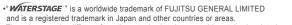
SPECIFICATIONS

Туре				Split DHW integrated type											
Series na	ame				High Power series Comfort series										
				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	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 / +3	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	5°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	1.34/	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			
		COP		3.25	3.10	3.35	3.30	3.25	3.46	3.40	3.31	3.27			
		Heating capacity	1.34/	9.16	11.45	10.02	12.50	13.00	4.10	4.45	5.05	7.40			
-7°C / +45	5°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 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	unit	Mo	del name	WGYG	140DD6		WGYK160DD9		WGYA50DD6 WGYA100DD6						
Power so	ource			1Ø 230	V, 50Hz		3Ø 400V, 50Hz		1Ø 230V, 50Hz						
Water cir	audation.	Rated	L/min	31.2	39.0	31.2	39.0	43.8	13.00	17.33	21.66	28.88			
water cir	culation	Min / Max	L/IIIII			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			1800 × 600 × 648	3			1800 × 6	600 × 648				
Weight (N	Net)		kg			149			14	49					
DHW cap	pacity		L			190			19	90					
Hot water	r heater capacity		kW			1.8		1.8							
Buffer tar	nk capacity		L			16		16							
Expansio	n vessel capacity		L			12		12							
Leaving v	water temperature ra	ange	°C			8~60		8~55							
Water pipe	e connection diameter	Flow / Return	mm			Ø25.4 / Ø25.4		Ø25.4 / Ø25.4							
Hot water	r pipe diameter		mm		(Ir	nlet/Outlet) Ø19.0)5	(Inlet/Outlet) Ø19.05							
Outdoor i	unit	Mo	del name	WOYG112LCT	WOYG140LCT	WOYK112LCT	WOYK140LCT	WOYK160LCT	WOYA	060LDC	WOYA080LDC	WOYA100LDT			
Power so	ource			1Ø 230	V, 50Hz		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 lev	el (Sound pressure))	dB(A)	55 ^{*2}	56 *2	53 *2	55 *2	56 *2	48 *2	51 *2	56 *2	55*2			
Dimensio	ns H×W×D		mm			1290 × 900 × 330)			620 × 790 × 290	i	830×900×330			
Weight (N	Net)		kg	9	12		99		4	1	42	60			
Refrigera	int					R410A				R4	10A				
-			kg			2.50		1.1	10	1.40	1.80				
Additiona	I refrigerant charge	amount	g/m			50		2	0	20	40				
	Diameter	Liquid	mm			Ø9.52				Ø6.35		Ø9.52			
	Diameter		mm	Ø15.88					Ø12.70 Ø15.88						
Connection	Length	Min / Max	m			5 / 20			5/20						
pipe	Length (chargeless)	Max	m			15			15						
	Height difference	Max	m			15		15							
Operation		Heating	°C			-25~35			-20 ~ 35						
Operation range Treating 0								1 20 00							

^{*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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SPLIT TYPE SPLIT DHW INTEGRATED TYPE MONOBLOC TYPE



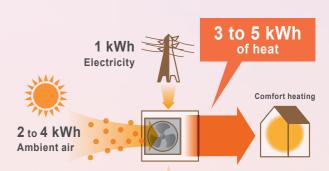


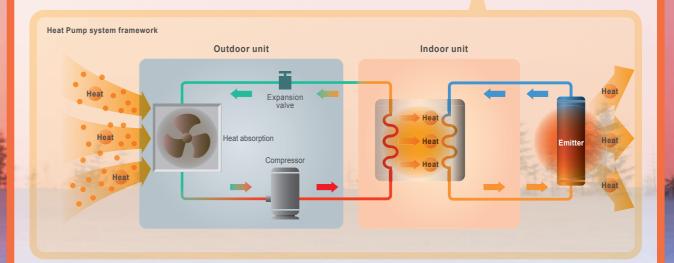
ngrou Politica.

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.





PRIMARY ENERGY USAGE REDUCED DRASTICALLY!

Proportion of primary energy into heating energy of 100%



 $^\star\text{Electricity}$ 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

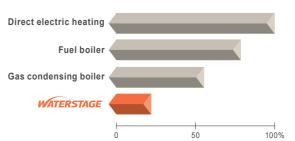
Advantages of WATERSTAGE

LESS CO₂ EMISSIONS

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

Advantages





*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 hea pump technology.

Advantage

Average annual running cost

Direct electric heating

el boiler

Gas condensing boiler

WATERSTAGE

 ${}^\star\mathsf{The}$ values may vary depending on installation, location, and operating conditions.

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



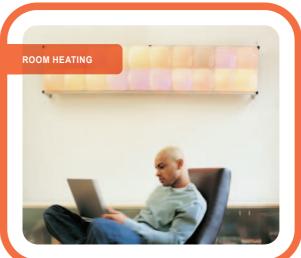
Well structured Hydraulic unit.

