

SPLIT TYPE SPLIT DHW INTEGRATED TYPE MONOBLOC TYPE



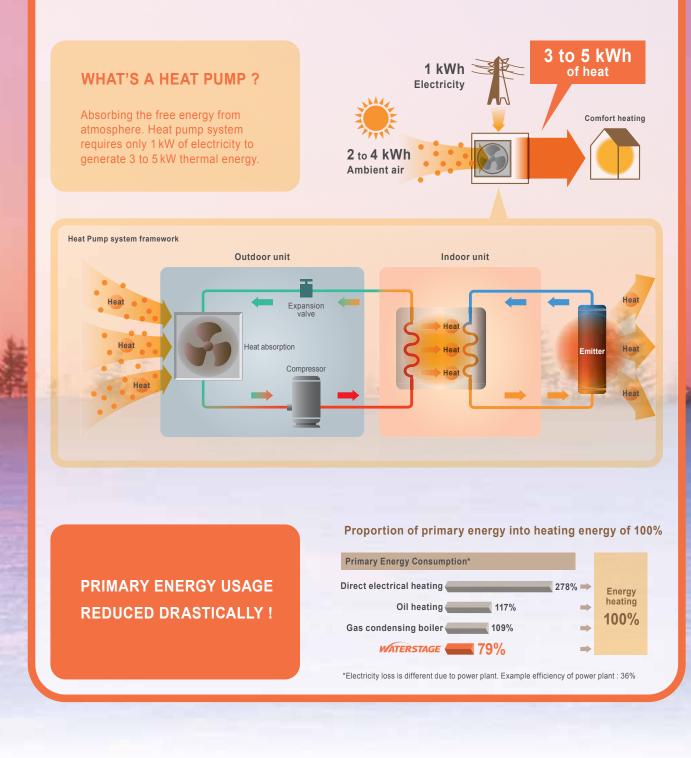
FUJITSU GENERAL LIMITED



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



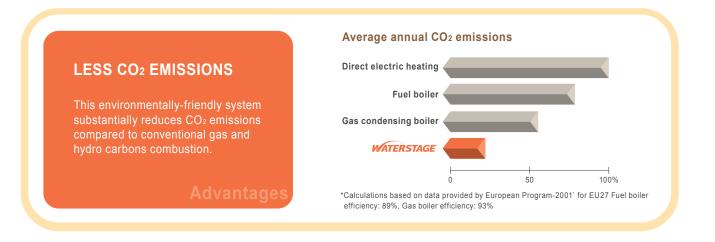
Environmentally friendly water heating system applying heat pump technology that collects heat from the outdoor air

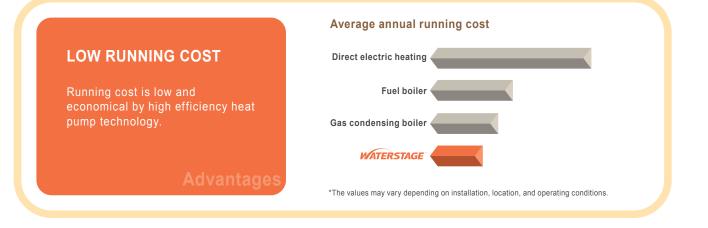


WATERSTAGE[®] makes an Economical and Clean hot water heating system by Heat Pump



Advantages of WATERSTAGE





CLEAN AND HEALTHY

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

Advantages



Environmentally friendly heating system



EASY INSTALLATION AND MAINTENANCE

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



Well structured Hydraulic unit.

Sophisticated arrangement of hydraulic units, allows easy piping and maintenance



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



Product lineup for various needs

Туре			SPLIT TY	PE
		High po	ower series	Comfort series
		Usable outdoor temperature: -25°C		Usable outdoor temperature: -20°C
Series			Hydraulic unit	Hydraulic unit
		Outdoor unit		Outdoor unit NEW NEW
		Capacity range :	11 / 14 kW 11 / 14 / 16 kW	Capacity range : 5 / 6 / 8 kW 10 kW
Features		 60°C hot water supply e temperature Powerful heating capaci low outdoor temperature Different heating system floor heating, radiators a Heating and DHW in one Outdoor low noise functi Energy saving peak cut Additional electric heate Up to two independent of 	ty supplied even at a can be used. Like and others: e system: ion* function* er for backup provided	 55°C hot water supply even at -7°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.*
Power source	9	1Ø 230V / 50Hz	3Ø 400V / 50Hz	1Ø 230V / 50Hz
	5 kW			
	6 kW			
	8 kW			
Capacity range	10 kW			
range	11 kW			
	14 kW			
	16 kW			

	SPLIT DHW INTI	EGRATED TYPE			MONOBI	OC TYPE		
High pow	ver series	Cor	nfort series		Compa	ct series		
Usable outdoor temperature: -25°C	NEW	Usable outdoor temperature: -20°C		NEW	Usable outdo temperature -20°C	:		
	Hydraulic unit		Hydraulic unit		C	ontrol box		
Outdoor unit		Outdoor unit	NEW	NEW	Monobloc unit			
Capacity range : 1	1 / 14 kW 11 / 14 / 16 kW	Capacity range :	5/6/8 kW	10 kW	Capacity range :	8 / 10 kW		
 60°C hot water supply outdoor temperature 	v even at -20°C	 55°C hot water s temperature 	supply even at -7	• 55°C hot water supply even at -20°C outdoor temperature				
 Powerful heating capa at low outdoor temper 		 Floor heating an together. 	d radiators can	be used	 Heating and I system.* 	DHW in one		
 Different heating systematic Like floor heating, rad 		 Heating and DH hydraulic unit. 	W space saving	in one	Antifreeze fur	nction		
 Heating and DHW spa hydraulic unit. 	ace saving in one	 Additional electr provided 	ic heater for bac	kup				
Outdoor low noise fun	iction*	• Up to two indepe	endent control ci	ircuits:				
Energy saving peak control Additional electric heat								
provided • Up to two independen	t control circuits*							
1Ø 230V / 50Hz	3Ø 400V / 50Hz	10	0 230V / 50Hz		1Ø 230	V / 50Hz		
					(
					(
	•							

*Optional parts are required.

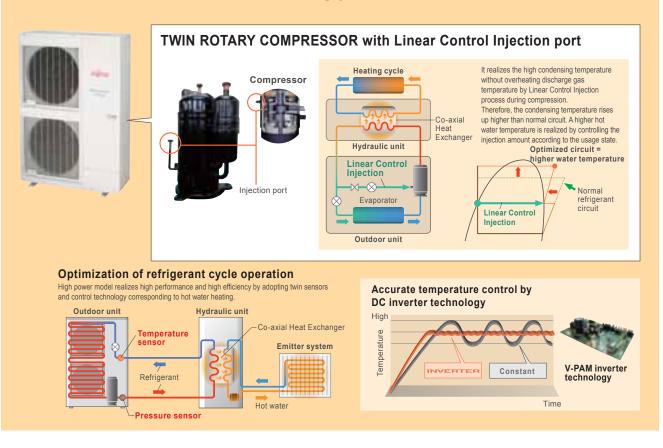
SPLIT TYPE

High Power series



High Power & High Efficiency Outdoor unit technology

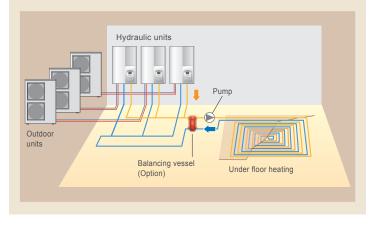
WOYK160LCT



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 yeareven in a strong winter.

