





SPLIT TYPE
SPLIT DHW INTEGRATED TYPE
MONOBLOC TYPE





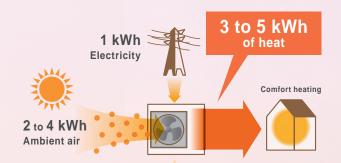
Fujitsu General **WATERSTAGE** realizes considerable energy saving operations by the Heat pump heating system using the ambient air energy

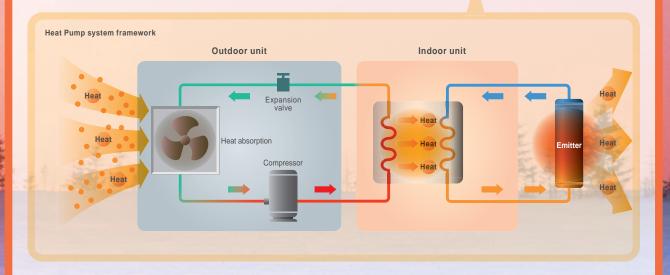


Environmentally friendly water heating system applying heat pump technology that collects heat from the outdoor air

WHAT'S A HEAT PUMP?

Absorbing the free energy from atmosphere. Heat pump system requires only 1 kW of electricity to generate 3 to 5 kW thermal energy.





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



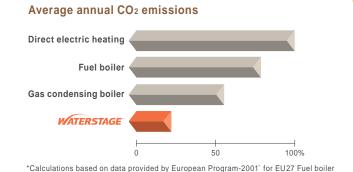


Advantages of WATERSTAGE™

LESS CO2 EMISSIONS

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

Advantages



LOW RUNNING COST

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

Advantages

Average annual running cost

efficiency: 89%, Gas boiler efficiency: 93%

Direct electric heating

Fuel boiler

Gas condensing boiler



*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



Environmentally friendly heating system



EASY INSTALLATION AND MAINTENANCE

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



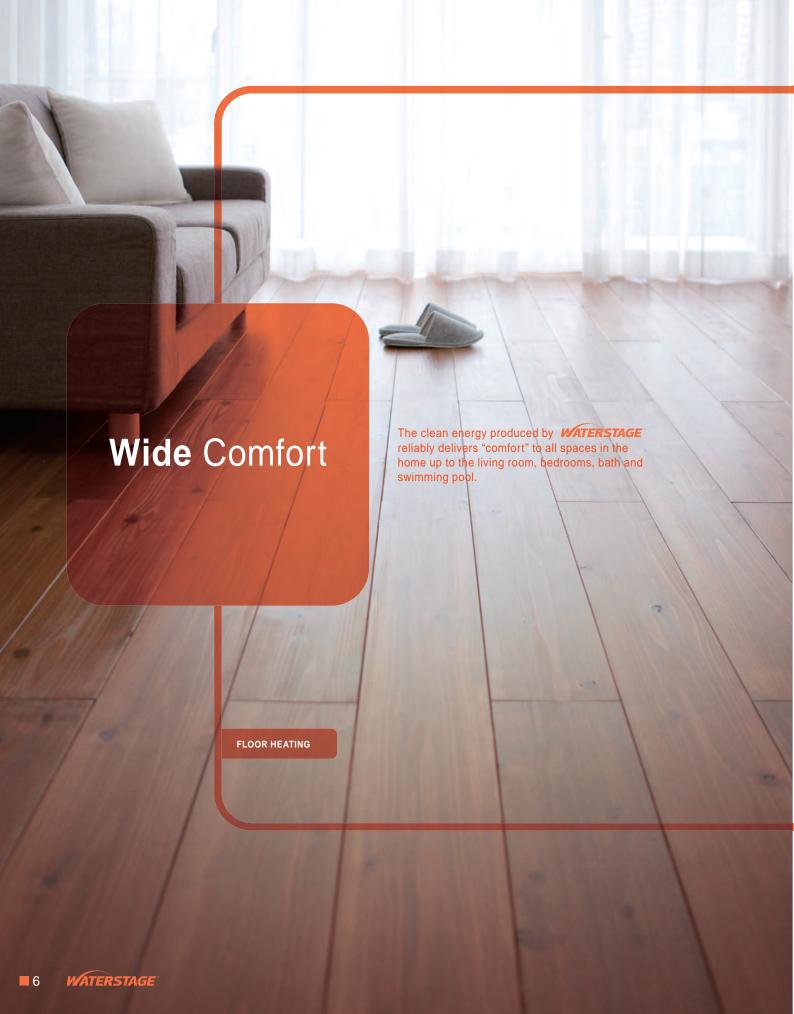
Well structured Hydraulic unit.

