



SPLIT TYPE & MONOBLOC TYPE

High Power model

Comfort model

Compact model



WATERSTAGE™

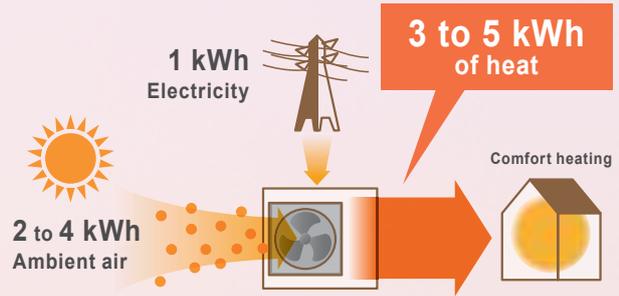
Fujitsu General ***WATERSTAGE™*** realizes considerable energy saving operations by the Heat pump heating system using the ambient air energy



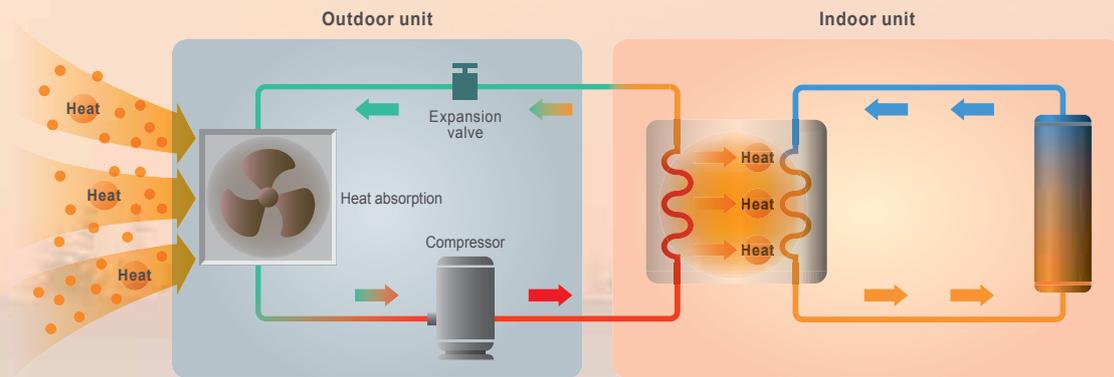
Environmentally friendly water heating system
 applying heat pump technology that collects heat from the outdoor air

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.



Heat Pump system framework



**PRIMARY ENERGY USAGE
 REDUCED DRASTICALLY !**

Proportion of primary energy into heating energy of 100%



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

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



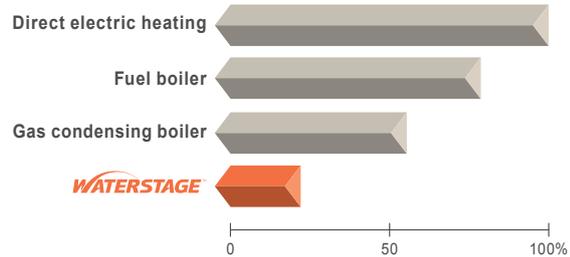
Advantages of **WATERSTAGE™**

LESS CO₂ EMISSIONS

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

Advantages

Average annual CO₂ emissions



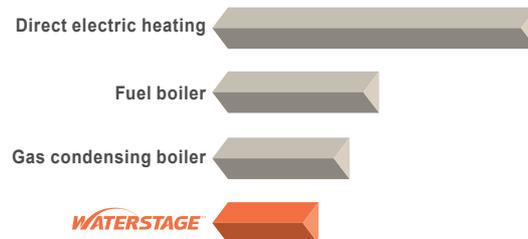
Calculations based on data provided by European Program-2001 for EU27 Fuel boiler efficiency: 89%, Gas boiler efficiency: 93%

LOW RUNNING COST

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

Advantages

Average annual running cost



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

CLEAN AND HEALTHY

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

Advantages



Clean Air Conditioning



EASY INSTALLATION AND MAINTENANCE

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



Advantages

Well structured Hydraulic unit.

Sophisticated arrangement of hydraulic units, allows easy piping and maintenance

No chimney sweep

No pollution

Low maintenance cost

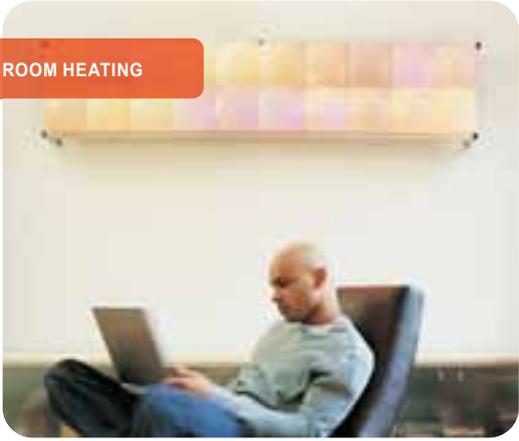
Complete Solution meets various needs

Wide Comfort

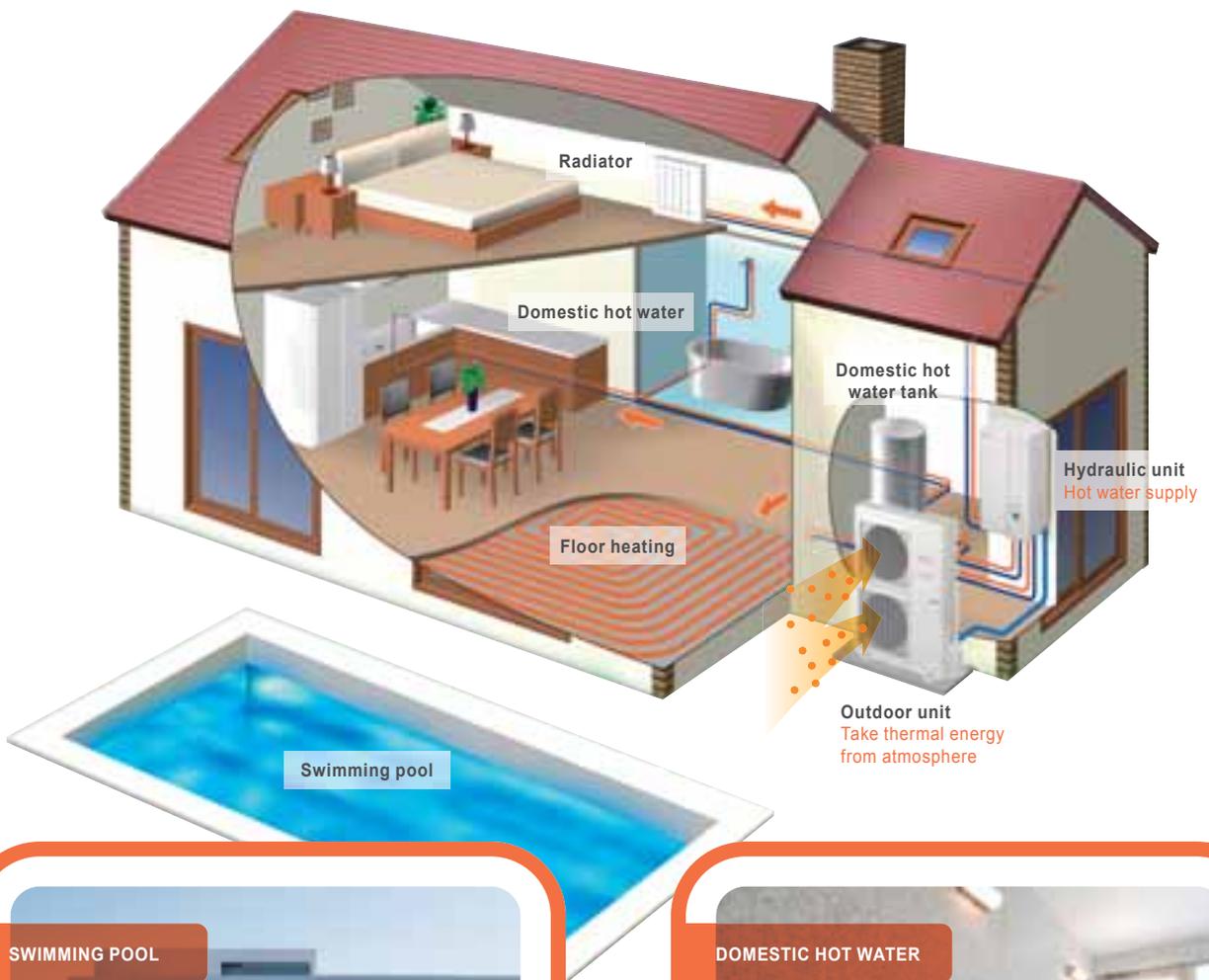
The clean energy produced by **WATERSTAGE** reliably delivers “comfort” to all spaces in the home up to the living room, bedrooms, bath and swimming pool.

FLOOR HEATING

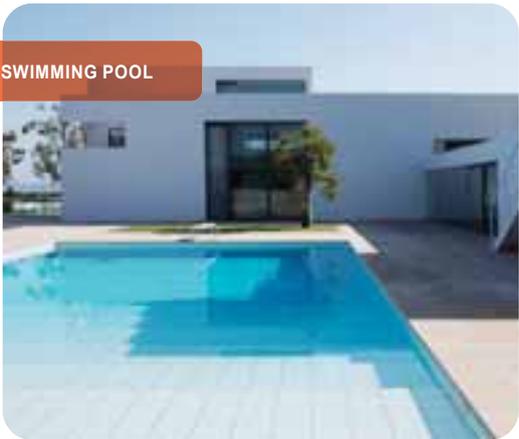
ROOM HEATING



COOLING



SWIMMING POOL



DOMESTIC HOT WATER



Product lineup for various needs



SPLIT TYPE

The heat transfer from outdoor unit to hydraulic system using refrigerant, freezing impossible. The heat emitter system can be freely chosen.