Sophisticated arrangement of hydraulic units, allows easy piping and maintenance

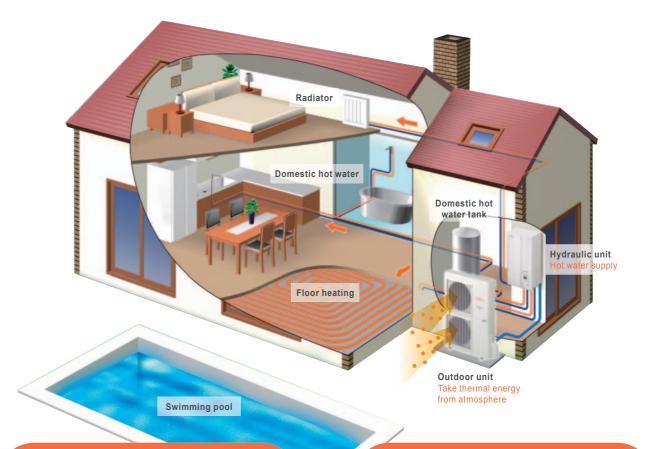
No chimney sweep

No pollution Low maintenance cost

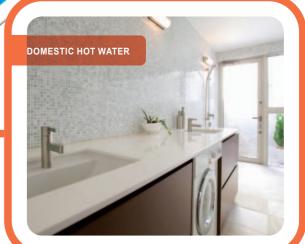












Product lineup for various needs

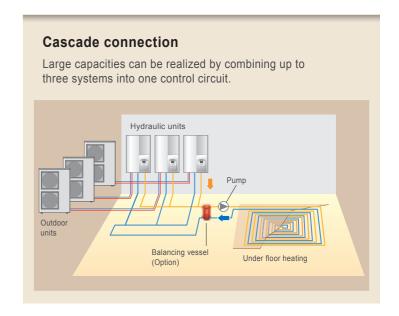
Туре			SPLIT TY	PE			SPLIT DHW INT	SPLIT DHW INTEGRATED TYPE	SPLIT DHW INTEGRATED TYPE	SPLIT DHW INTEGRATED TYPE MONOBL
High			ower series	Comfort series		High po	High power series			
		Usable outdoor temperature: -25°C		Usable outdoor temperature: -20°C		Usable outdoor temperature: -25°C	temperature:	temperature: NEW temperature:	temperature: -25°C NEW temperature: -20°C	temperature: 25°C NEW temperature: 10°C NEW temperature: 20°C
Series			Hydraulic unit	Hydraulic unit			Hydraulic unit	Hydraulic unit	Hydraulic unit Hydraulic unit	Hydraulic unit Hydraulic unit Co
		Outdoor unit		Outdoor unit NEW NEW		Outdoor unit	Outdoor unit	Outdoor unit Outdoor unit	Outdoor unit NEW NEW	Outdoor unit NEW NEW Monobloc unit
		Capacity range :	11 / 14 kW 11 / 14 / 16 kW	Capacity range: 5 / 6 / 8 kW 10 kW		Capacity range :	Capacity range : 11 / 14 kW 11 / 14 / 16 kW	Capacity range: 11 / 14 kW 11 / 14 / 16 kW Capacity range: 5	Capacity range: 11 / 14 kW 11 / 14 / 16 kW Capacity range: 5 / 6 / 8 kW 10 kW	Capacity range: 11 / 14 kW 11 / 14 / 16 kW Capacity range: 5 / 6 / 8 kW 10 kW Capacity range:
		60°C hot water supply temperature	even at -20°C outdoor	• 55°C hot water supply even at -7°C outdoor temperature			hot water supply even at -20°C por temperature	hot water supply even at -20°C • 55°C hot water support temperature	hot water supply even at -20°C • 55°C hot water supply even at -7°C outdo	
		Powerful heating capacition low outdoor temperature		Floor heating and radiators can be used together.		ng ca	ng capacity supplied even	ng capacity supplied even • Floor heating and r	ng capacity supplied even • Floor heating and radiators can be used	ng capacity supplied even • Floor heating and radiators can be used • Heating and D
		Different heating system floor heating, radiators	m can be used. Like	Heating and DHW in one system.* Additional electric heater for backup	Different heating	sy	system can be used. , radiators and others*	system can be used. • Heating and DHW	system can be used. • Heating and DHW space saving in one	system can be used. • Heating and DHW space saving in one • Antifreeze fun
Features		Heating and DHW in orOutdoor low noise fund		provided • Up to two independent control circuits*	Heating and DHW s hydraulic unit.	8	pace saving in one	pace saving in one • Additional electric provided		pace saving in one • Additional electric heater for backup able*
		Energy saving peak cu		- Op to two independent control circuits.	Outdoor low noise f					
		Additional electric heat			 Energy saving peak Additional electric h 					
		• Up to two independent	control circuits*		provided • Up to two independent control circuits:		·			
					- op to two maepend	ent co	ntroi circuits.	ntroi circuits.	ntrol circuits.	ntrol circuits:
Power source		1Ø 230V / 50Hz	3Ø 400V / 50Hz	1Ø 230V / 50Hz	1Ø 230V / 50Hz	30	ð 400V / 50Hz	Ø 400V / 50Hz 1Ø 2	Ø 400V / 50Hz 1Ø 230V / 50Hz	Ø 400V / 50Hz 1Ø 230V / 50Hz 1Ø 230
	5 kW			•						
	6 kW			•					•	
	8 kW			•					•	
Capacity	10 kW			•					•	
range	11 kW		•		•					
	14 kW		•		•					
	16 kW				 					

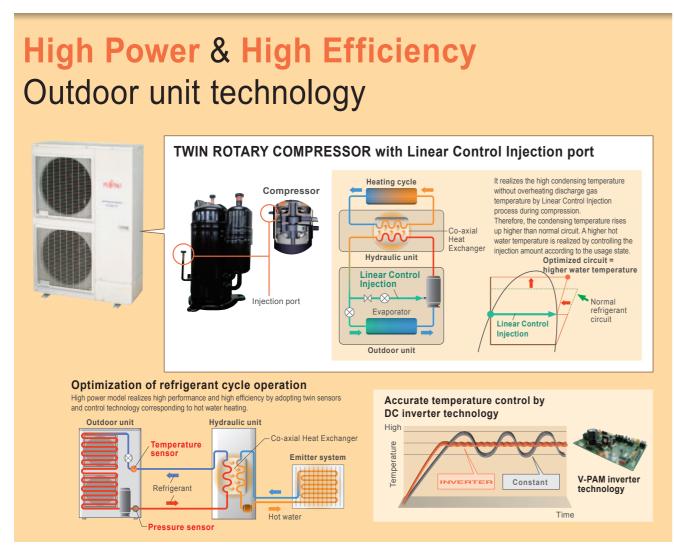
*Optional parts are required.

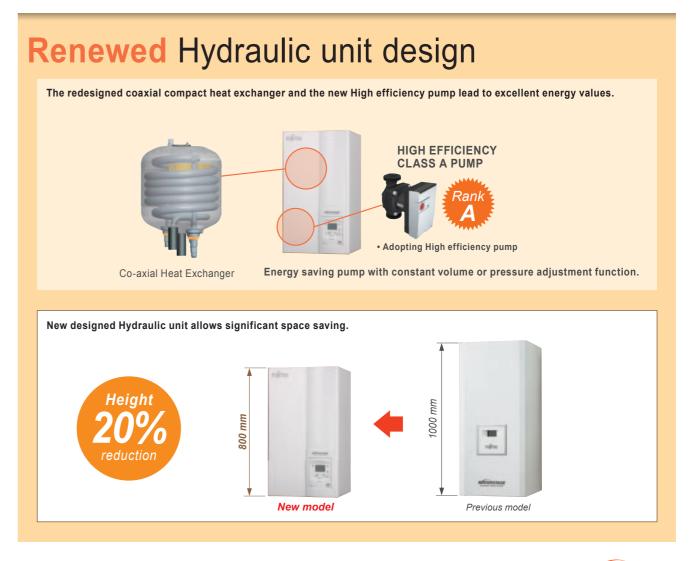




High power models realizes
high heating capacity and high
efficiency by newly developed
"Linear Control Injection
Technology" and "Co-axial
Heat Exchanger".
These properties are the key
for a reliable heating operation
throughout the whole yeareven in a strong winter.