Sophisticated arrangement of hydraulic units, allows easy piping and maintenance

No chimney sweep

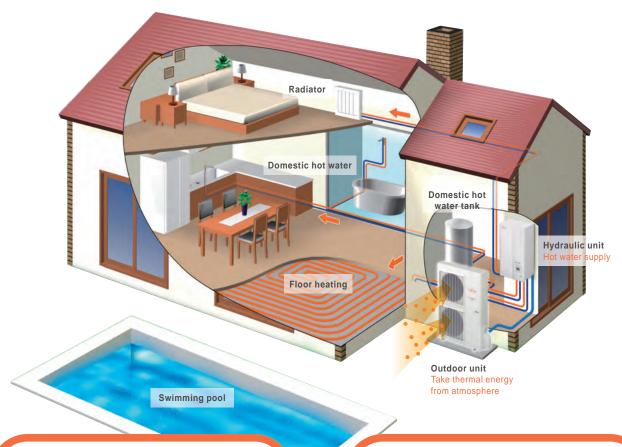
No pollution Low maintenance cost

Complete Solution meets various needs

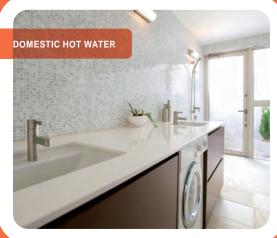






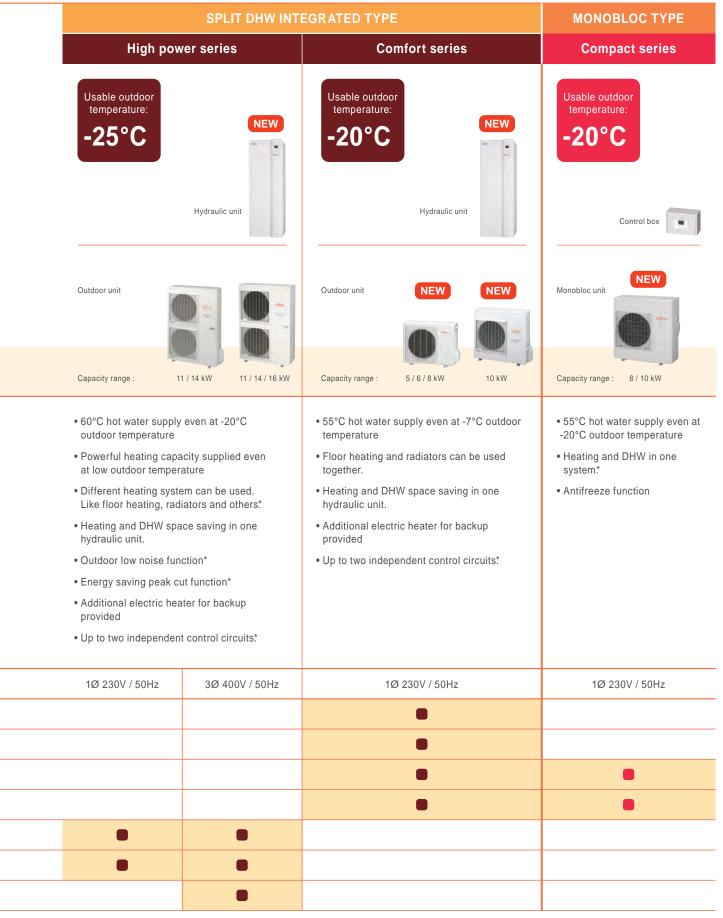






Product lineup for various needs

Туре		SPLIT T	YPE
	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
eatures	• 60°C hot water supply even temperature • Powerful heating capacilow outdoor temperature • Different heating system floor heating, radiators at the Heating and DHW in one • Outdoor low noise functions. • Energy saving peak cut • Additional electric heate • Up to two independent co	ity supplied even at e n can be used. Like and others* e system* tion* 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.*
ower source	1Ø 230V / 50Hz	3Ø 400V / 50Hz	1Ø 230V / 50Hz
5 kW			
6 kW			•
8 kW			•
10 kW pacity			0
nge 11 kW		•	
14 kW		•	

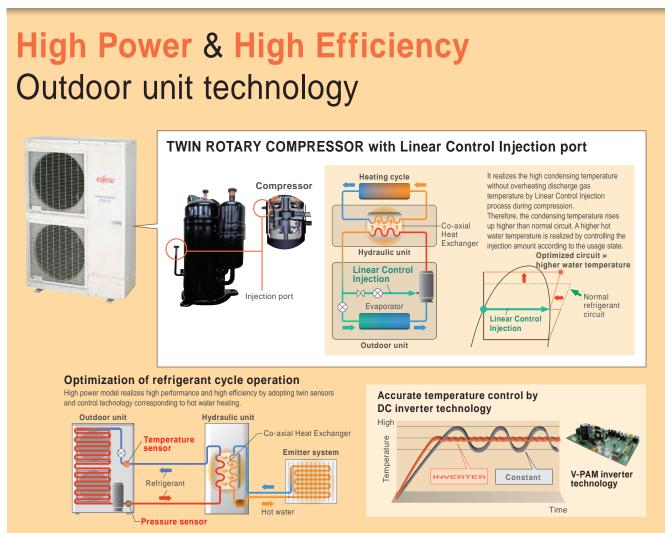


*Optional parts are required.

High Power series

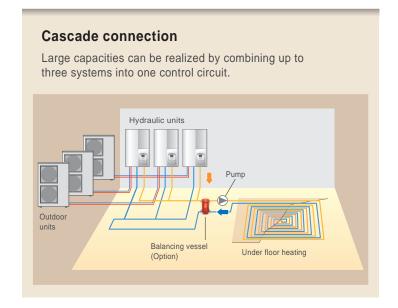


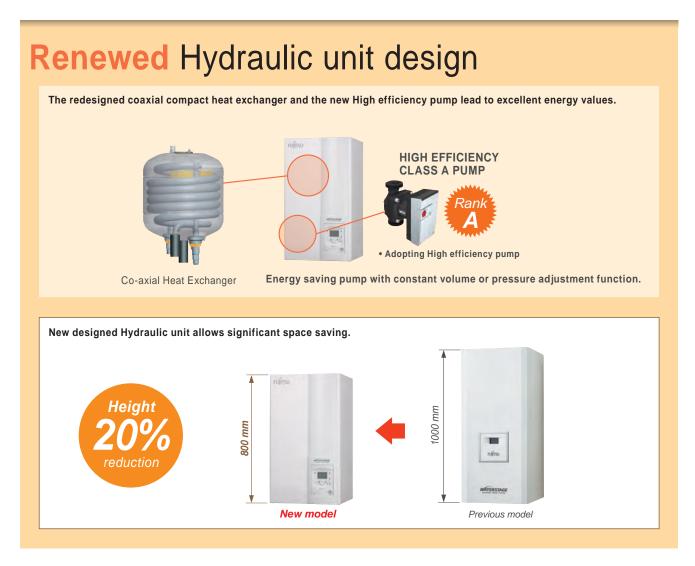




High power models realizes
high heating capacity and high
efficiency by newly developed
"Linear Control Injection
Technology" and "Co-axial
Heat Exchanger".
These properties are the key

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





High Power series

Powerful Heating

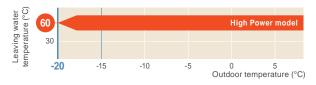
High power models realize high leaving water temperature and high heating capacity even at low ambient temperature by newly developed "Linear Control Injection Technology". It is possible to provide high water temperature and warm rooms in cold regions.

HIGH LEAVING WATER TEMPERATURE

No backup heater*

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



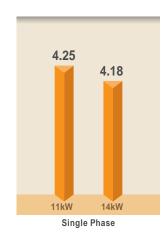


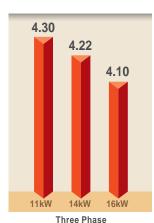
^{*} If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.

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

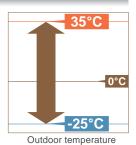




EXTENDED OPERATION RANGE DOWN TO -25°C

Improved operation range down to -25°C outdoor temperature





STRONG & POWERFUL HEATING CAPACITY

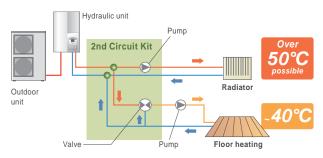
Keeping the rated heating capacity up to -7°C outdoor temperature





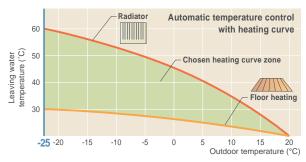
Intelligent Control

2 ZONE INDIVIDUAL CONTROL*



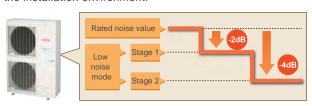
AUTOMATIC HEATING CURVE CONTROL

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



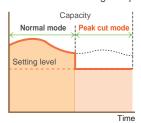
2 STAGE LOW NOISE MODE*

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.*

*Optional parts are required.

