



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

**Complete Solution meets various needs**

The clean energy produced by **WATERSTAGE™** reliably delivers “comfort” to all spaces in the home up to the living room, bedrooms, bath and swimming pool.

# AIR TO WATER

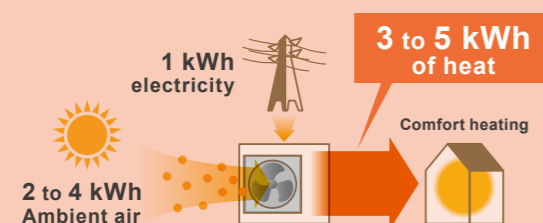
**156** Split

**157** Split DHW integrated

**158** Monobloc

## WHAT'S A HEAT PUMP ?

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



Split type

High power series

Hydraulic unit : WSYG140DC6 / [3phase] WSYK160DC9  
Outdoor unit : WOYG112LCT / WOYG140LCT  
[3phase] WOYK112LCT / WOYK140LCT / WOYK160LCT



NEW Comfort series

Hydraulic unit : WSYA050DD6 / WSYA100DD6  
Outdoor unit : WOYA060LDC / WOYA080LDC / WOYA100LDT



Split DHW Integrated type

NEW High power series

Hydraulic unit : WGYG140DD6 / [3phase] WGYK160DD9  
Outdoor unit : WOYG112LCT / WOYG140LCT  
[3phase] WOYK112LCT / WOYK140LCT / WOYK160LCT



NEW Comfort series

Hydraulic unit : WGYA050DD6 / WGYA100DD6  
Outdoor unit : WOYA060LDC / WOYA080LDC / WOYA100LDT

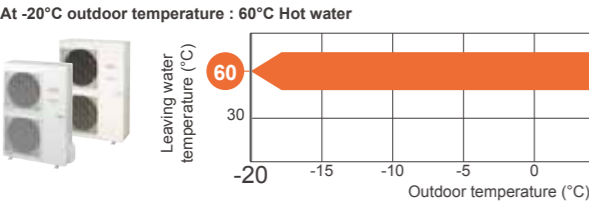


Features

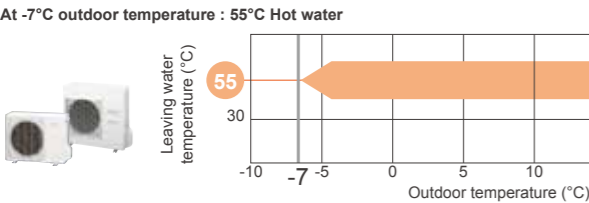
High Efficiency & Comfort

High leaving water temperature

High power series : High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.



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



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

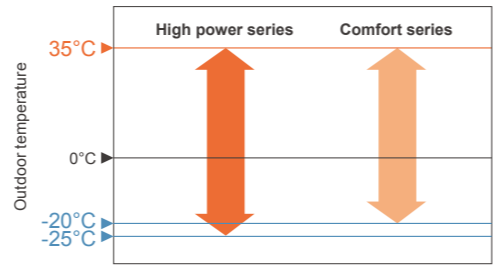
High COP

Air to water heat pumps work with much more efficiency and save more energy than a traditional heating system.



\*The data refer to 16kW type Condition : Outdoor Temp. 7°C Heating Temp. 35°C.