Cascade connection

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



Renewed Hydraulic unit design

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



Co-axial Heat Exchanger

HIGH EFFICIENCY CLASS A PUMP Rank CLASS A PUMP

Energy saving pump with constant volume or pressure adjustment function.

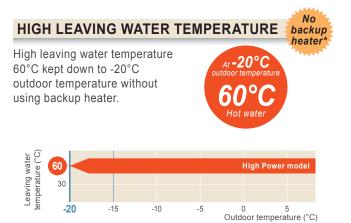


SPLIT TYPE

High Power series

Powerful Heating

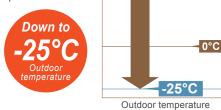
High power models realize high leaving water temperature and high heating capacity even at low ambient temperature by newly developed "Linear Control Injection Technology". It is possible to provide high water temperature and warm rooms in cold regions.



* 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

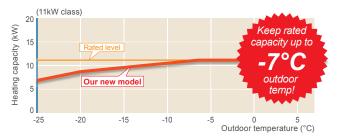
Improved operation range down to -25°C outdoor temperature



35°C

STRONG & POWERFUL HEATING CAPACITY

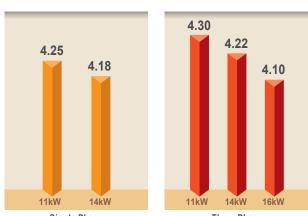
Keeping the rated heating capacity up to -7°C outdoor temperature



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



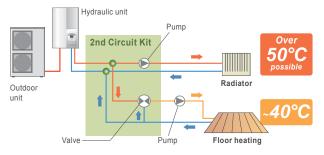
Single Phase

Three Phase



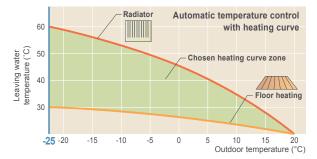
Intelligent Control

2 ZONE INDIVIDUAL CONTROL*



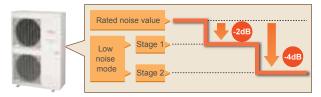
AUTOMATIC HEATING CURVE CONTROL

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



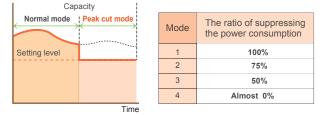
2 STAGE LOW NOISE MODE*

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)

*Optional parts are required

•Web server can be connected.*

High Reliability

HIGH DURABILITY

Corrosion protected

•No flow switch and no filter necessary



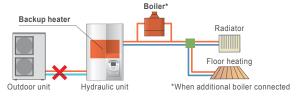
EASY INSTALLATION & MAINTENANCE

•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
- •Refrigerant pump down operation

EMERGENCY OPERATION

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





SPLIT TYPE

Comfort series







Outdoor unit WOYA060LDC WOYA080LDC

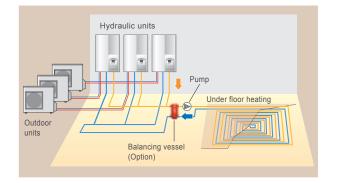


Outdoor unit WOYA100LDT

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

Cascade connection

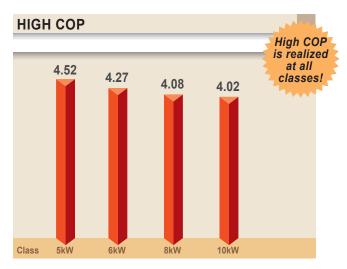
Large capacities can be realized by combining up to three systems into one control circuit.



High Efficiency Technology

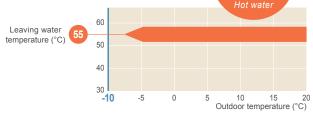


High Efficiency & Comfort



HIGH LEAVING WATER TEMPERATURE

Maximum leaving water temperature is 55° C without backup heater. Hot water supply temperature can be maintained even at -7° C outdoor temperature.



* 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



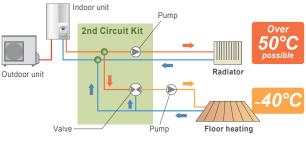


35°C



Intelligent Control

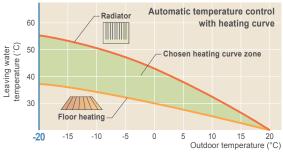
2 ZONE INDIVIDUAL CONTROL*



^{*}Optional parts are required.

AUTOMATIC HEATING CURVE CONTROL

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



AND MORE

No backup

heater

At -7°C

•Cooling operation is possible.*

•Anti-Legionella function

•Possible to docking the boiler (Field supplied)

*Optional parts are required

High Reliability

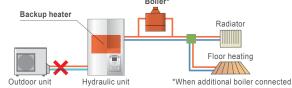
HIGH DURABILITY

- Corrosion protected
- •No flow switch and no filter necessary



EMERGENCY OPERATION

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



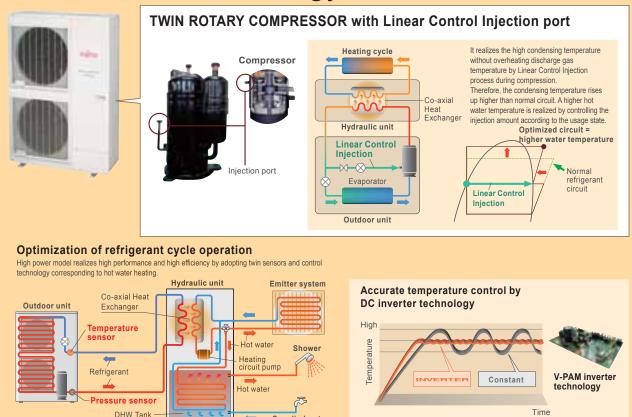
SPLIT DHW INTEGRATED TYPE

High Power series



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".

High Power & High Efficiency Outdoor unit technology

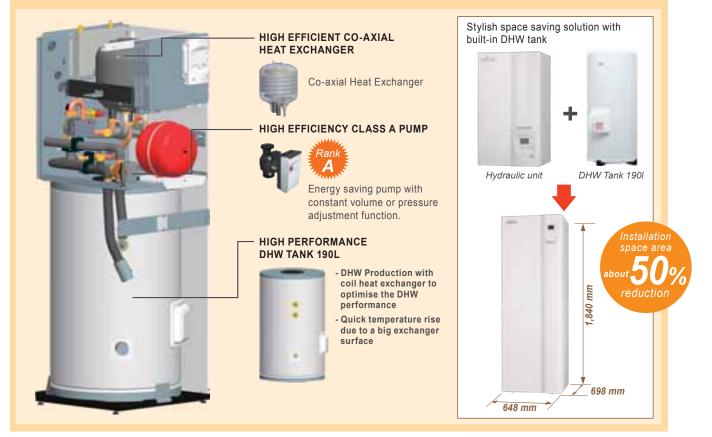


Supplied water



WATERSTAGE DHW INTEGRATED type outline Co-axial Heat Exchanger Hydraulic unit Emitter system Ambient air Outdoor unit Hot water Shower Heating circuit pump Refrigerant Hot water 3 Supplied water Evaporator Compressor DHW Tank

Compact Hydraulic unit design with DHW Tank



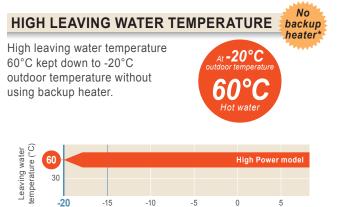
WATERSTAGE 17

SPLIT DHW INTEGRATED TYPE

High Power series

Powerful Heating

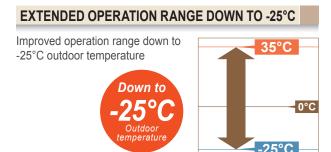
High power models realize high leaving water temperature and high heating capacity even at low ambient temperature by newly developed "Linear Control Injection Technology". It is possible to provide high water temperature and warm rooms in cold regions.