High Reliability

HIGH DURABILITY

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

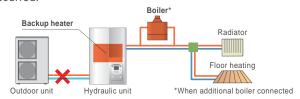


EASY INSTALLATION & MAINTENANCE

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





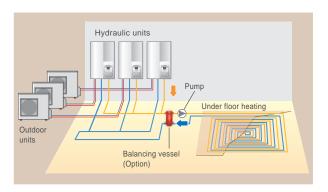
Comfort series

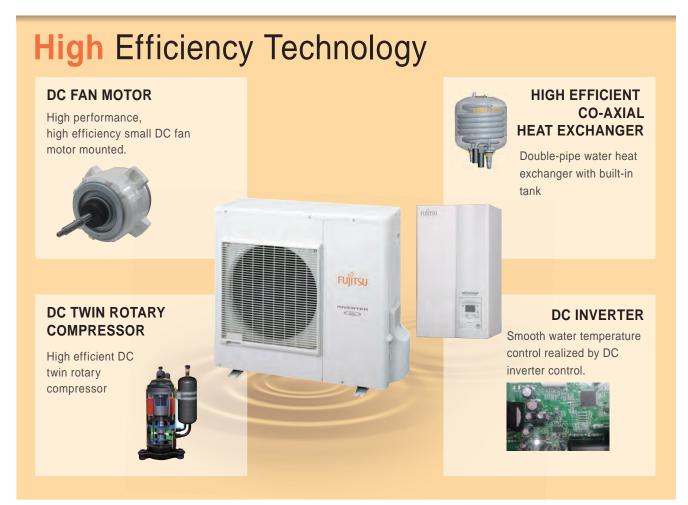


For Comfort series, optimized flow temperature control is realized by DC inverter technology.

Cascade connection

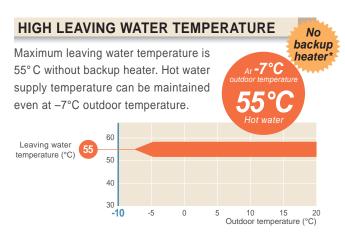
Large capacities can be realized by combining up to three systems into one control circuit.





High Efficiency & Comfort





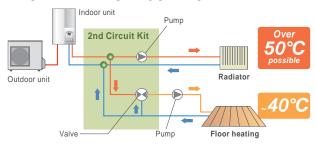
* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.

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



Intelligent Control

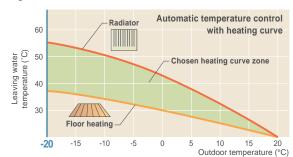
2 ZONE INDIVIDUAL CONTROL*



*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

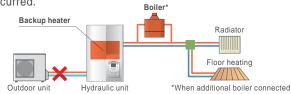
HIGH DURABILITY

Corrosion protectedNo 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

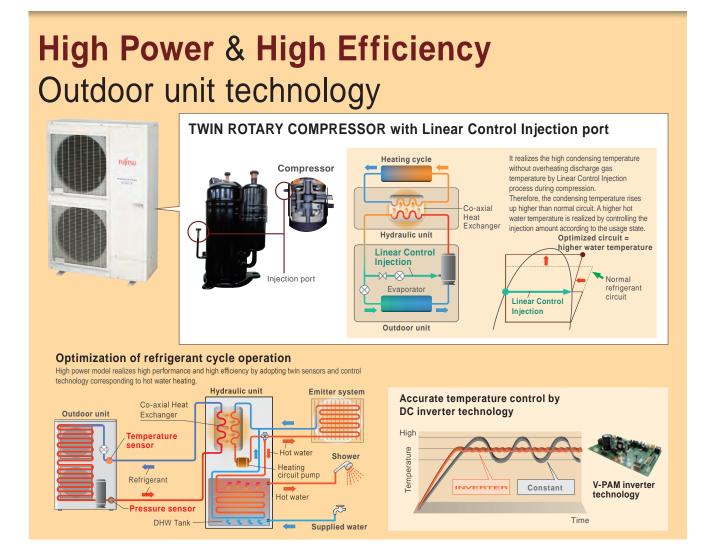


High Power series

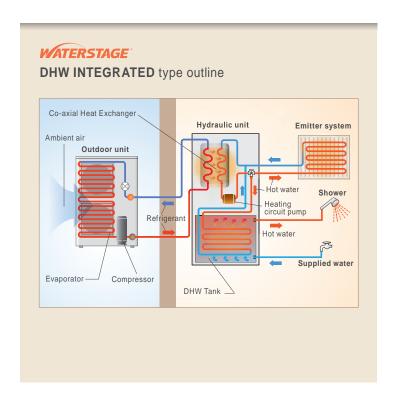


Split DHW integrated type realizes significant space saving because of the integrated DHW tank. Quick hot water supply is possible due to built-in high performance DHW tank.

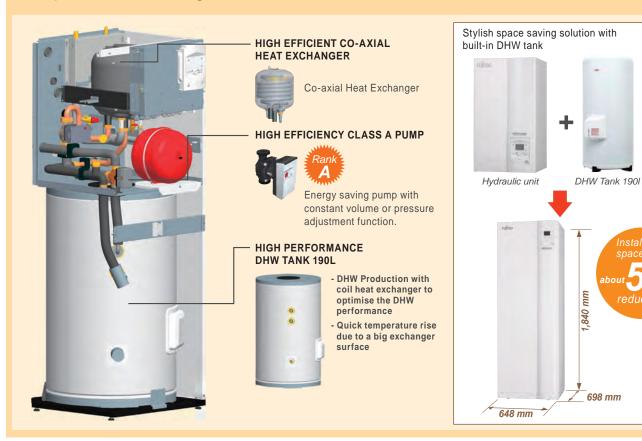
Heating and domestic hot water supply can be selected inside the intelligent controller. High Power models realize very efficient large heating capacities by newly developed "Linear Control Injection Technology" and "Co-axial heat Exchanger".







Compact Hydraulic unit design with DHW Tank



High Power series

Powerful Heating

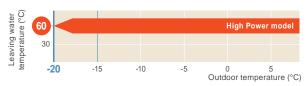
High power models realize high leaving water temperature and high heating capacity even at low ambient temperature by newly developed "Linear Control Injection Technology". It is possible to provide high water temperature and warm rooms in cold regions.

HIGH LEAVING WATER TEMPERATURE

No backup heater*

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



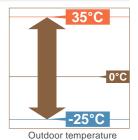


*If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.