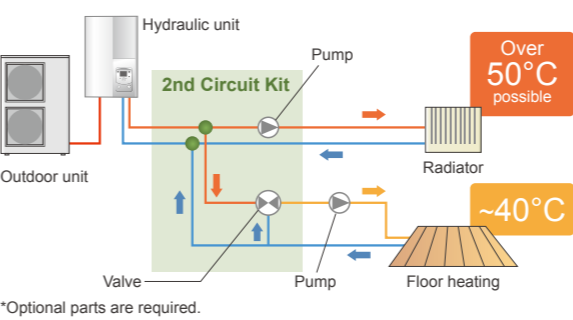
Wide operation range



Intelligent Control

2 Zone individual control\*

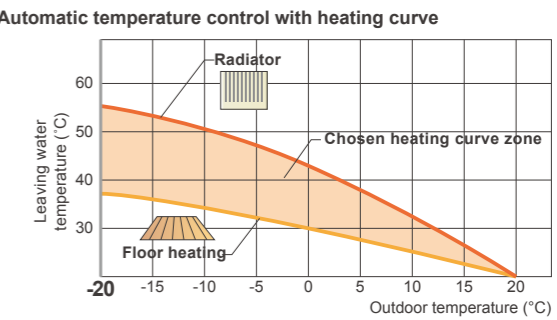
2 Zone individual control (2 under floor heating zones or under floor heating + radiator zone, etc.)\*



\*Optional parts are required.

Automatic heating curve control

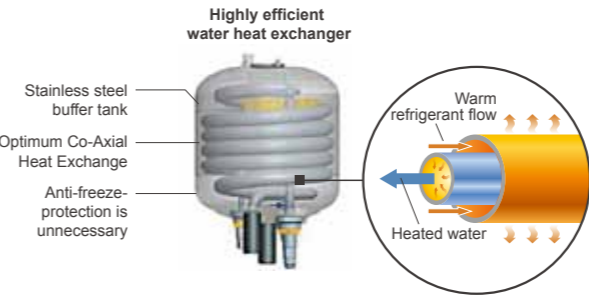
Automatic temperature regulation in accordance with heating curve (Depends on heating terminal and outdoor temperature)



High Reliability

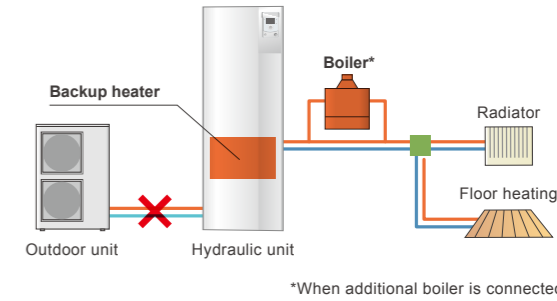
High durability

- Corrosion protected
- No flow switch and no filter necessary



Emergency operation

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



\*When additional boiler is connected



## Monobloc type

### Compact series

Monobloc unit : WPYA080LA / WPYA100LA

Control box : UTW-SCBYA



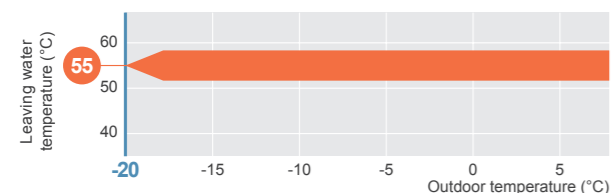
### Features

## Compact & High Performance

### High leaving water temperature

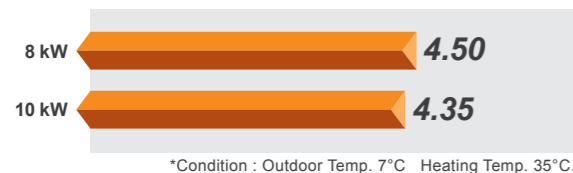
High leaving water temperature of 55°C is kept even when outdoor temperature is down to -20°C without using backup heaters.

No backup heater



### 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 as standard.



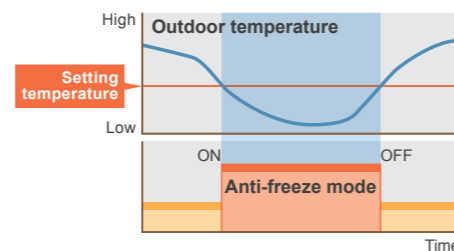
### And more

- Automatic heating curve control
- 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 compression 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

