FUJITSU





SPLIT TYPE SPLIT DHW INTEGRATED TYPE MONOBLOC TYPE



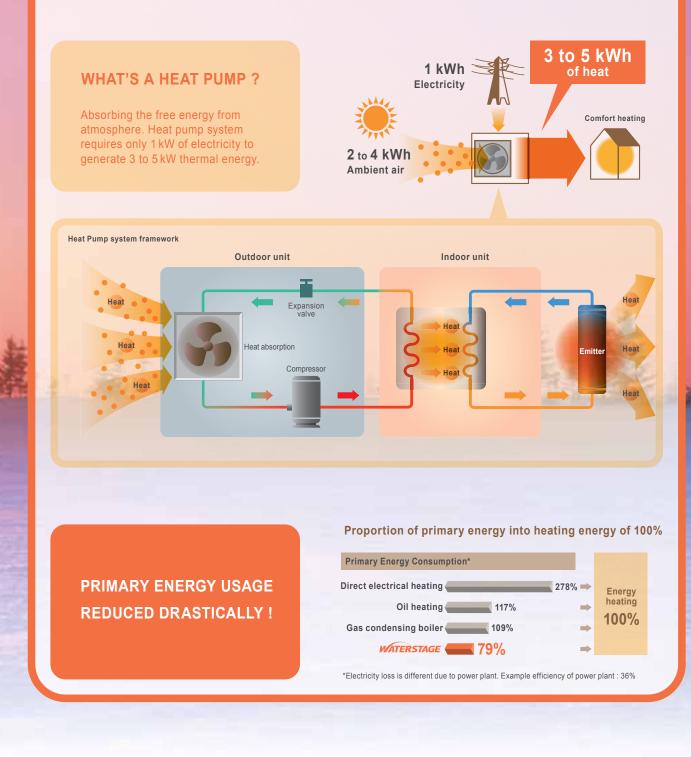
FUJITSU GENERAL LIMITED



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



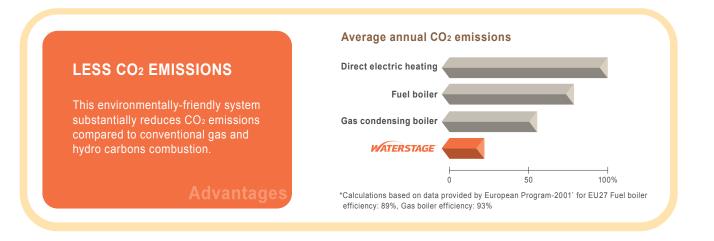
Environmentally friendly water heating system applying heat pump technology that collects heat from the outdoor air

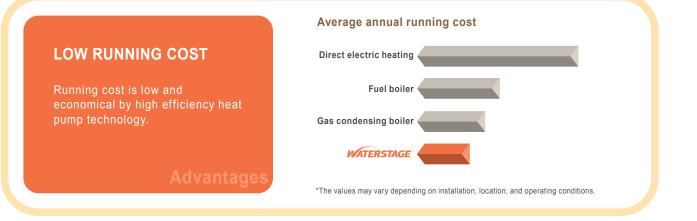


WATERSTAGE[®] makes an Economical and Clean hot water heating system by Heat Pump



Advantages of WATERSTAGE





CLEAN AND HEALTHY

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

Advantages



Clean Air Conditioning



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

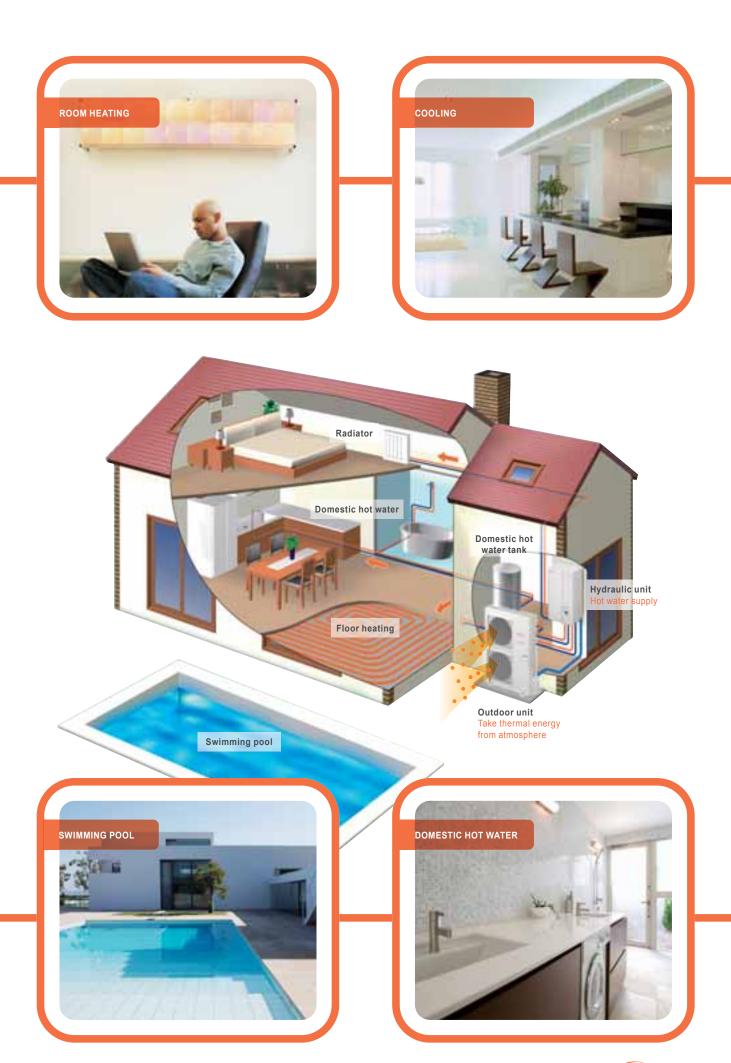


Complete Solution meets various needs

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 Capacity range :	11/14 kW 11/14/16 kW	Outdoor unit NEW NEW					
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 function 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* r 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	•	1Ø 230V / 50Hz	3Ø 400V / 50Hz	1Ø 230V / 50Hz					
	5 kW								
	6 kW								
	8 kW								
Capacity	10 kW								
range	11 kW								
	14 kW								
	16 kW								