0 5 Outdoor temperature (°C)

Outdoor temperature

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



STRONG & POWERFUL HEATING CAPACITY

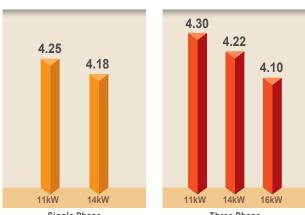
Keeping the rated heating capacity up to -7°C outdoor temperature



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.

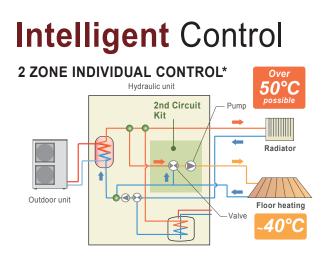
HIGH COP



Single Phase

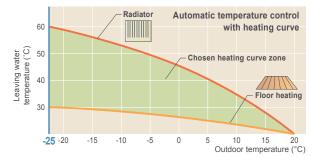
Three Phase





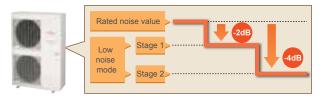
AUTOMATIC HEATING CURVE CONTROL

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



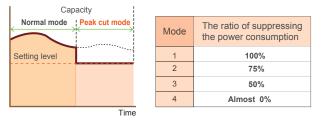
2 STAGE LOW NOISE MODE*

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

•Web server can be connected.*

*Optional parts are required.

High Reliability

HIGH DURABILITY

Corrosion protected

•No flow switch and no filter necessary



EASY INSTALLATION & MAINTENANCE

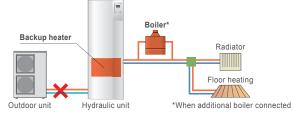
•All hydraulic safety & controlling components built in, no additional selection required

•Easy access for maintenance operations

•Refrigerant pump down operation

EMERGENCY OPERATION

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





SPLIT DHW INTEGRATED TYPE

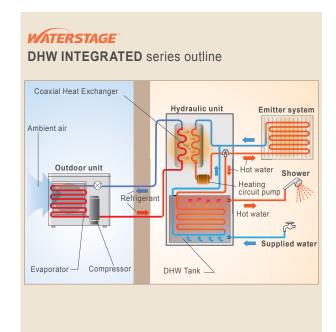
Comfort series



Outdoor unit WOYA060LDC WOYA080LDC

Outdoor unit WOYA100LDT

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



High Efficiency Technology



High Efficiency & Comfort



HIGH LEAVING WATER TEMPERATURE

Maximum leaving water temperature is 55° C without backup heater. Hot water supply temperature can be maintained even at -7° C outdoor temperature.



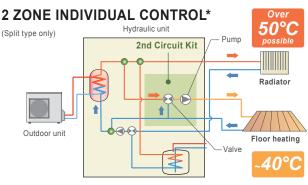
* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.

WIDE OPERATION RANGE

Improved operation range down to -20°C outdoor temperature



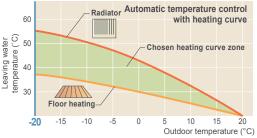
Intelligent Control



*Optional parts are required.

AUTOMATIC HEATING CURVE CONTROL

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



AND MORE

No backup

heater

7°C

О

35°C

5

•Cooling operation is possible.*

•Anti-Legionella function

•Possible to docking the boiler (Field supplied)

*Optional parts are required.

High Reliability

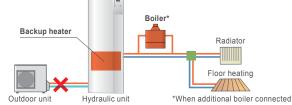
HIGH DURABILITY

- Corrosion protected
- •No flow switch and no filter necessary



EMERGENCY OPERATION

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



8kW 10kW NEW

Compact series

Comfort and energy saving realized by

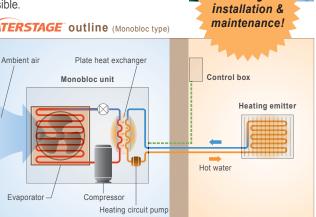
world's top class compact design



All-in-One Model

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.





High Efficiency Technology

DC INVERTER

Smooth water temperature control realized by DC inverter control.



DC FAN MOTOR

High performance, high efficiency small DC fan motor mounted.





HIGH EFFICIENT PLATE HEAT EXCHANGER



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

Easy

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.



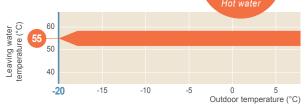
*Condition : Outdoor Temp. 7°C Heating Temp. 35°C.

heater

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



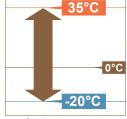
COMPACT & LIGHT WEIGHT DESIGN



WIDE OPERATION RANGE

Improved operation range down to -20°C outdoor temperature





Outdoor temperature

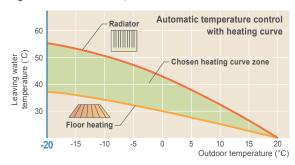
Intelligent Control

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

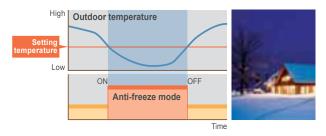
•Cooling operation is possible.

- •Anti-Legionella function
- •Possible to docking the boiler or electric heater for backup (Field supplied)

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".



•Operation status display •Error display

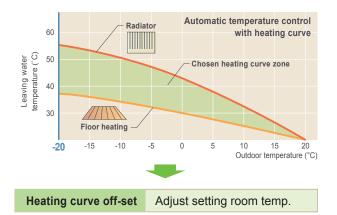
•plain text

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

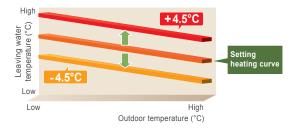
Comfort Control

Automatic heating curve operation

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



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



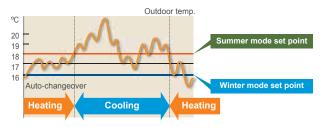
Auto-changeover

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.

Simple operation mode setting

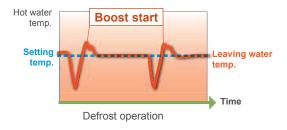
water operation

·Selecting the heating mode and Domestic hot



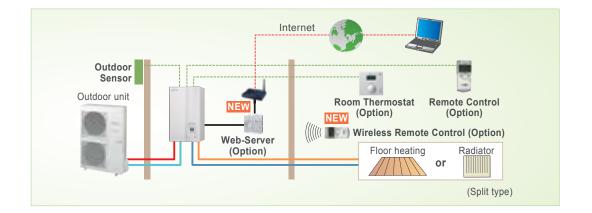
Quick recovery from defrost operation

Maintaining the room temperature during defrost operation by boost start operation



REMOTE CONTROL - EXTENSION

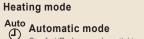
Various remote controls are available on your hand. Remote control is also available via Web. All kinds of life styles are supported.