WATERSTAGE[®] 11 ■

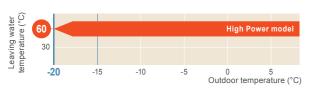
Powerful Heating

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 backup

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



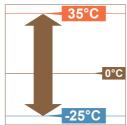


* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation

EXTENDED OPERATION RANGE DOWN TO -25°C

Improved operation range down to -25°C outdoor temperature

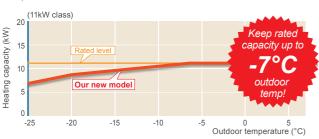




Outdoor temperature

STRONG & POWERFUL HEATING CAPACITY

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



High Efficiency

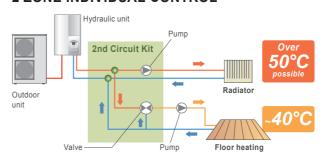
Energy efficiency is improved by the linear Control Injection Technology and the optimization of refrigerant cycle control. High power model realizes high performance and high efficiency by adopting twin sensors and control technology corresponding to hot water heating.





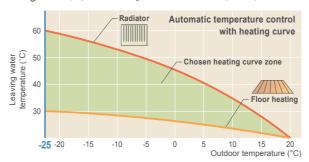
Intelligent Control

2 ZONE INDIVIDUAL CONTROL*



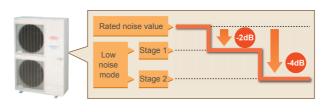
AUTOMATIC HEATING CURVE CONTROL

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



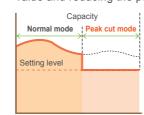
2 STAGE LOW NOISE MODE*

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.



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

AND MORE

- . Cooling operation is possible*
- Anti-Legionella function
- Additional electric heater control for backup
- Cascade connection is possible.* (Future Release)
- •Web server can be connected.*

High Reliability

HIGH DURABILITY

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

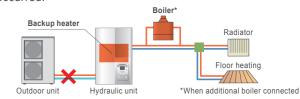


EASY INSTALLATION & MAINTENANCE

- •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.





■ 12 WATERSTAGE

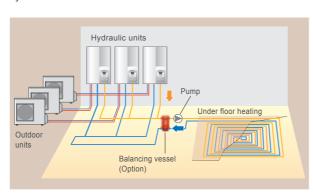
Comfort series



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

Cascade connection

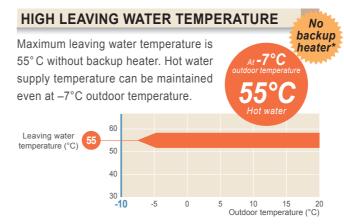
Large capacities can be realized by combining up to three systems into one control circuit.



High Efficiency Technology DC FAN MOTOR **HIGH EFFICIENT CO-AXIAL** High performance, **HEAT EXCHANGER** high efficiency small DC fan motor mounted. Double-pipe water heat exchanger with built-in NEW tank NEW DC TWIN ROTARY **DC INVERTER COMPRESSOR** Smooth water temperature control realized by DC High efficient DC inverter control. twin rotary compressor

High Efficiency & Comfort





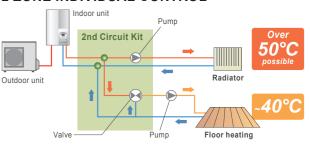
* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.

Improved operation range down to -20°C outdoor temperature Down to -20°C Outdoor temperature Outdoor temperature Outdoor temperature



Intelligent Control

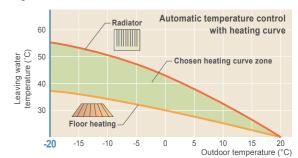
2 ZONE INDIVIDUAL CONTROL*



*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

- •Cooling operation is possible.*
- •Anti-Legionella function
- ·Possible to docking the boiler (Field supplied)