		SPLIT DHW INT	EGRATED TYPE		MONOBLOC TYPE
	High pov	ver series	Comfort s	eries	Compact series
-	Usable outdoor temperature: -25°C	NEW	Usable outdoor temperature: -20°C	NEW	Usable outdoor temperature: -20°C
		Hydraulic unit	Hyd	raulic unit	Control box
	Outdoor unit		Outdoor unit	W 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 Powerful heating capa at low outdoor temper Different heating syst Like floor heating, race Heating and DHW spa hydraulic unit. Outdoor low noise fur Energy saving peak c Additional electric heat provided Up to two independer 	acity supplied even rature em can be used. liators and others* ace saving in one action* ut function* ater for backup	 55°C hot water supply extemperature Floor heating and radiate together. Heating and DHW space hydraulic unit. Additional electric heate provided Up to two independent compared to the space of th	ors can be used saving in one r for backup	 55°C hot water supply even at -20°C outdoor temperature Heating and DHW in one system.* Antifreeze function One control circuit connectable.*
	1Ø 230V / 50Hz	3Ø 400V / 50Hz	1Ø 230V /	50Hz	1Ø 230V / 50Hz
			•		
			•		
			•		
	_		•		
_	•				

*Optional parts are required.

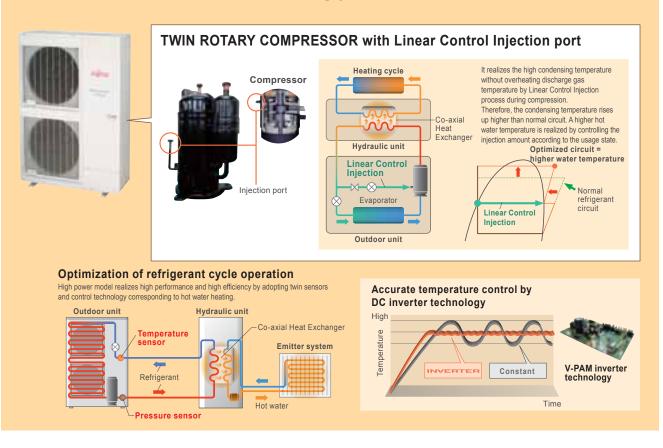
SPLIT TYPE

High Power series



High Power & High Efficiency Outdoor unit technology

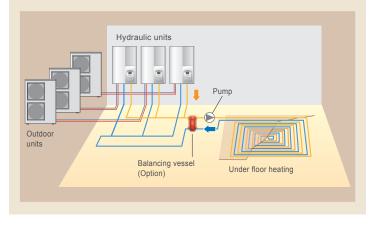
WOYK160LCT



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.

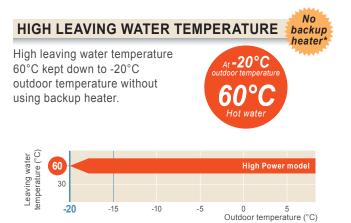


SPLIT TYPE

High Power series

Powerful Heating

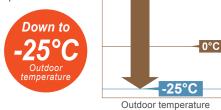
High power models realize high leaving water temperature and high heating capacity even at low ambient temperature by newly developed "Linear Control Injection Technology". It is possible to provide high water temperature and warm rooms in cold regions.



* 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

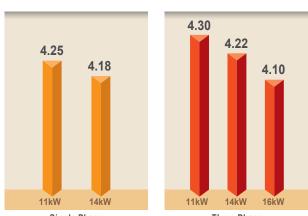
Keeping the rated heating capacity up to -7°C outdoor temperature



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



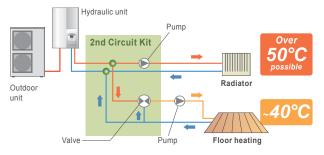
Single Phase

Three Phase



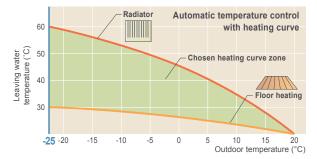
Intelligent Control

2 ZONE INDIVIDUAL CONTROL*



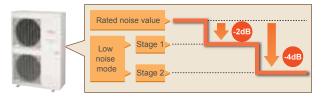
AUTOMATIC HEATING CURVE CONTROL

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



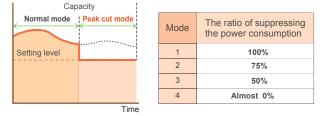
2 STAGE LOW NOISE MODE*

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

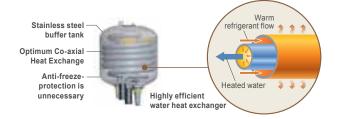
•Web server can be connected.*

High Reliability

HIGH DURABILITY

Corrosion protected

•No flow switch and no filter necessary



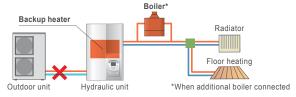
EASY INSTALLATION & MAINTENANCE

•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.





