





SPLIT TYPE SPLIT DHW INTEGRATED TYPE MONOBLOC TYPE



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

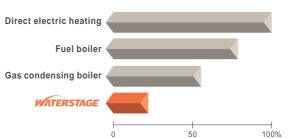
Advantages of WATERSTAGE

LESS CO₂ EMISSIONS

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

Advantage





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

LOW RUNNING COST

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

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



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

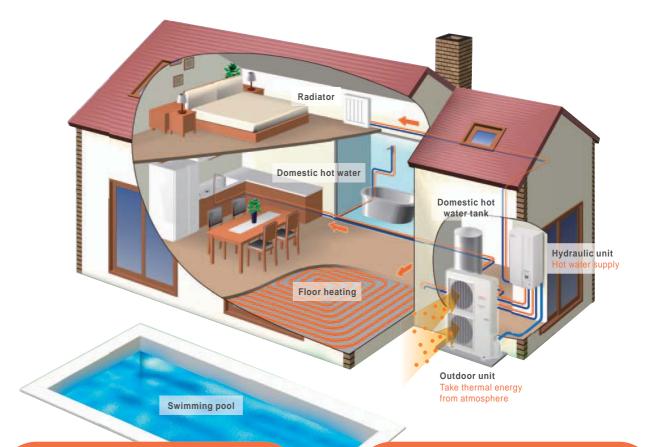
No chimney sweep

No pollution Low maintenance cost

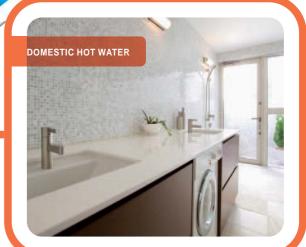












Product lineup for various needs

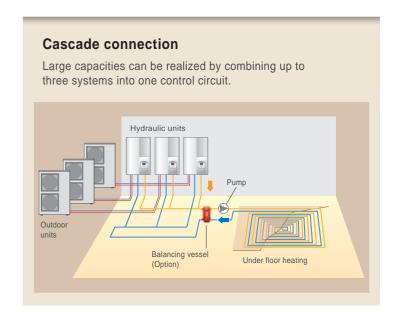
Туре			SPLIT TY	PE			SPLIT DHW IN	SPLIT DHW INTEGRATED TYPE
		High p	ower series	Comfort series		Hig	High power series	High power series Comfort series
		Usable outdoor temperature: -25°C		Usable outdoor temperature: -20°C		temperature	Usable outdoor temperature: -25°C	temperature: -25°C NEW temperature: -20°C
Series			Hydraulic unit	Hydraulic unit			Hydraulic unit	Hydraulic unit Hydraulic unit
		Outdoor unit		Outdoor unit NEW NEW		Outdoor unit	Outdoor unit	Outdoor unit NEW NEW
		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 / 6 / 8 kW 10 kW
		60°C hot water supply temperature	even at -20°C outdoor	55°C hot water supply even at -7°C outdoor temperature			60°C hot water supply even at -20°C outdoor temperature	
		Powerful heating capacilow outdoor temperature		Floor heating and radiators can be used together.	• Powerfu	ul heati	rul heating capacity supplied even putdoor temperature	ul heating capacity supplied even • Floor heating and radiators can be used
		Different heating system floor heating, radiators	m can be used. Like	Heating and DHW in one system.* Additional electric heater for backup	Different heat	ti	ting system can be used. ating, radiators and others*	ting system can be used. • Heating and DHW space saving in one
Features		Heating and DHW in or Outdoor low noise fund		provided • Up to two independent control circuits:	 Heating and D hydraulic unit. 	ΗV	√ space saving in one	Additional electric heater for backup provided
		Energy saving peak cur		• Op to two independent control circuits.	Outdoor low no			
		Additional electric heat					cut function* eater for backup	
		• Up to two independent	control circuits:		provided • Up to two inde	pende	ent control circuits.*	ent control circuits*
			T				T.	
Power source		1Ø 230V / 50Hz	3Ø 400V / 50Hz	1Ø 230V / 50Hz	1Ø 230V / 50	Hz	3Ø 400V / 50Hz	
	5 kW							
	6 kW			•				
	8 kW 10 kW			•				
Capacity range	11 kW						•	
	14 kW	•	•		•		•	
	16 kW						•	

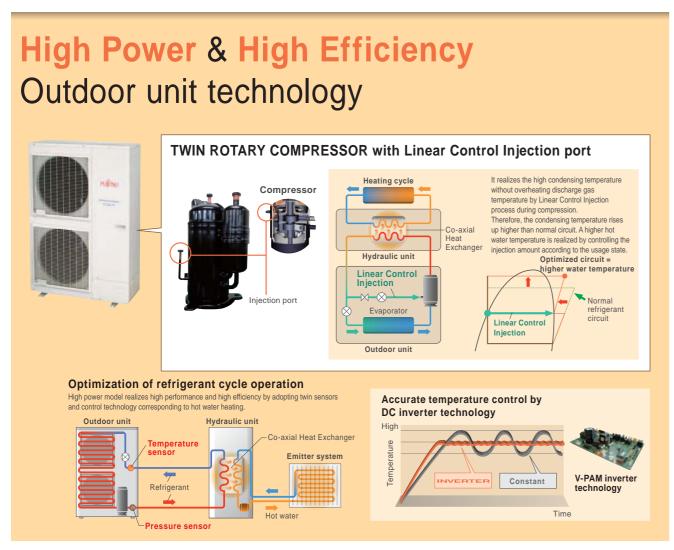
*Optional parts are required.

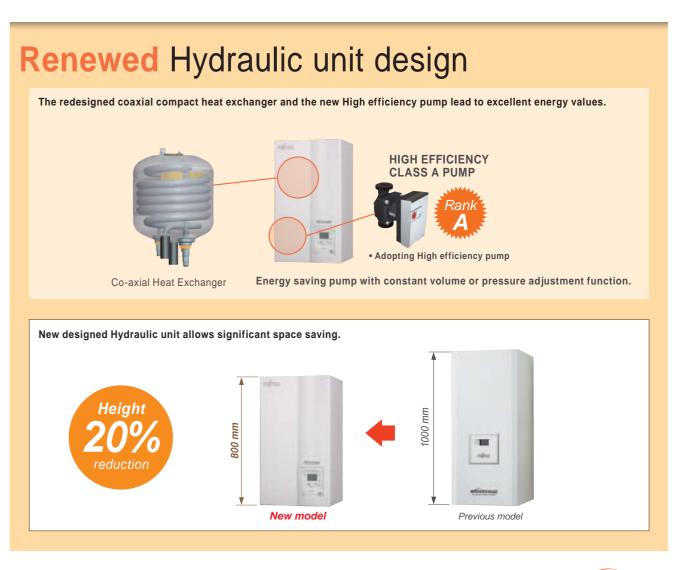




High power models realizes
high heating capacity and high
efficiency by newly developed
"Linear Control Injection
Technology" and "Co-axial
Heat Exchanger".
These properties are the key
for a reliable heating operation
throughout the whole yeareven in a strong winter.