*Optional parts are required

High Reliability

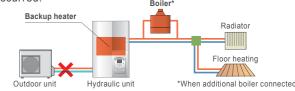
HIGH DURABILITY



EMERGENCY OPERATION

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

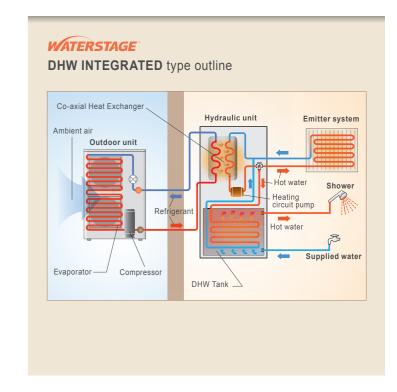
Boiler*

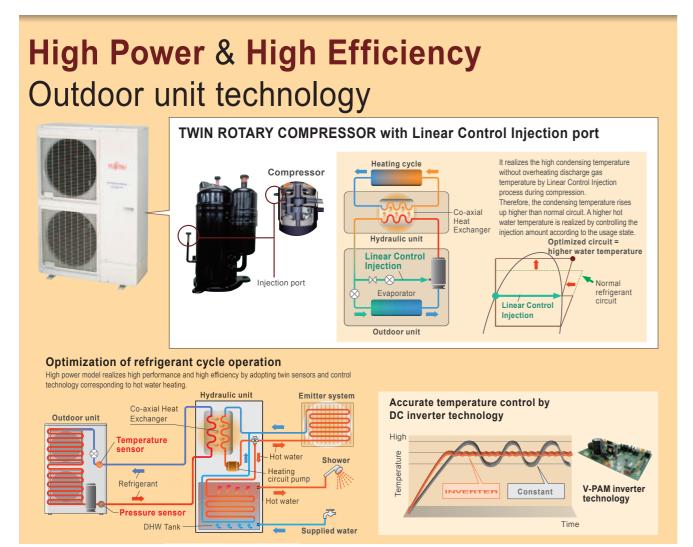


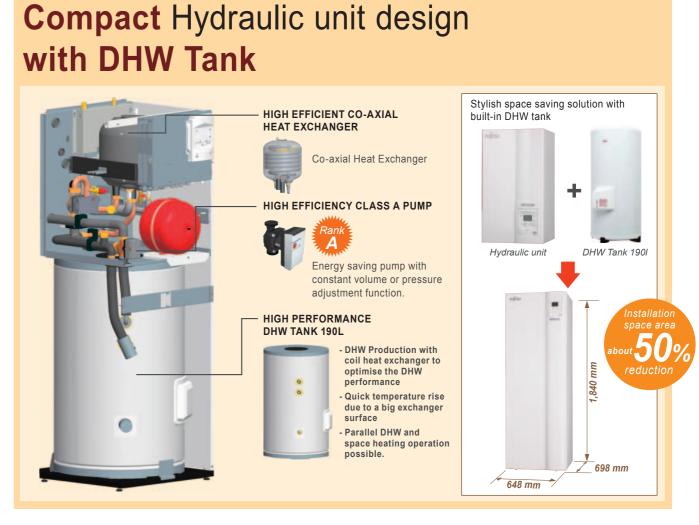


Split DHW integrated type realizes significant space saving because of the integrated DHW tank. Quick hot water supply is possible due to built-in high performance DHW tank. Heating and domestic hot water supply can be selected inside the intelligent controller. High Power models realize very efficient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









WATERSTAGE 17

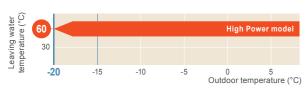
Powerful Heating

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 backup

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

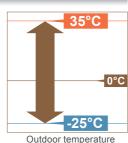




*If you want to raise the hot water supply temperature, backup heater can be used for the

EXTENDED OPERATION RANGE DOWN TO -25°C





STRONG & POWERFUL HEATING CAPACITY

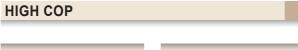
Keeping the rated heating capacity up to -7°C outdoor temperature

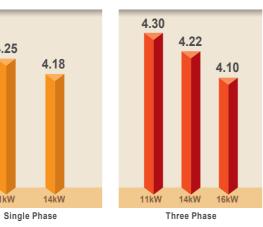


High Efficiency

4.25

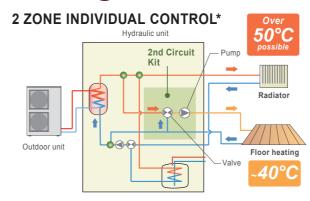
Energy efficiency is improved by the linear Control Injection Technology and the optimization of refrigerant cycle control. High power model realizes high performance and high efficiency by adopting twin sensors and control technology corresponding to hot water heating.





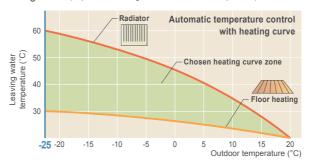


Intelligent Control



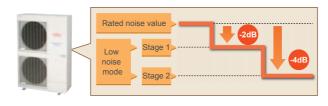
AUTOMATIC HEATING CURVE CONTROL

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



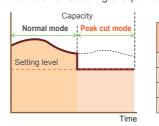
2 STAGE LOW NOISE MODE*

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.



Capacity		
mode Peak cut mode	Mode	The ratio of suppressing the power consumption
vel	1	100%
	2	75%
	3	50%
	4	Almost 0%
Time		

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

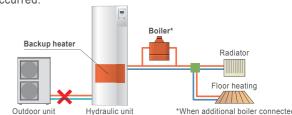


EASY INSTALLATION & MAINTENANCE

- •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.



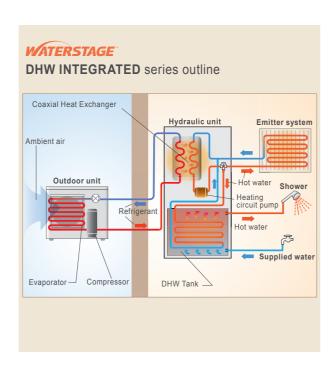


WATERSTAGE

Comfort series



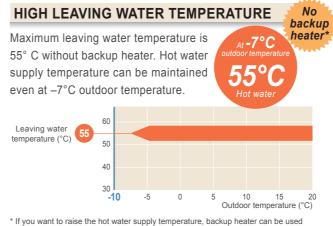
For Comfort series, optimized flow temperature control is realized by DC inverter technology.

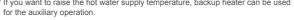


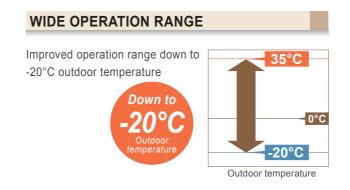


High Efficiency & Comfort

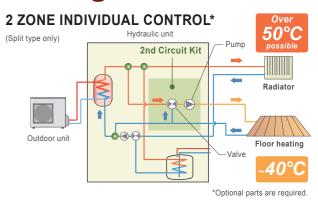






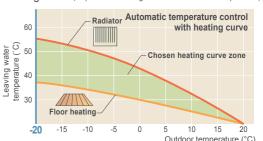


Intelligent Control



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 (Field supplied)

*Optional parts are required.

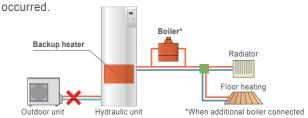
High Reliability

HIGH DURABILITY



EMERGENCY OPERATION

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



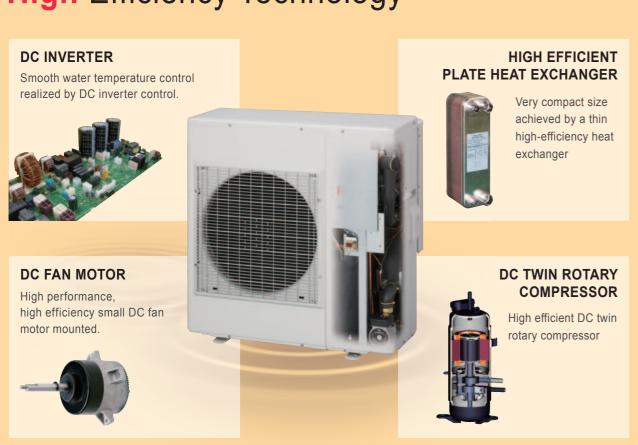
Compact series



All-in-One Model



High Efficiency Technology



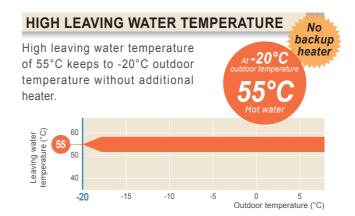
Compact & **High** Performance

HIGH COP

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

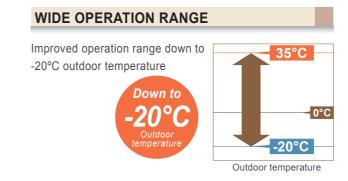


*Condition: Outdoor Temp. 7°C Heating Temp. 35°C.