Comfort series



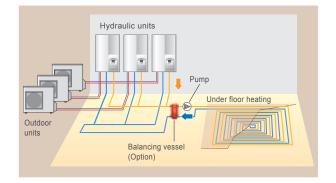
Outdoor unit WOYA060LDC WOYA080LDC

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

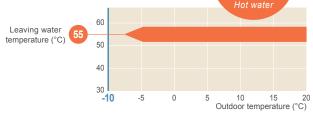


High Efficiency & Comfort



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



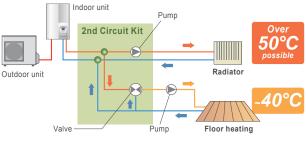


35°C



Intelligent Control

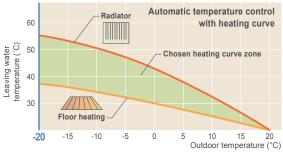
2 ZONE INDIVIDUAL CONTROL*



^{*}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

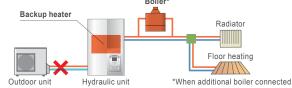
HIGH DURABILITY

- 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.

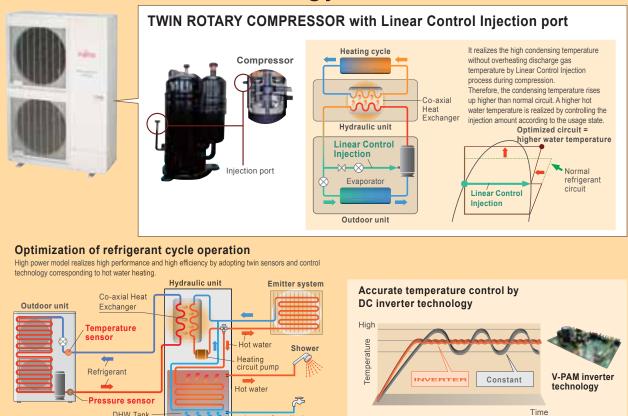


SPLIT DHW INTEGRATED TYPE High Power series



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



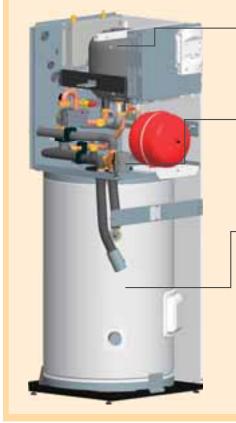
Supplied water

DHW Tank



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



HIGH EFFICIENT CO-AXIAL HEAT EXCHANGER



Co-axial Heat Exchanger

HIGH EFFICIENCY CLASS A PUMP



Energy saving

Energy saving pump with constant volume or pressure adjustment function.

HIGH PERFORMANCE DHW TANK 190L



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

surface - Parallel DHW and space heating operation possible.

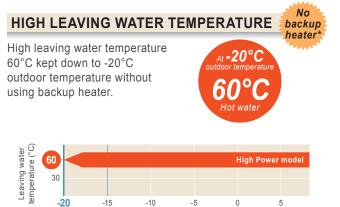


SPLIT DHW INTEGRATED TYPE

High Power series

Powerful Heating

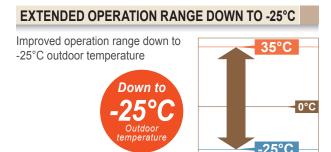
High power models realize high leaving water temperature and high heating capacity even at low ambient temperature by newly developed "Linear Control Injection Technology". It is possible to provide high water temperature and warm rooms in cold regions.



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

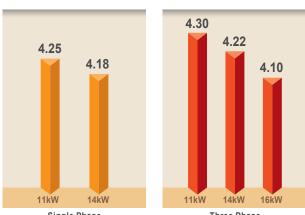
Keeping the rated heating capacity up to -7°C outdoor temperature



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.

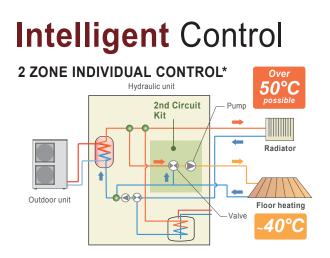
HIGH COP



Single Phase

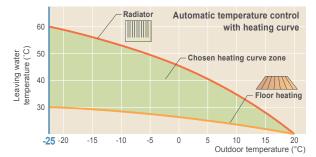
Three Phase





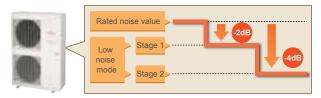
AUTOMATIC HEATING CURVE CONTROL

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



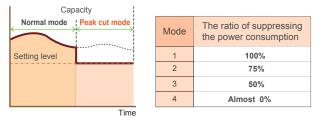
2 STAGE LOW NOISE MODE*

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

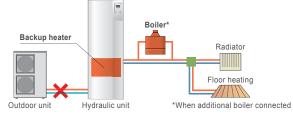
•All hydraulic safety & controlling components built in, no additional selection required

•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

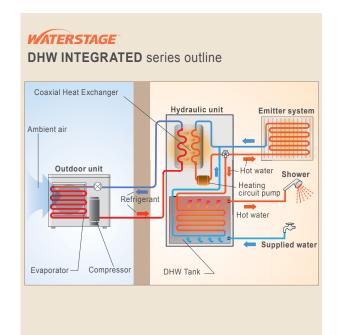
Comfort series



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.



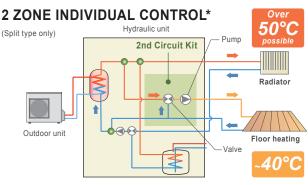
* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.

WIDE OPERATION RANGE

Improved operation range down to -20°C outdoor temperature



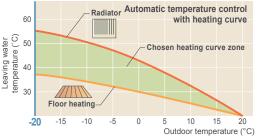
Intelligent Control



*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

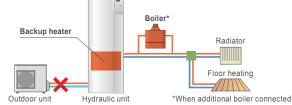
HIGH DURABILITY

- 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.