EXTENDED OPERATION RANGE DOWN TO -25°C

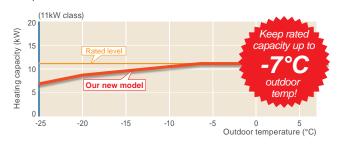
Improved operation range down to -25°C outdoor temperature





STRONG & POWERFUL HEATING CAPACITY

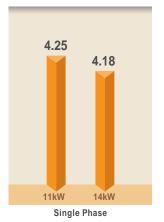
Keeping the rated heating capacity up to -7°C outdoor temperature

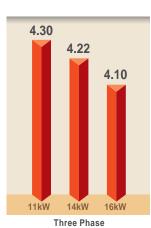


High Efficiency

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

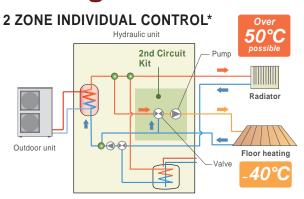
HIGH COP





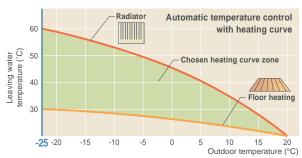


Intelligent Control



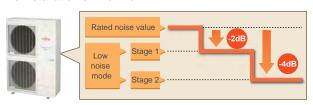
AUTOMATIC HEATING CURVE CONTROL

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



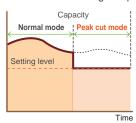
2 STAGE LOW NOISE MODE*

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

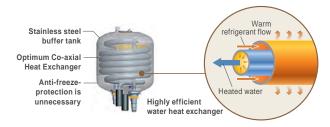
- Cooling operation is possible*
- •Anti-Legionella function
- •Additional electric heater control for backup
- •Web server can be connected.*

*Optional parts are required.

High Reliability

HIGH DURABILITY

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

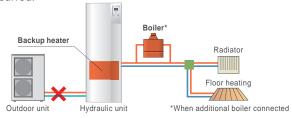


EASY INSTALLATION & MAINTENANCE

- •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.

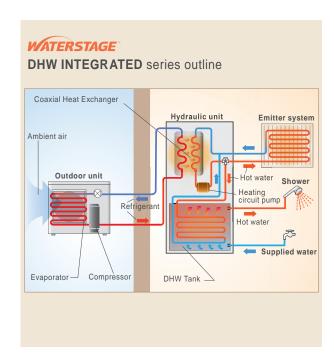




Comfort series



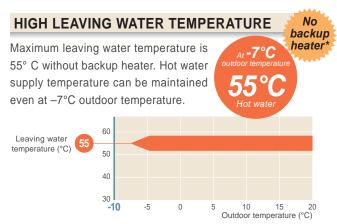
For Comfort series, optimized flow temperature control is realized by DC inverter technology.





High Efficiency & Comfort

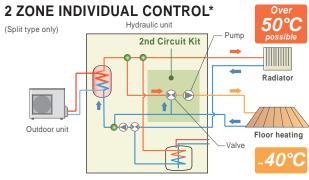




* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.

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

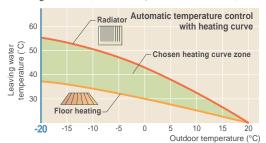
Intelligent Control



*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

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

*Optional parts are required.

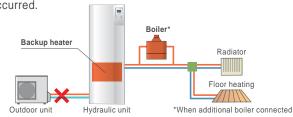
High Reliability

HIGH DURABILITY



EMERGENCY OPERATION

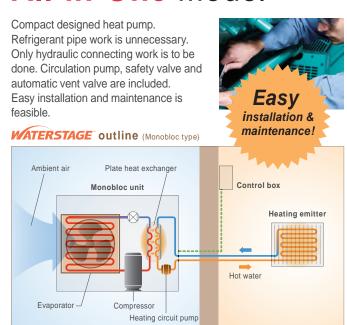
System can continuously supply hot water by built in back up heater or boiler, as emergency, even if an error is occurred.



Compact series



All-in-One Model





Compact & High Performance

HIGH COP

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



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

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

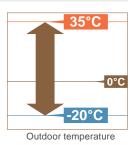
COMPACT & LIGHT WEIGHT DESIGN



WIDE OPERATION RANGE

Improved operation range down to -20°C outdoor temperature





Intelligent Control

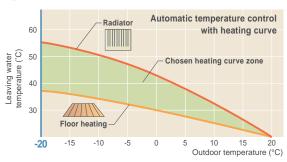
WIRED REMOTE CONTROLLER (CONTROL BOX) IS ADOPTED STANDARD.





AUTOMATIC HEATING CURVE CONTROL

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



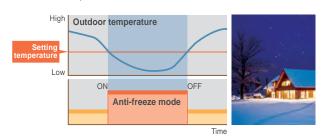
AND MORE

- •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".

18:28

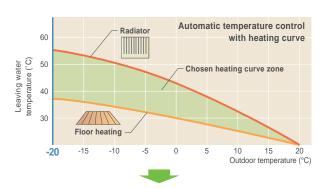


Simple operation mode setting

Comfort Control

Automatic heating curve operation

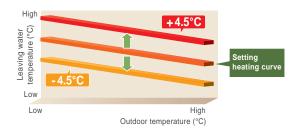
Automatic heating curve control based on outdoor temp and setting room temperature.



Heating curve off-set

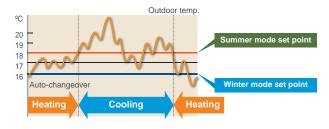
Adjust setting room temp.

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



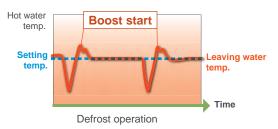
Auto-changeover

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.



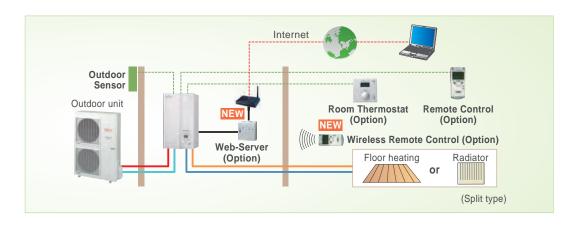
Quick recovery from defrost operation

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

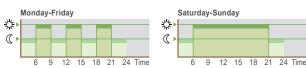
Programmable timer

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



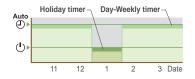
Day-Weekly timer setting

- •The day-weekly timer can be set up for up to 3 times per day.
- •Allows separate settings for each day of the week.



Holiday timer setting

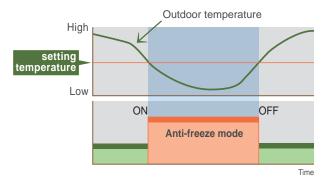
- •The holiday timer can be set up for up to 8 periods •If you are absent for a long time in
- If you are absent for a long time in the winter, freezing of room can be prevented.



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.

