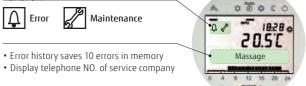
Anti-freeze function

Water circulation and compressor can be automatically performed at low outdoor temperature. Freezing of circulated water can be prevented



Error/Maintenance alarm

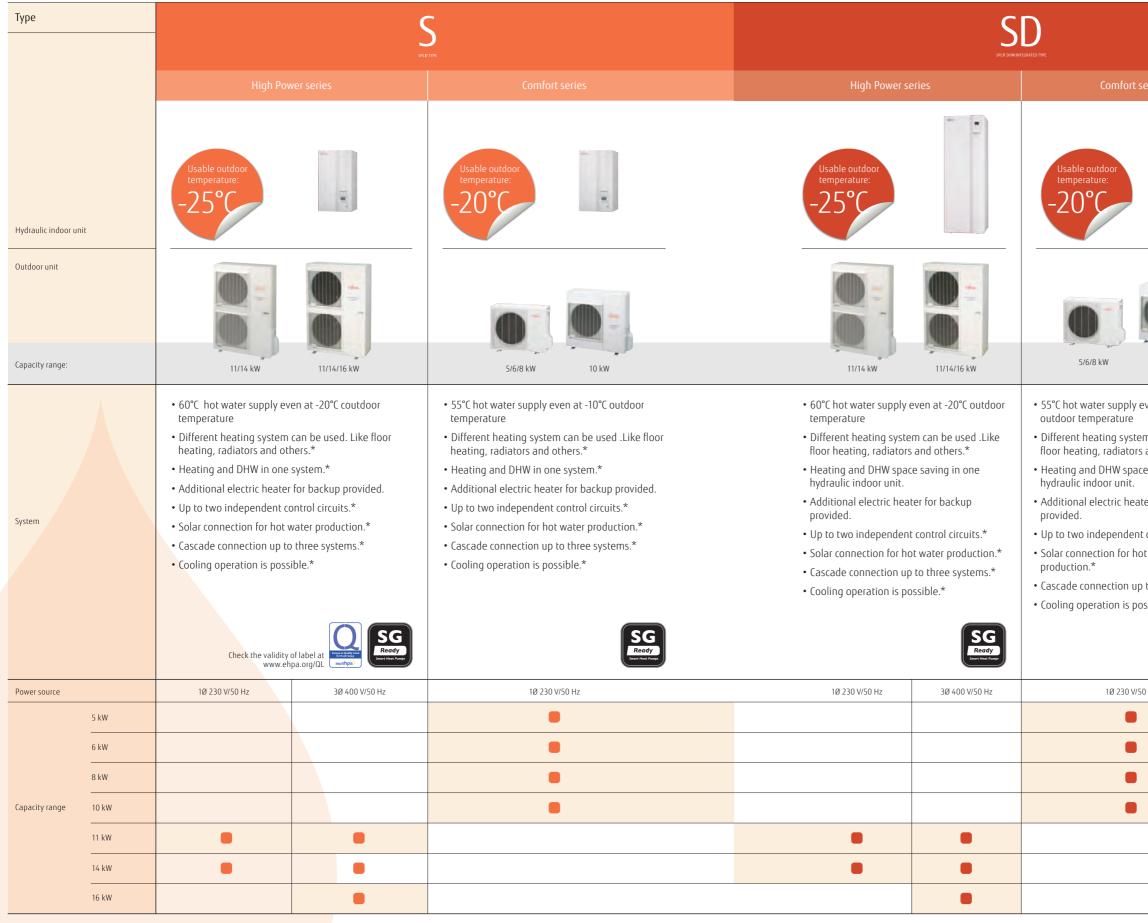
Quick error handling service and maintenance are possible by this function.



*: Optional parts are required.



PRODUCT LINEUP for various needs





	Моловіос гуре
series	Compact series
+	Usable outdoor temperature: -20°C
10 kW	5 kW 8/10 kW
even at -10°C em can be used.Like s and others.* ce saving in one ater for backup at control circuits.* ot water p to three systems.* ossible.*	 55°C hot water supply even at -20°C outdoor temperature Heating and DHW in one system. Additional base heater can be connected to prevent from freezing.* Cooling operation is possible.
50 Hz	1Ø 230 V/50 Hz
	•
	•
	1

*Optional parts are required.

WATERSTAGE[®] 23





High Power

High Power models realizes high heating capacity and high efficiency by newly developed "Linear Control Injection Technology" and "Co-axial Heat Exchanger".

These properties are the key for a reliable heating operation throughout the whole year- even in a strong winter.

- Automatic heating curve operation

- Quick recovery from defrost operation

Single Phase power supply



Hydraulic indoor unit WSYG140DG6

Outdoor unit WOYG112LCTA WOYG140LCTA

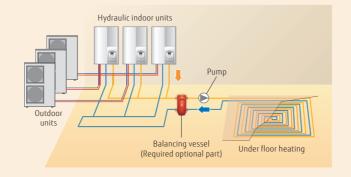


Hydraulic indoor unit -WSYK160DG9

Outdoor unit WOYK112LCTA WOYK140LCTA WOYK160LCTA

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

Cascade connection



Powerful Heating

High Power models realize high leaving water temperature and high heating capacity even at low ambient temperature by newly developed "Linear Control Injection Technology". It is possible to provide high water temperature and warm rooms in cold regions.

High Leaving Water Temperature



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

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

Extended Operation Range Down to -25°C

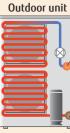
Improved operation range down to -25°C outdoor temperature

High COP

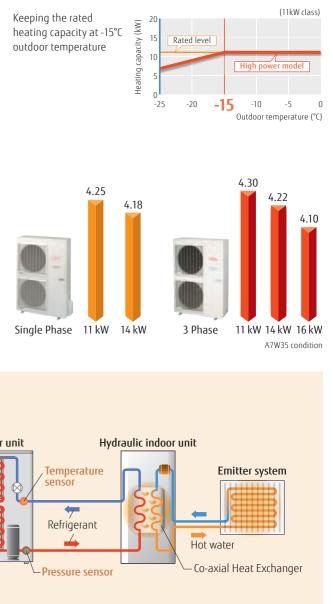
Energy efficiency is improved by the linear Control Injection Technology and the optimization of refrigerant cycle control. High Power model realizes high performance and high efficiency by adopting twin sensors and control technology corresponding to hot water heating.

Optimization of refrigerant cycle operation

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



Strong & Powerful Heating Capacity



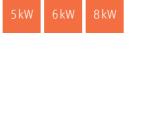
WATERSTAGE[®] 25

SPLIT TYPE



Comfort

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



Hydraulic indoor unit WSYA050DG6 WSYA100DG6

> Hydraulic indoor unit WSYA100DG6



Outdoor unit WOYA060LFCA WOYA080LFCA

Outdoor unit

WOYA100LFTA



Comfort models realize high efficient operation by compact design suited for European environment. Hot water temperature can be controlled finely by All DC control and comfortable space heating and domestic hot water are provided.

High Leaving Water Temperature



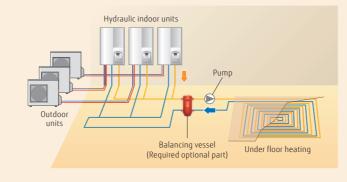
Maximum leaving water temperature is 55°C without backup heater. Hot water supply temperature can be maintained even at –10°C outdoor temperature.