WATERSTAGE[®] 11 ■

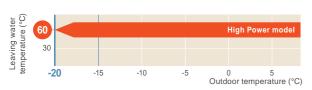
Powerful Heating

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.



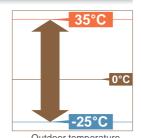


* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.

EXTENDED OPERATION RANGE DOWN TO -25°C

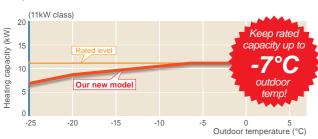
Improved operation range down to -25°C outdoor temperature





STRONG & POWERFUL HEATING CAPACITY

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



High Efficiency

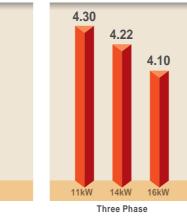
4.25

4.18

Single Phase

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.

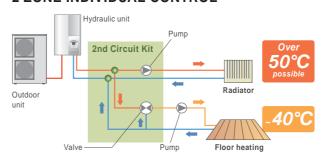






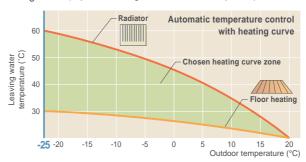
Intelligent Control

2 ZONE INDIVIDUAL CONTROL*



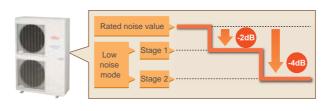
AUTOMATIC HEATING CURVE CONTROL

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



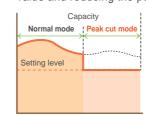
2 STAGE LOW NOISE MODE*

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.*

*Optional parts are required

High Reliability

HIGH DURABILITY

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

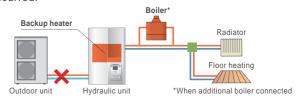


EASY INSTALLATION & MAINTENANCE

- •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.





■ 12 WATERSTAGE 13 ■

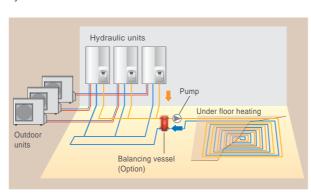
Comfort series



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

Cascade connection

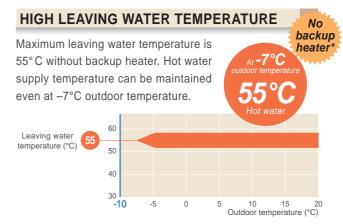
Large capacities can be realized by combining up to three systems into one control circuit.



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 DC TWIN ROTARY **DC INVERTER COMPRESSOR** Smooth water temperature control realized by DC High efficient DC inverter control. twin rotary compressor

High Efficiency & Comfort





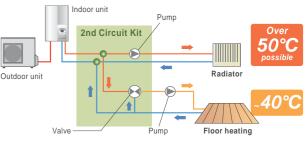
* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.

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



Intelligent Control

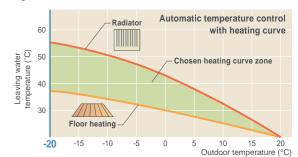
2 ZONE INDIVIDUAL CONTROL*



*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

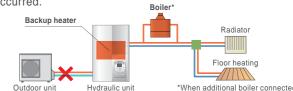
High Reliability

HIGH DURABILITY



EMERGENCY OPERATION

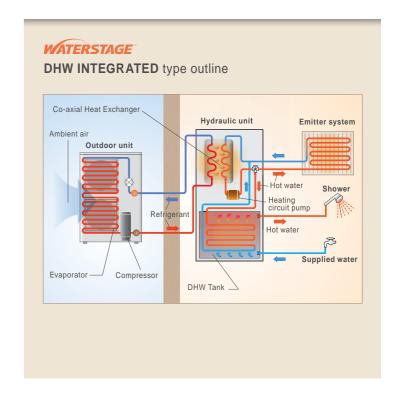
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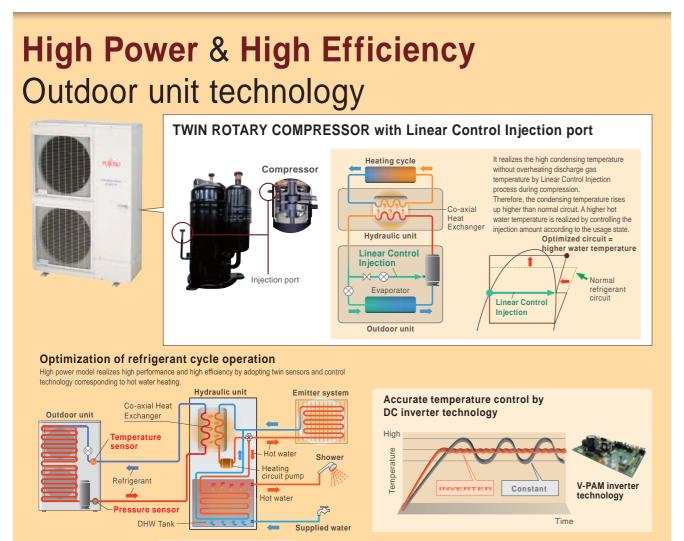


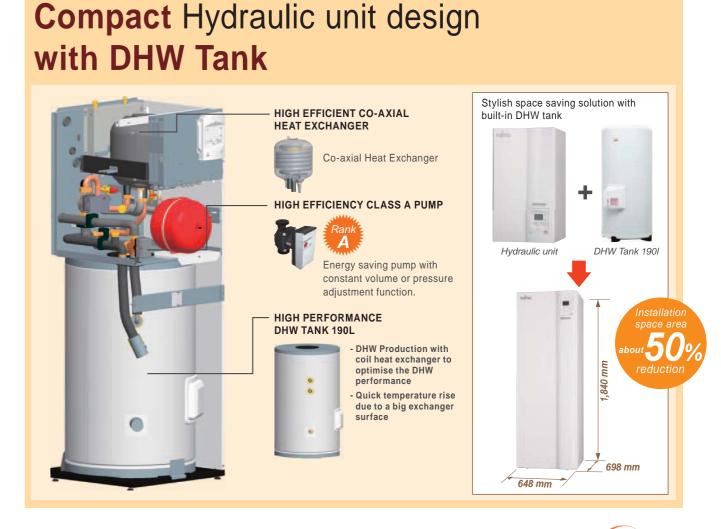


Split DHW integrated type realizes significant space saving because of the integrated DHW tank. Quick hot water supply is possible due to built-in high performance DHW tank. Heating and domestic hot water supply can be selected inside the intelligent controller. High Power models realize very efficient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