MONOBLOC TYPE

Compact series



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

DC TWIN ROTARY COMPRESSOR

High efficient DC twin rotary compressor

Compact & High Performance

HIGH COP

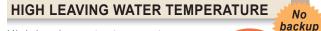
High COP is realized by using a DC twin rotary compressor, inverter technology, and high efficient water heat exchanger.



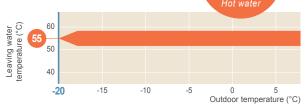
*Condition : Outdoor Temp. 7°C Heating Temp. 35°C.

heater

20°



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



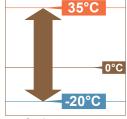
COMPACT & LIGHT WEIGHT DESIGN



WIDE OPERATION RANGE

Improved operation range down to -20°C outdoor temperature





Outdoor temperature

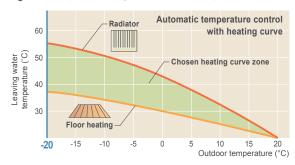
Intelligent Control

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

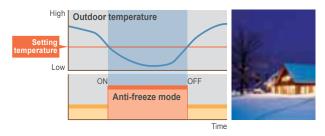
•Cooling operation is possible.

- •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

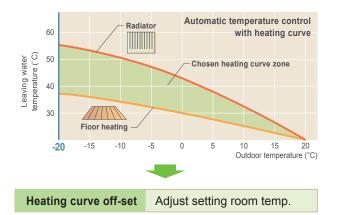
•plain text

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

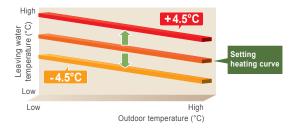
Comfort Control

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.



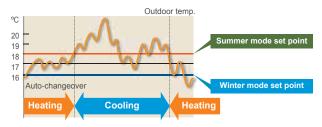
Auto-changeover

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

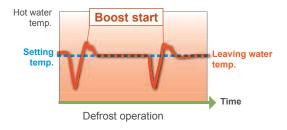
water operation

·Selecting the heating mode and Domestic hot



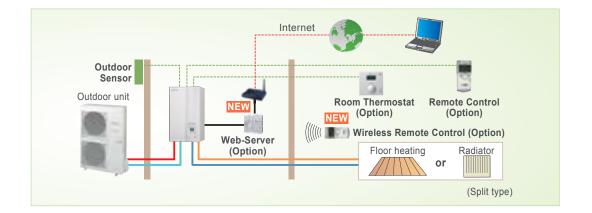
Quick recovery from defrost operation

Maintaining the room temperature during defrost operation by boost start operation



REMOTE CONTROL - EXTENSION

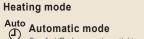
Various remote controls are available on your hand. Remote control is also available via Web. All kinds of life styles are supported.



Energy Saving

Programmable timer

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



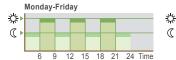
Comfort/Reduce mode switching automatically according to outdoor temperature

🔆 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.



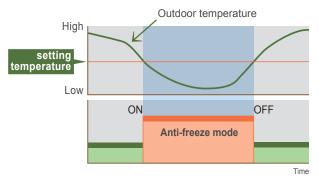
Saturday-Sunday

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.



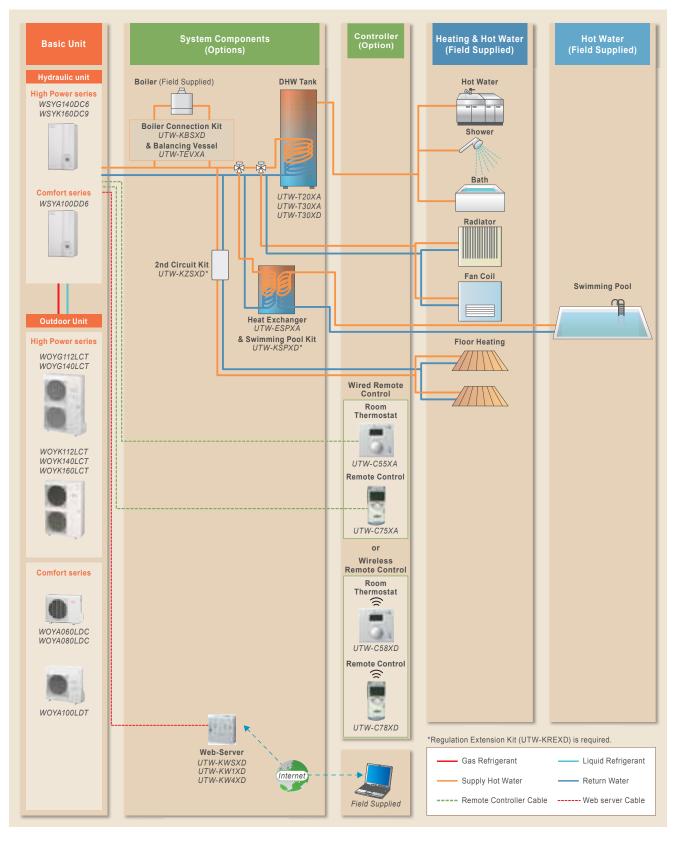


DHW Tank

SYSTEM CONFIGURATION

Total solution concept for comfort inside your home

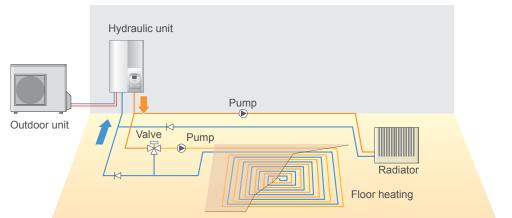
System configuration



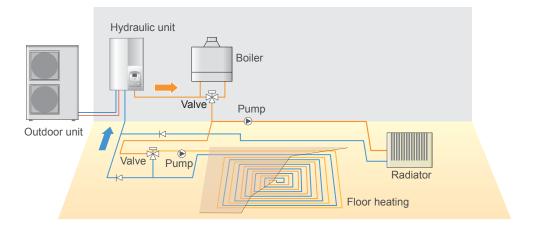
Split Case studies

2 emitter simultaneous heating (Individual control)