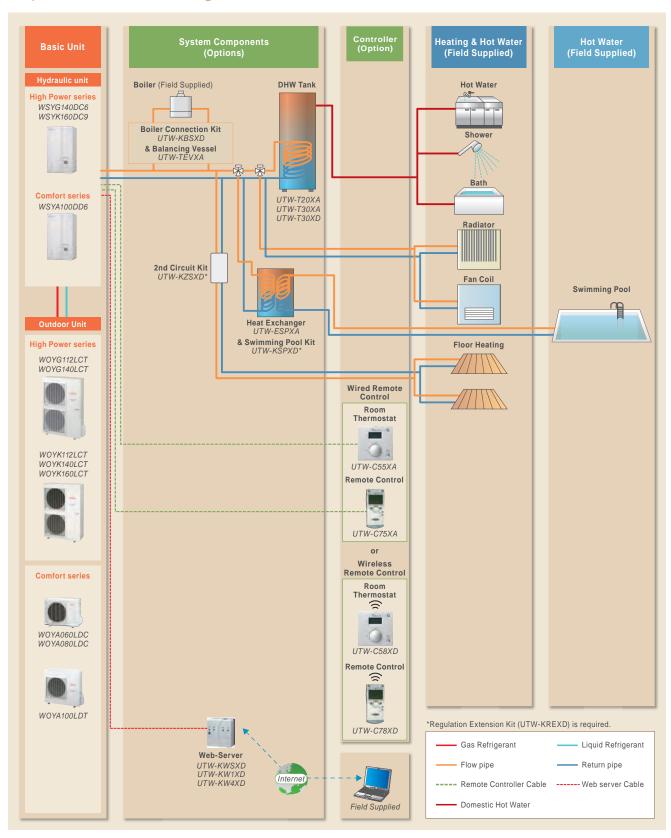




Total solution concept for comfort inside your home

SPLIT TYPE

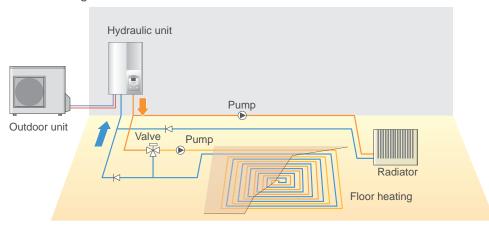
System configuration



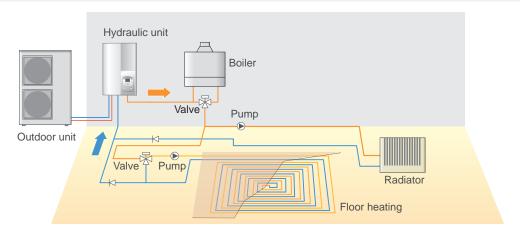
Split Case studies

2 emitter simultaneous heating (Individual control)

Floor heating + Radiator

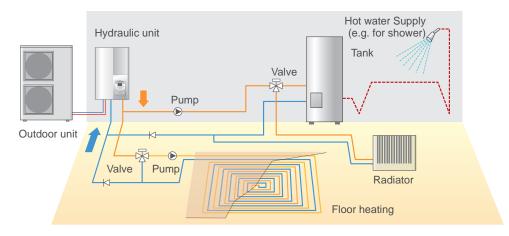


Boiler connected to heating (Boiler + Heating)



3 types of heat distribution

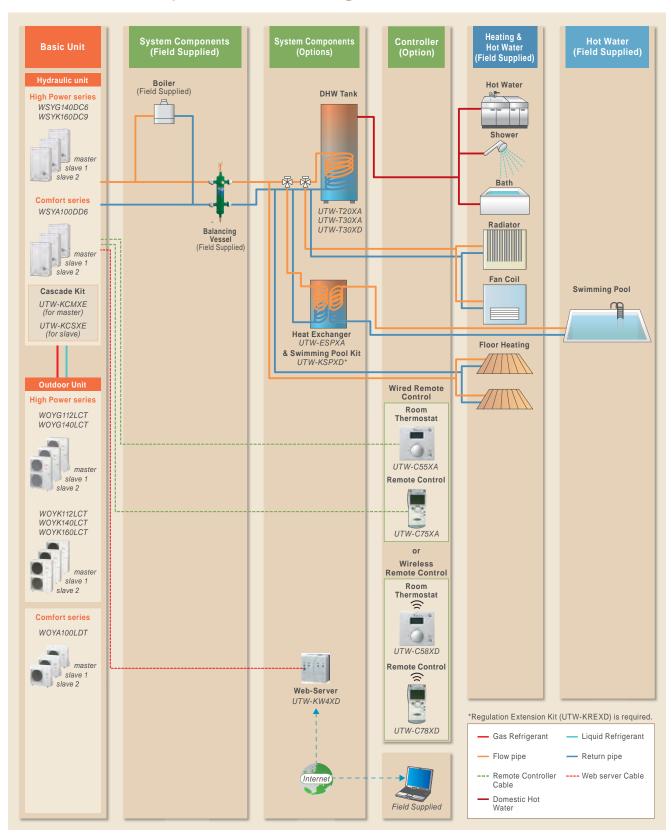
Floor heating + Radiator + Domestic Hot Water



Total solution concept for comfort inside your home

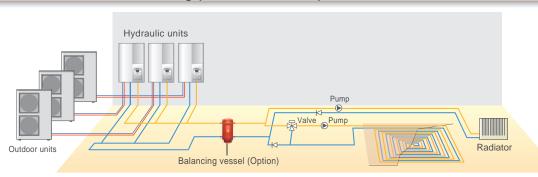
SPLIT TYPE

Cascade System configuration

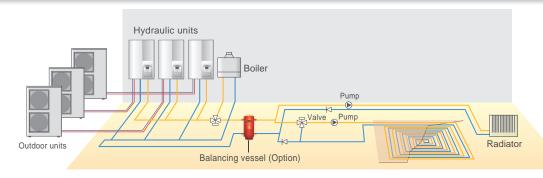


Split Cascade System Case studies

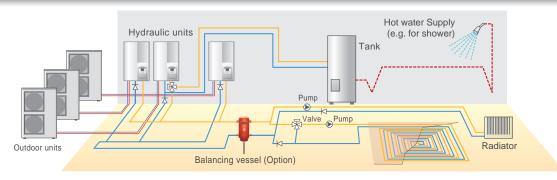
2 emitter simultaneous heating (Individual control)



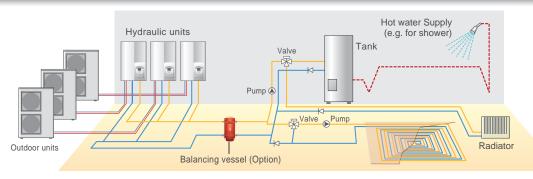
Boiler connected to heating (Boiler + Heating)