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

Wide Operation Range

Improved operation range down to -20°C outdoor temperature

- Automatic heating curve operation
- Quick recovery from defrost operation

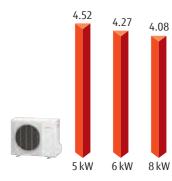


Cascade connection (10 kw model)

Outdoor unit technology



High COP





A7W35 condition



DC Fan Motor

High performance, high efficiency small DC fan motor mounted.



DC Twin Rotary Compressor

High efficient DC twin rotary compressor



DC Inverter

Smooth water temperature control realized by DC inverter control.

SPLIT DHW INTEGRATED TYPE



High Power

Split DHW integrated type realizes significant space saving because of the integrated DHW tank. Quick hot water supply is possible due to built-in high performance DHW tank. Heating and domestic hot water supply can be selected inside the intelligent controller. High Power models realize very efficient large heating capacities by newly developed "Linear Control Injection Technology" and "Co-axial heat Exchanger".

- Automatic heating curve operation
- Cooling operation
- Quick recovery from defrost operation

Anti-legionella functionAnti-freeze function

- Emergency operation
 Error/Maintenance alarm



3 Phase power supply

14kW

Single Phase power supply

11 kW 14 kW

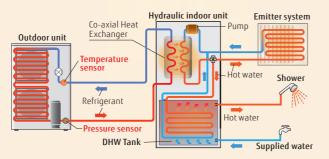




Outdoor unit WOYG112LCTA WOYG140LCTA

Outdoor unit WOYK112LCTA WOYK140LCTA WOYK160LCTA

Optimization of refrigerant cycle operation



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



Hydraulic indoor unit WGYG140DG6

High Power models realize high leaving water temperature and h ing capacity even at low ambient temperature by newly developed "Linea Control Injection Technology". It is possible to provide high water tempera ture and warm rooms in cold regions.

High Leaving Water Temperature



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

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

Extended Operation Range Down to -25°C

Improved operation range down to -25°C outdoor temperature

High COP

Energy efficiency is improved by the linear Control Injection Technology and the optimization of refrigerant cycle control. High Power model realizes high performance and high efficiency by adopting twin sensors and control technology corresponding to hot water heating.

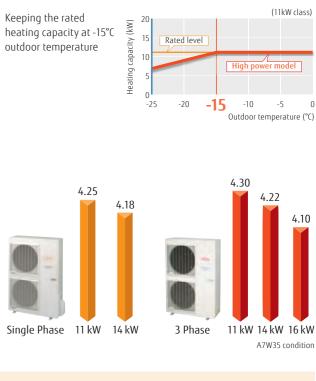
For Split DHW Integrated type Hydraulic indoor unit 7 698 mm Hydraulic unit DHW Tank 190 L 648 mm







Strong & Powerful Heating Capacity



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



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

WATERSTAGE[®] 29

SPLIT DHW INTEGRATED TYPE



Comfort series

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

- Automatic heating curve operation
- Auto-changeover
- Cooling operation
- Quick recovery from defrost operation

- Emergency operationError/Maintenance alarm



Hydraulic indoor unit WGYA050DG6 WGYA100DG6



Hydraulic indoor unit WGYA100DG6

Comfort models realize high efficient operation by c suited for European environment. Hot water ter controlled finely by All DC control and comforta and domestic hot water are provided.

High Leaving Water Temperature



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

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

Wide Operation Range

Improved operation range down to -20°C outdoor temperature



WOYA100LFTA

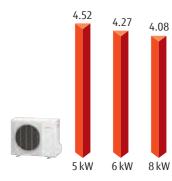
Outdoor unit technology





eated up Comfortab

High COP





A7W35 condition



DC Fan Motor

High performance, high efficiency small DC fan motor mounted.



DC Twin Rotary Compressor

High efficient DC twin rotary compressor



DC Inverter

Smooth water temperature control realized by DC inverter control.

MONOBLOC TYPE



Compact series

Compact designed heat pump. Refrigerant pipe work is unnecessary. Only hydraulic connecting work is to be done. Circulation pump, safety valve and automatic vent valve are included. Easy installation and maintenance is feasible.

Comfort Control

- Automatic heating curve operation
- Auto-changeover
- Cooling operation
- Quick recovery from defrost operation • Backup heater operation

Energy Saving • Programmable timer

Safety Function • Anti-legionella function

- Emergency operation Error/Maintenance alarm



WSYP100DG6

Hydraulic indoor unit



Easy installation & maintenance!

Monobloc unit

Comp

Plate heat exchange

Heating circuit r

All-in-One Model

Ambient air

-	Hydrauli
3	WSYP1

Hydraul

unit

Hot water

Heating emitte

100DG6

Outdoor unit WPYA080LG WPYA100LG

ic indoor unit

High leaving water temperature of 55°C keeps to -20°C outdoor temperature without additional heater. * If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation Wide Operation Range

Improved operation range down to -20°C outdoor temperature

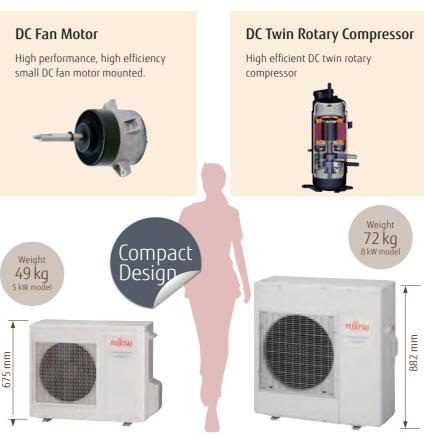
High COP 4.50 (8 kW model)

High Leaving

Water Temperature

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

Outdoor unit technology





High Performance

Smart installation Hydraulic Indoor Unit



- back up heater, each with 3kW capacity

- New generation controller. Connection by Modbus protocol possible.
- Heat metering included

DC Inverter

Smooth water temperature control realized by DC inverter control.