## Comfort



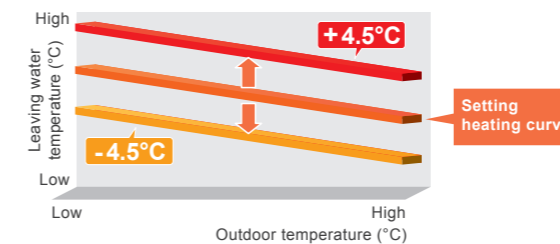
### Large LCD display

- Operation status display
- Error display
- Plain text

### Automatic heating curve operation

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

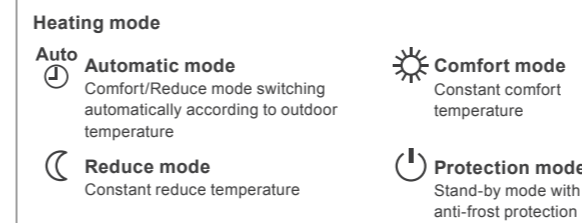
This can be adjusted when too warm or too cold.



## Energy Saving

### Programmable timer

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



## Safety Function

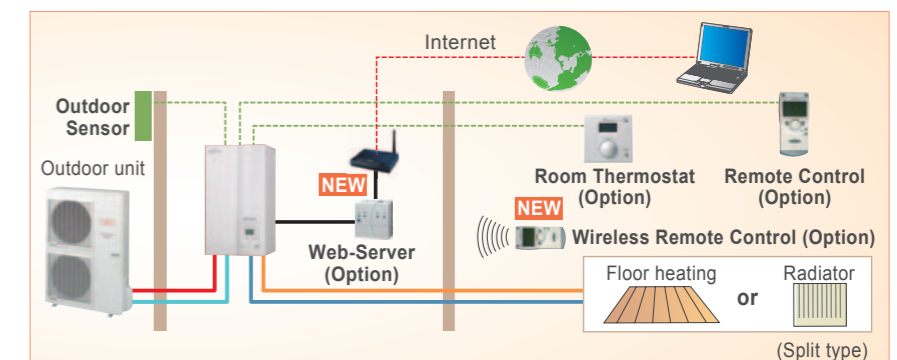
### Auto-changeover

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 conditioner.

## Extendibility

### Remote control-extension

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



### Simple operation mode setting

- Selecting the heating mode and Domestic hot water operation

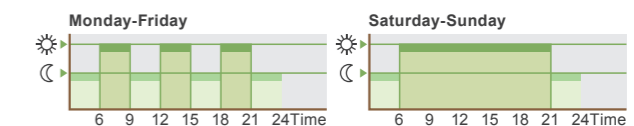


### Navigation and setting

- Selecting the heating menu
- Setting program timer

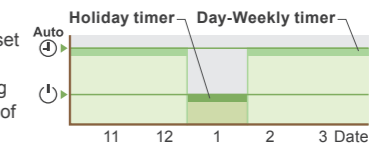
### Day-Weekly timer setting

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



### Holiday timer setting

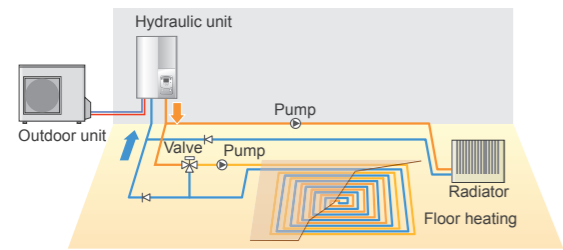
- The holiday timer can be set up for up to 8 periods
- If you are absent for a long time in the winter, freezing of room can be prevented.