COMPACT & LIGHT WEIGHT DESIGN





Intelligent Control

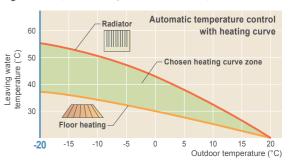
WIRED REMOTE CONTROLLER (CONTROL BOX) IS ADOPTED STANDARD.





AUTOMATIC HEATING CURVE CONTROL

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



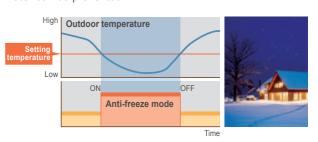
AND MORE

- •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

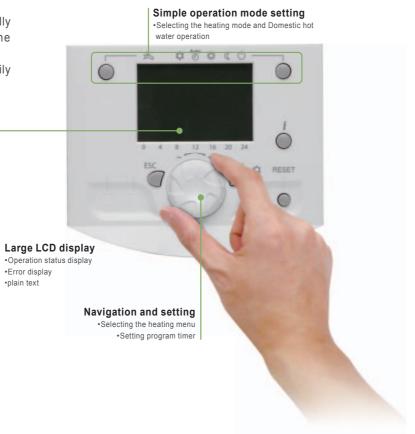
WATERSTAGE

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".

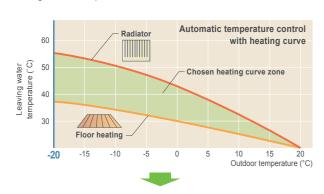




Comfort Control

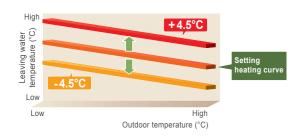
Automatic heating curve operation

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



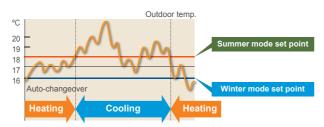
Heating curve off-set Adjust setting room temp.

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



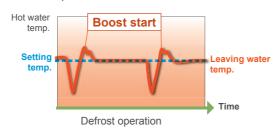
Auto-changeover

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.



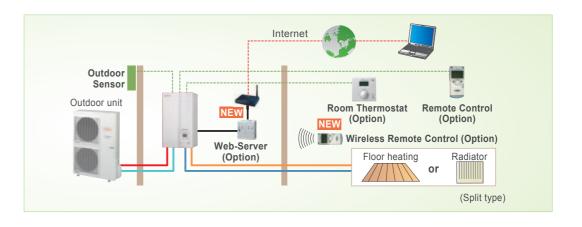
Quick recovery from defrost operation

Maintaining the room temperature during defrost operation by boost start operation



REMOTE CONTROL - EXTENSION

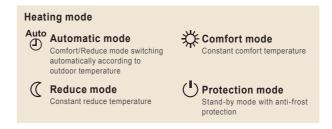
Various remote controls are available on your hand. Remote control is also available via Web. All kinds of life styles are supported.



Energy Saving

Programmable timer

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



Day-Weekly timer setting

- •The day-weekly timer can be set up for up to 3 times per day.



Holiday timer setting

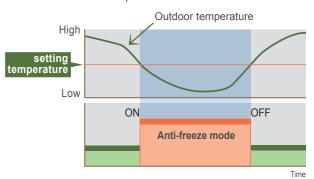
- •The holiday timer can be set up for up to 8 periods
- •If you are absent for a long time in the winter, freezing of room can be prevented



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

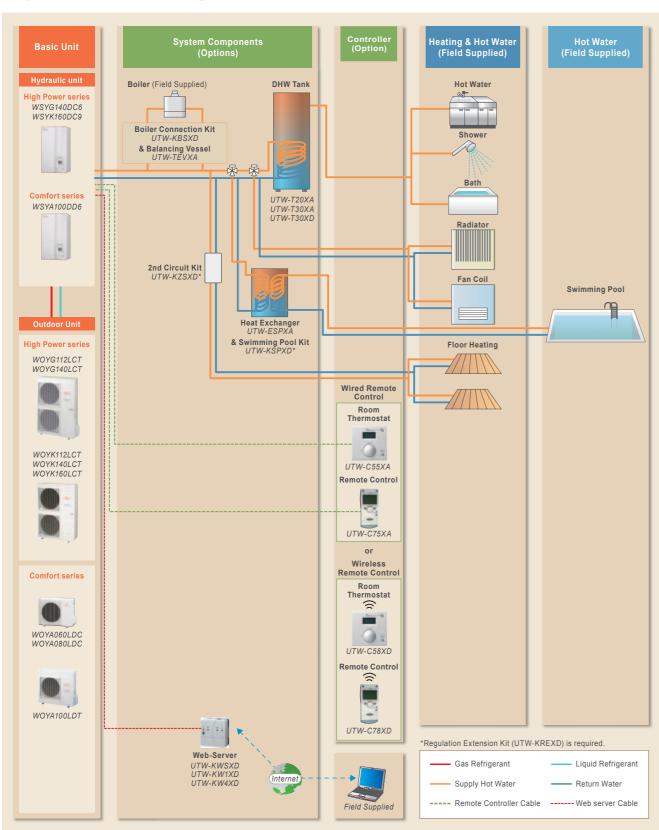
The growth of Legionella in DHW tank is suppressed and safe and clean hot water is supplied at all times.