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



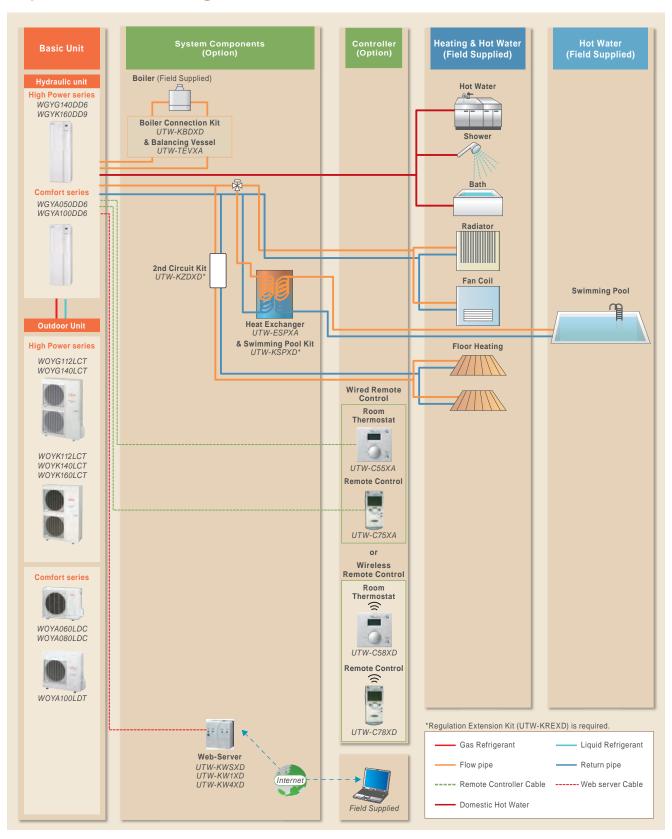
2 emitter simultaneous heating & Domestic Hot Water (type B)



Total solution concept for comfort inside your home

SPLIT DHW INTEGRATED TYPE

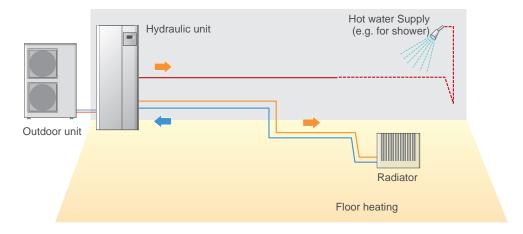
System configuration



Split DHW integrated Case studies

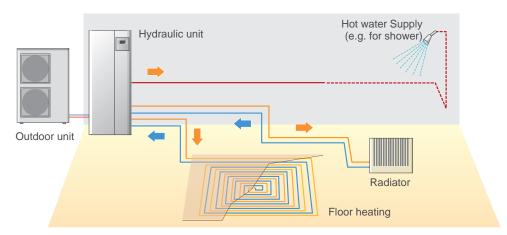
Single heating & Domestic Hot Water

Radiator + Domestic Hot Water

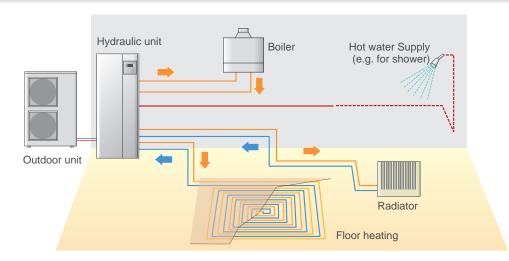


2 emiter simultaneous heating (Individual control) & Domestic Hot Water

Floor heating + Radiator + Domestic Hot Water



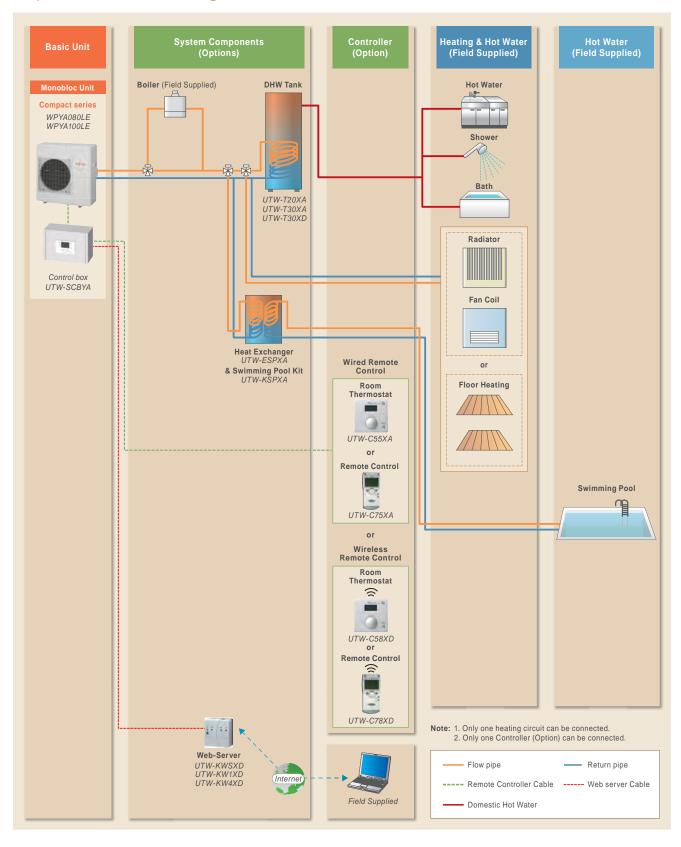
Boiler connected to heating (Boiler + Heating) & Domestic Hot Water



Total solution concept for comfort inside your home

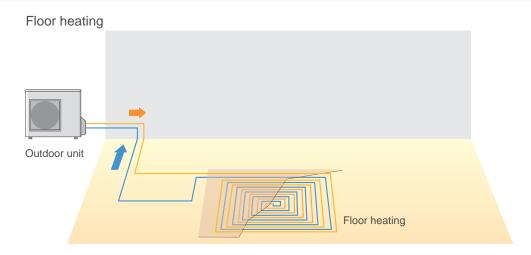
MONOBLOC TYPE

System configuration

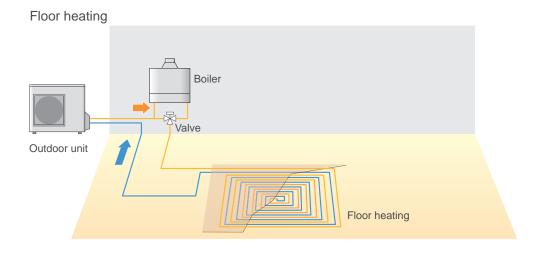


Monobloc Case studies

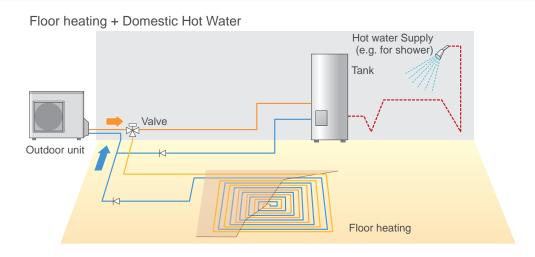
Single heating system



Boiler connected to heating (Boiler + Heating)