Energy Saving

Programmable timer

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



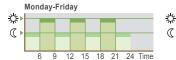
Comfort/Reduce mode switching automatically according to outdoor temperature

🔆 Comfort mode Constant comfort temperature

((Reduce mode Constant reduce temperature **Protection mode** Stand-by mode with anti-frost protection

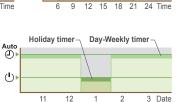
Day-Weekly timer setting

•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.



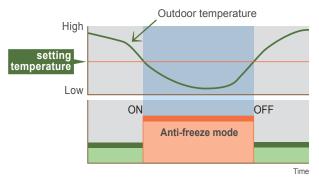
Saturday-Sunday

9

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.



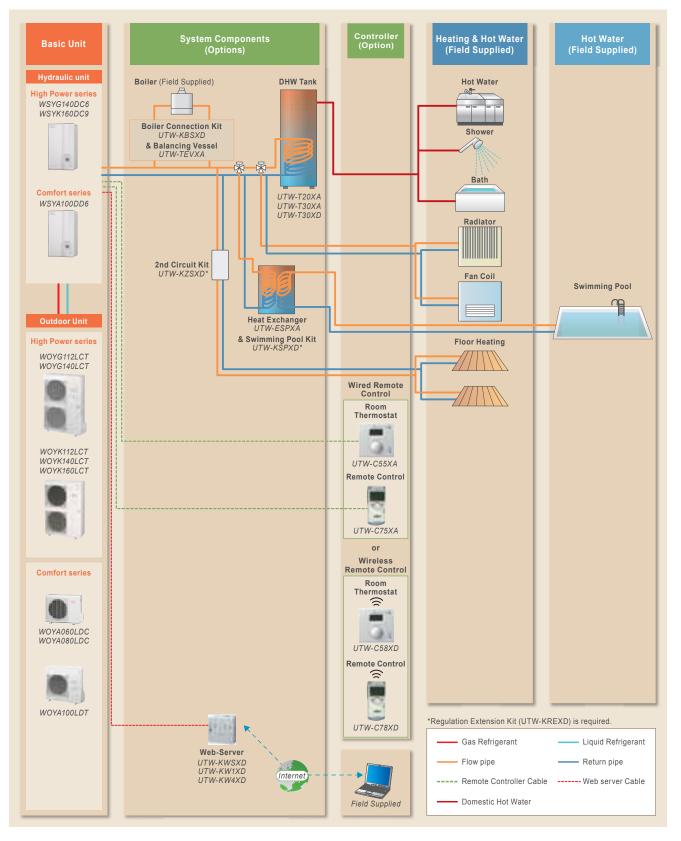


DHW Tank

SYSTEM CONFIGURATION

Total solution concept for comfort inside your home

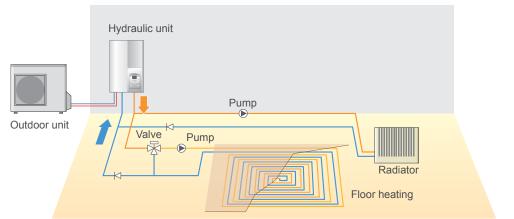
System configuration



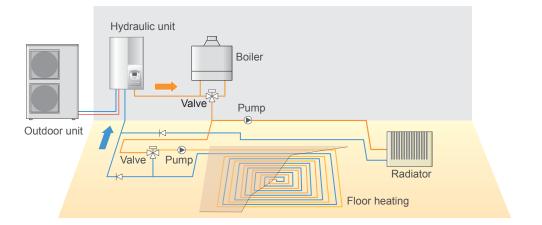
Split Case studies

2 emitter simultaneous heating (Individual control)

Floor heating + Radiator

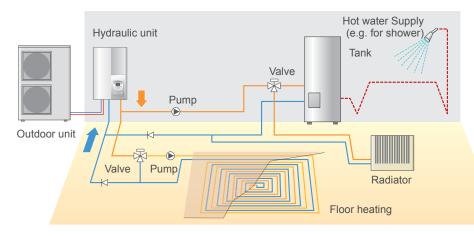


Boiler connected to heating (Boiler + Heating)



3 types of heat distribution

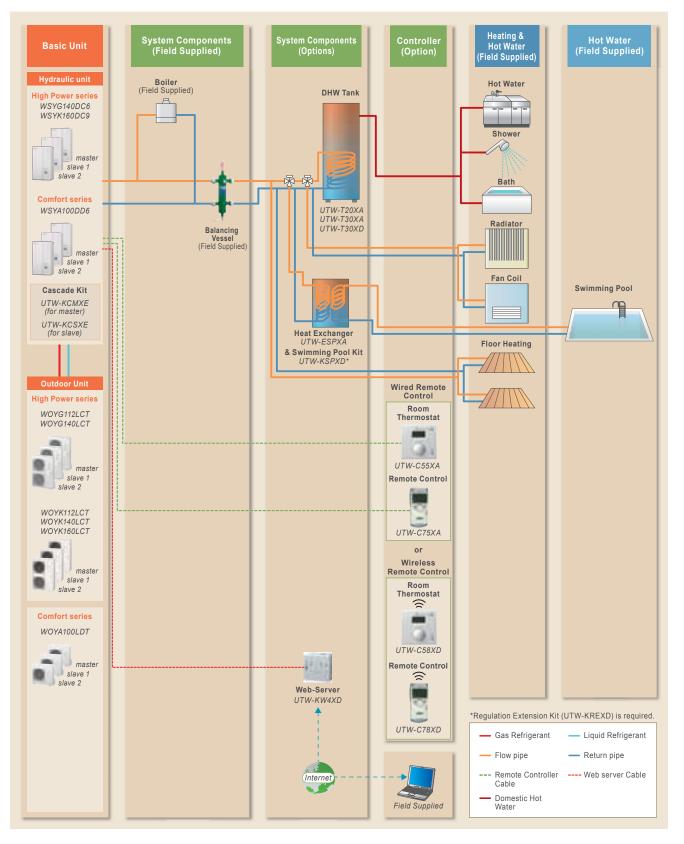




SYSTEM CONFIGURATION

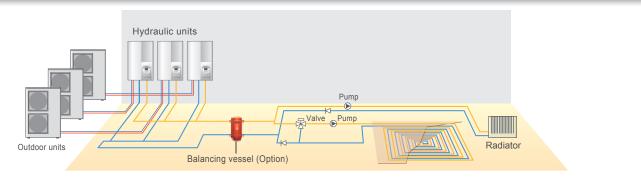
Total solution concept for comfort inside your home SPLIT TYPE