WATERSTAGE 17 ■

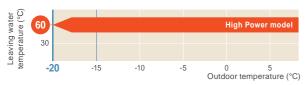
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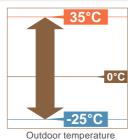




*If you want to raise the hot water supply temperature, backup heater can be used for the

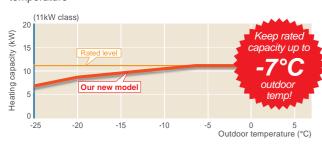
EXTENDED OPERATION RANGE DOWN TO -25°C





STRONG & POWERFUL HEATING CAPACITY

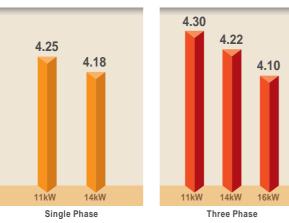
Keeping the rated heating capacity up to -7°C outdoor temperature



High Efficiency

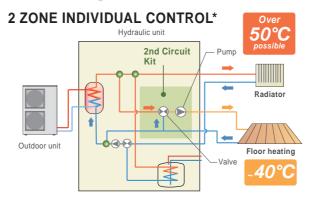
Energy efficiency is improved by the linear Control Injection Technology and the optimization of refrigerant cycle control. High power model realizes high performance and high efficiency by adopting twin sensors and control technology corresponding to hot water heating.

HIGH COP



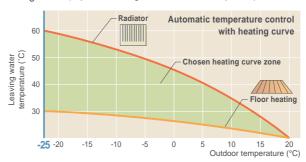


Intelligent Control



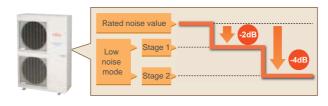
AUTOMATIC HEATING CURVE CONTROL

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



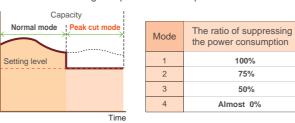
2 STAGE LOW NOISE MODE*

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.



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

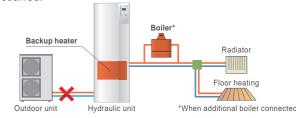


EASY INSTALLATION & MAINTENANCE

- •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.

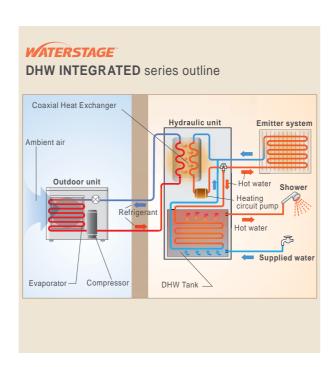




Comfort series



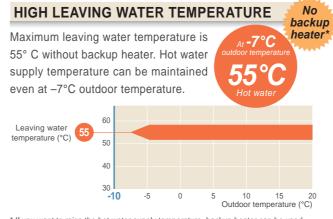
For Comfort series, optimized flow temperature control is realized by DC inverter technology.

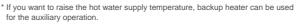


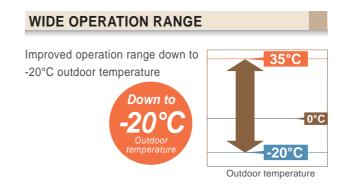


High Efficiency & Comfort

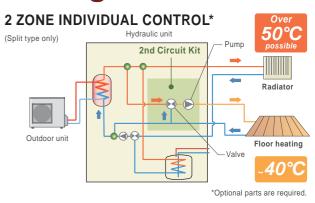






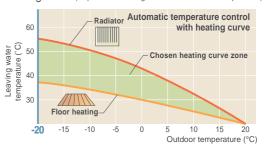


Intelligent Control



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.

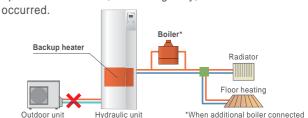
High Reliability

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

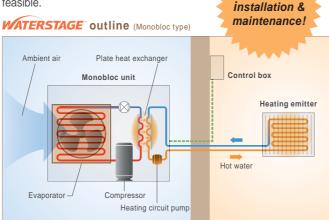


Compact series

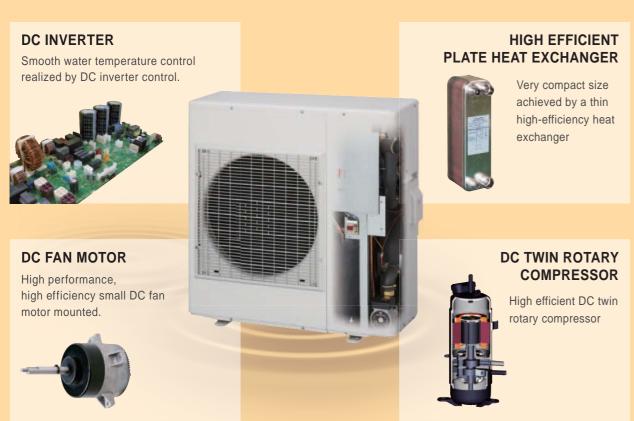


All-in-One Model

Compact designed heat pump. Refrigerant pipe work is unnecessary. Only hydraulic connecting work is to be done. Circulation pump, safety valve and automatic vent valve are included. Easy installation and maintenance is feasible. WATERSTAGE outline (Monobloc type)



High Efficiency Technology



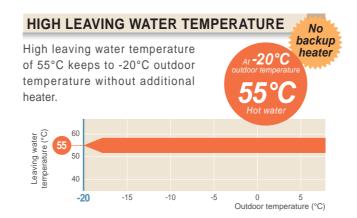
Compact & **High** Performance

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



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

Intelligent Control

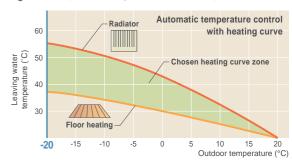
WIRED REMOTE CONTROLLER (CONTROL BOX) IS ADOPTED STANDARD.