2 types of heat distribution



Optional Parts Compatibility

		Split							Monobloc			Split DHW integrated type									
Product Name	Model Name			gh Po					mfort			npact			gh Po					nfort	
														Ø I						Ø	
	UTW-KZSXD	11	14	11	14	16	5	6	8	10	8	10	11	14	11	14	16	5	6	8	10
2nd Circuit Kit	UTW-KZDXD	_	_	_	_	_	_	_	_	_	_	_	•	•	•	•	•	•	•	•	•
	UTW-KBSXD	•	•	•	•	•	•	•	•	•	_	_	_	_	_	_	_	_	_	_	
Boiler Connection kit	UTW-KBDXD	_	_		_	_	_	_	_	_	_	_	•	•	•	•	•	•	•	•	•
Balancing vessel	UTW-TEVXA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DHW kit	UTW-KDWXA	-	_	_	_	_	_	_	_	_	•	•	*1	*1	*1	*1	*1	*1	*1	*1	*1
DHVV KIL	UTW-KDWXD	•	•	•	•	•	•	•	•	•	_	_	—*1	*1	—*1	*1	*1	*1	*1	*1	*1
DHW Expansion Vessel kit	UTW-KDEXE	_	_	_	_	_	_	_	_	_	_	_	•	•	•	•	•	•	•	•	•
200 Liter 300 Liter DHW tank	UTW-T20XA UTW-T30XA	•	•	•	•	•	•	•	•	•	•	•	—*1	*1	*1	*1	*1	*1	*1	*1	*1
300 Liter	UTW-T30XD	•	•	•	•	•	•	•	•	•	•	•	*1	*1	*1	*1	*1	*1	*1	*1	*1
Circulating pump	UTW-PHFXD	•	•	•	•	•	_	_	_	_	_	_	•	•	•	•	•	_	_	_	_
Swimming Pool kit	UTW-KSPXA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TOOTAL	UTW-KSPXD	•	•	•	•	•	•	•	•	•	_	_	•	•	•	•	•	•	•	•	•
Heat Exchanger for swimming pool kit	UTW-ESPXA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cooling kit	UTW-KCLXD	•	•	•	•	•	•	•	•	•	*2	*2	•	•	•	•	•	•	•	•	•
Regulation Extension Kit	UTW-KREXD	•	•	•	•	•	•	•	•	•	_	_	•	•	•	•	•	•	•	•	•
Solar Regulation Kit	UTW-KSRXE	•	•	•	•	•	•	•	•	•	_	_	_	_	_	_	_	_	_	_	_
Mode Exchange Kit	UTW-KMEXE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Low Noise Kit	UTW-KLNXE	•	•	•	•	•	_	_	_	_	_	_	•	•	•	•	•	_	_	_	_
HMI Kit	UTW-KHMXE'5	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•

		Split							Mon	obloc	Split DHW integrated type											
Product Name		Model Name		Hi	gh Po	wer			Cor	nfort		Con	npact		Hi	gh Po	wer			Con	nfort	
1 Toddot Harrio		Wodor Hamo	1Ø					1Ø			1Ø		1Ø							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	(// _•	UTW-C78XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Wileless	UTW-C78XD-E ^{*5}	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Room	Wired	UTW-C55XA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Thermostat	Wireless	UTW-C58XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Outdoor Sensor Transmitter	(le	UTW-MOSXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RF Modules	for X60-Port	UTW-M60XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	or BSB-Port	UTW-MRCXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Web server	1.4.	UTW-KWSXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
web server	[T / S 1]	UTW-KW1XD UTW-KW4XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cascade Master (incl. LPB Clip)	Kit	UTW-KCMXE	•	•	•	•	•	_	_	_	•	_	_		_	_	_	_	_	_	_	_
Cascade Slave K (incl. LPB Clip)	Git	UTW-KCSXE	•	•	•	•	•	_	_	_	•	_	_	_	_	_	_	_	_	_	_	_
LPB Clip		UTW-KL1XD	•	•	•	•	•	•	•	•	•		_	•	•	•	•	•	•	•	•	•
Base Heater		UTZ-HAMXE	_				_	_			_	•	•			_						
Service Tool (incl.OCI700 ada	ptor)	UTW-KSTXD	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•	•	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•*3
Service Tool Software	0	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

• : Available — : Not Available

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

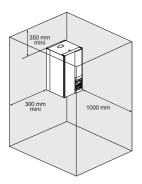
*4: UTW-KSTXD(OCI700 adaptor not included), UTW-KW1XD or UTW-KW4XD is required for the connection.

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

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

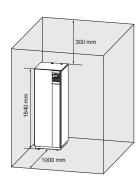
Piping

Split Type



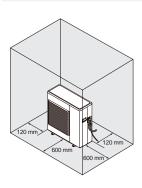
Series	Capacity range(kW)	H (m)	L (m)
	5		
Comfort	6		
Comion	8		
	10	±15	5-20
Lliah	11		
High power	14		
	16		

Split DHW integrated Type Hydraulic unit



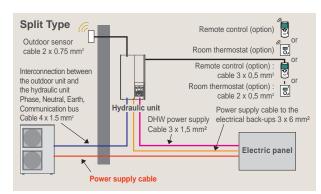
- ·Floor stand
- Weight:366kg (including water)
- Distances for maintenance should be respected.

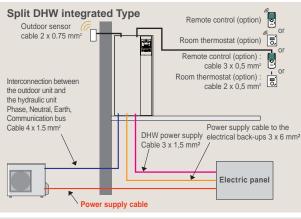
Monobloc Type Outdoor unit

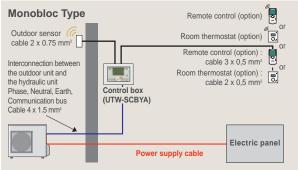


- · Floor stand
- · Weight 74 kg (without water)
- Distances for maintenance should be kept