Split Case studies

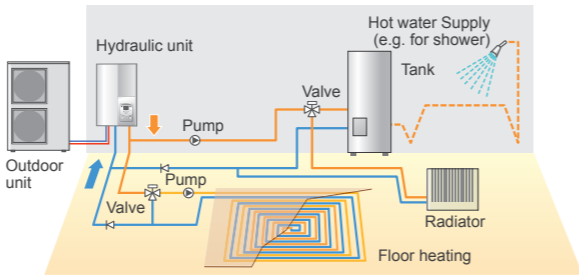
2 emitter simultaneous heating (Individual control)

Floor heating + Radiator



3 types of heat distribution

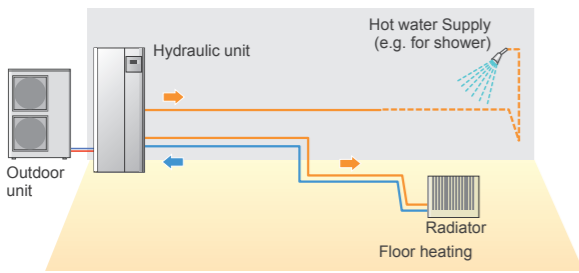
Floor heating + Radiator + Domestic Hot Water



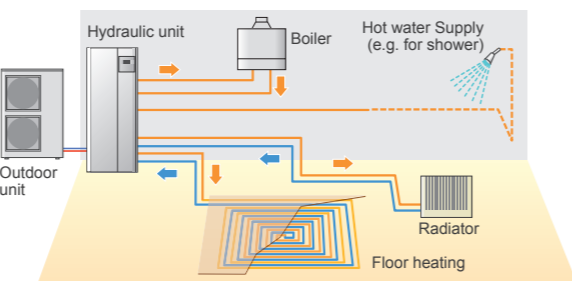
Split DHW integrated Case studies

Single heating & Domestic Hot Water

Radiator + Domestic Hot Water



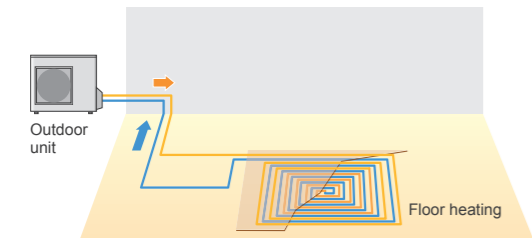
Boiler connected to heating (Boiler + Heating) & Domestic Hot Water



Monobloc Case studies

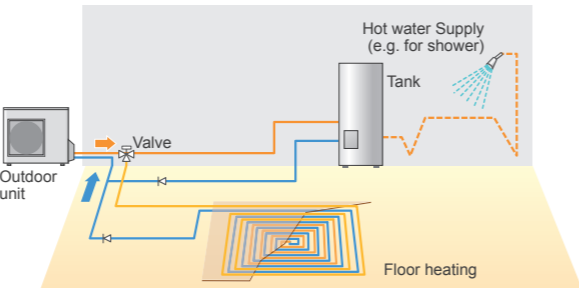
Single heating system






























Floor heating



2 types of heat distribution

Floor heating + Domestic Hot Water



Product Name		Model Name	Split										Monobloc Compact 10		Split DHW integrated type									
			High Power 30					Comfort 10							High Power 30					Comfort 10				
			11	14	11	14	16	5	6	8	10	8	10	11	14	11	14	16	5	6	8	10		
2nd Circuit Kit		UTW-KZSXD	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	—	—	—			
		UTW-KZDXD	—	—	—	—	—	—	—	—	—	—	●	●	●	●	●	●	●	●	●			
Boiler Connection Kit		UTW-KBSXD	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	—	—	—			
		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			
DHW Tank		UTW-T20XA	●	●	●	●	●	●	●	●	●	●	—*1	—*1	—*1	—*1	—*1	—*1	—*1	—*1	—*1			
		UTW-T30XA	●	●	●	●	●	●	●	●	●	●	—*1	—*1	—*1	—*1	—*1	—*1	—*1	—*1	—*1			
		UTW-T30XD	●	●	●	●	●	●	●	●	●	●	—*1	—*1	—*1	—*1	—*1	—*1	—*1	—*1	—*1			
Circulating Pump		UTW-PHFXD	●	●	●	●	●	—	—	—	—	—	—	●	●	●	●	●	—	—	—			
Swimming Pool Kit		UTW-KSPXA	—	—	—	—	—	—	—	—	●	●	—	—	—	—	—	—	—	—	—			
		UTW-KSPXD	●	●	●	●	●	●	●	●	—	—	●	●	●	●	●	●	●	●	●			
Heat Exchanger for Swimming Pool Kit		UTW-ESPXA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
Cooling Kit		UTW-KCLXD	●	●	●	●	●	●	●	●	—*2	—*2	●	●	●	●	●	●	●	●	●			
Regulation Extension Kit		UTW-KREXD	●	●	●	●	●	●	●	●	—	—	●	●	●	●	●	●	●	●	●			
Remote Controller		UTW-C75XA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
		UTW-C78XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
Room Thermostat		UTW-C55XA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
		UTW-C58XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
Outdoor Sensor Transmitter		UTW-MOSXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
RF Modules		UTW-M60XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
		UTW-MRCXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
Web Server		UTW-KWSXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
		UTW-KW1XD UTW-KW4XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
Cascade Kit		UTW-KCCXE	●*	●*	●*	●*	●*	—	—	—	●*	—	—	—	—	—	—	—	—	—	—			
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			
Service Tool Software		UTW-KPSXD	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4			