Floor heating + Radiator

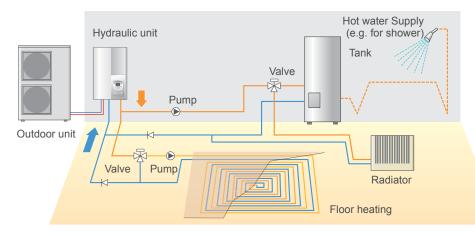


Boiler connected to heating (Boiler + Heating)



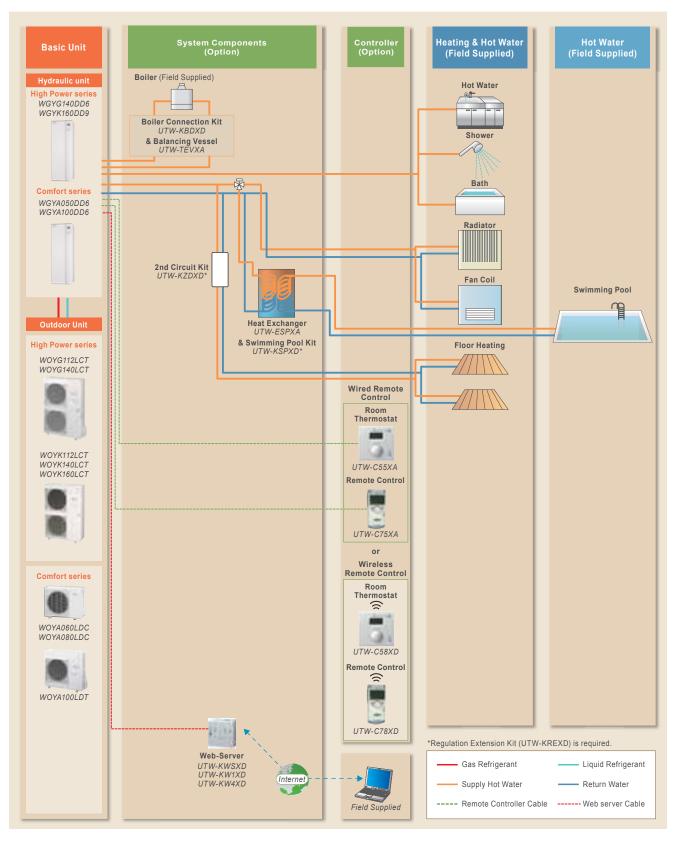
3 types of heat distribution





SYSTEM CONFIGURATION

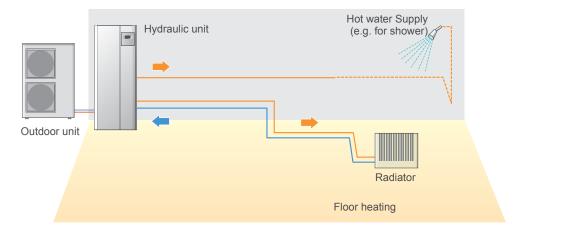
Total solution concept for comfort inside your home SPLIT DHW INTEGRATED TYPE System configuration