High Efficient Plate Heat Exchanger

Very compact size achieved by a thin high-efficiency heat exchanger



SYSTEM CONFIGURATION & OPTIONAL PARTS

Control System Configuration Optional Parts

34



Control

36

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

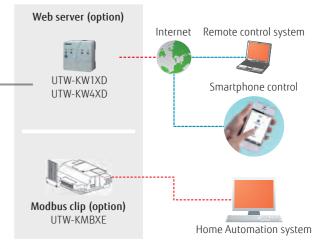
Individual Controller





Adaptor for external device

Solar connection



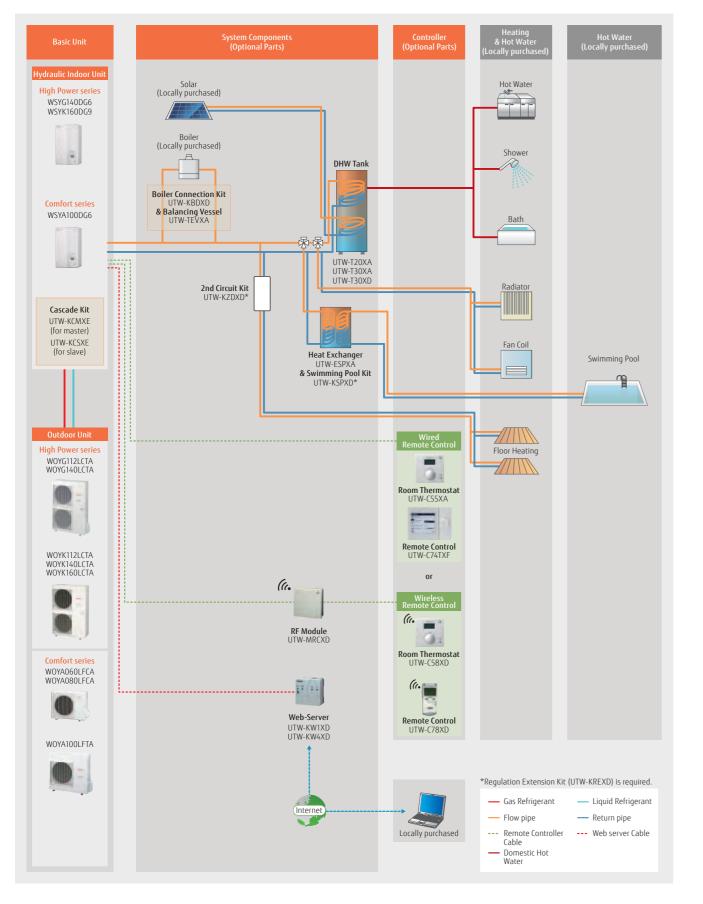
Service & Maintenance Tool Web server (option) LPB clip (option)



e

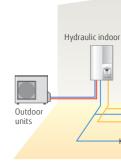
- *2: UTW-KW1XD or UTW-KW4XD is required for the connection.
- *3: UTW-KL1XD is required for the connection





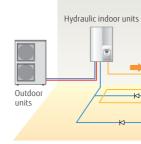
System Configuration

System Case Studies

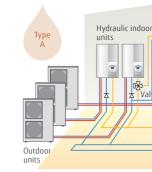


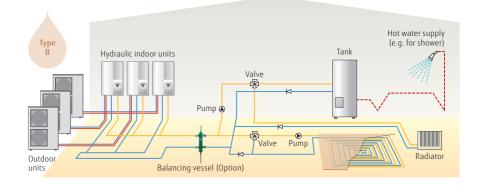
Boiler connected to heating (Boiler + Heating)

2 emitter simultaneous heating (Individual control)



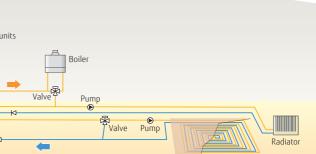
2 emitter simultaneous heating & Domestic Hot Water (Cascade)

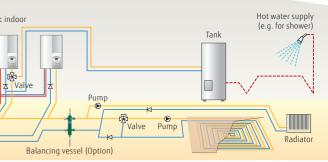




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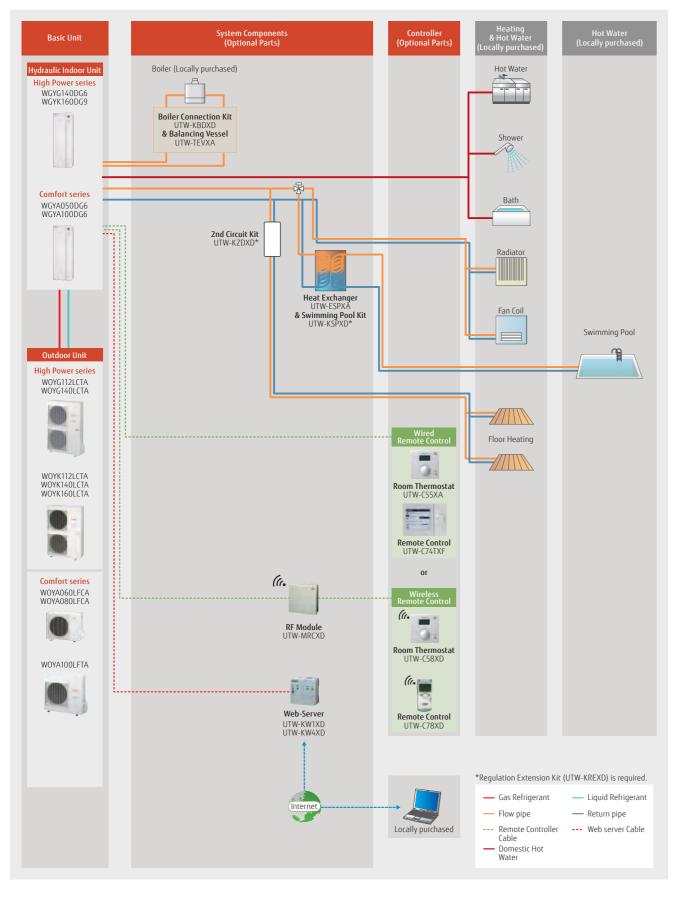
units					
	Pump				
	Pump				
	0	_			 (
		- 图	Pump		
		Valve	Pump		
					Radiator
				I III I	