● : Available — : Not Available

\*1 : DHW operation is possible without DHW Kit and DHW Tank.

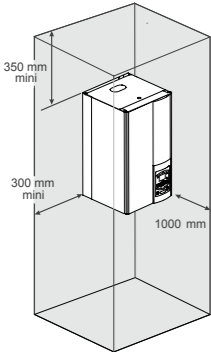
\*2 : Cooling operation is possible without Cooling Kit.

\*3 : UTW-KL1XD is required for connection.

\*4 : UTW-KSTXD (OCI700 adapter), UTW-KW1XD or UTW-KW4XD is required for connection

Equipment Installation

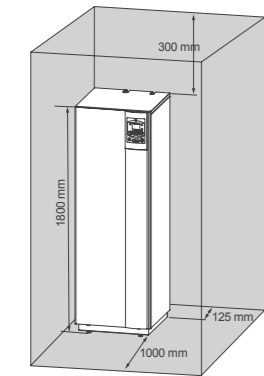
Split Type Hydraulic unit



(mm)

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

Split DHW integrated Type Hydraulic unit



(mm)

- Floor stand
- Weight:350kg (including water)
- Space for maintenance should be respected.

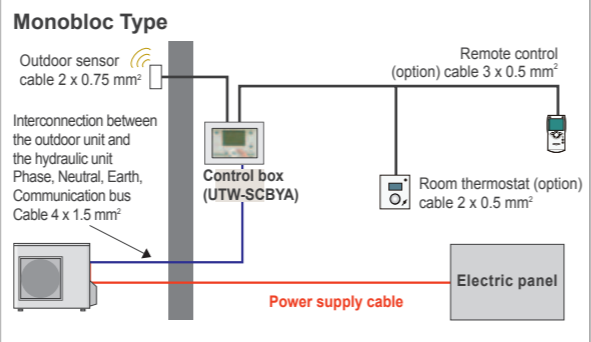
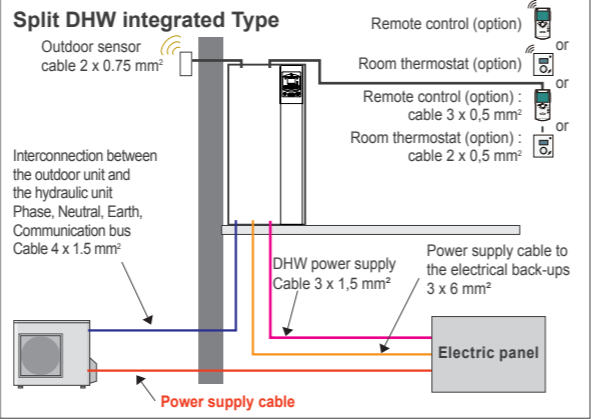
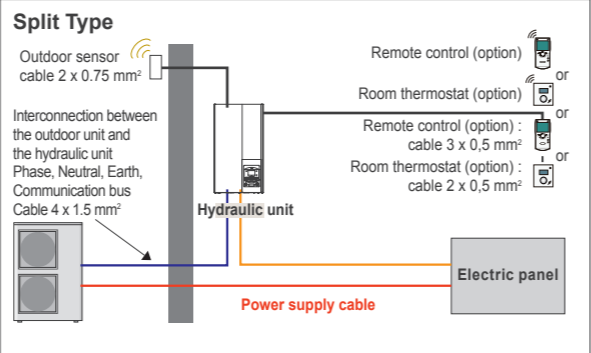
Piping and Wiring