Cascade System configuration

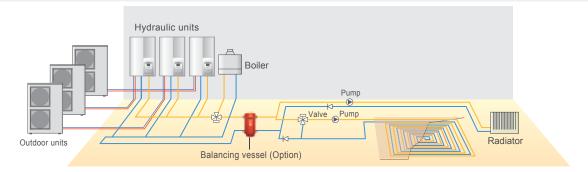


Split Cascade System Case studies

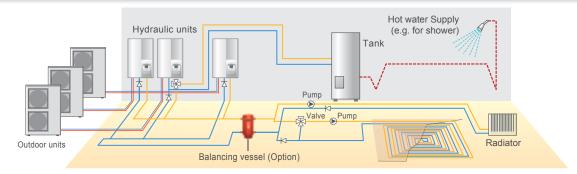
2 emitter simultaneous heating (Individual control)



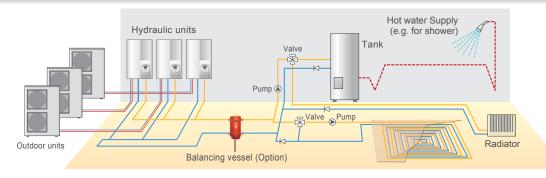
Boiler connected to heating (Boiler + Heating)



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

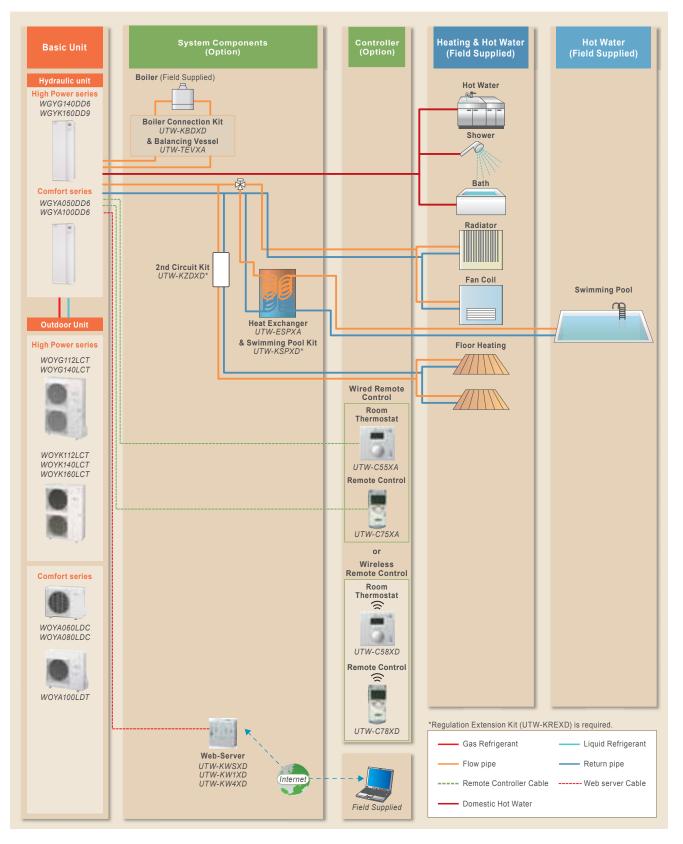


2 emitter simultaneous heating & Domestic Hot Water (type B)



SYSTEM CONFIGURATION

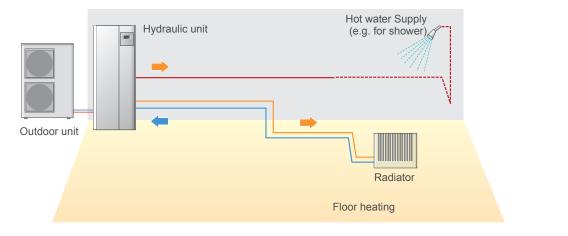
Total solution concept for comfort inside your home SPLIT DHW INTEGRATED TYPE System configuration



Split DHW integrated Case studies

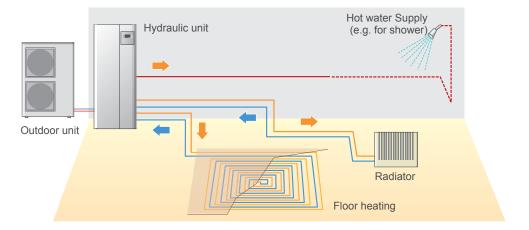
Single heating & Domestic Hot Water

Radiator + Domestic Hot Water

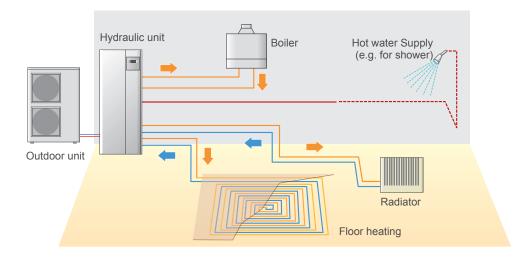


2 emiter simultaneous heating (Individual control) & Domestic Hot Water

Floor heating + Radiator + Domestic Hot Water

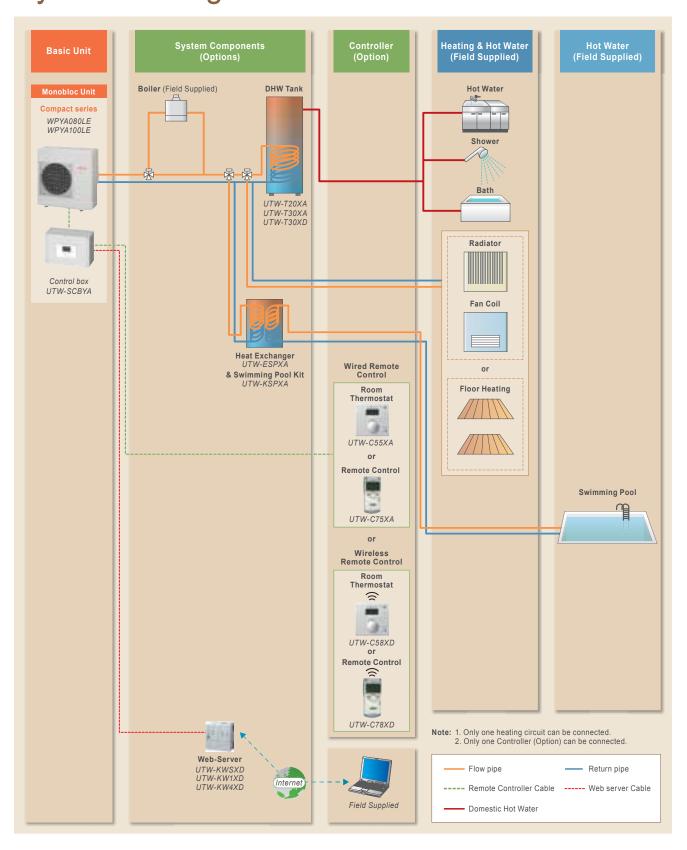


Boiler connected to heating (Boiler + Heating) & Domestic Hot Water



SYSTEM CONFIGURATION

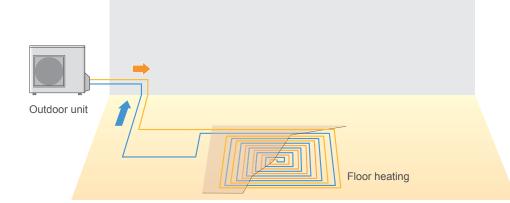
Total solution concept for comfort inside your home MONOBLOC TYPE System configuration