AUTOMATIC HEATING CURVE CONTROL

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



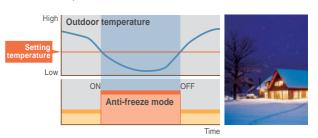
AND MORE

- •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

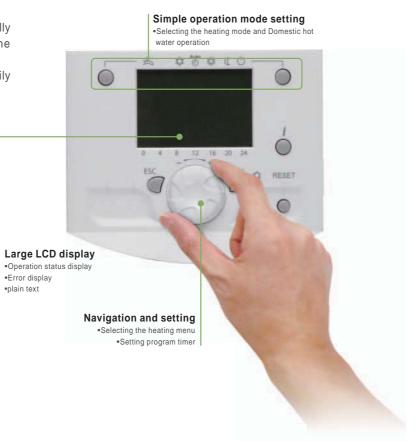
- •No installation of refrigerant circuit connections.
- Easy access for maintenance operations

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".

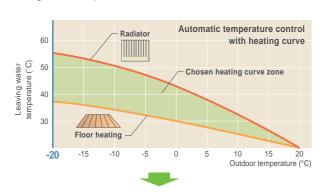




Comfort Control

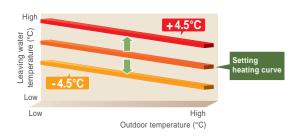
Automatic heating curve operation

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



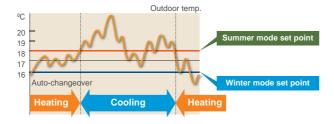
Heating curve off-set Adjust setting room temp.

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



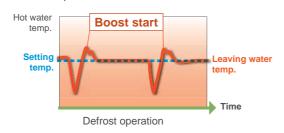
Auto-changeover

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.



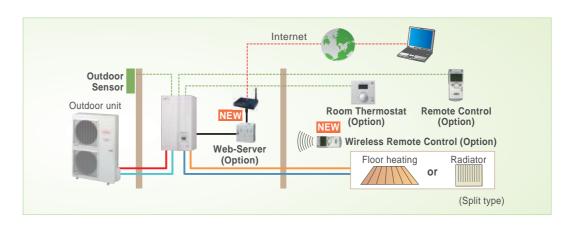
Quick recovery from defrost operation

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.

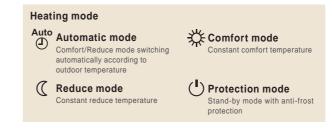


Energy Saving

Programmable timer

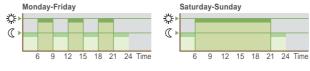
•The setting of timer operation can easily be adjusted.

•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

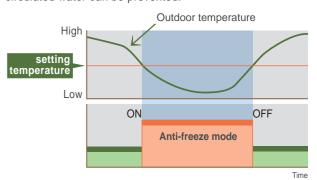
•If you are absent for a long time in the winter, freezing of room can be prevented



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

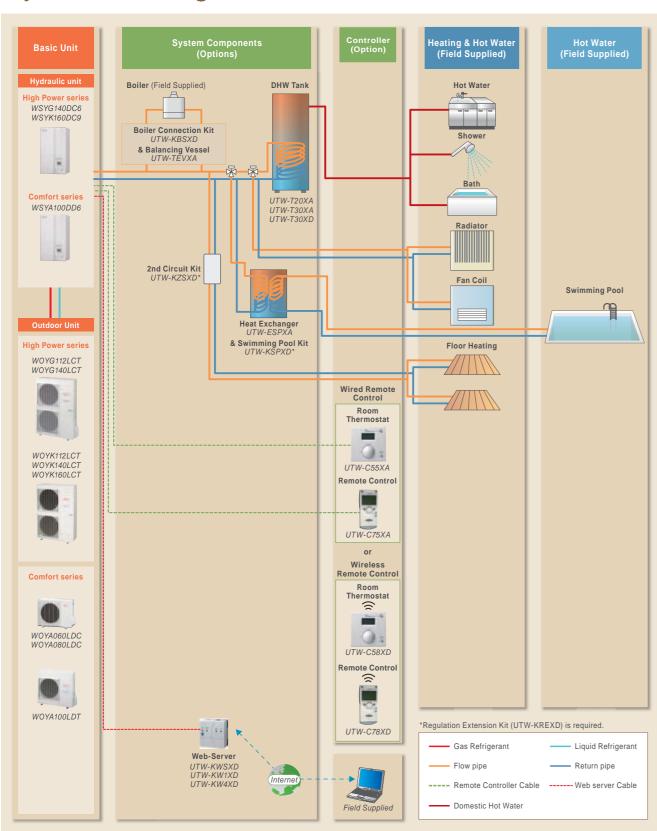
The growth of Legionella in DHW tank is suppressed and safe and clean hot water is supplied at all times.





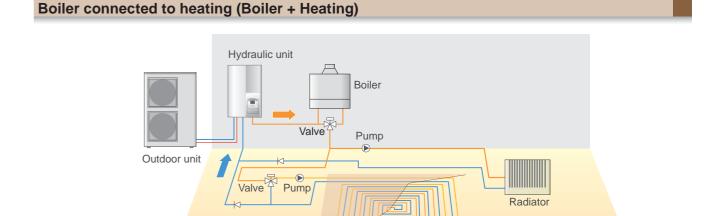
Total solution concept for comfort inside your home SPLIT TYPE

System configuration

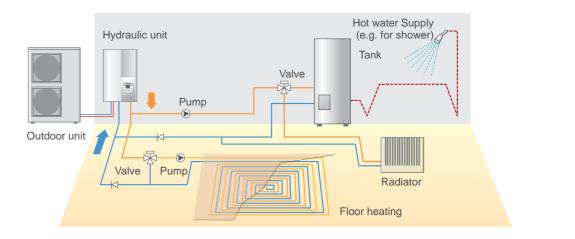


Split Case studies

2 emitter simultaneous heating (Individual control) Floor heating + Radiator Hydraulic unit Pump Outdoor unit Pump Radiator Floor heating