MONOBLOC TYPE

Only hot water piping installation. Space saving, easy installation and maintenance. No hydraulic unit inside.

Type

Series

Features

Power source

Capacity range

5 kW

6 kW

8 kW

10 kW

11 kW

13 kW

14 kW

16 kW

SPLIT TYPE		MONOBLOC TYPE	
High power series	Comfort series	Compact series	
<p>Usable outdoor temperature: -25°C</p> <p>Full-range heating type</p> <p>NEW</p> <p>Hydraulic unit </p> <hr/> <p>NEW NEW</p> <p>Outdoor unit </p> <p>Capacity range : 11 / 14 kW 11 / 14 / 16 kW</p>	<p>Usable outdoor temperature: -15°C</p> <p>Standard type</p> <p>Hydraulic unit </p> <hr/> <p>Outdoor unit </p> <p>5 / 6 kW 8 kW 10 / 13 / 16 kW</p>	<p>Usable outdoor temperature: -20°C</p> <p>Space saving type</p> <p>Control box </p> <hr/> <p>Monobloc unit </p> <p>8 / 10 kW</p>	
<ul style="list-style-type: none"> • 60°C hot water supply even at -20°C outdoor temperature • Powerful heating capacity supplied even at low outdoor temperature • Different heating system can be used. Like floor heating, radiators and others* • Heating and DHW in one system.* • Outdoor low noise function* • Energy saving peak cut function* • Additional electric heater for backup provided • Up to two independent control circuits* 		<ul style="list-style-type: none"> • 50°C hot water supply even at -15°C outdoor temperature • Floor heating and radiators can be used together. • Heating and DHW in one system.* • Additional electric heater for backup provided • Up to two independent control circuits* 	
1Ø 230V / 50Hz	3Ø 400V / 50Hz	1Ø 230V / 50Hz	1Ø 230V / 50Hz
		■	
		■	
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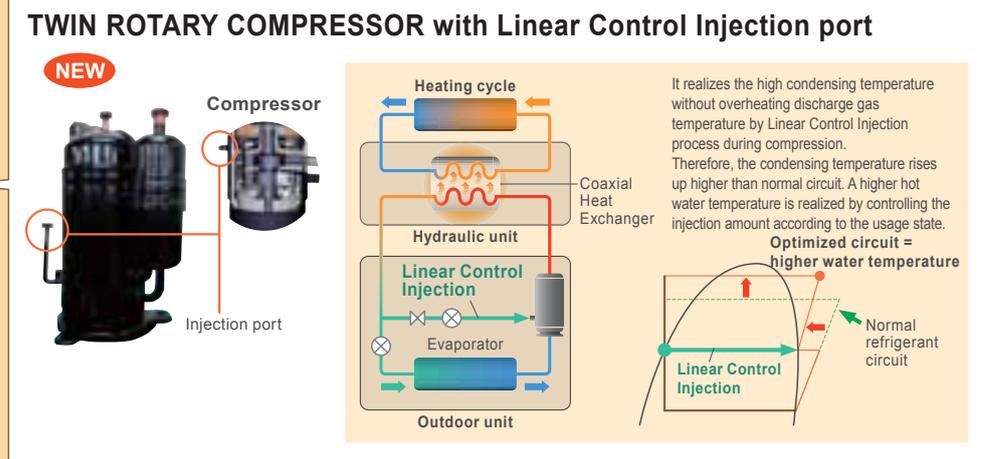
*Optional parts are required.

High Power series

<p>Single Phase power supply</p> <p>11kW 14kW NEW</p> <p>Hydraulic unit WSYG140DC6</p>  <p>Outdoor unit WOYG112LCT WOYG140LCT</p>	<p>3 Phase power supply</p> <p>11kW 14kW 16kW NEW</p> <p>Hydraulic unit WSYK160DC9</p>  <p>Outdoor unit WOYK112LCT WOYK140LCT WOYK160LCT</p>
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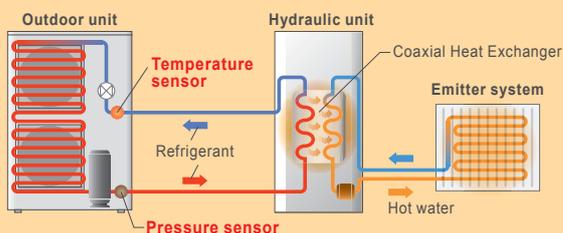


High Power & High Efficiency Outdoor unit technology

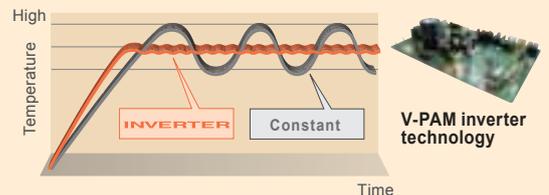


Optimization of refrigerant cycle operation

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



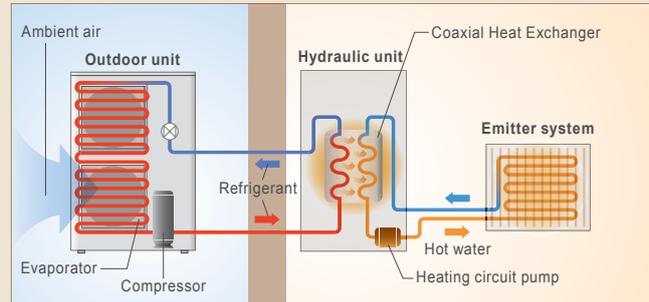
Accurate temperature control by DC inverter technology



High power models realizes high heating capacity and high efficiency by newly developed "Linear Control Injection Technology" and "Coaxial Heat Exchanger".

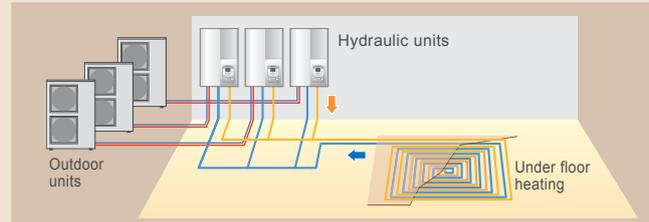
These properties are the key for a reliable heating operation throughout the whole year- even in a strong winter.

Split Type model allows flexible installations.



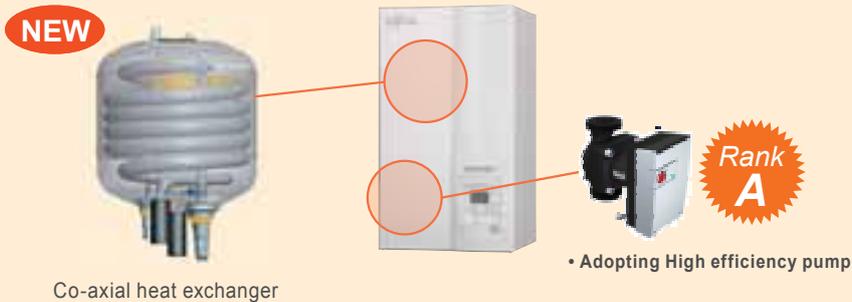
Cascade connection

Large capacities can be realized by combining up to three systems into one control circuit. **Future release**



Renewed Hydraulic unit design

The redesigned coaxial compact heat exchanger and the new High efficiency pump lead to excellent energy values.



New designed Hydraulic unit allows significant space saving.



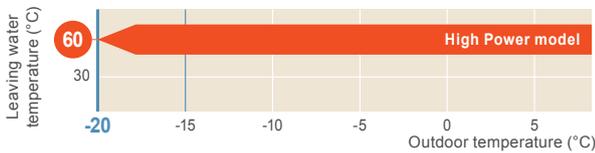
High Power series

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.

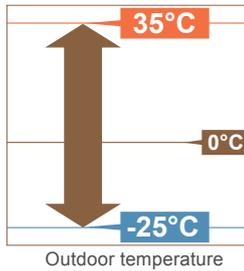
HIGH LEAVING WATER TEMPERATURE No backup heater

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



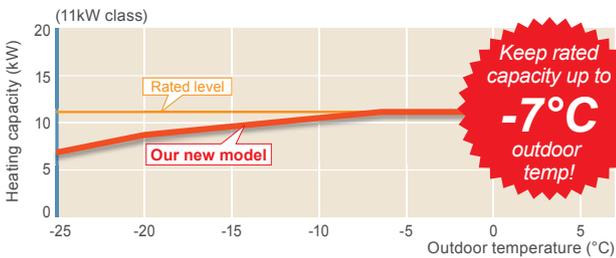
Extended operation range down to -25°C

Improved operation range down to -25°C outdoor temperature



Strong & Powerful heating capacity

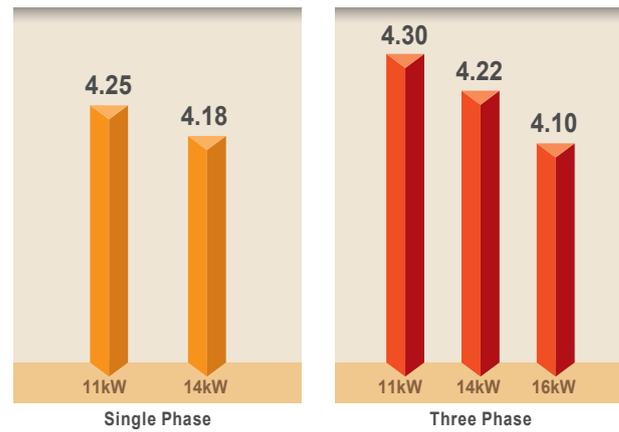
Keeping the rated heating capacity up to -7°C outdoor temperature



High Efficiency

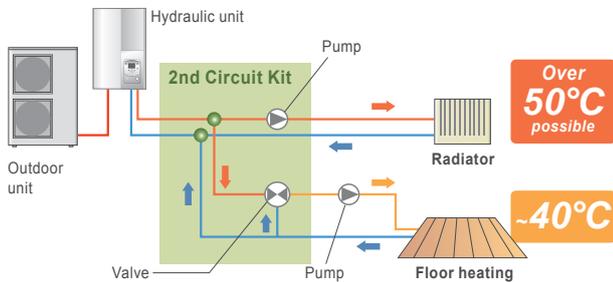
Energy efficiency is improved by the linear Control Injection Technology and the optimization of refrigerant cycle control. High power model realizes high performance and high efficiency by adopting twin sensors and control technology corresponding to hot water heating.