Piping

Split Type

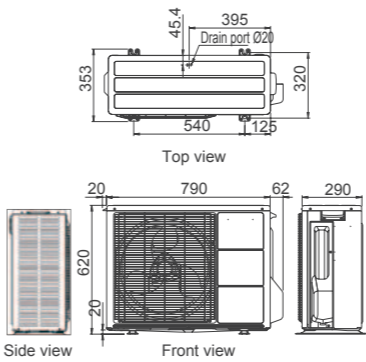
Series	Capacity range(kW)	H (m)	L (m)
Comfort	5	± 15	5-20
	6		
	8		
	10		
High power	11		
	14		
	16		

Electrical wiring



SPLIT TYPE

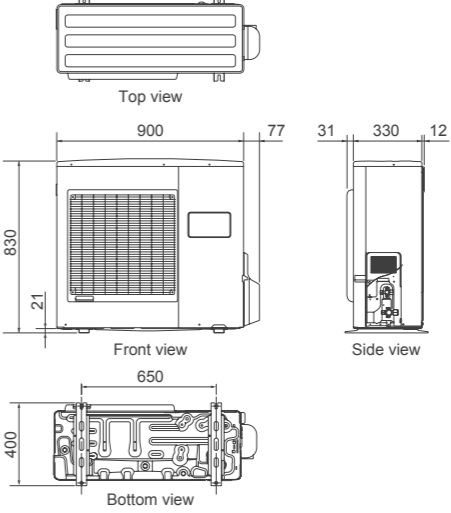
Outdoor Units Comfort series :  
WOYA060LDC / Woya080LDC