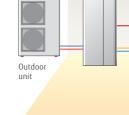


System Configuration



System Case Studies



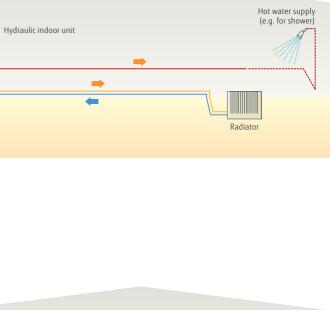


2 emiter simultaneous heating (Individual control) & Domestic Hot Water



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

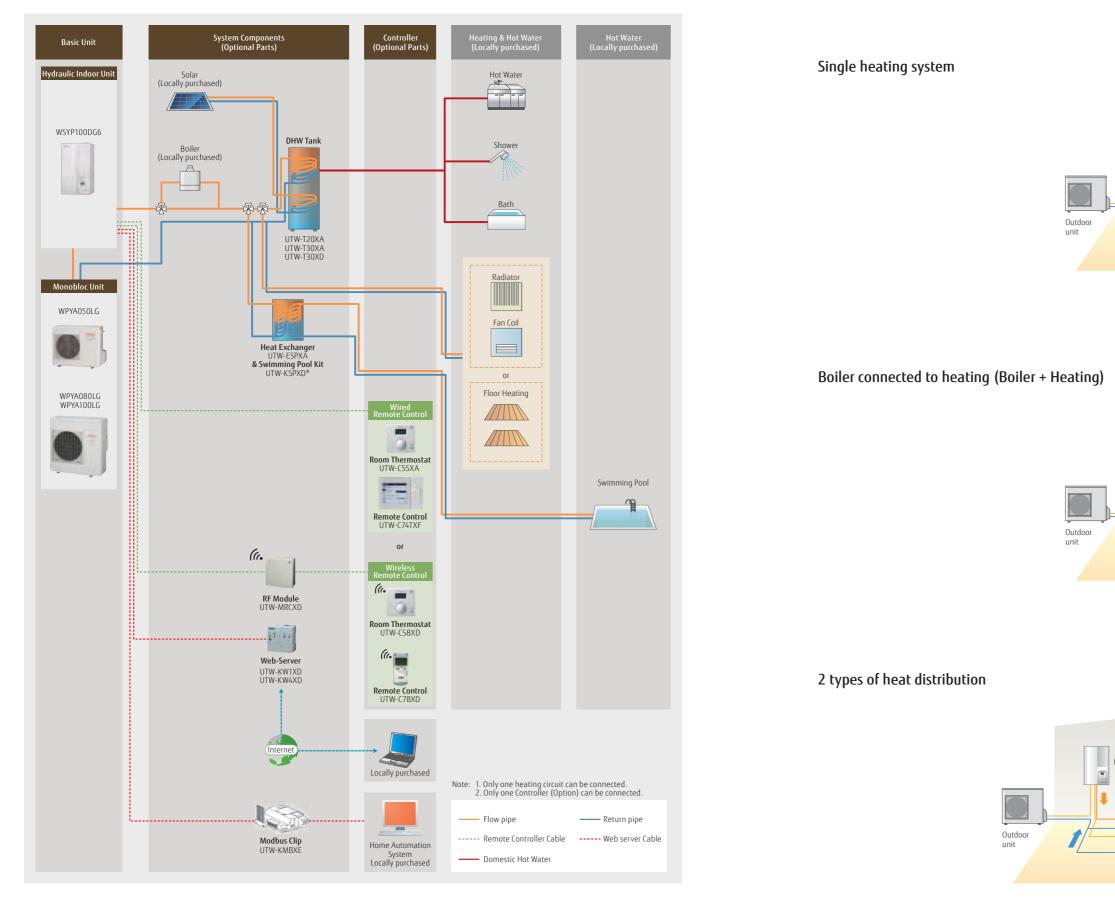




draulic indoor unit		Hot water supply (e.g. for shower)
←	+ + Floor heating	Radiator

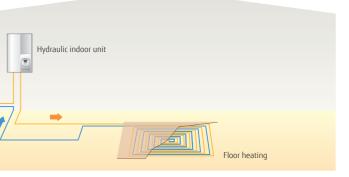
Boiler	Hot water supply (e.g. for shower)
	Radiator Floor heating

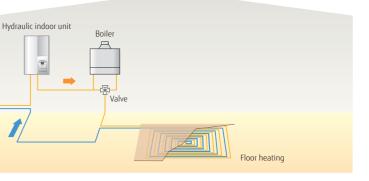


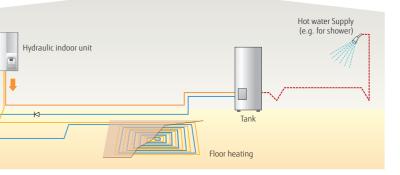


System Configuration

System Case Studies









OPTIONAL PARTS

Optional parts compatibility for system

						Sp	lit						Split	DHW	integ	rated	d type	e		М	onob	loc
Product Name	Model Name		Hig	gh Po	wer			Соп	nfort				gh Po	wer		Comfort				0	ompa	ct
		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
2nd	UTW-KZSXE	•	•	•	•	•	•	•	•	•	_	-	_	_	_	_	-	-	-	_	-	-
Circuit Kit	UTW-KZDXE	_	_	_	_	_	_	_	_	_	•	•	•	•	•	•	•	•	•	_	-	_
Boiler	UTW-KBSXD	•	•	•	•	•	•	•	•	•	_	-	_	_	_	_	_	_	_	_	-	_
Connection kit	UTW-KBDXD	_	_	_	_	_	_	_	_	_	•	•	•	•	•	•	•	•	•	_	-	_
Balancing vessel	UTW-TEVXA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DHW kit	UTW-KDWXG (Internal)	-	_	_	_	_	_	_	_	_	-	-	_	-	_	-	-	_	-	•	•	•
	UTW-KDWXD (External)	•	•	•	•	•	•	•	•	•	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	•	•	•
200 Liter 300 Liter DHW tank	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	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		•	•	•	•	•	_	_	_	_	•	•	•	•	•	_	_	_	_	_	_	_
Drain Pan	UTW-KDPXA	_	_	_	_	_	•	•	•	_	_	_	_	_	_	_	_	_	_	_	_	_
Cascade Master Kit (incl. LPB Clip)		•	•	•	•	•	_	_	_	•	_	-	_	_	_	_	_	_	_	-	_	_
Cascade Slave Kit (incl. LPB Clip)	UTW-KCSXE	•	•	•	•	•	_	_	_	•	-	-	_	_	_	_	_	_	-	-	-	_

Optional parts compatibility for control



*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

*4: Eastern European Language(English, Czech Republic, Slovakia, Poland, Turkey, Hungary, Russia, Slovenia, Greece, Serbia) *5: UTW-KL1XD is required for the connection. C74TXF: Built in Room Temperature sensor C74HXF: Built in Room temperature and Humid-

itv sensor

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

*7: Additional optional part necessary

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	t					9	Split I	DHW	integ	rateo	l type	2		Mo	onob	loc
5 6 8 10 11 14 16 5 6 8 10 5 8 10 •		Corr	nfort			Hig	jh Po	wer			Corr	ıfort		Co	ompa	ct
• •		1	Ø		1	Ø		3Ø			1	Ø			1Ø	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5	6	8	10	11	14	11	14	16	5	6	8	10	5	8	10
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	_*7	_*7	_*7	_*7	_*7	_*7	_*7	_*7	_*7	_*7	_*7	_*7	_*7	•	•	•
	-	-	_	_	-	-	-	-	-	-	-	-	-	-	•	•
	-	_	_	_	_	_	_	_	_	_	_	_	_	•	_	_
•*6 *	*5	•*5	•*5	•*5	•*5	•*5	•*5	•*5	•*5	•*5	•*5	•*5	•*5	•*5	•*5	•*5
	*6	•*6	•*6	•*6	● ^{*6}	•*6	•*6	•*6	•*6	•*6	•*6	•*6	•*6	●* ⁶	● ^{*6}	● ^{*6}
	_	_	_	_	•	•	•	•	•	_	_	_	_	_	_	_

OTHERS

Simple Installation & Maintenance Installation Information Specifications & Dimensions Model Selection Software

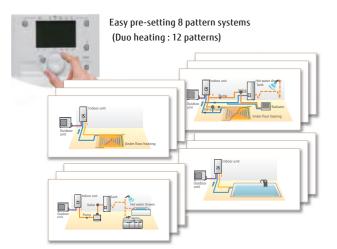


SIMPLE INSTALLATION & MAINTENANCE

Simplified installation

Pre-setting configurations

When installed, the controller makes it simple to set system settings without having to individually set the system's components and units.

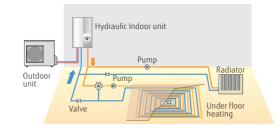


Configurstion (Parameter 5700)	Type of installation
Pre setting 1	1 heating circuit
Pre setting 2	2 heating circuit
Pre setting 3	1 heating circuit & boiler backup
Pre setting 4	2 heating circuit & boiler backup
Pre setting 5	1/2 heating circuit & buffer control
Pre setting 6	1/2 heating circuit & buffer control & boiler backup
Pre setting 7	cascade connection Master
Pre setting 8	cascade connection A
Pre setting 9	cascade connection B/C
• DHW & solar control	auto detection

• pool heating & cooling optional

Outdoor temperature simulation

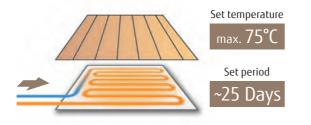
It can be checked whether each unit operates correctly under the set conditions and expected outdoor temperatures when the system is actually assembled.