Split DHW integrated Case studies

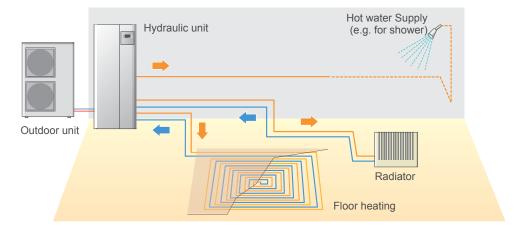
Single heating & Domestic Hot Water

Radiator + Domestic Hot Water

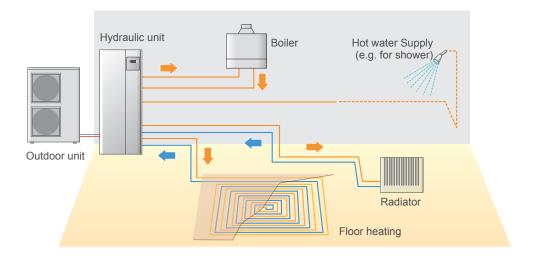


2 emiter simultaneous heating (Individual control) & Domestic Hot Water

Floor heating + Radiator + Domestic Hot Water

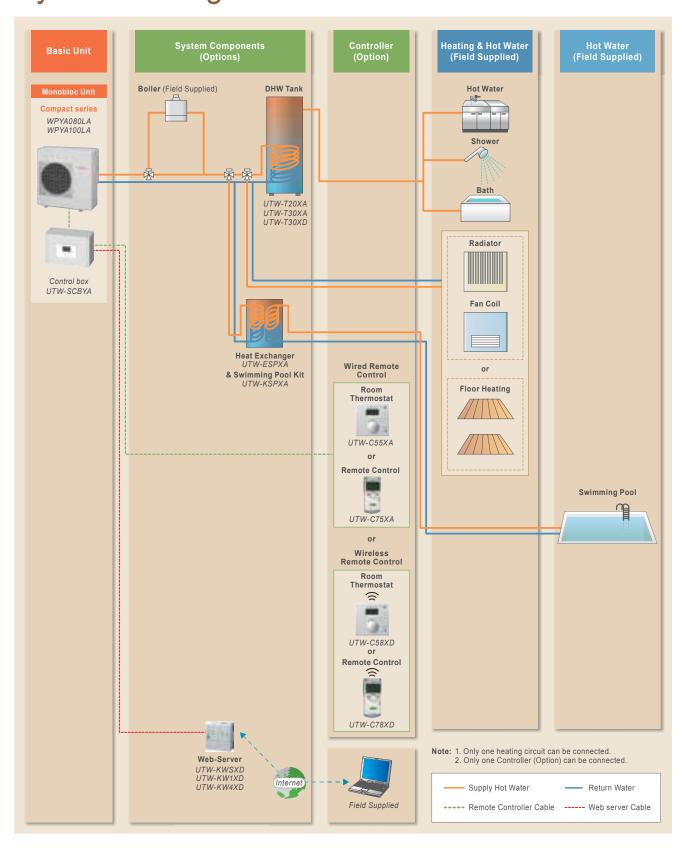


Boiler connected to heating (Boiler + Heating) & Domestic Hot Water



SYSTEM CONFIGURATION

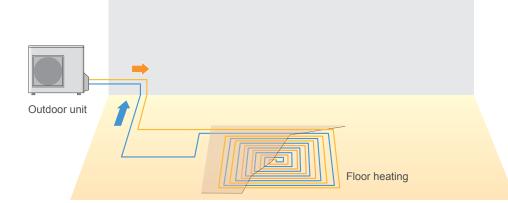
Total solution concept for comfort inside your home MONOBLOC TYPE System configuration



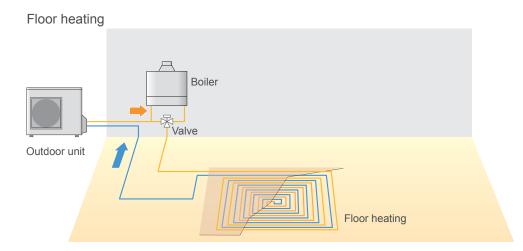
Monobloc Case studies

Single heating system

Floor heating

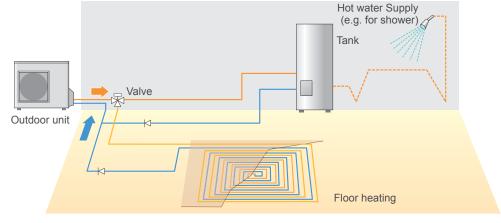


Boiler connected to heating (Boiler + Heating)



2 types of heat distribution



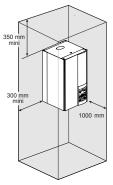


INSTALLATION INFORMATION

Installation Limitations

Equipment Installation

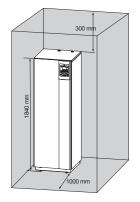
Split Type Hydraulic unit



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

(mm)