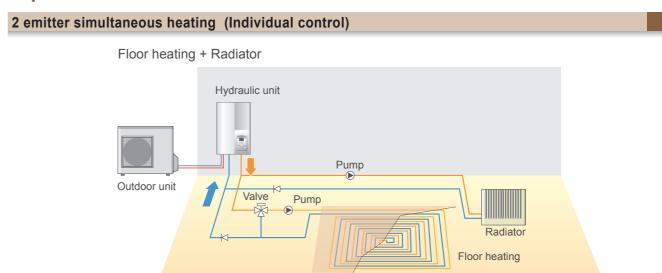


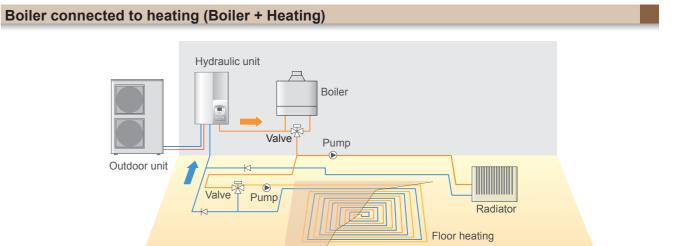
Total solution concept for comfort inside your home SPLIT TYPE

System configuration



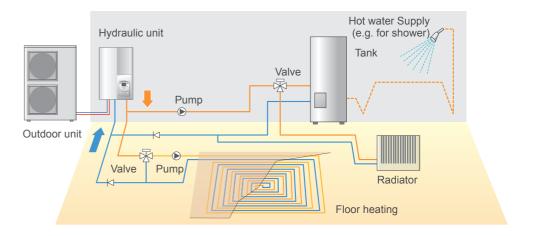
Split Case studies





3 types of heat distribution

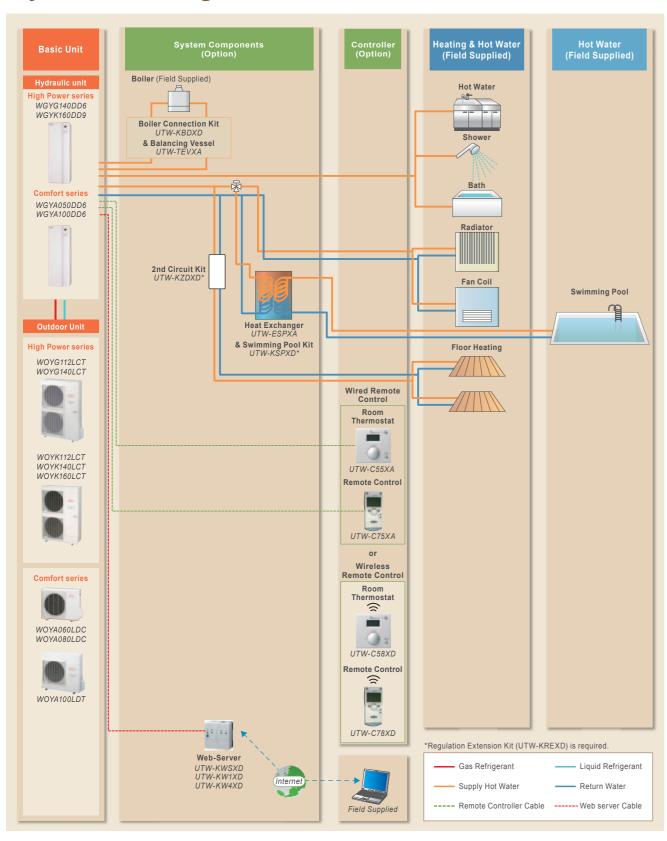
Floor heating + Radiator + Domestic Hot Water