HIGH COP



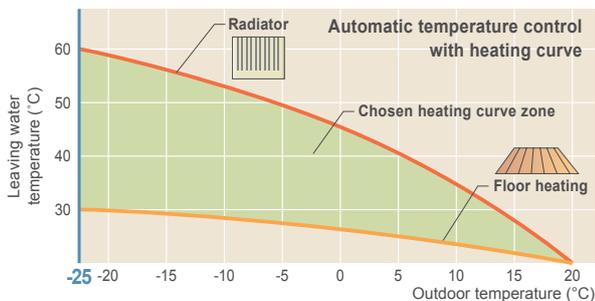
Intelligent Control

2 ZONE INDIVIDUAL CONTROL*



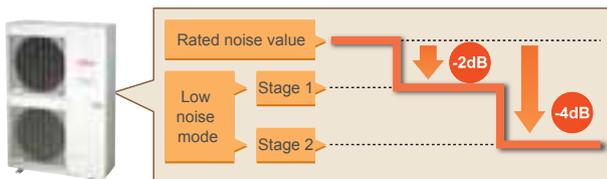
AUTOMATIC HEATING CURVE CONTROL

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



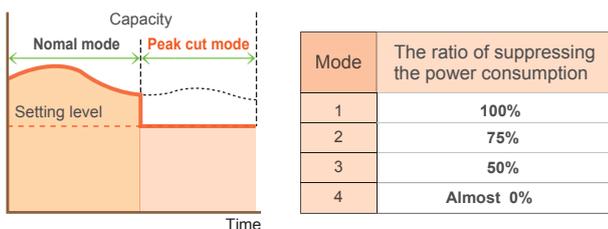
2 STAGE LOW NOISE MODE*

Outdoor unit can be switched to silent mode, depending on the installation environment.



PEAK CUT FUNCTION*

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



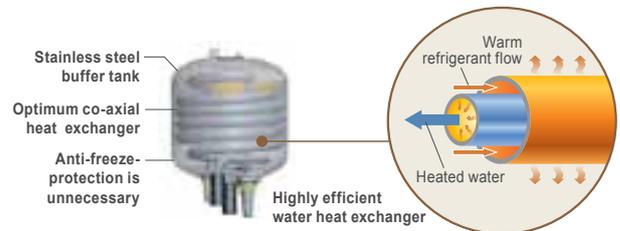
AND MORE

- Cooling operation is possible*
 - Anti-Legionella function
 - Additional electric heater control for backup
 - Cascade connection is possible.* (Future Release)
 - Webserver can be connected.*
- *Optional parts are required.

High Reliability

HIGH DURABILITY

- Corrosion protected
- No flow switch and no filter necessary

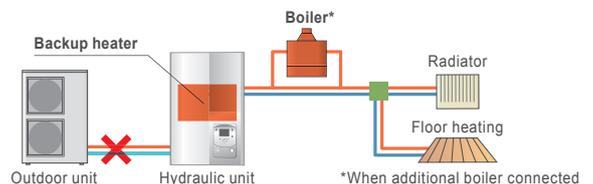


EASY INSTALLATION & MAINTENANCE

- All hydraulic components built in no additional selection for water flow required
- Lifting bars for an installation without any difficulty or risk
- Easy access for maintenance operations
- Refrigerant pump down operation

EMERGENCY OPERATION

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

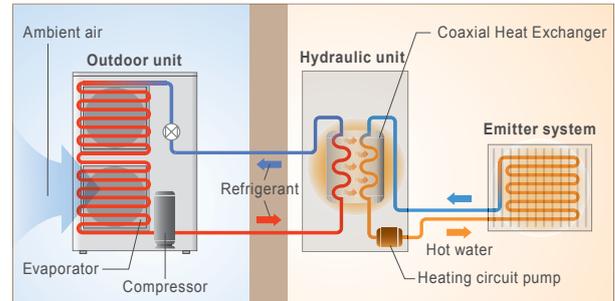


Comfort series

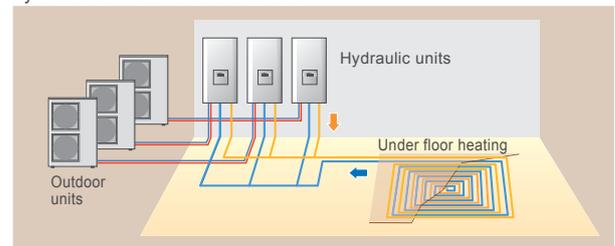
5kW	6kW	8kW	10kW	13kW	16kW
Hydraulic unit WSYA050DA WSYA065DA WSYA080DA	Hydraulic unit WSYA095DA	Hydraulic unit WSYA128DA WSYA155DA			
					
					
Outdoor unit AOYA18LALL AOYA24LALL	Outdoor unit AOYA30LBTL	Outdoor unit AOYA45LBTL AOY54LJBYL			

For Comfort series, optimized hot water control is realized by DC inverter technology.

Split Type model allows flexible installations.



Large capacities can be realized by combining up to three systems into one control circuit.



High efficiency Technology

DC FAN MOTOR

High performance, high efficiency small DC fan motor mounted.



DC TWIN ROTARY COMPRESSOR

High efficient DC twin rotary compressor



HIGH EFFICIENT CO-AXIAL HEAT EXCHANGER

Double-pipe water heat exchanger with built-in tank

DC INVERTER

Smooth water temperature control realized by DC inverter control.



High efficiency & Comfort

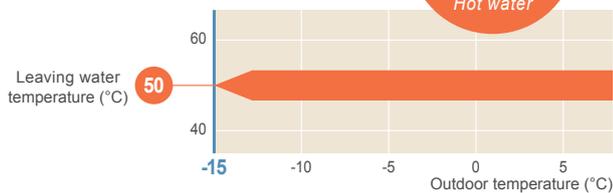
HIGH COP



HIGH LEAVING WATER TEMPERATURE

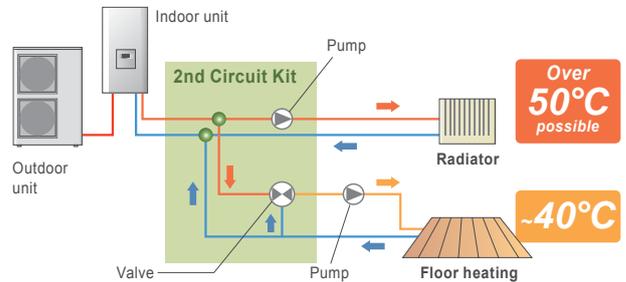
High leaving water temperature of 50°C keeps to -15°C of outdoor temperature without additional heater.

No backup heater
At -15°C outdoor temperature
50°C Hot water



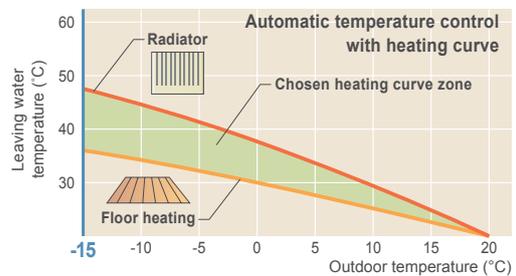
Intelligent Control

2 ZONE INDIVIDUAL CONTROL* (Split type only)



AUTOMATIC HEATING CURVE CONTROL

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



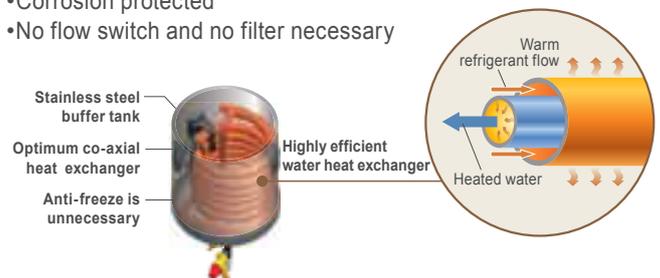
AND MORE

- Cooling operation is possible*
 - Anti-Legionella function
 - Possible to docking the boiler and electric heater for backup
- *Optional parts are required.

High Reliability

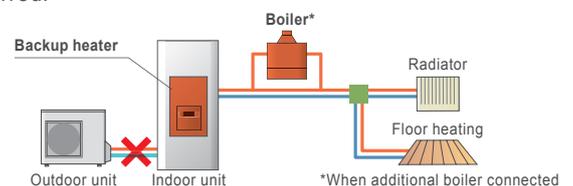
HIGH DURABILITY

- Corrosion protected
- No flow switch and no filter necessary



EMERGENCY OPERATION

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



Compact series

8kW 10kW

Comfort and energy saving realized by world's top class compact design



WPYA080LA
WPYA100LA



Control box
UTW-SCBYA

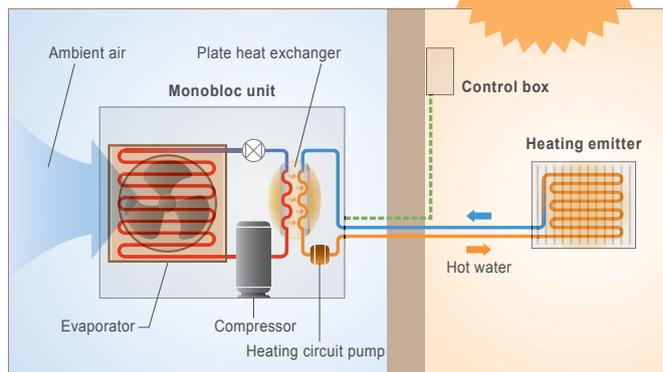
All-in-One Model

Compact design which built in all hydraulic components and the heat pump unit make refrigerant piping work unnecessary. Easy installation and maintenance are realized.