Split DHW integrated Type Hydraulic unit



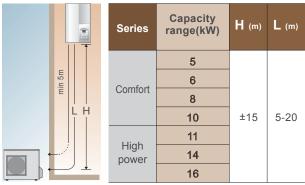
Floor stand

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

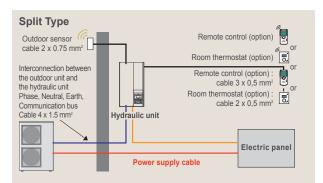
Piping and Wiring

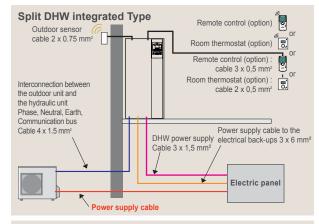
Piping

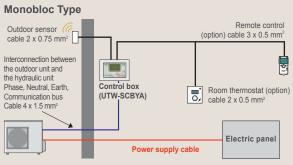
Split Type



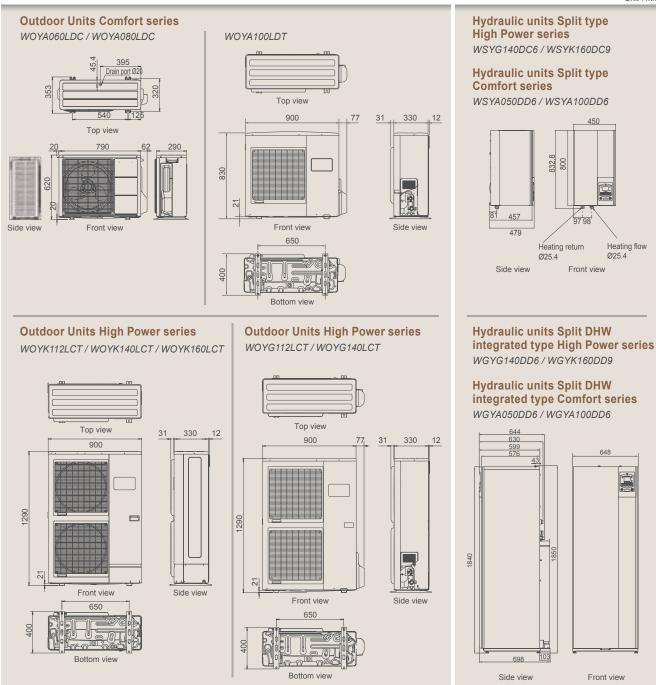
Electrical wiring



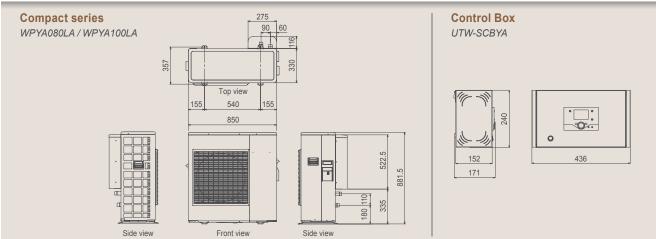




SPLIT TYPE



MONOBLOC TYPE



Unit : mm

OPTIONAL PARTS

Optional Parts Compatibility

Product Name		Model Name	1	Hi <u>j</u> Ø	gh Po		Split			nfort Ø		Com	obloc ipact Ø	1	Hi Ø	Split gh Po	t DHW wer 3Ø	/ integ	rated	Con	nfort Ø	
			11	9 14	11	3Ø 14	16	5	6		10	8	ھ 10	11	ھ 14	11	14	16	5	6	8	10
2nd		UTW-KZSXD	•	•	•	•	•	•	•	•	•	_	_	_	_	_	—	-	—	—	_	-
Circuit Kit	NEW	UTW-KZDXD	_	_	_	_	_	_	_	_	_	_	_	•	•	•	•	•	•	•	•	•
Boiler	D	UTW-KBSXD	•	•	•	•	•	•	•	•	•	_	_	_	_	_	_	_	_	_	_	_
Connection Kit	NEW	UTW-KBDXD	_	_	—	—	—	-	_	-	—	_	_	•	•	•	•	•	•	•	•	•
Balancing Vessel	-	UTW-TEVXA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DHW Kit		UTW-KDWXA	_	_	—	_	_	_	_	—	_	•	•	*1	*1	*1	*1	*1	*1	*1	*1	*1
Britting		UTW-KDWXD	•	•	•	•	•	•	•	•	•	_	_	*1	*1	*1	*1	*1	*1	*1	*1	*1
DHW Expansion Kit	NEW	UTW-KDEXE	_	_	_	_	_	_	_	_	_	_	_	•	•	•	•	•	•	•	•	•
DHW Tank	200 Liter	UTW-T20XA	•	•	•	•	•	•	•	•	•	•	•	*1	*1	*1	*1	*1	*1	*1	*1	*1
	300 Liter	UTW-T30XA UTW-T30XD	•	•	•	•	•	•	•	•	•	•	•	*1	*1	*1	*1	*1	*1	*1	*1	*1
Circulating Pump		UTW-PHFXD	•	•	•	•	•	_	_	_	_	_	_	•	•	•	•	•	_	_	_	_
Swimming	J 🖉	UTW-KSPXA	_	—	_	_	_	_	_	—	_	•	•	_	_	_	_	_	_	_	_	_
Pool Kit	-	UTW-KSPXD	•	•	•	•	•	•	•	•	•	_	_	•	•	•	•	•	•	•	•	•
Heat Exchanger Swimming Pool I		UTW-ESPXA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cooling Kit		UTW-KCLXD	•	•	•	•	•	•	•	•	•	*2	*2	•	•	•	•	•	•	•	•	•
Regulation Extension Kit		UTW-KREXD	•	•	•	•	•	•	•	•	•	_	_	•	•	•	•	•	•	•	•	•
Remote Controller	wired	UTW-C75XA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Controller	((r. wireless	UTW-C78XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Room Thermostat	wired	UTW-C55XA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	wireless	UTW-C58XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Outdoor Sensor Transmitter	la la	UTW-MOSXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RF Modules	for X60-Port	UTW-M60XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	for BSB-Port	UTW-MRCXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Web Server		UTW-KWSXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ritt	UTW-KW1XD UTW-KW4XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cascade Kit	NEW	UTW-KCMXE UTW-KCSXE	•	•	•	•	•	_	_	_	•	_	_	_	_	_	_	_	_	_	_	_
LPB Clip	li So	UTW-KL1XD	•	•	•	•	•	•	•	•	•	_	_	•	•	•	•	•	•	•	•	•
Service Tool (incl. OCI700 ada	apter)	UTW-KSTXD	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•	•	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•*3
Service Tool Sof	tware	UTW-KPSXD	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4	•*4

: Available — : Not Available

WATERSTAGE

*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 adapter), UTW-KW1XD or UTW-KW4XD is required for the connection

SPECIFICATIONS

Туре								Split type						
Series nar	me				Hi	gh Power seri	ies			Comfor	t series			
							. 0			. 0				
Capacity r	range (kW)			11	14	11	14	16	5	6	8	10		
+7°C / +35	5°C floor heating *1	Heating capacity Input power	kW	10.80 2.54	13.50 3.23	10.80	13.50 3.20	15.17 3.70	4.50 0.996	6.00	7.50	10.00 2.49		
	o noor nouting	COP		4.25	4.18	4.30	4.22	4.10	4.52	4.27	4.08	4.02		
		Heating capacity		10.77	12.00	10.77	13.00	13.50	4.50	4.95	5.65	7.70		
+2°C/+35	5°C floor heating *1	Input power	kW	3.44	3.87	3.40	4.15	4.34	1.39	1.53	1.78	2.47		
		COP		3.13	3.10	3.17	3.13	3.11	3.24	3.24	3.17	3.12		
		Heating capacity		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 power	kW	4.32	5.08	4.28	5.18	5.40	1.47	1.74	2.23	2.97		
	5	COP		2.50	2.36	2.52	2.51	2.50	2.79	2.64	2.56	2.49		
		Heating capacity		9.23	11.54	10.10	12.60	13.00	4.50	5.10	6.20	8.27		
+7°C / +45	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		
		COP	1	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		
		COP	1	2.00	1.93	2.16	2.08	2.04	2.20	2.18	2.04	2.00		
Backup he	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(3.0×2pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)		
	Hydraulic unit Model name			× 1 7	140DC6		WSYK160DC9		WSYA050DD6		WSYA100DD6			
Power sou	urce			1Ø 230V, 50Hz 3Ø 400V, 50Hz					1Ø 230V, 50Hz					
14/-4		Rated	1 fasta	31.2	39.0	31.2	39.0	43.8	13.00	17.33	21.66	28.88		
Water circ	culation	Min / Max	L/min			25.0 / 50.0		8.1/16.2	18.1/36.1					
Dimensior	ns H×W×D		mm			800 × 450 × 457		800 × 450 × 457						
Weight (N	let)		kg			42		42						
Buffer tank	k capacity		L			16		16						
Expansion	n vessel capacity		L			8		8						
Leaving w	ater 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	ınit	Mo	del name	WOYG112LCT	WOYG140LCT	WOYK112LCT	WOYK140LCT	WOYK160LCT	WOYA060LDC WOYA080LDC WOYA100LD					
Power sou	urce			1Ø 230	V, 50Hz	Ì	3Ø 400V, 50Hz			1Ø 230	V, 50Hz			
Current		Rated		11.4	14.2	3.7	4.8	5.5	4.5	6.3	8.1	10.9		
Current		Max	A	22.0	25.0	8.5	9.5	10.5	11.0	12.5	17.5	18.5		
Noise leve	el (Sound pressure))	dB(A)	55*2	56 *2	53*2	55*2	56 *2	48 ^{*2}	51*2	56 *2	55*2		
Dimensior	ns H×W×D		mm			1290 × 900 × 330)			620 × 790 × 290		830×900×330		
Weight (N	Weight (Net) kg			9	2		99		4	1	42	60		
Refrigeran	nt					R410A				R4	10A			
Refrigerant amount kg					2.50		1.	10	1.40	1.80				
Additional refrigerant charge amount g/m					50			2	0	20	40			
	Diamotor	Liquid	mm	Ø9.52 Ø6.35							-	Ø9.52		
	Diameter	Gas		1		Ø15.88			Ø1:	5.88				
		Gas	mm					5/20						
Connection	Length	Gas Min / Max	m			5 / 20				5 /	20			
Connection	Length Length (chargeless)										20 5			
Connection pipe		Min / Max	m			5 / 20				1	-			