Outdoor temperatures in the range from -50°C to +50°C can be simulated.

Floor drying

When floor heating is installed, it can be used to dry the concrete surrounding the hot water piping more quickly to shorten the construction period.

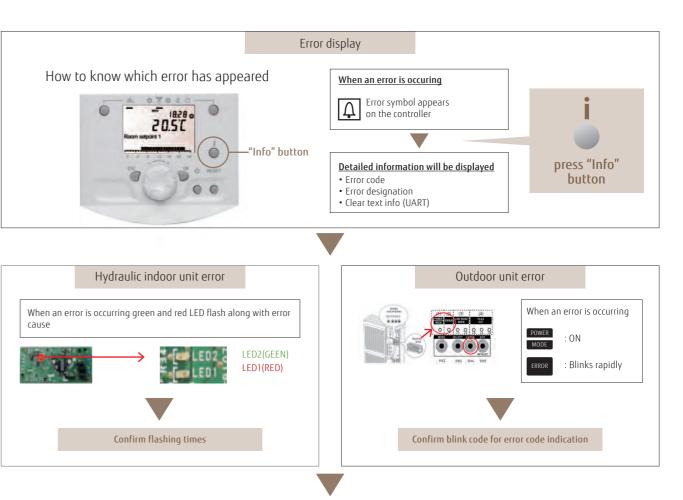


Easy Installation & Maintenance

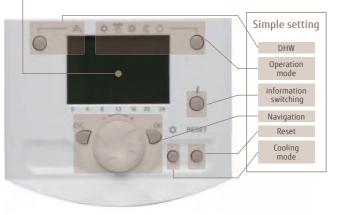
- All hydraulic safety & controlling components built in, no additional selection required
- Lifting bars for an installation without any difficulty or risk
- Easy access for maintenance operations
- No installation of refrigerant circuit connections (Only Monobloc)
- Refrigerant pump down operation

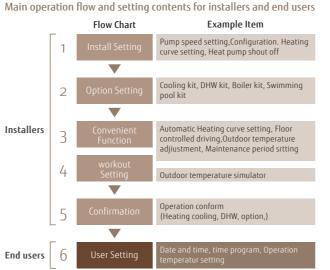
Maintenance Support

Diagnotics function for trouble shooting



Large display Display of all segments operation mode indicate Flow Chart •Clock •Temperature •DHW •Massage •Service/maintenance •Timer menu

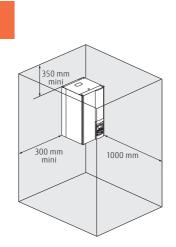






Check the error code table

INSTALLATION INFORMATION



Hydraulic indoor unit

- Hydraulic unit is to be hang on the wall
- Weight < 60kg (including water)

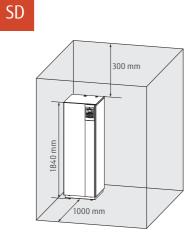
outdoor unit and the hydraulic

Power supply cable

unit Phase, Neutral, Earth,

Communication bus cable

• Distances for maintenance should be respected



Hydraulic indoor unit

- Floor stand
- Weight: 152 kg (without water)
- Distances for maintenance should be respected.

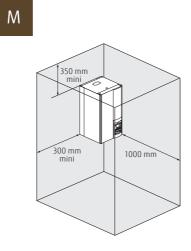
Power supply cable to the

electrical back-ups cable

Electric panel

DHW power supply

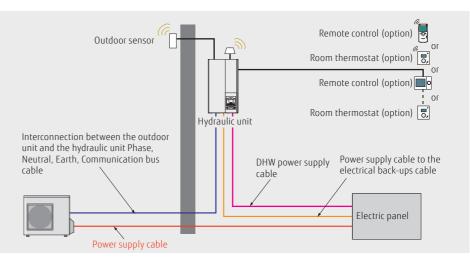
cable

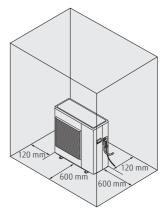


Hydraulic indoor unit

- Hydraulic unit is to be hang on the wall
- Weight < 60kg (including water)
- Distances for maintenance should be respected

Electrical Wiring Remote control (option) Outdoor sensor Room thermostat (option) Remote control (option) 🔲 • 10 Room thermostat (option) 📑 lydra lic unit Interconnection between the outdoor unit and the hydraulic unit Phase, Neutral, Earth, Communication bus Power supply cable to the electrical back-ups cable cable DHW power supply cable Electric panel Power supply cable SD Remote control (option) Outdoor sensor Room thermostat (option) Remote control (option) i or Room thermostat (option) Interconnection between the





Outdoor unit

- Floor stand
- Weight < 71 kg (without water)
- Distances for maintenance should be kept

Electrical Wiring

SPECIFICATIONS & DIMENSIONS Split type

Specifications (High Power series)

Model Name		WSYG1	40DG6	WSYG1	40DG6	WSYK1	60DG9	WSYK1	60DG9	WSYK1	60DG9					
Outdoor unit				WOYG1	12LCTA	WOYG1	WOYG140LCTA		12LCTA	WOYK1	40LCTA	WOYK160LCTA				
Capacity range				1	1	1	4	11		1	4	16				
. , ,		Heating capacity	1.111	10	.80	13	.50	10.80		13.50		15.17				
7°C/35°C floor heating *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 heating *1		Input power	kW	3.44		3.87		3.	3.40		4.15		4.34			
···· ,		COP		3.	13	3.	10	3.	17	3.	13	3.	11			
		Heating capacity		10.80		12	.00	10	.80	13.	.00	13	.50			
-7°C/35°C floor heating*1		Input power	kW	4.	32	5.	08	4.	28	5.	18	5.	40			
· · · · · · · · · · · · · · · · · · ·		COP		2.	50	2.	36	2.	52	2.	51	2.	50			
Space heating characteristics*2								1	-		-	1				
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 _{ored})			kW	9	11	11	13	9	11	11	13	13	14			
Seasonal space heating er	nergy efficiency(n ,)		%	109	151	113	148	112	154	117	150	117	149			
Annual energy consumption			kWh	6842	6062	8041	6824	6669	5930	7803	6738	9062	7408			
Hydraulic indoor unit			4	6	4	6	4	6	4	6	4	6				
ound power level	Und power level Outdoor unit		dB(A)		8	69		69 68		70	68	7	1			
Hydraulic unit Specificatio					-		-									
Power source					1Ø230	V 50 Hz				3 N 400	V 50 Hz					
		mm					800 × 4	50 × 457								
Weight (Net)			kg	42												
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 capacity			L					1	6			1				
Expansion vessel capacity			L					1	3							
Leaving water temperatur		Max	°C					6	0							
Nater pipe connection dia		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 specification	1							1		010 (0101						
Power source			- 1		1 Ø 230	V 50 Hz				3 N 400	V 50 Hz					
Current		Max	A	2	2.0		5.0	8	.5		.5	10	0.5			
Dimensions H × W × D			mm						900 ×330							
Weight (Net)			kg		q	2		.,		9	9					
								R4	10A	5	-					
frigerant (Global warming potential)			kg						50							
									0							
Refrigerant amount	rde amount								.52							
Refrigerant amount		Liauid				Ø 15.88										
Refrigerant amount	rge amount Diameter	Liquid	mm					Ø 1	5.88							
Refrigerant amount Additional refrigerant chai	Diameter	Gas	mm													
Refrigerant amount Additional refrigerant chai	Diameter Length		mm m					5/	20							
Refrigerant (Global warmi Refrigerant amount Additional refrigerant char Connection pipe	Diameter	Gas	mm					5/								