**Easy
installation &
maintenance!**

WATERSTAGE outline (Monobloc type)



High Efficiency Technology

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



DC FAN MOTOR

High performance, high efficiency small DC fan motor mounted.



DC TWIN ROTARY COMPRESSOR

High efficient DC twin rotary compressor



Compact & High Performance

HIGH COP

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

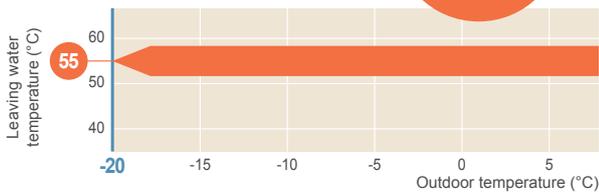


*Condition : Outdoor Temp. 7°C Heating Temp. 35°C.

HIGH LEAVING WATER TEMPERATURE

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

No backup heater
At -20°C outdoor temperature
55°C Hot water

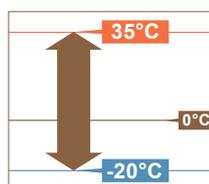


COMPACT & LIGHT WEIGHT DESIGN



Wide Operation Range

Possible to operate heating under -20°C of outdoor temperature



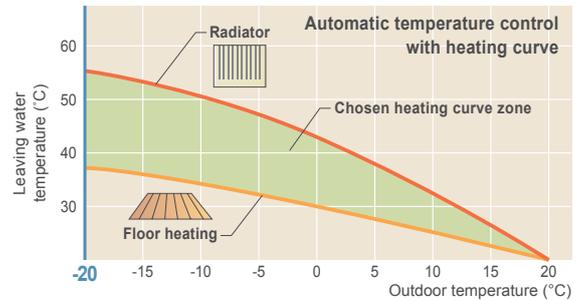
Intelligent Control

WIRED REMOTE CONTROLLER (CONTROL BOX) IS ADOPTED STANDARD.



AUTOMATIC HEATING CURVE CONTROL

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



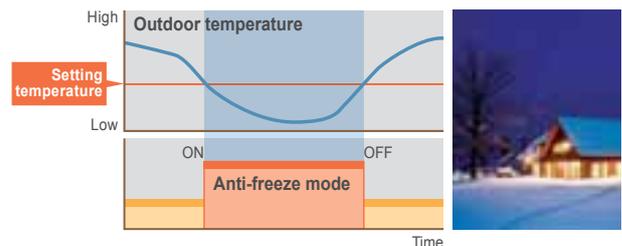
AND MORE

- Cooling operation is possible.
 - Anti-Legionella function
 - Possible to docking the boiler or electric heater for backup*
- *field supply

High Reliability

ANTI-FREEZE FUNCTION

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



EASY INSTALLATION & MAINTENANCE

- No installation of refrigerant circuit connections.
- Easy access for maintenance operations

Smart & Comfort Control

The heating water temperature is controlled automatically depending on outdoor temperature. The place for the sensor can be chosen freely.

The room temperature and operation mode can be easily set. Options appear automatically by "plug & play".



Large LCD display
 • Operation status display
 • Error display
 • plain text



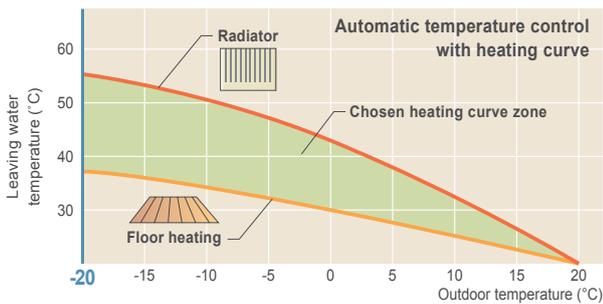
Simple operation mode setting
 • Selecting the heating mode and Domestic hot water operation

Navigation and setting
 • Selecting the heating menu
 • Setting program timer

Comfort Control

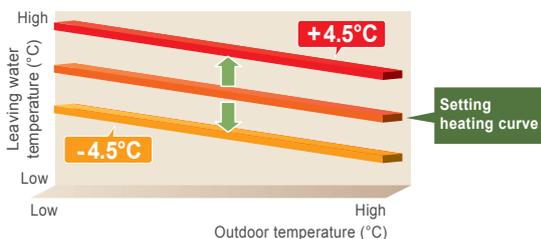
Automatic heating curve operation

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



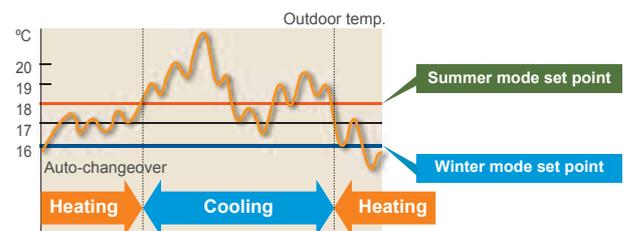
Heating curve off-set Adjust setting room temp.

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



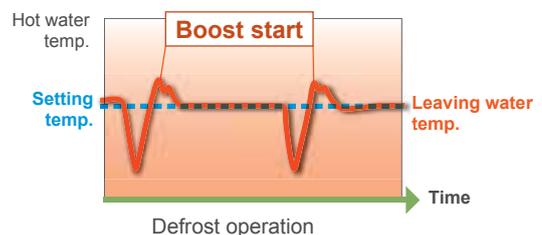
Auto-changeover

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.



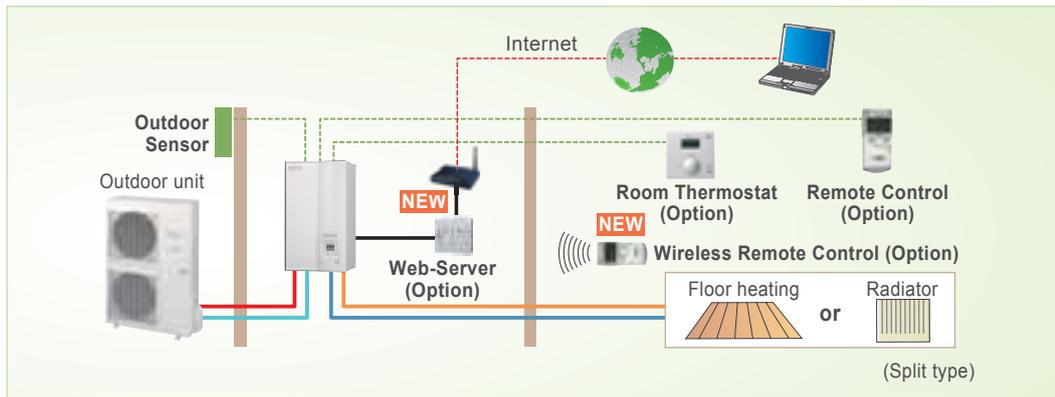
Quick recovery from defrost operation

Keep setting room temperature during defrost operation by boost start operation



REMOTE CONTROL - EXTENSION

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



Energy Saving

Programmed timer

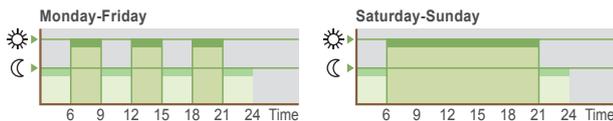
- The setting of programmed operation can be easily set.
- Changing the heating mode linked with time is possible.

Heating mode

- Automatic mode**
Comfort/Reduce mode switching automatically according to outdoor temperature
- Comfort mode**
Constant comfort temperature
- Reduce mode**
Constant reduce temperature
- Protection mode**
Stand-by mode with anti-frost protection

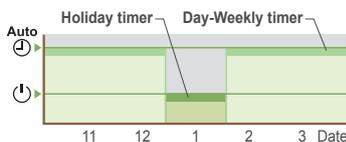
Day-Weekly timer setting

- 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

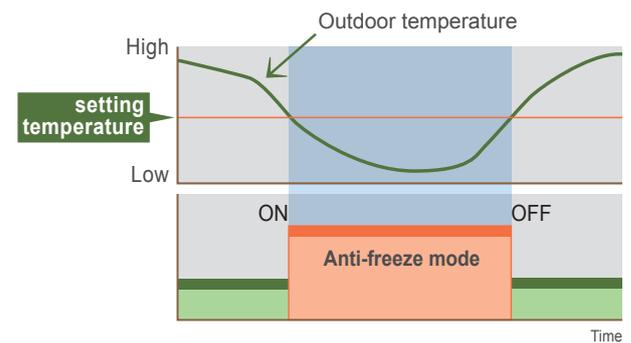
- The holiday timer can be set up for up to 8 periods
- If you are absent for a long time in the winter, freezing of room can be prevented.