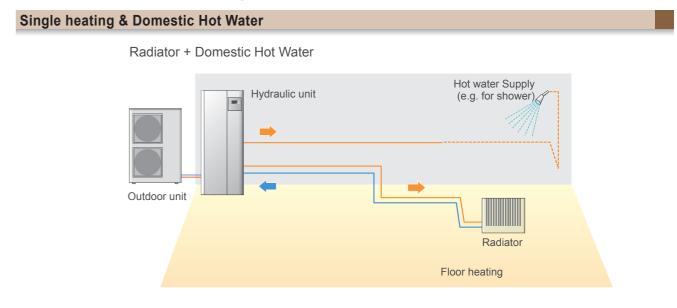
WATERSTAGE 27 ■

Total solution concept for comfort inside your home split DHW INTEGRATED TYPE

System configuration

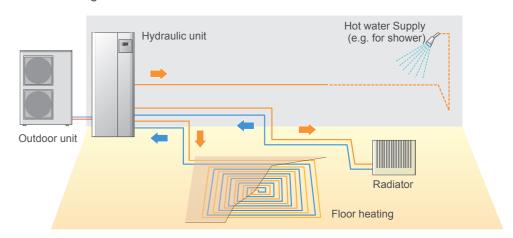


Split DHW integrated Case studies

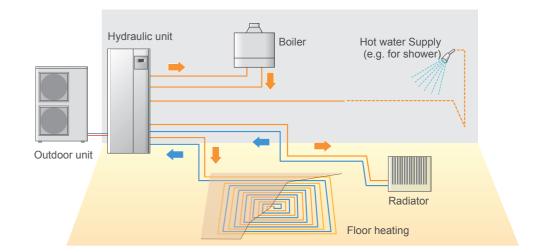


2 emiter simultaneous heating (Individual control) & Domestic Hot Water

Floor heating + Radiator + Domestic Hot Water



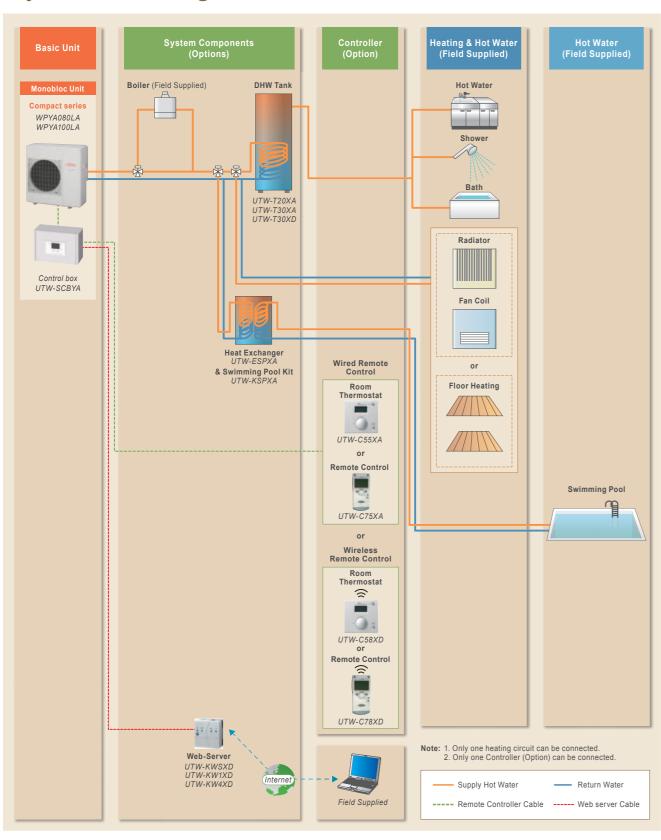
Boiler connected to heating (Boiler + Heating) & Domestic Hot Water



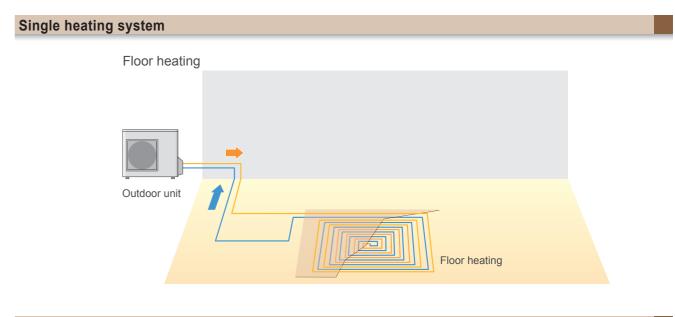
WATERSTAGE® 29 ■

Total solution concept for comfort inside your home MONOBLOC TYPE

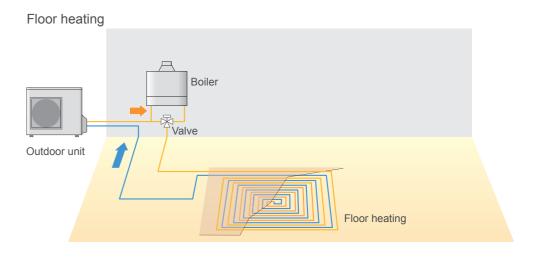
System configuration



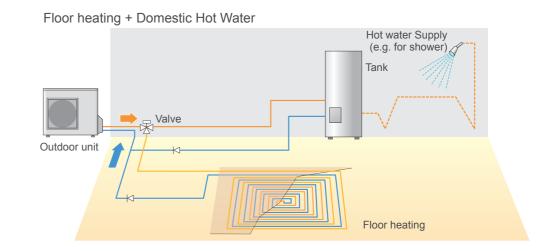
Monobloc Case studies



Boiler connected to heating (Boiler + Heating)



2 types of heat distribution



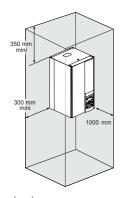
WATERSTAGE 31 ■

DIMENSIONS

Installation Limitations

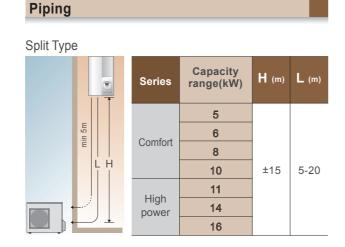
Equipment Installation

Split Type Hydraulic unit

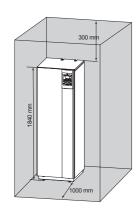


- ·Hydraulic unit should be hung on the
- ·Weight < 60kg (including water)
- ·Distances for maintenance should be respected

Piping and Wiring

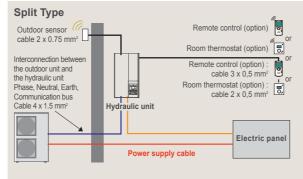


Split DHW integrated Type Hydraulic unit

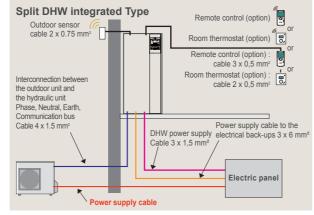


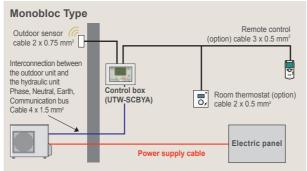
- ·Floor stand
- ·Weight:366kg (including water)
- ·Distances for maintenance should be respected.