3 types of heat distribution Floor heating + Radiator + Domestic Hot Water

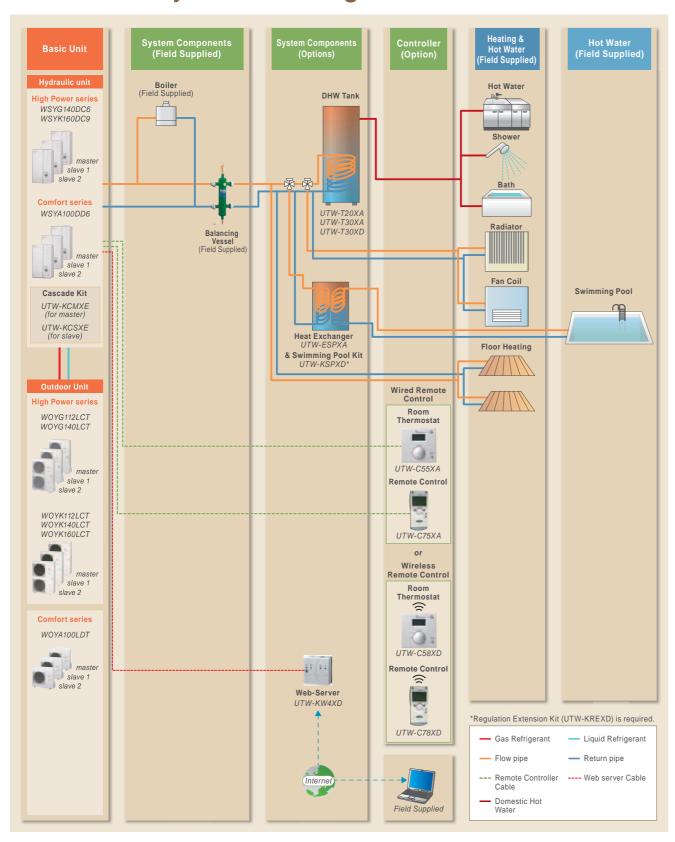


Floor heating

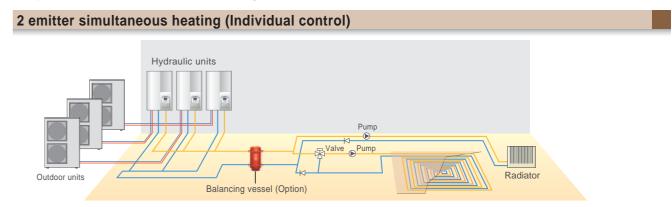
26 **Waterstage** 27 ■

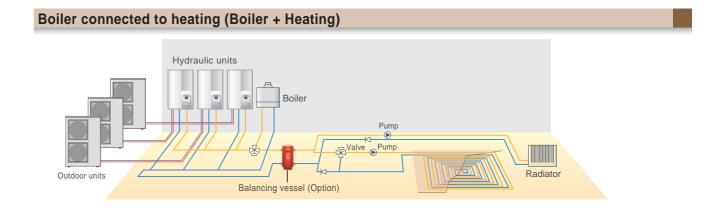
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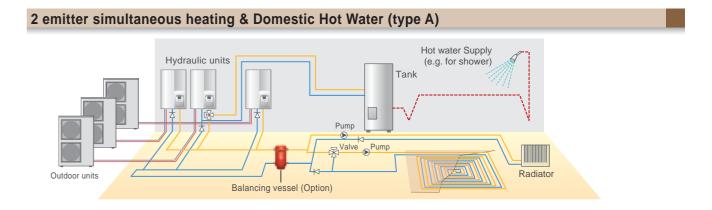
Cascade System configuration

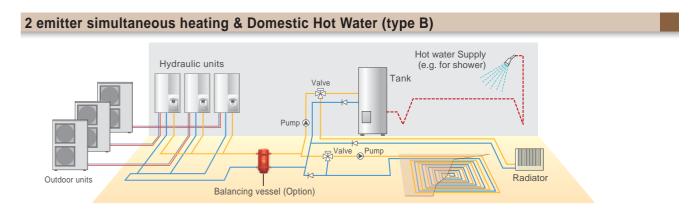


Split Cascade System Case studies





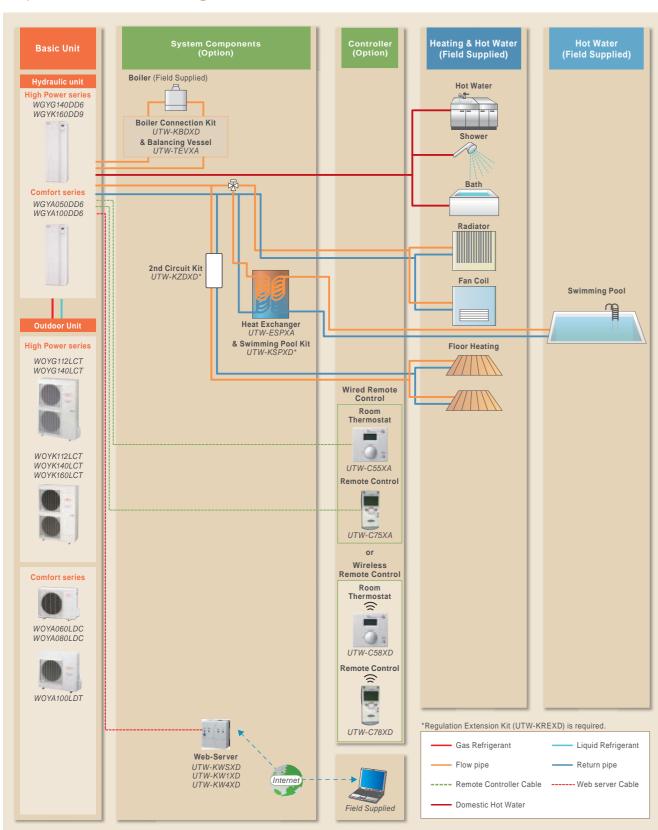




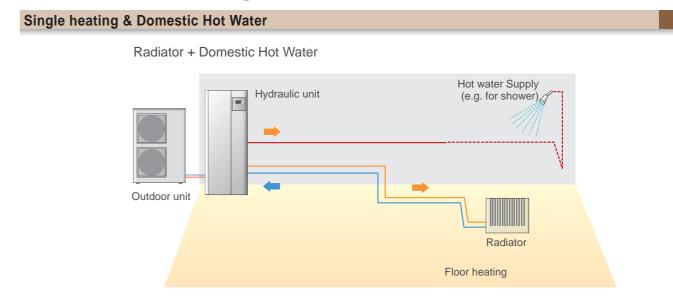
Total solution concept for comfort inside your home