Safety Function

Anti-freeze function

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

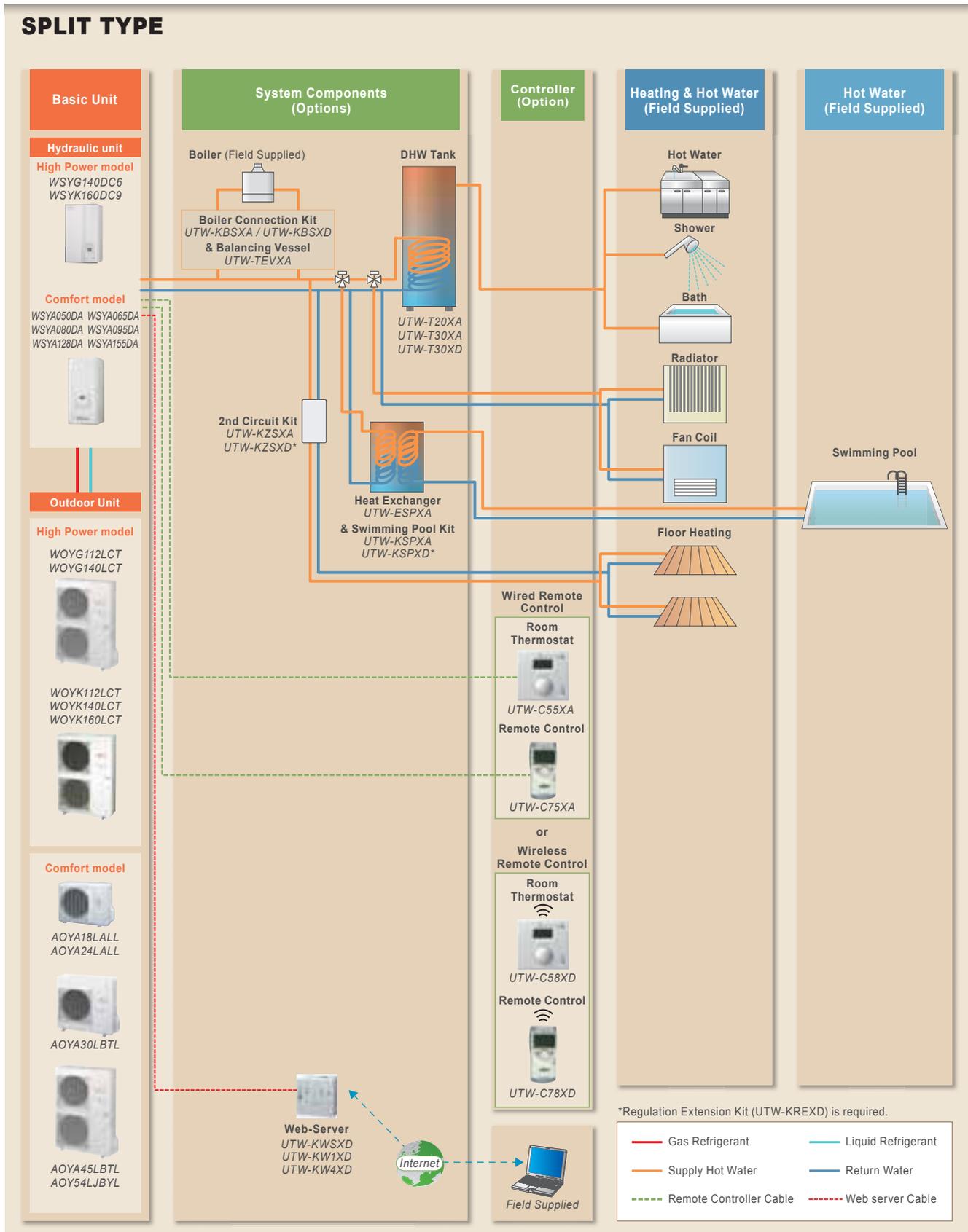


Anti-legionella function

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



Total solution concept for comfort inside your home

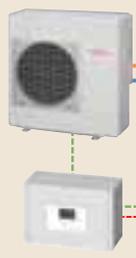


MONOBLOC TYPE

Basic Unit

Monobloc Unit

Compact model
WPYA080LA
WPYA100LA



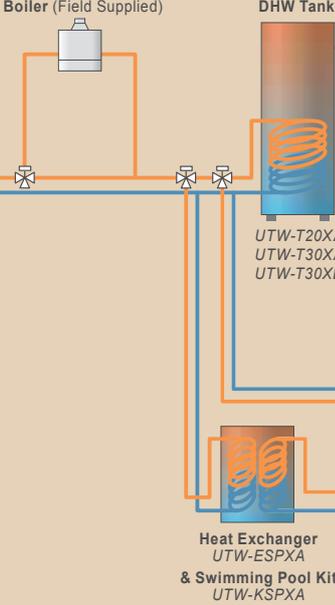
Control box
UTW-SCBYA

System Components (Options)

Boiler (Field Supplied)

DHW Tank
UTW-T20XA
UTW-T30XA
UTW-T30XD

Heat Exchanger
UTW-ESPXA
& Swimming Pool Kit
UTW-KSPXA



Controller (Option)

Wired Remote Control

Room Thermostat
UTW-C55XA
or
Remote Control
UTW-C75XA

or

Wireless Remote Control

Room Thermostat
UTW-C58XD
or
Remote Control
UTW-C78XD



Heating & Hot Water (Field Supplied)

Hot Water

Shower

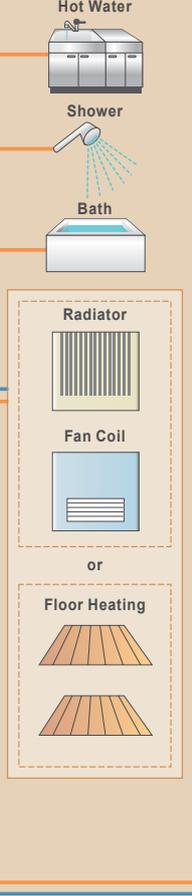
Bath

Radiator

Fan Coil

or

Floor Heating



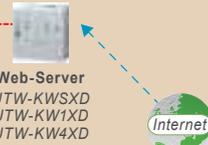
Hot Water (Field Supplied)

Swimming Pool



Web-Server
UTW-KWSXD
UTW-KW1XD
UTW-KW4XD

Internet



Field Supplied



Note: 1. Only one heating circuit can be connected.
2. Only one Controller (Option) can be connected.