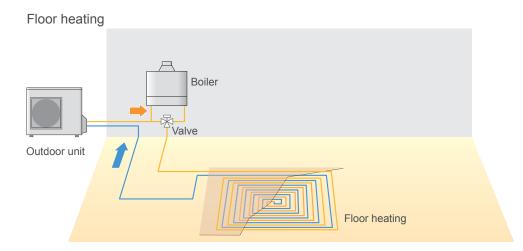
Monobloc Case studies

Single heating system

Floor heating

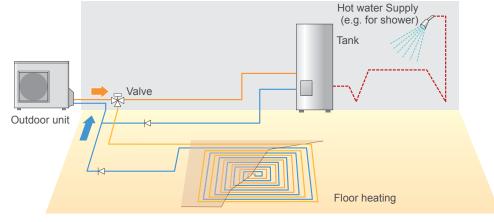


Boiler connected to heating (Boiler + Heating)



2 types of heat distribution





OPTIONAL PARTS

Optional Parts Compatibility

			Split							Mon	obloc			Split	t DHW	/ integ	rated	type				
Product Name		Model Name		Hi	gh Po	wer			Con	nfort		Con	npact		Hi	gh Po	wer			Con	nfort	
Product Name		MOUEI Marrie	1	Ø		3Ø				Ø		1	Ø	1	Ø		3Ø				Ø	
			11	14	11	14	16	5	6	8	10	8	10	11	14	11	14	16	5	6	8	10
2nd		UTW-KZSXD	•	•	•	•	•	•	•	•	•	_	_	_	_	_	_	_	_	_	_	_
Circuit Kit	T	UTW-KZDXD	_	—	—	—	—	_	—	—	_	_	_	•	•	•	•	•	•	•	•	•
Boiler	D	UTW-KBSXD	•	•	•	•	•	•	•	•	•	_	_	_	_	_	_	_	_	_	_	_
Connection kit	2	UTW-KBDXD	_	_	_	_	_	_	_	_	_	_	_	•	•	•	•	•	•	•	•	•
Balancing vessel	-	UTW-TEVXA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DHW kit	4	UTW-KDWXA	_	—	—	—	—	_	—	_	_	•	•	*1	*1	*1	*1	*1	*1	*1	*1	*1
		UTW-KDWXD	•	•	•	•	•	•	•	•	•	_	_	*1	*1	*1	*1	*1	*1	*1	*1	*1
DHW Expansion Vessel kit		UTW-KDEXE	_	_	_	_	_	_	_	_	_	_	_	•	•	•	•	•	•	•	•	•
DHW tank	200 Liter 300 Liter	UTW-T20XA UTW-T30XA	•	•	•	•	•	•	•	•	•	•	•	*1	*1	*1	*1	*1	*1	*1	*1	*1
	300 Liter	UTW-T30XD	•	•	•	•	•	•	•	•	•	•	•	*1	*1	*1	*1	*1	*1	*1	*1	*1
Circulating pump		UTW-PHFXD	•	•	•	•	•	_	—	—	_	_	_	•	•	•	•	•	_	_	_	_
Swimming Pool kit	J 💭	UTW-KSPXA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
- OOI NIL	-	UTW-KSPXD	•	•	•	•	•	•	•	•	•	_	_	•	•	•	•	•	•	•	•	•
Heat Exchanger for swimming pool kit	E.	UTW-ESPXA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cooling kit		UTW-KCLXD	•	•	•	•	•	•	•	•	•	*2	*2	•	•	•	•	•	•	•	•	•
Regulation Extension Kit		UTW-KREXD	•	•	•	•	•	•	•	•	•	_	_	•	•	•	•	•	•	•	•	•
Solar Regulation Kit	0:0	UTW-KSRXE	•	•	•	•	•	•	•	•	•	_	_	_	_	_	_	_	_	_	_	_
Mode Exchange Kit		UTW-KMEXE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Low Noise Kit		UTW-KLNXE	•	•	•	•	•	_	—	_	_	_	_	•	•	•	•	•	_	_	_	_
HMI Kit		UTW-KHMXE*5	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•

							Split					Mon	obloc			Spli	t DHW	/ integ	rated	type		
Decision and Marca		Madal Maria		Hi	gh Po	wer			Cor	nfort		Corr	npact		Hi	gh Po	wer			Con	nfort	
Product Nam	16	Model Name		ø		3Ø				Ø		1	Ø				3Ø				ø	
			11	14	11	14	16	5	6	8	10	8	10	11	14	11	14	16	5	6	8	10
	Wired	UTW-C75XA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Remote		UTW-C75XA-E*5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Controller	(r. Wireless	UTW-C78XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		UTW-C78XD-E*5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Room	Wired	UTW-C55XA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Thermostat	(r. Wireless	UTW-C58XD	•	• • • • • • • • • • • • •	•	•	•	•	•	•												
Outdoor Senso Transmitter	or (((.	UTW-MOSXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RF Modules	for X60-Port	UTW-M60XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	for BSB-Port	UTW-MRCXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Web server	E.C.	UTW-KWSXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		UTW-KW1XD UTW-KW4XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cascade Maste (incl. LPB Clip)		UTW-KCMXE	•	•	•	•	•	_	_	_	•	_	_	_	_	_	_	_	_	_	_	_
Cascade Slave (incl. LPB Clip)	e Kit	UTW-KCSXE	•	•	•	•	•	_	_	_	•	_	_	_	_	_	_	_	_	_	_	_
LPB Clip	L)	UTW-KL1XD	•	•	•	•	•	•	•	•	•	_	_	•	•	•	•	•	•	•	•	•
Base Heater	¢	UTZ-HAMXE	_	_	_	_	_	_	_	_	_	•	•	_	_	_	_	_	_	_	_	_
Service Tool (incl.OCI700 ad	daptor)	UTW-KSTXD	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•	•	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•*3
Service Tool Software	C	UTW-KPSXD	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4

*1: DHW operation is possible without DHW Kit and DHW Tank. *2: Cooling operation is possible without cooling kit

*3: UTW-KL1XD is required for the connection. *4: UTW-KSTXD(OCI700 adaptor not included), UTW-KW1XD or UTW-KW4XD is required for the connection.

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

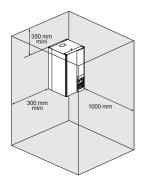
• : Available — : Not Available

INSTALLATION INFORMATION

Installation Limitations

Equipment Installation

Split Type Hydraulic unit

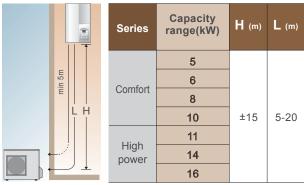


- Hydraulic unit is to be hang on the wall
- Weight < 60kg (including water)
- Distances for maintenance should be respected

Piping and Wiring

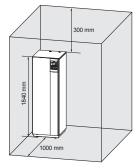
Piping

Split Type



Electrical wiring

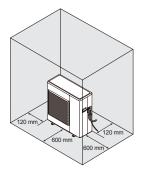




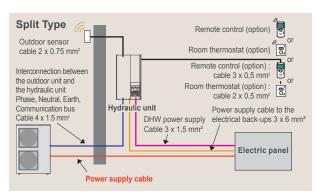
Floor stand

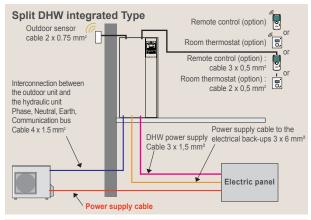
- Weight:366kg (including water)
- Distances for maintenance should be respected.