Specifications (Comfort series)

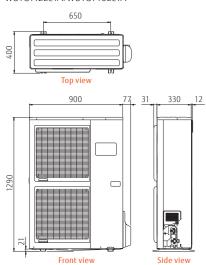
Model Name Hydraulic indoor un Outdoor unit					WSYA1	00DG6	WSYA	00DG6	WSYA100DG6							
					WOYA060LFCA		WOYA080LFCA		WOYA100LFTA							
Capacity range	nge			5		6		8		10						
7°C/35°C floor heating *1		Heating capacity	kW	4.50		6.00		7.50		10.00						
		Input power		0.996		1.41		1.84		2.49						
		COP		4.	52	4.27		4.08		4.02						
		Heating capacity	kW	4.	50	4.95		5.65		7.70						
2°C/35°C floor heating *1		Input power	KW	1.39		1.53 3.24		1.78 3.17		2.47 3.12						
		COP	3.24													
		Heating capacity	LAN	4.10		4.60		5.70		7.40						
-7°C/35°C floor heating*1		Input power	kW	1.47		1.74		2.23		2.97						
2		COP		2.	79	2.	64	2.56		2.49						
Space heating characteristi	CS*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 en	ergy efficiency(ŋ _s)		%	115	169	115	169	118	156	113	155					
Annual energy consumptio			kWh	3026	2160	3180	2505	3886	3375	5415	441					
27	Hydraulic ir	ndoor unit	10/11	46		4	6		6	46						
Sound power level	Outdoo		dB(A)	65	60	65	63	65	69	68	69					
Hydraulic unit Specificatior																
Power source							1Ø230	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 18.1/3			/36.1					
Buffer tank capacity			L	16												
Expansion vessel capacity			L	8												
		°C	55													
	range	Max	-0				3	0 25.4/0 25.4								
Leaving water temperature		Max Flow/Return	mm				-	-								
Leaving water temperature Water pipe connection diar		Flow/Return					Ø 25.4	/Ø 25.4								
Leaving water temperature Water pipe connection dian Backup heater		-	mm				-	/Ø 25.4								
Leaving water temperature Water pipe connection diar Backup heater Outdoor unit specification		Flow/Return	mm				Ø 25.4 6.0(3.0k	/Ø 25.4 W×2pcs.)								
Leaving water temperature Water pipe connection diar Backup heater Outdoor unit specification Power source		Flow/Return Capacity	mm kW	1	0	1	Ø 25.4 6.0(3.0k 1 Ø 230	/Ø 25.4 W×2pcs.) V 50 Hz	7 5	18	5					
Leaving water temperature Water pipe connection diar Backup heater Outdoor unit specification Power source Current		Flow/Return	mm kW A	11	1.0		Ø 25.4 6.0(3.0k 1 Ø 230 2.5	/Ø 25.4 W×2pcs.) V 50 Hz	7.5	18 830 × 90	3.5 00 × 330					
Leaving water temperature Water pipe connection diar Backup heater Outdoor unit specification Power source Current Dimensions H × W × D		Flow/Return Capacity	mm kW A mm	1	1.0	620 × 7	Ø 25.4 6.0(3.0k 1 Ø 230	/Ø 25.4 W×2pcs.) V 50 Hz 1	7.5	830 × 90						
Leaving water temperature Water pipe connection diar Backup heater Outdoor unit specification Power source Current Dimensions H × W × D Weight (Net)	neter	Flow/Return Capacity	mm kW A	11		620 × 7	Ø 25.4 6.0(3.0k 1 Ø 230 2.5 90 ×290	00 25.4 W×2pcs.) V 50 Hz 1		830 × 90	00 × 330					
Leaving water temperature Water pipe connection diar Backup heater Dutdoor unit specification Power source Current Dimensions H × W × D Weight (Net) Refrigerant (Global warmin	neter	Flow/Return Capacity	mm kW A mm kg	11	4	620 × 7 1	Ø 25.4 6.0(3.0k 1 Ø 230 2.5 90 ×290	00 25.4 W×2pcs.) V 50 Hz 10A	-2	830 × 90	00 × 330					
eaving water temperature Nater pipe connection diar 3ackup heater Jutdoor unit specification Power source Current Dimensions H × W × D Neight (Net) Refrigerant (Global warmin Refrigerant amount	g potential)	Flow/Return Capacity	mm kW A mm kg kg	11		620 × 7 1 10	Ø 25.4 6.0(3.0k 1 Ø 230 2.5 90 ×290 R4	00 25.4 W×2pcs.) V 50 Hz 10A		830 × 90 61	00 × 330 0 80					
Leaving water temperature Water pipe connection diar Backup heater Dutdoor unit specification Power source Current Dimensions H × W × D Weight (Net) Refrigerant (Global warmin Refrigerant amount	g potential) e amount	Flow/Return Capacity Max	mm kW A mm kg kg g/m	11	4	620 × 7 1 10 2	Ø 25.4 6.0(3.0k 1 Ø 230 2.5 90 ×290 R4	00 25.4 W×2pcs.) V 50 Hz 10A	-2	830 × 90 61 1.8	00 × 330 0 80 0					
Leaving water temperature Water pipe connection diar Backup heater Dutdoor unit specification Power source Current Dimensions H × W × D Weight (Net) Refrigerant (Global warmin Refrigerant amount	g potential)	Flow/Return Capacity Max	mm kW A mm kg kg	11	4	620 × 7 1 10 Ø 6	Ø 25.4 6.0(3.0k 1 Ø 230 2.5 90 ×290 R4	00 25.4 W×2pcs.) V 50 Hz 10A	40	830 × 90 61 1.8 41 Ø 9	00 × 330 0 80 0					
Leaving water temperature Water pipe connection diar Backup heater Outdoor unit specification Power source Current Dimensions H × W × D Weight (Net) Refrigerant (Global warmin Refrigerant amount Additional refrigerant charg	g potential) e amount Diameter	Flow/Return Capacity Max	mm kW A mm kg g/m mm	11	4	620 × 7 1 10 Ø 6	Ø 25.4 6.0(3.0k 1 Ø 230 2.5 90 ×290 R4 25 35	/0 25.4 W×2pcs.) V 50 Hz 1 10A 10A	40	830 × 90 61 1.8	00 × 330 0 80 0					
Leaving water temperature Water pipe connection diar Backup heater Outdoor unit specification Power source Current Dimensions H × W × D	g potential) e amount Diameter Length	Flow/Return Capacity Max	mm kW A Mm kg g/m mm m	1	4	620 × 7 1 10 Ø 6	Ø 25.4 6.0(3.0k 1 Ø 230 2.5 90 ×290 R4 25 5.35 5/	/0 25.4 W×2pcs.) V 50 Hz 10A 10A 10A 30	40	830 × 90 61 1.8 41 Ø 9	00 × 330 0 80 0					
Leaving water temperature Water pipe connection diar Backup heater Outdoor unit specification Power source Current Dimensions H × W × D Weight (Net) Refrigerant (Global warmin Refrigerant amount Additional refrigerant charg	g potential) e amount Diameter	Flow/Return Capacity Max	mm kW A mm kg g/m mm	11	4	620 × 7 1 10 Ø 6	0 25.4 6.0(3.0k 1 0 230 2.5 90 ×290 R4 25 3.35 5/ 1	/0 25.4 W×2pcs.) V 50 Hz 1 10A 10A	40	830 × 90 61 1.8 41 Ø 9	00 × 330 0 80 0					

*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/prod-ucts/erp-ecodesign/index.html.