Туре	Monobloc type						
Series name	Compact series						
Capacity range (kW)			8	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	1.3.67	7.80	9.80			
+7°C / +45°C radiators *1	Input power	kW	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	WPYA080LA	WPYA100LA			
Power source			1Ø 230	0V, 50Hz			
Water circulation	Rated	I /min	22.9	28.7			
	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	6	32			
Expansion vessel capacity		L		8			
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.

SPECIFICATIONS

Туре				Split DHW integrated type										
Series na	me				Hi	gh Power seri		Comfort series						
Capacity I	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 / +35	5°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	kW	10.77	12.00	10.77	13.00	13.50	4.50	4.95	5.65	7.70		
+2°C / +35	5°C floor heating*1	Input power	KVV	3.44	3.87	3.40	4.15	4.34	1.39	1.53	1.78	2.47		
		COP		3.13	3.10	3.17	3.13	3.11	3.24	3.24	3.17	3.12		
		Heating capacity	kW	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 power	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		9.23	11.54	10.10	12.60	13.00	4.50	5.10	6.20	8.27		
+7°C / +45	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		
		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		
		COP		2.00	1.93	2.16	2.08	2.04	2.20	2.18	2.04	2.00		
Backup he	eater	Capacity	kW×pcs.	6.0(3.0×2 pcs.)	6.0(3.0×2pcs.)	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(3.0×2pcs.)		
Hydraulic		Mo	del name		140DD6		WGYK160DD9		WGYA050DD6					
Power so					V, 50Hz		3Ø 400V, 50Hz	1Ø 230V, 50Hz						
		Rated		31.2	39.0	31.2	39.0	43.8	13.00	17.33	21.66	28.88		
Water circ	culation	Min / Max	L/min			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			1840 × 648 × 698	3	1840 × 648 × 698						
Weight (N			kg			152			52					
DHW cap	,		Ľ			190	190							
	heater capacity		kW			1.5	1.5							
	k capacity		L			16	16							
	n vessel capacity		L			12	12							
	ater temperature ra	ande	°C			8~60	8~55							
<u> </u>	connection diameter	<u> </u>	mm			Ø25.4 / Ø25.4	Ø25.4 / Ø25.4							
	pipe diameter		mm		(Ir	nlet/Outlet) Ø19.0	15	(Inlet/Outlet) Ø19.05						
Outdoor u		Mo	del name	WOYG112LCT	WOYG140LCT	WOYK112LCT	WOYK140LCT	WOYK160LCT	WOYA	D60LDC	WOYA100LD1			
Power so		WIO,	der name		V, 50Hz	WORKHZEOF	3Ø 400V, 50Hz	WORKINGEOF	nona		WOYA080LDC V, 50Hz	INO TATIOLED		
	dicc	Rated		11.4	14.2	3.7	4.8	5.5	4.5	6.3	8.1	10.9		
Current		Max	A	22.0	25.0	8.5	9.5	10.5	11.0	12.5	17.5	18.5		
Noise leve	el (Sound pressure)		dB(A)	55 ^{*2}	20.0 56 ^{*2}	53 *2	55 *2	56 *2	48*2	51*2	56 *2	55 ^{*2}		
	ns H×W×D	/	mm			1290 × 900 × 330		50		620 × 790 × 290		830×900×330		
			kg	92 99 99					41 42 60					
Refrigerant				R410A					10A 42	00				
0					2.50			1	10	1.40	1.80			
			g/m			50		0	20	40				
Adultioildi			mm			Ø9.52			2	Ø6.35	20	Ø9.52		
	Diameter Liquid Gas		mm			Ø15.88			(A1)	2.70	Ø1			
Connection	Length	Min / Max	m			5 / 20				-	20	0.00		
pipe		-									-			
	Length (chargeless)	Max	m			15			15					
Orest	Height difference	Max	m			15					-			
Operation	range	Heating	°C			-25~35	-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 1 m from the device.

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