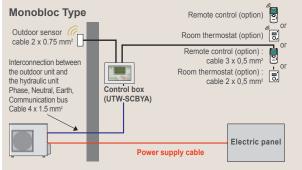
Monobloc Type Outdoor unit



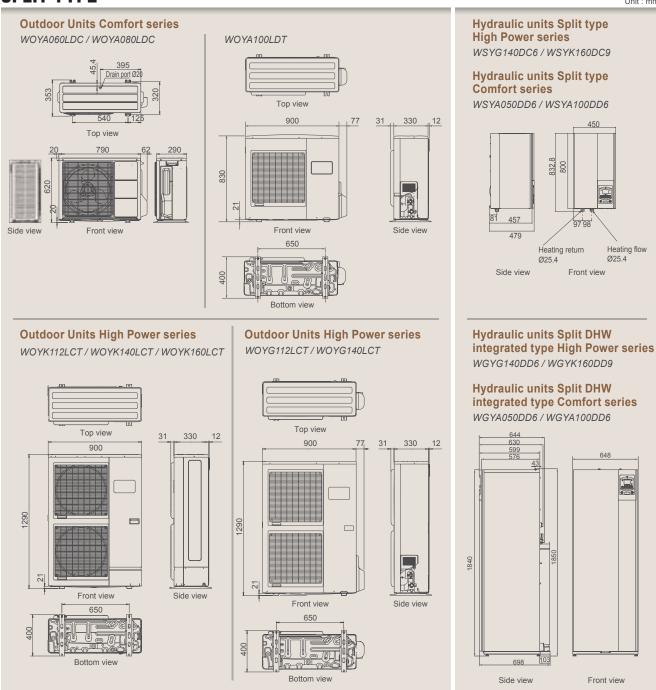
- Floor stand
- · Weight 74 kg (without water)
- Distances for maintenance
- should be kept



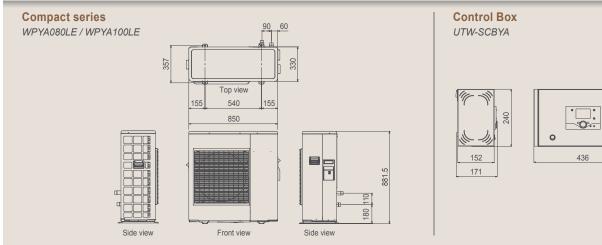




SPLIT TYPE



MONOBLOC TYPE



Unit : mm

SPECIFICATIONS

Туре								Split type							
Series na	me				Hi	gh Power seri	ies		Comfort series						
					0		. 0					. 0			
Capacity	range (kW)			11	14	11	14	16	5	6	8	10			
		Heating capacity	kW	10.80	13.50	10.80	13.50	15.17	4.50	6.00	7.50	10.00			
+7°C / +3	5°C floor heating *1	Input power		2.54	3.23	2.51	3.20	3.70	0.996	1.41	1.84	2.49			
		COP		4.25	4.18	4.30	4.22	4.10	4.52	4.27	4.08	4.02			
		Heating capacity	kW	10.77	12.00	10.77	13.00	13.50	4.50	4.95	5.65	7.70			
+2°C7+3	5°C floor heating*1	Input power		3.44	3.87	3.40 3.17	4.15 3.13	4.34	1.39 3.24	1.53 3.24	1.78	3.12			
		COP								-					
-7°C / +35°C floor heating *1		Heating capacity	kW	10.80 4.32	12.00 5.08	10.80	13.00 5.18	13.50 5.40	4.10	4.60	5.70 2.23	7.40			
-/ 0/+30	C noor nearing	Input power COP		2.50	2.36	4.28 2.52	2.51	2.50	2.79	2.64	2.23	2.97			
	Heating capa			9.23	11.54	10.10	12.60	13.00	4.50	5.10	6.20	8.27			
+7°C / +4	5°C radiators *1	Input power	kW	2.84	3.72	3.01	3.81	4.00	1.30	1.50	1.87	2.53			
17 07 14		COP		3.25	3.10	3.35	3.30	3.25	3.46	3.40	3.31	3.27			
		Heating capacity		9.16	11.45	10.02	12.50	13.00	4.10	4.45	5.05	7.40			
-7°C / +45	°C radiators *1	Input power	kW	4.58	5.92	4.63	6.00	6.37	1.86	2.04	2.47	3.70			
101.40	O Iddiatoro	COP		2.00	1.93	2.16	2.08	2.04	2.20	2.18	2.04	2.00			
Backup h	eater	Capacity	kW×pcs.	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	9.0(3.0 × 3pcs.)	9.0(3.0 × 3pcs.)	9.0(3.0 × 3pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)			
Hydraulic			del name		140DC6		WSYK160DC9		WSYA050DD6		WSYA100DD6				
Power source				1Ø 230	V, 50Hz		3Ø 400V, 50Hz			1Ø 230	V, 50Hz				
Water circulation		Rated	L/min	31.2	39.0	31.2	39.0	43.8	13.00	17.33	21.66	28.88			
water cire	culation	Min / Max				25.0 / 50.0			8.1/16.2	10.8/21.7	13.5/27.1	18.1/36.1			
Dimensio	ns H×W×D		mm			800 × 450 × 457		800 × 450 × 457							
Weight (N	let)		kg			42		42							
Buffer tar	k capacity		L			16		16							
Expansio	n vessel capacity		L			8			8						
Leaving v	vater temperature ra	ange	°C			8~60			8 ~ 55						
Water pipe	connection diameter	Flow / Return	mm			Ø25.4 / Ø25.4			Ø25.4 / Ø25.4						
Outdoor u	unit	Mo	del name	WOYG112LCT	WOYG140LCT	WOYK112LCT	WOYK140LCT	WOYK160LCT	WOYA	060LDC	WOYA080LDC	WOYA100LDT			
Power so	urce			1Ø 230	V, 50Hz		3Ø 400V, 50Hz				V, 50Hz				
Current		Rated	A	11.4	14.2	3.7	4.8	5.5	4.5	6.3	8.1	10.9			
		Max		22.0	25.0	8.5	9.5	10.5	11.0	12.5	17.5	18.5			
	el (Sound pressure)	dB(A)	55 *2	56 *2	53 *2	55*2	56 *2	48* ²	51* ²	56 *2	55*2			
	ns H×W×D		mm			1290 × 900 × 330				620 × 790 × 290		830×900×330			
Weight (N	,		kg	g	2		99		4		42	60			
Refrigera						R410A					10A	4.00			
Refrigerant amount kg						2.50				10	1.40	1.80			
Additiona	I refrigerant charge	g/m			50		2	0	20	40					
	Diameter	Liquid Gas	mm			Ø9.52				Ø6.35 2.70	~	Ø9.52 5.88			
Connection	Laweth		mm			Ø15.88			Ø1.	-		5.88			
pipe	Length	Min / Max	m			5 / 20					20				
	Length (chargeless)	Max	m			15 15			15						
Operation	Height difference	Max Heating	m °C			-25~35									
operation	пануе	пеашу				-25~35			-20 ~ 35						