SPLIT DHW INTEGRATED TYPE

System configuration

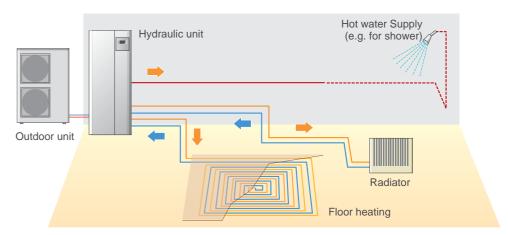


Split DHW integrated Case studies

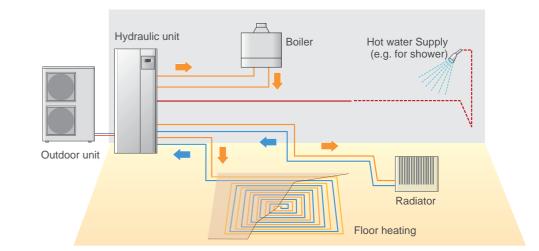


2 emiter simultaneous heating (Individual control) & Domestic Hot Water

Floor heating + Radiator + Domestic Hot Water



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

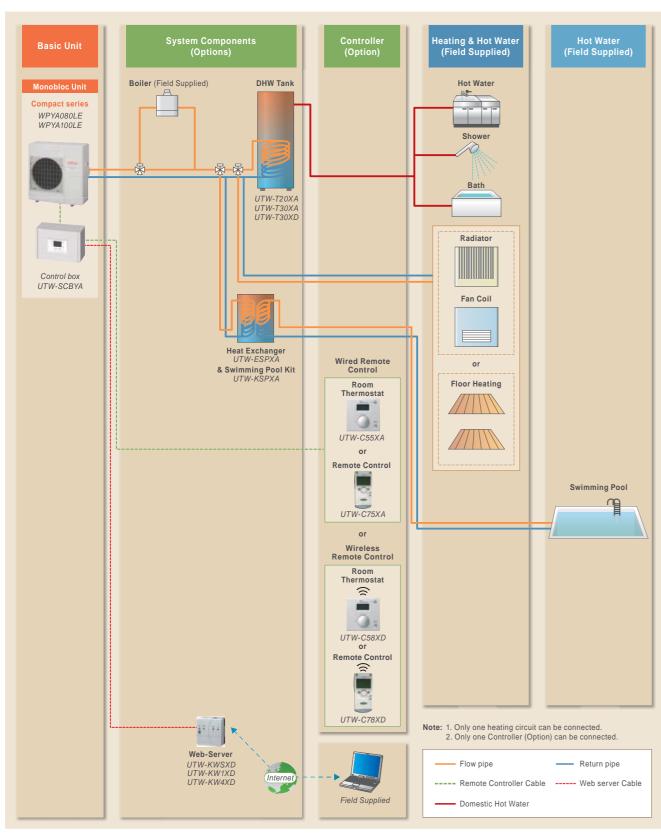


WATERSTAGE 31 ■

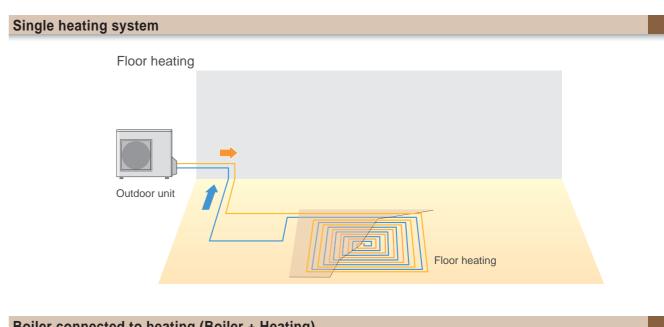
Total solution concept for comfort inside your home

MONOBLOC TYPE

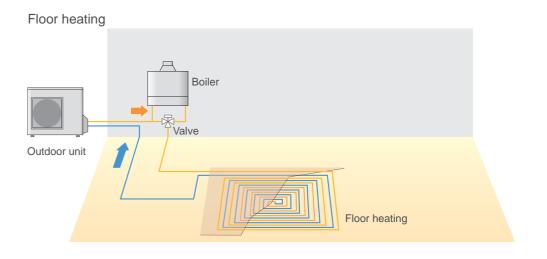
System configuration



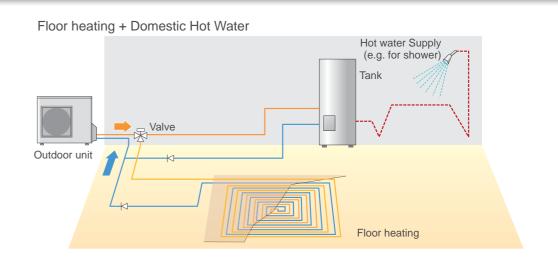
Monobloc Case studies



Boiler connected to heating (Boiler + Heating)



2 types of heat distribution



■ 32 WATERSTAGE **WATERSTAGE**[™] 33 ■

Optional Parts Compatibility

							Split					Mon	obloc			Spli	t DHW	/ integ	rated	type		
Product Name		Model Name		Hi	gh Po	wer			Cor	nfort		Con	npact		Hi	gh Po	wer			Con	nfort	
			_							Ø					Ø						Ø	
	L		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	F	UTW-KZDXD	_	_	_	_	_	_	_	_	_	_	_	•	•	•	•	•	•	•	•	•
Boiler	D	UTW-KBSXD	•	•	•	•	•	•	•	•	•	_	_	_	_	_	_	_	_	_	_	_
Connection kit	3	UTW-KBDXD	_	_	_	_	_	_	_	_	_	_	_	•	•	•	•	•	•	•	•	•
Balancing vessel	4	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
DHW Expansion Vessel kit		UTW-KDEXE	_	_	_	_	_	_	_	_	_	_	_	•	•	•	•	•	•	•	•	•
DHW tank —	200 Liter 300 Liter	UTW-T20XA UTW-T30XA	•	•	•	•	•	•	•	•	•	•	•	*1	*1	*1	*1	*1	*1	*1	—*1	*1
	300 Liter	UTW-T30XD	•	•	•	•	•	•	•	•	•	•	•	*1	*1	*1	*1	*1	*1	*1	*1	*1
Circulating pump	767	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	•	•	•	•	•	•	•	•	•	_	_	•	•	•	•	•	•	•	•	•
Solar Regulation Kit	0,00	UTW-KSRXE	•	•	•	•	•	•	•	•	•	_	_	_	_	_	_	_	_	_	_	_
Mode Exchange Kit		UTW-KMEXE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Low Noise Kit		UTW-KLNXE	•	•	•	•	•	_	_	_	_	_	_	•	•	•	•	•	_	_	_	_
HMI Kit		UTW-KHMXE'5	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•