Dimensions (High Power series)

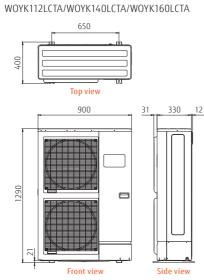
Outdoor Unit



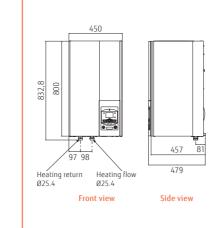


Outdoor Unit





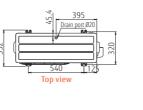
Hydraulic Indoor Unit WSYG140DG6/WSYK160DG9

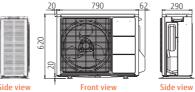


Dimensions (Comfort series)

Outdoor Unit WOYA060LFCA/WOYA080LFCA



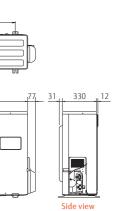


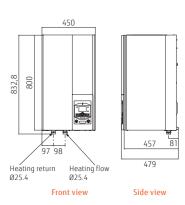


Top view 900 08 Front view

Hydraulic Indoor Unit

WSYA050DG6/WSYA100DG6







SPECIFICATIONS & DIMENSIONS Split DHW Integrated type

Specifications (High Power series)

Model Name Outdoor unit		Hydraulic indoor unit		WGYG1	40DG6	WGYG1	40DG6	WGYK1	60DG9	WGYK160DG9		WGYK160DG9		
			WOYG112LCTA		WOYG140LCTA		WOYK112LCTA		WOYK140LCTA		WOYK160LCTA			
Capacity range			l	1	1	1	4	1	1	1	4	1	6	
apperly range		Heating capacity			.80		.50		.80		.50	15		
7°C/35°C floor heating *1		Input power	kW	2.		3.23		2.51		3.20		3.70		
		COP		4.			18	4.30		4.22		4.10		
		Heating capacity			.77		12.00		10.77		13.00		13.50	
2°C/35°C floor heating *1		Input power	kW	3.		3.87		3.40		4.15		4.34		
2 C/35 C floor heating "		COP		3.		3.10		3.17		3.13		3.11		
		Heating capacity		10.90		12.00		10.80		13.00		13.50		
-7°C/35°C floor heating*1		Input power	kW	4.		5.08		4.28		5.18		5.40		
		COP			50	2.36		2.52		2.51		2.50		
Space heating characteristics	s*2	1001		۷.	50	2.	50	Z.	JZ	2.		£.	50	
femperature application	5		°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(Port)			kW	9	11	11	13	9	11	11	13	13	14	
Seasonal space heating energy	ray officiancy (n)		%	109	151	113	148	112	154	117	150	117	14	
	31 1.13				-		-							
Annual energy consumption			kWh	6842	6062	8041	6824	6669	5930	7803	6738	9062	7408	
Annual energy consumption	/	indoor unit	dB (A)	46			6		6		6	4		
27	Outdo	oor unit	GD (A)	6	8	6	9	69	68	70	68	7	1	
Domestic hot water characte	ristics*2							<u></u>						
_oad profile									L					
Energy efficiency class									Ą					
Energy efficiency (η_{wb})			%					8	8					
Annual electricity consumpti	ON		kWh					11	66					
Hydraulic indoor unit Specifi	cation													
Power source					1Ø230) V 50 Hz				3 N 400	V 50 Hz			
	Dimensions H×W×D n		mm	1,840× 648 × 698										
Weight (Net)			kg	152										
Nater circulation		Min/Max	L/min	19.5/39.0 24.4/28.7			/28.7	19.5/39.0 24.4/48.7			27.4	/54.8		
DHW capacity			L					1	90					
lot water heater capacity			kW						.5					
Expansion vessel capacity			L						2					
eaving water temperature r		Max	°C						0					
Vater pipe connection diame		Flow/Return	mm	0 25.4/0 25.4										
Hot water pipe connection di	iameter		mm					Ø 1	9.05					
Backup heater		Capacity	mm	6.0(3.0kW×2pcs.) 9.0(3.0kW×3pcs.)										
Outdoor unit specification														
Power source) V 50 Hz) V 50 Hz			
lurrent		Max	A	22	2.0	25	i.0		.5	9	1.5	10).5	
)imensions H × W × D			mm					1,290 × 9	900 ×330					
Veight (Net)			kg		ç	92				0	99			
Refrigerant (Global warming	potential)								10A					
Refrigerant amount kg			kg						50					
Additional refrigerant charge amount g/m			g/m	50										
	Diameter	Liquid	mm					ØS	.52					
	Diameter	Gas						Ø 1	5.88					
Connection pipe	Length	Min/Max	m						20					
	Length(Pre-charge)		m					1	5					
	Lengen(i ie enorge)			15										
	Height difference	Max	m					1	5					

Specifications (Comfort series)

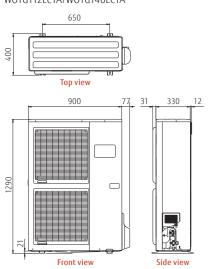
Hydraulic indoor u	init	WGYA05	50DG6	WGYA100DG6		WGYA100DG6 WOYA080LFCA		WGYA100DG6			
odel Name Outdoor unit		WOYA06	60LFCA	WOYA)60LFCA			WOYA1	00LFTA		
		5			6		8	1	0		
Capacity range Heating capacity		4.50 6.00				7.50		10.00			
Input power	kW	0.99	96	1	1.41		1.84		2.49		
COP		4.5		4	.27	4.08		4.02			
Heating capacity		4.50		4.95		5.65		7.70			
Input power	kW	1.3		1.53			78	2.47			
COP		3.2	4	3	.24	3.17		3.	12		
Heating capacity	1.11	4.1	0	4.60		5.70		7.40			
Input power	kW	1.4	7	1.74		2.23		2.97			
COP	·	2.79		2.64		2.	56	2.49			
	°C	55	35	55	35	55	35	55	35		
	· · · · · ·	A+	A++	A+	A++	A+	A++	A+	A++		
	kW	4	4	5	5	6	7	8	8		
	%	115	169	115	169	118	156	113	155		
	kWh	3026	2160	3180	2505	3886	3375	5415	441		
indoor unit		46			46		6		6		
or unit	dB (A)	65	60	65	63	65	69	68	69		
UT UTIL		05	00	0.5	05	00	09	00	09		
						1					
					1	4					
	%	A+ 120									
	kWh	880									
					1 Ø 230	V 50 Hz					
	mm	1,840× 648 × 698									
	kg	152									
Min/Max	L/min	8.1/1	6.2	10.8	3/21.7		/27.1	18.1	/36.1		
	L		1	90				90			
	kW		1	.5			1	.5			
	L	12 12									
Max	°C					5					
Flow/Return	mm					/Ø 25.4					
	mm	Ø 19.05									
Capacity	mm	6.0(3.0kW×2pcs.)									
						V 50 Hz					
Max	A	11.	.0		2.5	1	7.5		3.5		
	mm kg			620 × 790 ×290					00 × 330		
Weight (Net) Refrigerant (Global warming potential)		41 42 90							10		
	I				R4	10A					
	kg		1.	10		1.	40		80		
	g/m				25				0		
Liquid	mm				6.35				9.52		
Gas			Ø 1.	2.70			Ø 1	5.88			
Min/Max	m					30					
11.											
	Max Heating	Max m	m Max m	m Max m	Max m	m 1 Max m 2	m 15 Max m 20	m 15 Max m 20	m 15 Max m 20		

*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/prod-ucts/erp-ecodesign/index.html.