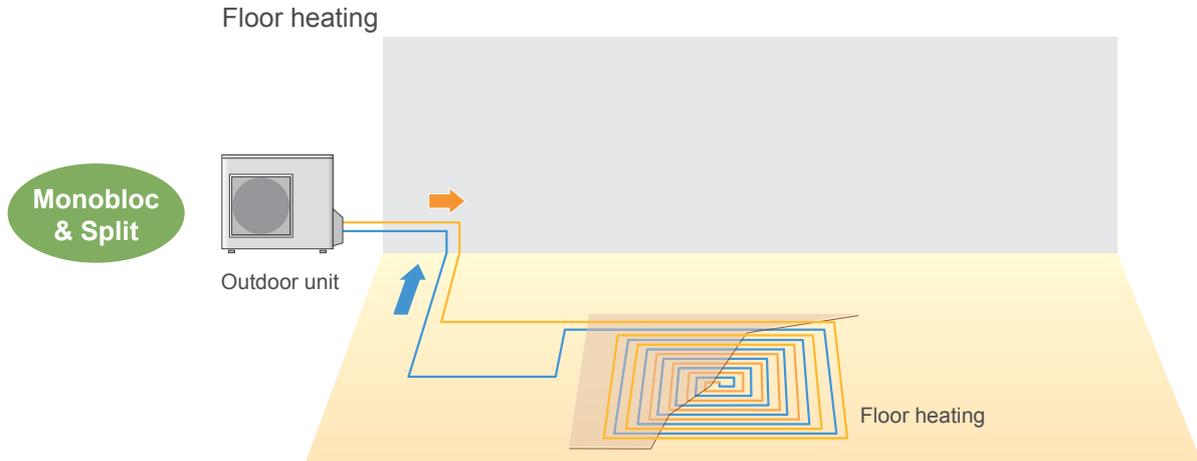
— Supply Hot Water — Return Water

- - - Remote Controller Cable - - - Web server Cable

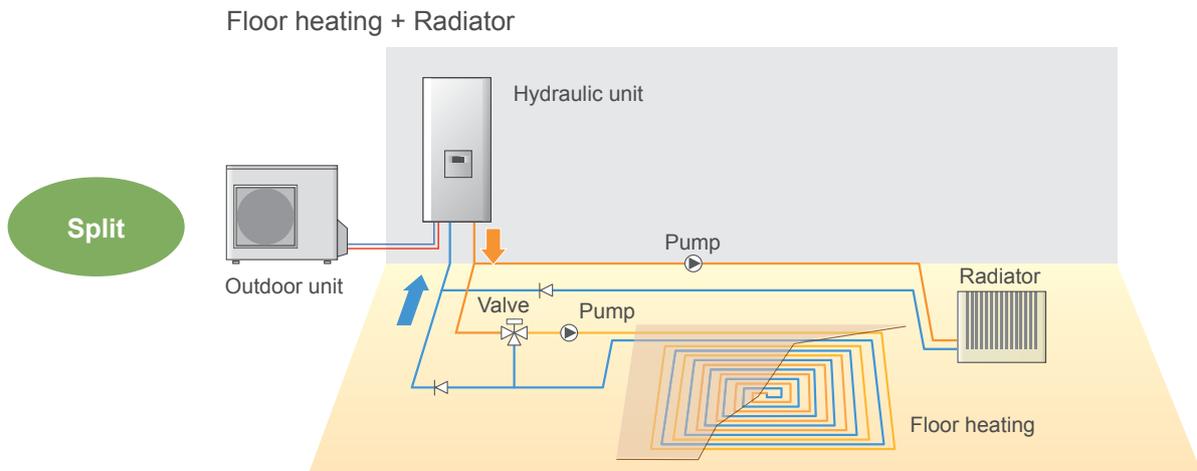
Case studies

Space Heating

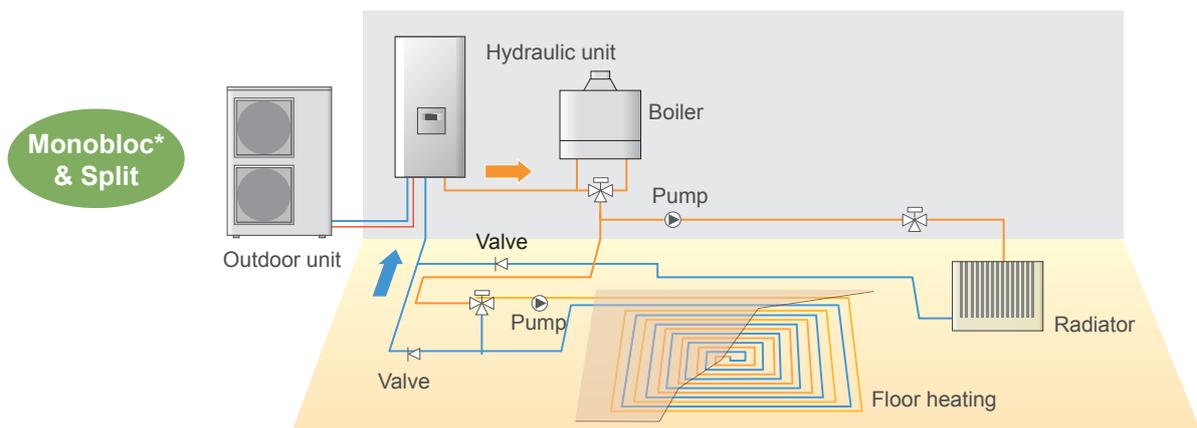
Single heating system



2 emitter simultaneous heating (Individual control)



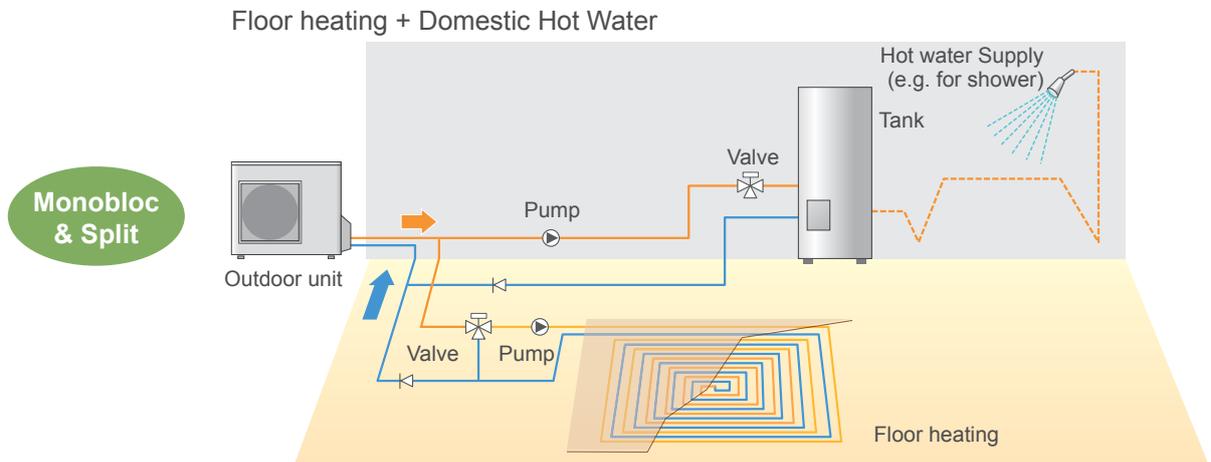
Boiler connected to heating (Boiler + Heating)



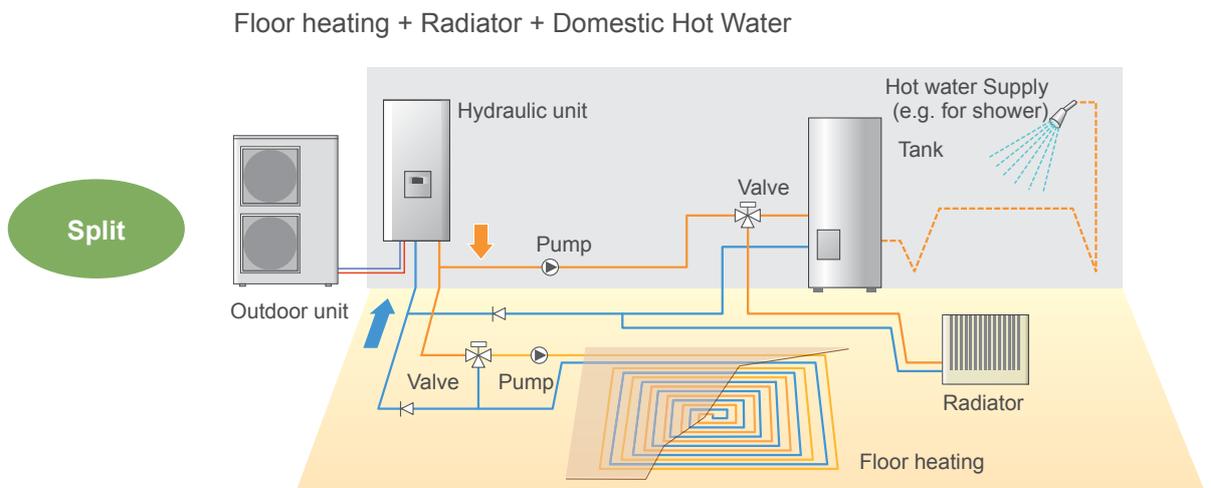
*: For Monobloc type only one heating circuit is possible.

Domestic Hot Water Combination

2 types of heat distribution

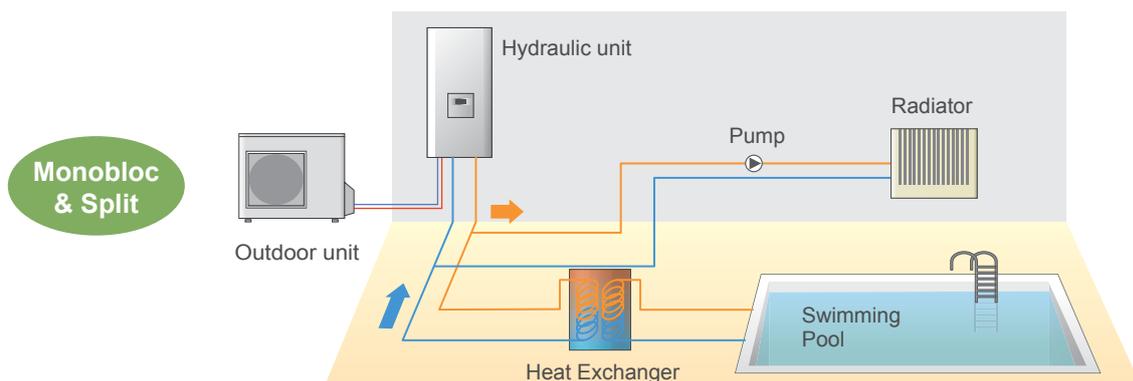


3 types of heat distribution



Others

Swimming Pool (Heat Exchanger & Heating)

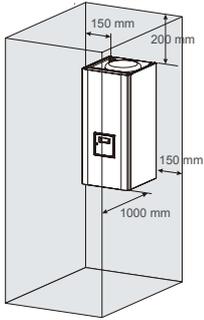


Installation Limitations

Equipment Installation

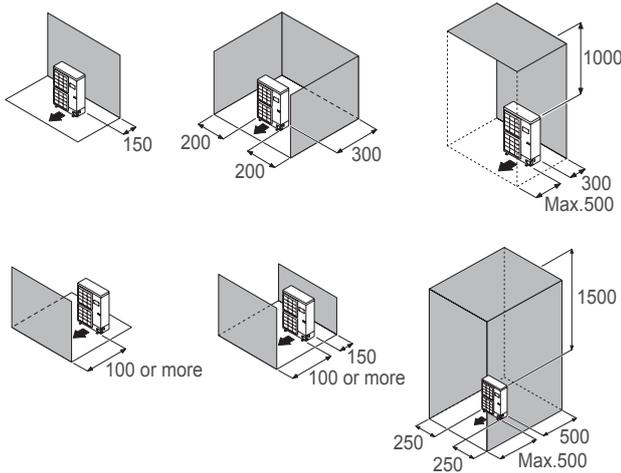
Split Type High Power Series

Indoor Unit

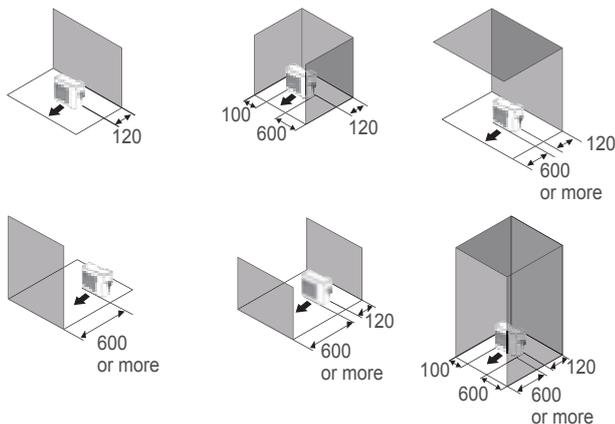


- Hydraulic unit should be hung on the wall
- Weight < 80kg (including water)
- Distances for maintenance should be respected