Side view

Front view

WOYA100LDT



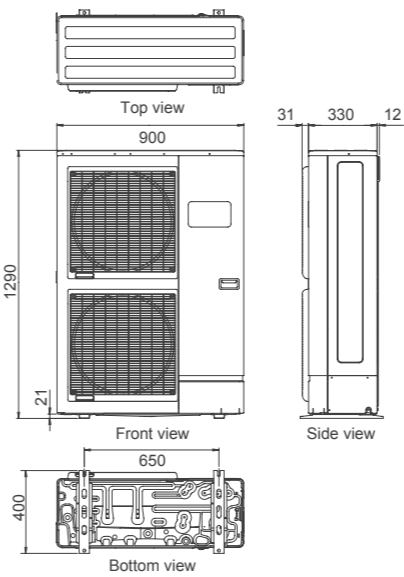
Top view

Front view

Side view

Bottom view

Outdoor Units High Power series :  
WOYK112LCT / WOYK140LCT / WOYK160LCT



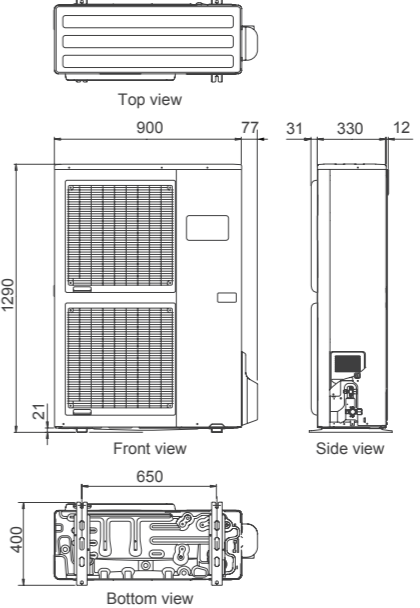
Top view

Front view

Bottom view

Side view

Outdoor Units High Power series :  
WOYG112LCT / WOYG140LCT



Top view

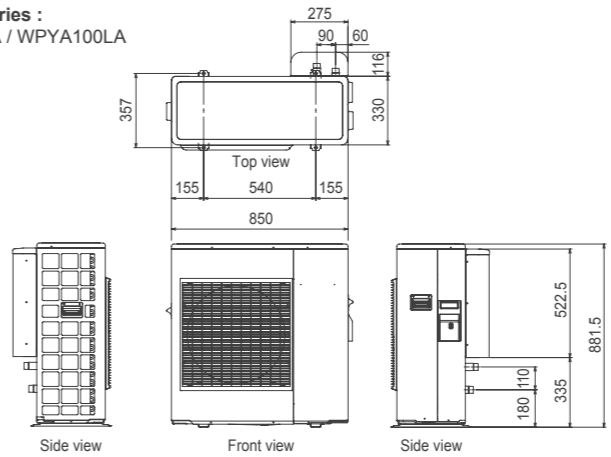
Front view

Bottom view

Side view

MONOBLOC TYPE

Compact series :  
WPYA080LA / WPYA100LA

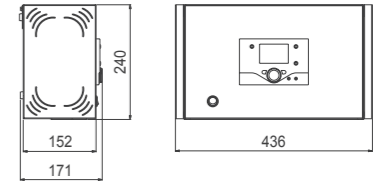


Side view

Front view

Side view

Control Box :  
UTW-SCBYA



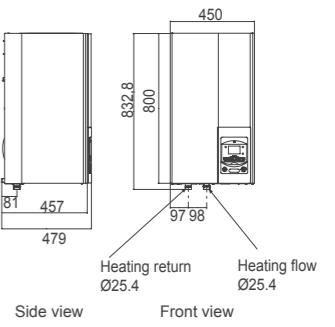
Top view

Front view

Side view

Hydraulic units Split type  
High Power series :  
WSYG140DC6 / WSYK160DC9

Hydraulic units Split type  
Comfort series :  
WSYA050DD6 / WSYA100DD6

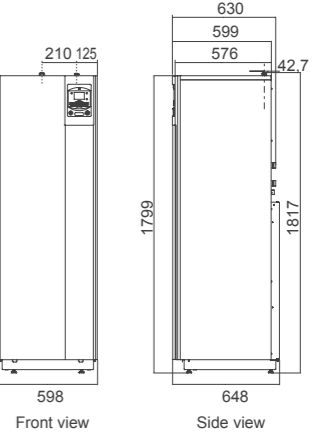


Side view

Front view

Hydraulic units Split DHW  
integrated type High Power series :  
WGYG140DD6 / WGYK160DD9

Hydraulic units Split DHW  
integrated type Comfort series :  
WGYA050DD6 / WGYA100DD6