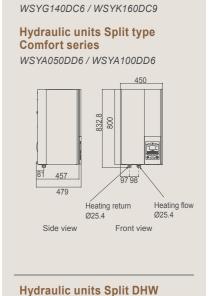
Electrical wiring





SPLIT TYPE

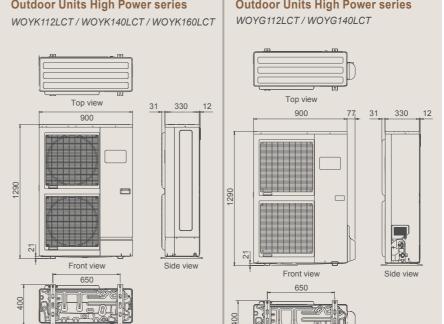


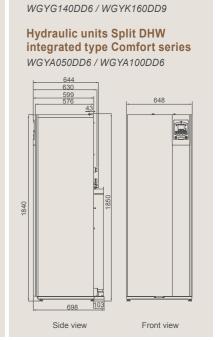


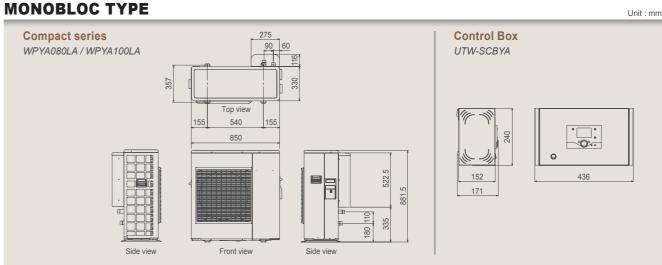
integrated type High Power series

Hydraulic units Split type High Power series

Unit : mm







■ 32 WATERSTAGE

SPECIFICATIONS

Optional Parts Compatibility

						Split					-	obloc				t DHW	/ integ	rated			
Product Name	Model Name		Hiệ Ø	gh Po	wer 3Ø				nfort Ø			npact Ø	1	Hi Ø	gh Po	wer 3Ø			Con 1	nfort 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	UTW-KZDXD	_	_	_	_	_	_	_	_	_	_	_	•	•	•	•	•	•	•	•	•
Boiler	UTW-KBSXD	•	•	•	•	•	•	•	•	•	_	_	_	_	_	_	_	_	_	_	_
Connection Kit	UTW-KBDXD	_	_	_	_	_	_	_	_	_	_	_	•	•	•	•	•	•	•	•	•
Balancing Vessel	UTW-TEVXA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DHW Kit	UTW-KDWXA	_	_	_	_	_	-	_	_	_	•	•	*1	*1	*1	*1	*1	_*1	*1	*1	*1
	UTW-KDWXD	•	•	•	•	•	•	•	•	•	_	_	*1	*1	*1	*1	*1	*1	*1	*1	*1
200 Liter DHW Tank 300 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	UTW-KSPXA	_	_	_	_	_	-	_	_	_	•	•	_	_	_	_	_	_	_	_	_
Pool Kit	UTW-KSPXD	•	•	•	•	•	•	•	•	•	-	_	•	•	•	•	•	•	•	•	•
Heat Exchanger for Swimming Pool Kit	UTW-ESPXA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cooling Kit	UTW-KCLXD	•	•	•	•	•	•	•	•	•	*2	*2	•	•	•	•	•	•	•	•	•
Regulation Extension Kit	UTW-KREXD	•	•	•	•	•	•	•	•	•	_	_	•	•	•	•	•	•	•	•	•
Remote wired	UTW-C75XA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Controller (((• wireless	UTW-C78XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Room wired	UTW-C55XA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Thermostat wireless	LITW-C58XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Outdoor Sensor Transmitter	UTW-MOSXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RF Modules X60-Port	UTW-M60XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
for BSB-Port	UTW-MRCXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Ī-(-:	UTW-KWSXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Web Server	UTW-KW1XD UTW-KW4XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cascade Kit NEW	UTW-KCMXE	•	•	•	•	•	-	_	_	•	-	_	_	_	_	_	_	_	_	_	_
LPB Clip	UTW-KL1XD	•	•	•	•	•	•	•	•	•	_	_	•	•	•	•	•	•	•	•	•
Service Tool (incl. OCI700 adapter)	UTW-KSTXD	•*3	•*3	•*3	• *3	•*3	•*3	•*3	•*3	•*3	•	•	•*3	•*3	•*3	•*3	• *3	•*3	• *3	•*3	•*3
Service Tool Software	UTW-KPSXD	•*4	•*4	• *4	•*4	•*4	• *4	• *4	• *4	• *4	•*4	•*4	•*4	•*4	•*4	•*4	• *4	• *4	• *4	•*4	•*4
												1									

"I :DHW operation is possible without DHW Kit and DHW I	ank.
*2 :Cooling operation is possible without Cooling Kit	

^{*3 :}UTW-KL1XD is required for the connection.

Туре								Split type						
Series name				High Power series Comfort series										
			-		gii Fowei Sei				. 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 / +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	IVAA	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	IXVV	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	kW	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		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	kW	9.16	11.45	10.02	12.50	13.00	4.10	4.45	5.05	7.40		
-7°C / +45	°C radiators *1	FF-		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 h		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		Mo	del name		140DC6		WSYK160DC9		WSYA050DD6	40000	WSYA100DD6			
Power source				V, 50Hz		3Ø 400V, 50Hz		1Ø 230V, 50Hz						
Water circ	culation	Rated	L/min	31.2	39.0	31.2	39.0	43.8	13.00	17.33	21.66	28.88		
D:	IIWD	Min / Max				25.0 / 50.0	,	8.1/16.2	10.8/21.7	13.5/27.1	18.1/36.1			
Weight (N	ns H×W×D		mm			800 × 450 × 457 42		800 × 450 × 457 42						
	k capacity		kg L			16		16						
	n vessel capacity		L			8		8						
	vater temperature ra	ange	°C			8~60		8 ~ 55						
	connection diameter		mm			Ø25.4 / Ø25.4		0 ~ 55 Ø25.4 / Ø25.4						
Outdoor u			del name	WOYG112LCT	WOYG140LCT	W0YK112LCT	WOYK140LCT	WOYK160LCT	WOYA060LDC WOYA080LDC WOYA100LD					
Power so		10101	del Hallie		V, 50Hz	WOTKTIZEOT	3Ø 400V, 50Hz	WOTKIOOLOT	WOTA		V, 50Hz	WOTATOOLDT		
	uroc	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		
	ns H×W×D	,	mm			1290 × 900 × 330	0			620 × 790 × 290		830×900×330		
Weight (N	let)		kg	9	12		99		4	1	42	60		
Refrigera						R410A				R4	10A			
		kg			2.50			1.	10	1.40	1.80			
Additional refrigerant charge amount g/m		_			50		2	10	20	40				
	Diameter	Liquid	mm			Ø9.52				Ø6.35		Ø9.52		
0 "	Diameter	Gas	mm			Ø15.88			Ø1:	2.70	Ø1	5.88		
Connection	Length	Min / Max	m			5 / 20				5 /	20			
pipe	Length (chargeless)	Max	m			15		15						
	Height difference	Max	m	15					15					
Operation	range	Heating	°C			-25~35		-20 ~ 35						

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	134/	7.10	8.00			
-7°C / +35°C floor heating *1	Input power	kW	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	134/	6.50	7.00			
-7°C / +45°C radiators *1	Input power	kW	2.98	3.31			
	COP		2.18	2.11			
Monobloc unit	Mo	del name	WPYA080LA	WPYA100LA			
Power source			1Ø 230	V, 50Hz			
Water circulation	Rated	L/min	22.9	28.7			
water circulation	Min / Max	L/IIIIII	10.0 / 30.0	10.0 / 30.0			
Current	Rated	Α	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	8	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.

• : Available — : Not Available

^{*4 :}UTW-KSTXD (OCI700 adapter), UTW-KW1XD or UTW-KW4XD is required for the connection