Outdoor Unit



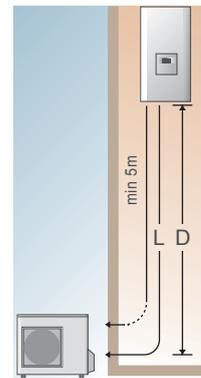
Monobloc Type



Piping and Wiring

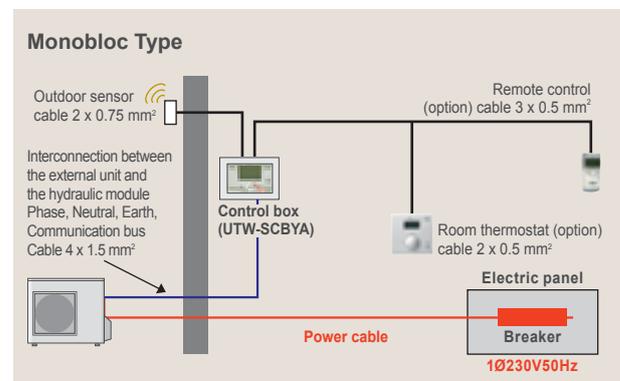
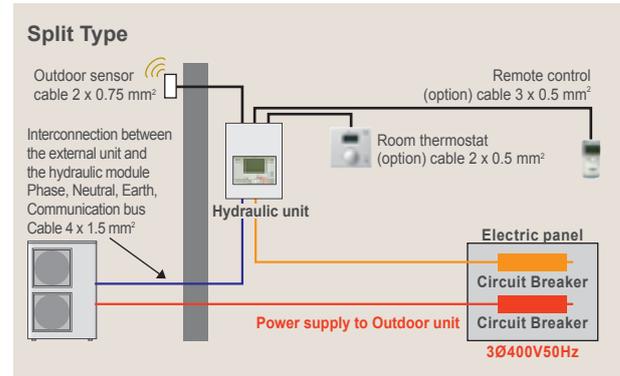
Piping

Split Type



Series	Capacity range(kW)	D (m)	L (m)
Comfort	5	15	5-15
	6		
	8		
	10		
	13		
High power	11	15	5-20
	14		
	16		

Electrical wiring

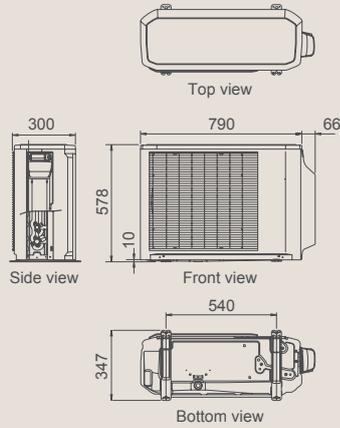


SPLIT TYPE

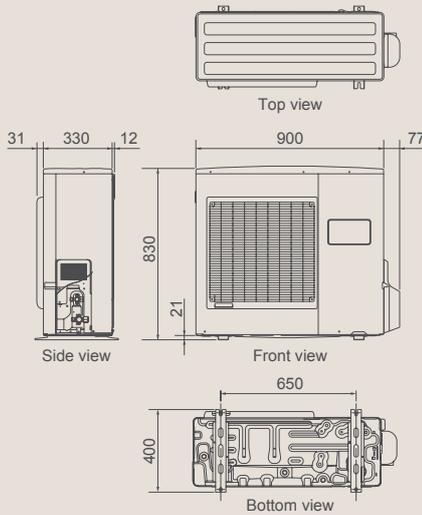
Unit : mm

Outdoor Units Comfort model

AOYA18LALL / AOYA24LALL



AOYA30LBTL

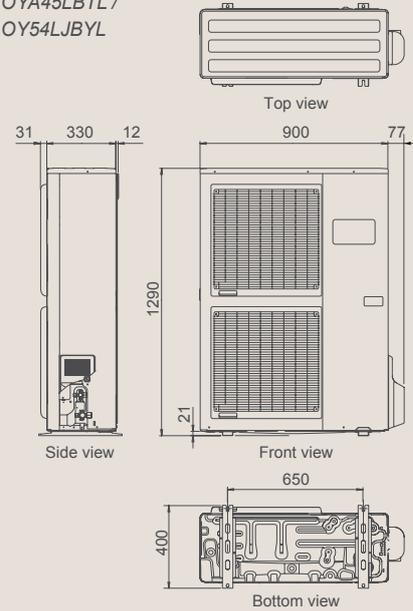


Outdoor Units High Power model

WOYG112LCT /
WOYG140LCT

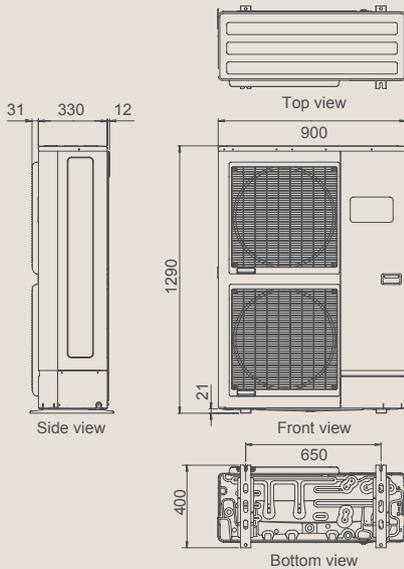
Outdoor Units Comfort model

AOYA45LBTL /
AOY54LBYL



Outdoor Units High Power model

WOYK112LCT / Woyk140LCT / Woyk160LCT



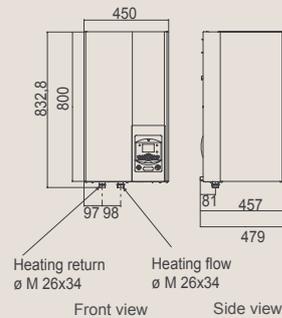
Hydraulic units High Power model

Single Phase Hydraulic unit :

WSYG140DC6

3 Phase Hydraulic unit :

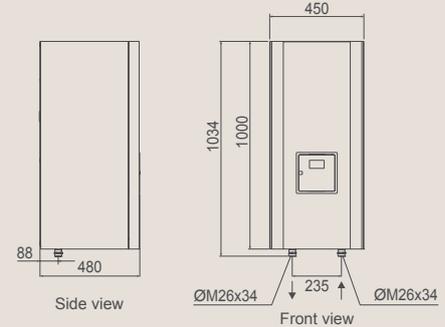
WSYK160DC9



Hydraulic units Comfort model

WSYA050DA / WSYA065DA / WSYA080DA

WSYA095DA / WSYA128DA / WSYA155DA

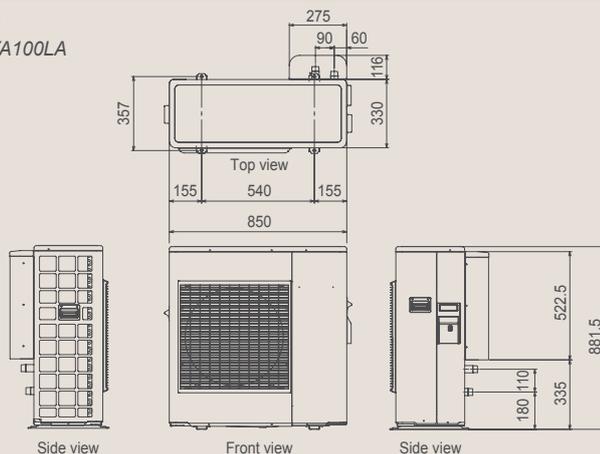


MONOBLOC TYPE

Unit : mm

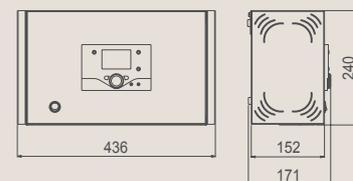
Compact model

WPYA080LA / WPYA100LA



Control Box

UTW-SCBYA



Optional Parts Compatibility

Product Name	Model Name	Split type											Monobloc type	
		High Power Series					Comfort Series						Compact Series	
		Single Phase		3 Phase			Single Phase						Single Phase	
		11	14	11	14	16	5	6	8	10	13	16	8	10
2nd Circuit Kit	 UTW-KZSXA	—	—	—	—	—	●	●	●	●	●	●	—	—
	NEW  UTW-KZSXD	●	●	●	●	●	—	—	—	—	—	—	—	—
Boiler Connection Kit	 UTW-KBSXA	—	—	—	—	—	●	●	●	●	●	●	—	—
	NEW  UTW-KBSXD	●	●	●	●	●	—	—	—	—	—	—	—	—
Balancing Vessel	 UTW-TEVXA	●	●	●	●	●	●	●	●	●	●	●	●	●
DHW Kit	 UTW-KDWXA	—	—	—	—	—	●	●	●	●	●	●	●	●
	NEW  UTW-KDWXD	●	●	●	●	●	—	—	—	—	—	—	—	—
DHW Tank	200 Liter 300 Liter  UTW-T20XA UTW-T30XA	●	●	●	●	●	●	●	●	●	●	●	●	●
	NEW 300 Liter  UTW-T30XD	●	●	●	●	●	●	●	●	●	●	●	●	●
	 UTW-T30XD	●	●	●	●	●	●	●	●	●	●	●	●	●
Circulating Pump	NEW  UTW-PHFXD	●	●	●	●	●	—	—	—	—	—	—	—	—
Swimming Pool Kit	 UTW-KSPXA	—	—	—	—	—	●	●	●	●	●	●	●	●
	NEW  UTW-KSPXD	●	●	●	●	●	—	—	—	—	—	—	—	—
Heat Exchanger for Swimming Pool Kit	 UTW-ESPXA	●	●	●	●	●	●	●	●	●	●	●	●	●
Cooling Kit	 UTW-KCLXA	—	—	—	—	—	●	●	●	●	●	●	—*	—*
	NEW  UTW-KCLXD	●	●	●	●	●	—	—	—	—	—	—	—*	—*
Regulation Extension Kit	NEW  UTW-KREXD	●	●	●	●	●	—	—	—	—	—	—	—	—
Remote Controller	wired  UTW-C75XA	●	●	●	●	●	●	●	●	●	●	●	●	●
	NEW wireless  UTW-C78XD	●	●	●	●	●	●	●	●	●	●	●	●	●
Room Thermostat	wired  UTW-C55XA	●	●	●	●	●	●	●	●	●	●	●	●	●
	NEW wireless  UTW-C58XD	●	●	●	●	●	●	●	●	●	●	●	●	●
Outdoor Sensor Transmitter	NEW  UTW-MOSXD	●	●	●	●	●	●	●	●	●	●	●	●	●
RF Modules	NEW for X60-Port  UTW-M60XD	●	●	●	●	●	●	●	●	●	●	●	●	●
	NEW for BSB-Port  UTW-MRCXD	●	●	●	●	●	●	●	●	●	●	●	●	●
Cascade Kit	NEW  UTW-KCCXD	—	—	—	—	—	—	—	●	●	●	—	—	
Cascade Regulation Extension Kit	NEW  UTW-KCEXD	—	—	—	—	—	—	—	●	●	●	—	—	
Web Server	NEW  UTW-KWSXD	●	●	●	●	●	●	●	●	●	●	●	●	●
	NEW  UTW-KW1XD UTW-KW4XD	●	●	●	●	●	●	●	●	●	●	●	●	●

● : Available — : Not Available

*Cooling operation is possible without cooling kit.