							Split					Mon	obloc			Spli	t DHV	/ integ	rated	type		
Product Name		Model Name		Hi	gh Po	wer			Cor	nfort		Com	pact		Hi	gh Po	wer			Cor	nfort	
1 Toddot Trainio			1										Ø	1								
			11	14	11	14	16	5	6	8	10	8	10	11	14	11	14	16	5	6	8	
	Wired	UTW-C75XA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Remote	Wired	UTW-C75XA-E*5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Controller	(ll.	UTW-C78XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Wireless	UTW-C78XD-E ^{*5}	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Com 116 6	•	
Room	Wired	UTW-C55XA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Thermostat	Wireless	UTW-C58XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Outdoor Sensor Transmitter	(4.	UTW-MOSXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
for the second of the second o	or X60-Port	UTW-M60XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	or BSB-Port	UTW-MRCXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Mahaaaaa	1. (4.1)	UTW-KWSXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Ī
Web server -	10/22	UTW-KW1XD UTW-KW4XD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Ī
Cascade Master I (incl. LPB Clip)	Kit	UTW-KCMXE	•	•	•	•	•	_	_	_	•	-	_	_	_	_	_	_	_	_	_	
Cascade Slave Ki (incl. LPB Clip)		UTW-KCSXE	•	•	•	•	•	_	_	_	•	_	_	_	_	_	_	_	_	_	_	
LPB Clip		UTW-KL1XD	•	•	•	•	•	•	•	•	•	-	_	•	•	•	•	•	•	•	•	
Base Heater		UTZ-HAMXE	_	_	_	_	_	_	_	_	_	•	•	_	_	_	_	_	_	_	_	
Service Tool (incl.OCI700 adap	otor)	UTW-KSTXD	•*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	

^{*1:} DHW operation is possible without DHW Kit and DHW Tank.

*2: Cooling operation is possible without cooling kit

WATERSTAGE 35 ■

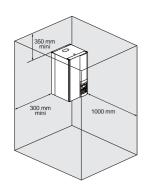
^{*4:} UTW-KSTXD(OCI700 adaptor not included), UTW-KW1XD or UTW-KW4XD is required for the connection.

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

Installation Limitations

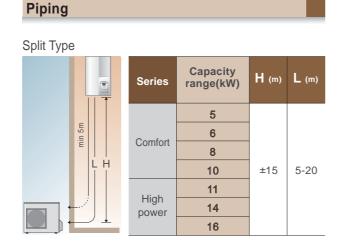
Equipment Installation

Split Type Hydraulic unit

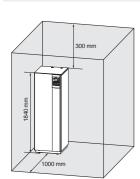


- · Hydraulic unit is to be hang on the wall
- · Weight < 60kg (including
- Distances for maintenance should be respected

Piping and Wiring

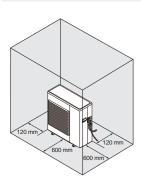


Split DHW integrated Type Hydraulic unit



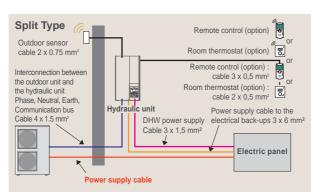
- Floor stand
- · Weight:366kg (including
- · Distances for maintenance should be respected.

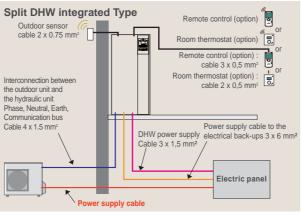
Monobloc Type Outdoor unit

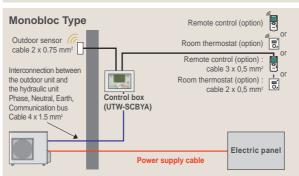


- Weight 74 kg (without water)
- · Distances for maintenance should be kept

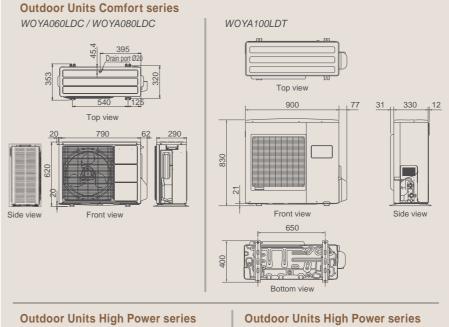
Electrical wiring







SPLIT TYPE



High Power series WSYG140DC6/WSYK160DC9 **Hydraulic units Split type Comfort series** WSYA050DD6 / WSYA100DD6 457 Ø25.4 Front view

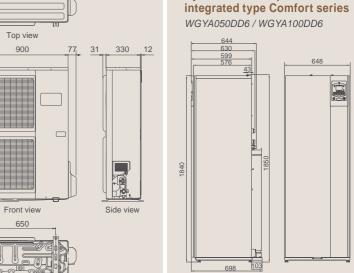
Hydraulic units Split DHW integrated type High Power series