Туре				loc type			
Series name			Compa	ct series			
			0				
Capacity range (kW)				10			
	Heating capacity	kW	8.00	10.00			
+7°C / +35°C floor heating *1	Input power	KVV	1.78	2.30			
	COP		4.50	4.35			
	Heating capacity	kW	7.40	8.10			
+2°C / +35°C floor heating*1	Input power	KVV.	2.73	3.00			
	COP		2.71	2.70			
	Heating capacity	kW	7.10	8.00			
-7°C / +35°C floor heating *1	Input power	KVV	2.93	3.32			
	COP		2.42	2.41			
	Heating capacity	kW	7.80	9.80			
+7°C / +45°C radiators *1	Input power	KVV	2.23	2.88			
	COP		3.50	3.40			
	Heating capacity	kW	6.50	7.00			
-7°C / +45°C radiators *1	Input power	KVV	2.98	3.31			
	COP		2.18	2.11			
Monobloc unit	Mo	del name	WPYA080LE	WPYA100LE			
Power source		_	1Ø 230	IV, 50Hz			
Water circulation	Rated	L/min	22.9	28.7			
Water circulation	Min / Max	L/11111	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	7	74			
Water pipe connection diameter	Flow / Return	mm	Ø25.4	/ Ø25.4			
Refrigerant			R4	10A			
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.

me				Split DHW integrated type											
				Hi	gh Power seri				Comfo	t series					
ange (kW)			11	14	11	14	16	5	6	8	10				
	Heating capacity	100/	10.80	13.50	10.80	13.50	15.17	4.50	6.00	7.50	10.00				
°C floor heating *1	Input power	KVV	2.54	3.23	2.51	3.20	3.70	0.996	1.41	1.84	2.49				
	COP		4.25	4.18	4.30	4.22	4.10	4.52	4.27	4.08	4.02				
	Heating capacity	L\\/	10.77	12.00	10.77	13.00	13.50	4.50	4.95	5.65	7.70				
°C floor heating *1	Input power	K.V.V	3.44	3.87	3.40	4.15	4.34	1.39	1.53	-	2.47				
	COP		3.13	3.10	3.17	3.13	3.11	3.24	3.24	3.17	3.12				
	Heating capacity	L\\/	10.80	12.00	10.80	13.00	13.50	4.10	4.60	5.70	7.40				
7°C / +35°C floor heating *1 Input		KVV	4.32	5.08	4.28	5.18	5.40	1.47	1.74	2.23	2.97				
	COP		2.50	2.36	2.52	2.51	2.50	2.79	2.64	2.56	2.49				
	Heating capacity	1.1.0./	9.23	11.54	10.10	12.60	13.00	4.50	5.10	6.20	8.27				
°C radiators *1	Input power	KVV	2.84	3.72	3.01	3.81	4.00	1.30	1.50	1.87	2.53				
	COP		3.25	3.10	3.35	3.30	3.25	3.46	3.40	3.31	3.27				
	Heating capacity	1.3.47	9.16	11.45	10.02	12.50	13.00	4.10	4.45	5.05	7.40				
°C radiators *1	Input power	KVV	4.58	5.92	4.63	6.00	6.37	1.86	2.04	2.47	3.70				
	COP		2.00	1.93	2.16	2.08	2.04	2.20	2.18	2.04	2.00				
eater	Capacity	kW×pcs.	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	9.0(3.0 × 3pcs.)	9.0(3.0 × 3pcs.)	9.0(3.0 × 3pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)				
Hydraulic unit Model name				140DD6		WGYK160DD9		WGYA050DD6		WGYA100DD6					
urce			1Ø 230	V, 50Hz		3Ø 400V, 50Hz			1Ø 230	V, 50Hz					
	Rated	L (min	31.2	39.0	31.2	39.0	43.8	13.00	17.33	21.66	28.88				
ulation	Min / Max	L/min			25.0 / 50.0			8.1/16.2	10.8/21.7	13.5/27.1	18.1/36.1				
ns H×W×D		mm			1840 × 648 × 698	3		1840 × 6	48 × 698						
et)		kg			152			1	52						
acity		L			190		1	90							
heater capacity		kW			1.5	1.5									
k capacity		L			16			16							
vessel capacity		L			12			12							
ater temperature ra	ange	°C			8~60		8~55								
connection diameter	Flow / Return	mm			Ø25.4 / Ø25.4										
pipe diameter		mm		(Ir	nlet/Outlet) Ø19.0)5			(Inlet/Outle	et) Ø19.05					
nit	Mo	del name	WOYG112LCT	WOYG140LCT	WOYK112LCT		WOYK160LCT	WOYA	060LDC	WOYA080LDC	WOYA100LDT				
urce			1Ø 230	V, 50Hz		3Ø 400V, 50Hz			1Ø 230	V, 50Hz					
	Rated		11.4	14.2	3.7	4.8	5.5	4.5	6.3	8.1	10.9				
	Max	A	22.0	25.0	8.5	9.5	10.5	11.0	12.5	17.5	18.5				
el (Sound pressure)		dB(A)	55 ^{*2}	56 *2	53 *2	55 *2	56 *2	48 *2	51 *2	56 *2	55 ^{*2}				
ns H×W×D		mm		1	1290 × 900 × 330)	1		620 × 790 × 290		830×900×330				
et)		kg	ç	2		99		4	1	42	60				
it					R410A				R4	10A					
Refrigerant amount kg					2.50		1.	10	1.40	1.80					
• 0															
· ·	Liquid	mm			Ø9.52				Ø6.35		Ø9.52				
Diameter	Gas	mm			Ø15.88			Ø1:		Ø1	5.88				
Length	Min / Max	m													
Length (chargeless)	Max	m			15					-					
Height difference	Max	m			15			15							
							-20 ~ 35								
	*C floor heating *1 *C floor heating *1 C floor heating *1 C floor heating *1 C floor heating *1 *C radiators *1 C radiators *1 C radiators *1 C radiators *1 C radiators *1 eater unit urce ulation tree ulation tree to connection diameter pipe diameter nit urce el (Sound pressure) ts H×W×D et) tt t amount refigerant charge Diameter Length	"C floor heating "1 Input power COP Heating capacity "C floor heating "1 Input power COP COP "C floor heating "1 Input power COP Heating capacity "C radiators "1 Input power "C radiators "1 Input power COP Heating capacity "C radiators "1 Input power COP Heating capacity "C radiators "1 Input power COP Capacity unit Mo urce Rated ulation Rated Min / Max Heater capacity k capacity vessel capacity tare temperature range connection diameter pipe diameter Flow / Return nit Mo vessel capacity vessel capacity vessel capacity vess	$\begin{tabular}{ c $	"C floor heating "1 Heating capacity Input power kW 10.80 "C floor heating "1 Input power kW 2.54 "C floor 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4.10 4.50 4.42 4.10 4.50 4.43 4.30 4.22 4.10 4.50 4.95 5.55 5.55 5.55 5.65 5.65 5.65 5.65 5.65 5.65 5.65 5.65 5.65 5.65 4.13 3.13 3.11 3.24 3.24 3.24 3.77 2.256 2.256 2.256 2.256 2.256 2.256 2.256 2.256 2.266 2.251 2.250 2.76 2.264 3.31 3.61 4.00 1.300 4.50 5.10 6.20 ° rindiator *' Input power NV 2.265 3.10 3.35 3.30 3.25 3.30 3.31 1.67 5.00 2.20 2.66 2.261 2.261				

*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.

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