SPECIFICATIONS

Type			Split system																																				
Series name			High Power series					Comfort series																															
																																							
Capacity range (kW)			11	14	11	14	16	5	6	8	10	13	16																										
+7°C / +35°C floor heating *1	Heating capacity	kW	10.80	13.50	10.80	13.50	15.20	4.60	6.50	8.00	10.30	13.70	16.20																										
	Input power		2.54	3.23	2.51	3.20	3.70	1.07	1.63	2.00	2.58	3.42	4.15																										
	COP		4.25	4.18	4.30	4.22	4.10	4.30	4.00	4.00	4.00	4.00	3.90																										
+2°C / +35°C floor heating *1	Heating capacity	kW	10.77	12.00	10.77	13.00	13.50	4.31	5.59	6.39	8.69	12.31	13.94																										
	Input power		3.44	3.87	3.40	4.15	4.34	1.36	2.05	2.34	3.21	3.87	4.77																										
	COP		3.13	3.10	3.17	3.13	3.11	3.16	2.73	2.73	2.71	3.18	2.92																										
-7°C / +35°C floor heating *1	Heating capacity	kW	10.80	12.00	10.80	13.00	13.50	4.80	5.60	7.00	8.10	11.55	12.40																										
	Input power		4.32	5.08	4.28	5.18	5.40	1.77	2.24	2.54	3.52	4.37	4.77																										
	COP		2.50	2.36	2.52	2.51	2.50	2.70	2.50	2.75	2.30	2.64	2.60																										
+7°C / +45°C radiators *1	Heating capacity	kW	9.23	11.54	10.10	12.60	13.00	4.17	5.40	6.20	8.30	9.70	13.30																										
	Input power		2.84	3.74	3.01	3.81	4.00	1.23	1.61	1.88	2.51	2.98	4.20																										
	COP		3.25	3.10	3.35	3.30	3.25	3.38	3.35	3.30	3.30	3.26	3.17																										
-7°C / +45°C radiators *1	Heating capacity	kW	9.16	11.45	10.02	12.50	13.00	4.05	5.10	5.90	7.00	9.20	11.00																										
	Input power		4.58	5.92	4.63	6.00	6.37	1.78	2.32	2.62	3.33	4.30	5.37																										
	COP		2.00	1.93	2.16	2.08	2.04	2.28	2.20	2.25	2.10	2.14	2.05																										
Backup heater	Capacity	kW×pcs.	6.0(3.0×2 pcs.)		6.0(3.0×2 pcs.)		9.0(3.0 × 3 pcs.)		9.0(3.0 × 3 pcs.)		3.0(1.5×2 pcs.)		3.0(1.5×2 pcs.)		3.0(1.5×2 pcs.)		6.0(3.0×2 pcs.)		6.0(3.0×2 pcs.)		6.0(3.0×2 pcs.)																		
Hydraulic unit			Model name		WSYG140DC6			WSYK160DC9			WSYA050DA		WSYA065DA		WSYA080DA		WSYA095DA		WSYA128DA		WSYA155DA																		
Power source					1Ø 230V, 50Hz			3Ø 400V, 50Hz			1Ø 230V, 50Hz		1Ø 230V, 50Hz		1Ø 230V, 50Hz		1Ø 230V, 50Hz		1Ø 230V, 50Hz		1Ø 230V, 50Hz																		
Water circulation			Rated	L / min	31.2	39.0	31.2	39.0	43.8	14.3	18.6	22.9	27.2	36.7	44.4																								
			Min / Max		25.0 / 50.0					9.0 / 18.3					10.0 / 23.3					14.3 / 28.3					16.7 / 35.0					25.0 / 50.0					25.0 / 50.0				
Dimensions H×W×D			mm		800 × 450 × 457					1034×450×480																													
Weight (Net)			kg		42					52.5																													
Buffer tank capacity			L		16					25																													
Expansion vessel capacity			L		8					8																													
Leaving water temperature range			°C		8~60					8 ~ 50																													
Water pipe connection diameter			Flow / Return	mm	Ø25.4 / Ø25.4					Ø25.4 / Ø25.4																													
Outdoor unit			Model name		WOYG112LCT		WOYG140LCT		WOYK112LCT		WOYK140LCT		WOYK160LCT		AOYA18LALL		AOYA24LALL		AOYA30LBTLL		AOYA45LBTLL		AOY54LJBYL																
Power source					1Ø 230V, 50Hz		1Ø 230V, 50Hz		3Ø 400V, 50Hz		1Ø 230V, 50Hz		1Ø 230V, 50Hz		1Ø 230V, 50Hz		1Ø 230V, 50Hz		1Ø 230V, 50Hz		1Ø 230V, 50Hz		1Ø 230V, 50Hz																
Current			Rated	A	10.8	13.6	3.60	4.80	5.50	5.16	7.25	8.27	10.40	13.70	17.10																								
			Max		21.0	24.0	8.50	9.50	10.50	10.80	11.22	16.00	19.00	24.50																									
Noise level (Sound pressure)			dB(A)		55 ^{*2}	56 ^{*2}	53 ^{*2}	55 ^{*2}	56 ^{*2}	39 ^{*3}	40 ^{*3}	55 ^{*2}	55 ^{*2}	55.5 ^{*2}																									
Dimensions H×W×D			mm		1290 × 900 × 330					578 × 790 × 300					578×790×315					830×900×330					1290×900×330					1290×900×330									
Weight (Net)			kg		92					99					40					44					64					98					105				
Refrigerant					R410A					R410A																													
Refrigerant amount			kg		2.50					1.25					1.70					2.10					3.35					3.40									
Additional refrigerant charge amount			g/m		50					20					20					40					50					40									
Connection pipe			Diameter	Liquid	mm		Ø9.52		Ø6.35		Ø6.35		Ø9.52		Ø9.52		Ø9.52		Ø9.52		Ø9.52		Ø9.52																
				Gas	mm		Ø15.88		Ø12.70		Ø15.88		Ø15.88		Ø15.88		Ø15.88		Ø15.88		Ø15.88		Ø15.88																
			Length	Min / Max	m		5 / 20		5 / 15		5 / 15		5 / 20		5 / 20		5 / 20		5 / 20		5 / 20		5 / 20																
			Length (chargeless)	Max	m		15		15		15		20		20		20		20		20		20																
			Height difference	Max	m		15		15		15		20		20		20		20		20		20																
Operation range			Heating		°C		-25~35					-15 ~ 24																											

Type			Monobloc system	
Series name			Compact series	
				
Capacity range (kW)			8	10
+7°C / +35°C floor heating *1	Heating capacity	kW	8.00	10.00
	Input power		1.78	2.30
	COP		4.50	4.35
+2°C / +35°C floor heating *1	Heating capacity	kW	7.40	8.10
	Input power		2.73	3.00
	COP		2.71	2.70
-7°C / +35°C floor heating *1	Heating capacity	kW	7.10	8.00
	Input power		2.93	3.32
	COP		2.42	2.41
+7°C / +45°C radiators *1	Heating capacity	kW	7.80	9.80
	Input power		2.23	2.88
	COP		3.50	3.40
-7°C / +45°C radiators *1	Heating capacity	kW	6.50	7.00
	Input power		2.98	3.31
	COP		2.18	2.11
Monobloc unit			Model name	
Power source			WPYA080LA	
			WPYA100LA	
Water circulation			Rated	L / min
			Min / Max	
			22.9	28.7
			10.0 / 30.0	10.0 / 30.0
Current			Rated	A
			8.30	10.20
Noise level (Sound pressure)			dB(A)	
			51 ^{*2}	51 ^{*2}
Dimensions H×W×D			mm	
			881.5 × 850 × 330	
Weight (Net)			kg	
			82	
Expansion vessel capacity			L	
			8	
Water pipe connection diameter			Flow / Return	mm
			Ø25.4 / Ø25.4	
Refrigerant			R410A	
Refrigerant amount			kg	
			1.5	
Leaving water temperature range			°C	
			8 ~ 55	
Operation range			Heating	
			°C	
			-20 ~ 35	

- *1. The values of heating capacity/power input/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 and these values.
- *2. Sound pressure level measured at distance of 1m from the device and at a height of 1.5m above ground in free field
- *3. Sound pressure level measured at distance of 5m from the device and at a height of 1.5m above ground in free field

FUJITSU GENERAL LIMITED

1116, Suenaga, Takatsu-ku, Kawasaki 213-8502, Japan
<http://www.fujitsu-general.com/>

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