Electrical wiring

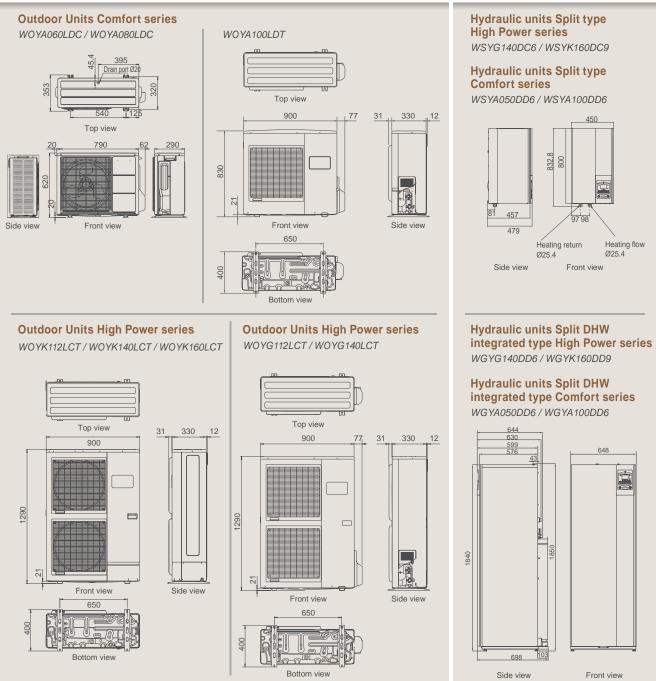






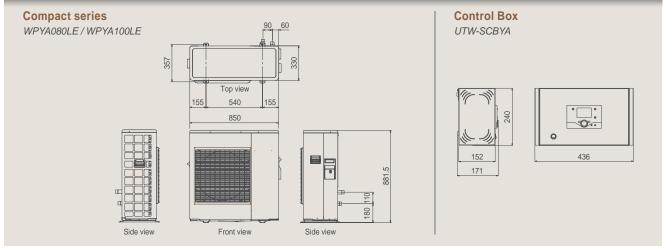
SPLIT TYPE

Unit: mm



MONOBLOC TYPE

Unit : mm



SPECIFICATIONS

Туре								Split type						
Series nar	ne				Hi	gh Power ser	ies		Comfort series					
										0				
Capacity r	ange (kW)			11	14	11	14	16		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	°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	°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	IX V	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	°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		Input power	IX V	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		Capacity	kW×pcs.	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	9.0(3.0 x 3pcs.)	9.0(3.0 x 3pcs.)	9.0(3.0 x 3pcs.)	6.0(3.0×2 pcs.) WSYA050DD6	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)		
Hydraulic unit Model name											WSYA100DD6			
Power sou	Power source				V, 50Hz		3Ø 400V, 50Hz	ı		1	V, 50Hz			
Water circ	ulation	Rated	L/min	31.2	39.0	31.2	39.0	43.8	13.00	17.33	21.66	28.88		
		Min / Max				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			800 × 450 × 457	'	800 × 450 × 457						
Weight (N			kg			42		42						
Buffer tank			L			16			16					
	vessel capacity		L			8			8					
	ater temperature ra		°C			8~60			8 ~ 55					
	connection diameter					Ø25.4 / Ø25.4			Ø25.4 / Ø25.4					
Outdoor u		Mo	del name	WOYG112LCT	WOYG140LCT	WOYK112LCT	WOYK140LCT	WOYK160LCT	WOYA	060LDC	WOYA080LDC	WOYA100LDT		
Power sou	ırce		1		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	15.41	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	9	12		99		4		42	60		
Refrigeran						R410A					10A	4.00		
	Refrigerant amount kg					2.50				10	1.40	1.80		
Additional	refrigerant charge	1	g/m			50			2	0	20	40		
	Diameter	Liquid	mm			Ø9.52			~.	Ø6.35	~-	Ø9.52		
Connection	1 4	Gas	mm			Ø15.88		Ø1:	2.70		5.88			
pipe -	Length	Min / Max	m			5 / 20					20			
	Length (chargeless)	Max	m			15					5			
	Height difference	Max	m			15					5			
Operation	range	Heating	°C			-25~35				-20	~ 35			

Туре			Monobloc type					
Series name				ct 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	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	V, 50Hz				
Water circulation	Rated	L/min	22.9	28.7				
vvater circulation	Min / Max	L/111111	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 HxWxD		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.

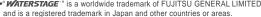
*2. Sound pressure level measured at distance of 1 m from the device.

Туре				Split DHW integrated type											
Series na	me				Hi	gh Power ser		orive integrate	Comfort series						
OCHOS HA	me			0		girrowersen					. Series				
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	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	r 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	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	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	134/	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 h	eater	Capacity	kWxpcs.	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	9.0(3.0 × 3pcs.)	9.0(3.0 x 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	Hydraulic unit Model nan			WGYG	140DD6		WGYK160DD9		WGYA050DD6		WGYA100DD6				
Power so	urce			1Ø 230	V, 50Hz		3Ø 400V, 50Hz		1Ø 230	V, 50Hz					
Water circulation		Rated	I torio	31.2	39.0	31.2	39.0	43.8	13.00	17.33	21.66	28.88			
vvater 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			mm			1840 × 648 × 698	3		1840 × 6	48 × 698					
Weight (N	let)		kg			152			1;	52					
DHW cap	acity		Ľ			190			19	90					
Hot water	heater capacity		kW			1.5		1.5							
Buffer tan	k capacity		L			16			16						
	n vessel capacity		L			12			12						
	vater temperature ra	ange	°C			8~60			8~55						
	connection diameter	, -	mm			Ø25.4 / Ø25.4			Ø25.4 / Ø25.4						
	pipe diameter		mm		(Ir	nlet/Outlet) Ø19.0	05			(Inlet/Outle					
Outdoor u		Mo	del name	WOYG112LCT	WOYG140LCT	WOYK112LCT	WOYK140LCT	WOYK160LCT	WOYAG		WOYA080LDC	WOYA100LDT			
Power so					V, 50Hz		3Ø 400V, 50Hz				V, 50Hz				
		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	- 00		1290 × 900 × 330				620 × 790 × 290		830×900×330			
Weight (N			kg	c	12	1200 11 000 11 001	99		4		42	60			
Refrigera	,		9		-	R410A					10A				
			kg			2.50			1.		1.40	1.80			
		g/m			50			2		20	40				
Additional	Tremgerant charge	Liquid	mm			Ø9.52				Ø6.35	20	Ø9.52			
	Diameter	Gas	mm			Ø15.88			Ø12		Ø1	5.88			
Connection	Length	Min / Max	m			5 / 20			W12	5/		3.00			
pipe	Length (chargeless)	Max	m			15					5				
	Height difference	Max				15					5				
Operation		Heating	°C			-25~35									
Operation	i range	rieauriy		l		-20~30			-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.



 ^{**}WATERSTAGE** is a worldwide trademark of FUJITSU GENERAL LIMITED and is a registered trademark in Japan and other countries or areas.
 *The colors may be different from the actual colors because this catalog is printed matter.
 *Specifications and design subject to change without notice for future improvement.
 Please check with your dealer











ISO 9001 ISO 1400-1 number : 01 100 79269 Certified number : 3101 Fujitsu General (Shanghai) Co., Ltd.

Distributed by :

FUJITSU GENERAL LIMITED

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