Dimensions (High Power series)

Outdoor Unit

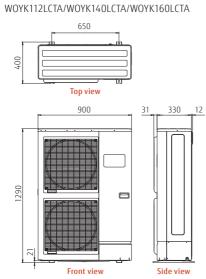
WOYG112LCTA/WOYG140LCTA



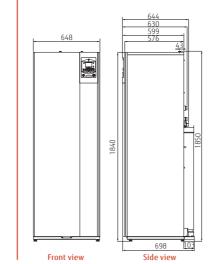
Outdoor Unit

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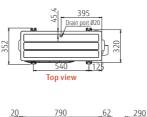
Hydraulic Indoor Unit WGYG140DG6/WGYK160DG9

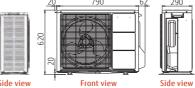


Dimensions (Comfort series)

Outdoor Unit WOYA060LFCA/WOYA080LFCA



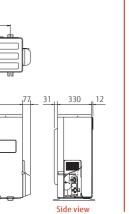


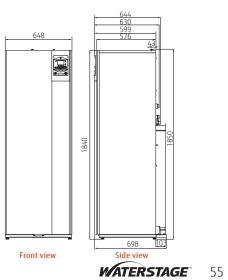


Top view 900 Front view

Hydraulic Indoor Unit

WGYG140DG6/WGYK160DG9





SPECIFICATIONS & DIMENSIONS Monobloc type

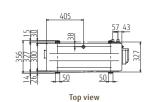
Specifications

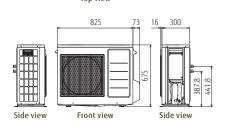
	Hydraulic indoor	unit	WSYP100DG6								
Model Name	Outdoor unit		WPYA050LG		WPYA	080LG	WPYA100LG				
Capacity range		-	5		8	10					
	Heating capacity	kW	5.	00	8.	00	10.00				
7°C/35°C floor heating *1	Input power		1.	19	1.78		2.30				
	COP	·	4.	20	4.	50	4.35				
	Heating capacity	kW	3.65		4.35		4.90				
2°C/35°C floor heating *1	Input power	1 ^{KVV}	1.07		1.23		1.44				
	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		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 efficiency(n	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		6	65		8			
Hydraulic 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					1Ø230	V 50 Hz					
Dimensions H × W × D		mm	675 × 82	50 × 330							
Weight (Net)	/eight (Net) kg		49			7					
Current	Max	A).9	1	5.2	17.5				
Water circulation	Min/Max	L/min		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					R4	10A					
Refrigerant amount		kg	1.	05			72				
Leaving water temperature range	Max	°C				i5					
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/prod-ucts/erp-ecodesign/index.html.

Dimensions

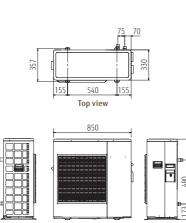
Outdoor Unit WPYA050LG





Outdoor Unit WPYA080LG/WPYA100LG

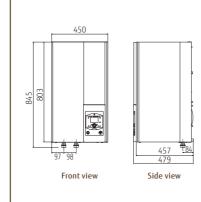
Side view



Front view

Side view

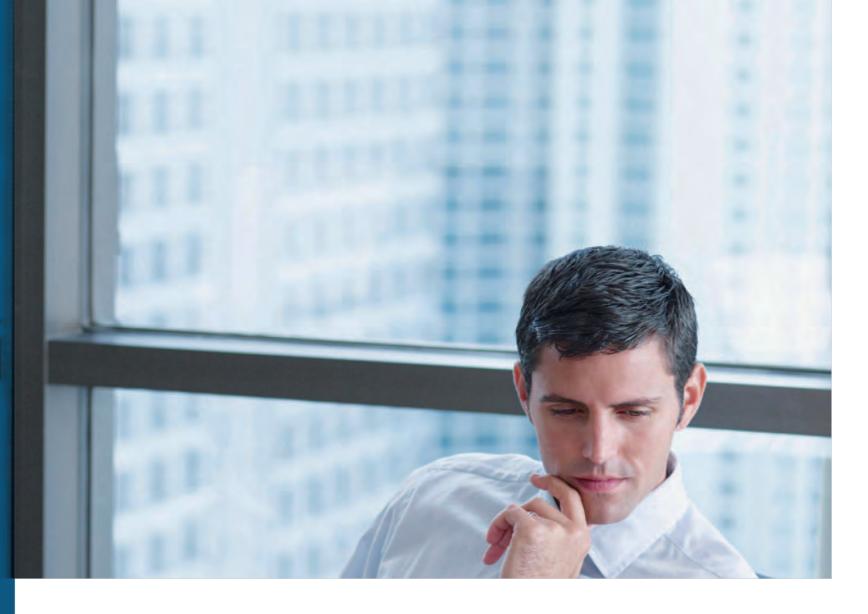
Hydraulic indoor Unit WSYP100DG6





MODEL SELECTION SOFTWARE

Fujitsu General's new software for the WATERSTAGE automatically provides a combination of WATERSTAGE equipments just by giving few parameters. The software is featured with multiple languages, and automatic update function.



The entire system configuration can be reviewed and modified once the units are selected. And by seeing the images and the list of equipments at the same time, it avoids mistake in the selection of equipments.

1-11-1-1	
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- The visible images of the optional items enables the correct configuration of the systems.
- All of the associated optional items are automatically chosen in a case the application requires several devices of the WATERSTAGE equipments.



Estimate function

The software automatically provides the cost estimate of the entire WATERSTAGE system, not only the equipment itself but also the optional items.

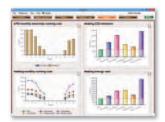


Model selection with detailed technical information

- The software automatically selects the equipments just by inputting some factors, like the region where the equipment is installed, required capacity to heat up the space, and a heating method.
- The transition in the equipment capacity at each outdoor temperature condition and/or when back up heater is under operation can be easily created by this software.



The software automatically provides graphs of monthly running cost, CO2 emission volume, cost comparison against other heating sources, and other data to allow the users to see at a glance the financial benefit of choosing WATERSTAGE equipments.



Creating project files for customers

Various kinds of documents such as an equipment list, a system diagram, a cost estimate table, and an equipment CAD data can be printed out to paper or output into the files. This function also comes with a feature which allows you to change the template design of the documents.

Software updates

The database can be automatically updated through $\ensuremath{\mathsf{FTP}}$ by automatic update function.

Room Heating **Domestic Hot Water** Swimming Pool Cooling and much more ...



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