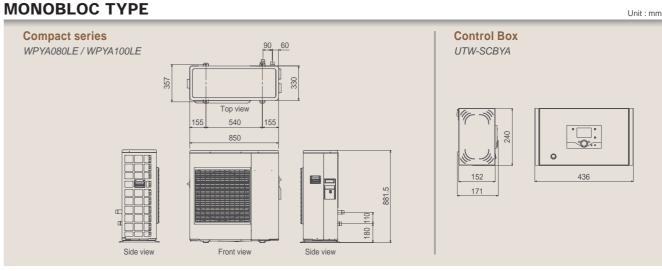
WGYG140DD6 / WGYK160DD9

Hydraulic units Split DHW

Hydraulic units Split type

WOYG112LCT/WOYG140LCT WOYK112LCT/WOYK140LCT/WOYK160LCT Top view 330





Туре								Split type				
Series na	me				Hi	gh Power ser	es			Comfor	t 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		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		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
700 / 05		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		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
.700 / . 4	-00!:-+ *1	Heating capacity	kW	9.23 2.84	11.54 3.72	10.10	12.60 3.81	13.00 4.00	4.50 1.30	5.10 1.50	6.20 1.87	8.27 2.53
+/*6/+4	5°C radiators *1	Input power			3.12	3.01						3.27
		COP		3.25 9.16	11.45	3.35 10.02	3.30 12.50	3.25 13.00	3.46 4.10	3.40 4.45	3.31 5.05	7.40
700 / . 45	°C radiators *1	Heating capacity	kW	4.58	5.92	4.63	6.00	6.37	1.86	2.04	2.47	3.70
-/ 10 / +40	C radiators 1	Input power COP		2.00	1.93	2.16	2.08	2.04	2.20	2.04	2.47	2.00
Backup h	ootor	Capacity	kW×pcs.	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 x 3pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)
Hydraulic			del name	\ 1 /	140DC6	9.0(3.0 x 3pcs.)	WSYK160DC9	9.0(3.0 x 3pcs.)	WSYA050DD6	0.0(3.0×2 pcs.)	WSYA100DD6	0.0(3.0×2 pcs.)
Power so		IVIO	uci ilallic		V, 50Hz		3Ø 400V, 50Hz		WSTAUJUDDU	1Ø 230	V, 50Hz	
Water circ		Rated	L/min	31.2	39.0	31.2	39.0	43.8	13.00	17.33	21.66	28.88
water cir	Julation	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			800 × 450 × 457				800 × 45	50 × 457	
Weight (N	let)		kg			42				4	2	
Buffer tar	k capacity		L			16				1	6	
Expansio	n vessel capacity		L			8				8		
Leaving v	vater temperature ra	ange	°C			8~60				8 ~	55	
Water pipe	connection diameter	Flow / Return	mm			Ø25.4 / Ø25.4				Ø25.4	/ Ø25.4	
Outdoor u	ınit	Mo	del name	WOYG112LCT	WOYG140LCT	WOYK112LCT	WOYK140LCT	WOYK160LCT	WOYA	060LDC	WOYA080LDC	WOYA100LDT
Power so	urce			1Ø 230	V, 50Hz		3Ø 400V, 50Hz			1Ø 230	V, 50Hz	
Current		Rated	A	11.4	14.2	3.7	4.8	5.5	4.5	6.3	8.1	10.9
Ourient		Max	_ ^	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
	ns H×W×D		mm			1290 × 900 × 330				620 × 790 × 290		830×900×330
Weight (N	,		kg	9	2		99		4		42	60
Refrigera						R410A					10A	
	nt amount		kg			2.50				10	1.40	1.80
Additiona	refrigerant charge		g/m			50			2	0	20	40
	Diameter	Liquid	mm			Ø9.52				Ø6.35		Ø9.52
Connection		Gas	mm			Ø15.88			Ø1:	2.70		5.88
pipe	Length	Min / Max	m			5 / 20				5 /		
	Length (chargeless)	Max	m			15					5	
	Height difference	Max	m			15				1		
Operation	range	Heating	°C			-25~35				-20	~ 35	

Туре			Monob	loc type
Series name			Compa	ct series
			0	
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	LAM	7.40	8.10
+2°C / +35°C floor heating*1	Input power	kW	2.73	3.00
	COP		2.71	2.70
	Heating capacity		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		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	WPYA080LE	WPYA100LE
Power source			1Ø 230	V, 50Hz
Water circulation	Rated	I /min	22.9	28.7
vvater dirediation	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 × 8	350 × 330
Weight (Net)		kg	7	74
Water pipe connection diameter	Flow / Return	mm	Ø25.4	/ Ø25.4
Refrigerant			R4	10A
Refrigerant amount		kg	1	.5
Leaving water temperature range		°C	8 ~	- 55
Operation range	Heating	°C	-20	~ 35

^{*1.} The values of heating capacity/power input/COP are based on measurement of EN14511 standard.

Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined and these values.

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

Type				_		_	Split D	HW integrate	d type						
Series nan	me				Hi	gh Power ser				Comfo	t series				
				0		3									
Capacity ra	ange (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°	°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	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°	°C radiators *1	Input power	NVV.	2.84	3.72	3.01	3.81	4.00	1.30	1.50	6.00 7.50 1.41 1.84 4.27 4.08 4.95 5.65 1.53 1.78 3.24 3.17 4.60 5.70 1.74 2.23 2.64 2.56 5.10 6.20 1.50 1.87 3.40 3.31 4.45 5.05 2.04 2.47 2.18 2.04 2.18 2.04 2.18 2.04 2.18 2.04 2.18 2.04 2.18 2.04 1.30(3.0×2pcs.) 60(3.0×2pcs.) WGYA100DD6 1Ø 230V, 50Hz 17.33 21.66 10.8/21.7 13.5/27.1 1840 × 648 × 698 152 190 1.5 16 12 8-55 Ø25.4 / Ø25.4 (Inlet/Outlet) Ø19.05 ILDC WOYA080LDC 1 1Ø 230V, 50Hz 6.3 8.1 12.5 17.5 51 2 56 2 0 × 790 × 290 R410A R410A 20 Ø6.35	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	NVV	4.58	5.92	4.63	6.00	6.37	1.86	2.04		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	kWxpcs.	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.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)			
Hydraulic (unit	Mod	del name	WGYG	140DD6		WGYK160DD9		WGYA050DD6						
Power sou	ırce			1Ø 230	V, 50Hz		3Ø 400V, 50Hz			1Ø 230	V, 50Hz				
Water circ	culation	Rated	L/min	31.2	39.0	31.2	39.0	43.8	13.00			28.88			
D:	- II W D	Min / Max				25.0 / 50.0			8.1/16.2			18.1/36.1			
	ns H×W×D		mm			1840 × 648 × 698	3								
Weight (Ne			kg			152									
DHW capa	heater capacity		L kW			190									
Buffer tank	, ,		L			1.5 16									
			L I												
	n vessel capacity rater temperature ra	200	°C			12 8~60									
	connection diameter		mm							WGYA100DD6					
	pipe diameter	Flow / Retuill	mm		/1-	Ø25.4 / Ø25.4	ne.								
Outdoor up		Mor	del name	WOYG112LCT	WOYG140LCT	woyk112LCT	WOYK140LCT	WOYK160LCT	WOYA	(,	WOYA100LDT			
Power sou		IVIO	uei ilaille		V. 50Hz	WOTKTIZECT	3Ø 400V, 50Hz	WOTKTOOLGT	WOTA			WOTATOOLDT			
1 0WC1 300	1100	Rated		11.4	14.2	3.7	4.8	5.5	4.5		,	10.9			
Current		Max	Α	22.0	25.0	8.5	9.5	10.5	11.0		_	18.5			
Noise leve	el (Sound pressure		dB(A)	55*2	56 *2	53 *2	55 *2	56 *2	48 *2			55*2			
	ns H×W×D	,	mm	- 00		1290 × 900 × 330		- 00		620 × 790 × 290		830×900×330			
Weight (Ne			kg		92	1200 X 000 X 000	99		4		42	60			
Refrigeran			1.5			R410A				R4					
Refrigeran			kg			2.50			1.	10		1.80			
	refrigerant charge	amount	g/m			50			2	10	20	40			
	0 0	Liquid	mm			Ø9.52				Ø6.35		Ø9.52			
	Diameter	Gas	mm			Ø15.88			Ø1:		Ø1				
Connection	Length	Min / Max	m			5 / 20						-			
DIDE F	Length (chargeless)	Max	m			15									
l l		Max	m			15									
	Height difference	IVIdX				10									

^{*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.