Front view

Side view

Specifications

Split type

Series name			High Power series						Comfort series			
Capacity range (kW)			11	14	11	14	16	5	6	8	10	
+7°C / +35°C floor heating *1	Heating capacity	kW	10.80	13.50	10.80	13.50	15.20	4.50	6.00	7.50	10.00	
	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	
+2°C / +35°C floor heating *1	Heating capacity	kW	10.77	12.00	10.77	13.00	13.50	4.50	4.95	5.65	7.70	
	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	
-7°C / +35°C floor heating *1	Heating capacity	kW	10.80	12.00	10.80	13.00	13.50	4.10	4.60	5.70	7.40	
	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	
+7°C / +45°C radiators *1	Heating capacity	kW	9.23	11.54	10.10	12.60	13.00	4.50	5.10	6.20	8.27	
	Input power		2.84	3.74	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	
-7°C / +45°C radiators *1	Heating capacity	kW	9.16	11.45	10.02	12.50	13.00	4.10	4.45	5.05	7.40	
	Input power		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 heater	Capacity	kW×pcs.	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	9.0(3.0 × 3 pcs.)	9.0(3.0 × 3 pcs.)	9.0(3.0 × 3 pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	
Hydraulic unit Model name			WSYG140DC6			WSYK160DC9		WSYA050DD6		WSYA100DD6		
Power source			1Ø 230V, 50Hz			3Ø 400V, 50Hz		1Ø 230V, 50Hz				
Water circulation	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	
Dimensions H×W×D		mm	800 × 450 × 457					800 × 450 × 457				
Weight (Net)		kg	42					42				
Buffer tank capacity		L	16					16				
Expansion vessel capacity		L	8					8				
Leaving water temperature range		°C	8~60					8 ~ 55				
Water pipe connection diameter		Flow / Return	Ø25.4 / Ø25.4					Ø25.4 / Ø25.4				
Outdoor unit Model name			WOYG112LCT	WOYG140LCT	WOYK112LCT	WOYK140LCT	WOYK160LCT	WOYA060LDC		WOYA080LDC	WOYA100LDT	
Power source			1Ø 230V, 50Hz			3Ø 400V, 50Hz		1Ø 230V, 50Hz				
Current	Rated	A	10.8	13.6	3.60	4.80	5.50	4.5	6.3	8.1	10.9	
	Max		21.0	24.0	8.50	9.50	10.50	11.0	12.5	17.5	18.5	
Noise level (Sound pressure)		dB(A)	55*2	56*2	53*2	55*2	56*2	48*2	51*2	56*2	55*2	
Dimensions H×W×D		mm	1290 × 900 × 330					620 × 790 × 290		830×900×330		
Weight (Net)		kg	92		99		41		42		60	
Refrigerant			R410A					R410A				
Refrigerant amount		kg	2.50					1.10		1.40		1.80
Additional refrigerant charge amount		g/m	50					20		20		40
Connection pipe	Diameter	Liquid	mm					Ø9.52		Ø6.35		Ø9.52
		Gas	mm					Ø15.88		Ø12.70		Ø15.88
	Length	Min / Max	m					5 / 20				
	Length (chargeless)	Max	m					15				
	Height difference	Max	m					15				
Operation range		Heating	°C					-25~35		-20 ~ 35		

Monobloc type

Series name			Compact series		
Capacity range (kW)			8		10
+7°C / +35°C floor heating *1	Heating capacity	kW	8.00		10.00
	Input power		1.78	2.30	
	COP		4.50	4.35	
+2°C / +35°C floor heating *1	Heating capacity	kW	7.40		8.10
	Input power		2.73	3.00	
	COP		2.71	2.70	
-7°C / +35°C floor heating *1	Heating capacity	kW	7.10		8.00
	Input power		2.93	3.32	
	COP		2.42	2.41	
+7°C / +45°C radiators *1	Heating capacity	kW	7.80		9.80
	Input power		2.23	2.88	
	COP		3.50	3.40	
-7°C / +45°C radiators *1	Heating capacity	kW	6.50		7.00
	Input power		2.98	3.31	
	COP		2.18	2.11	
Monobloc unit		Model name	WPYA080LA		WPYA100LA
Power source			1Ø 230V, 50Hz		
Water circulation	Rated	L / min	22.9		28.7
	Min / Max		10.0 / 30.0	10.0 / 30.0	
Current	Rated	A	8.30		10.20
Noise level (Sound pressure)		dB(A)	51 <sup>±2</sup>		51 <sup>±2</sup>
Dimensions H×W×D		mm	881.5 × 850 × 330		
Weight (Net)		kg	82		
Expansion vessel capacity		L	8		
Water pipe connection diameter		Flow / Return	mm		
Refrigerant			R410A		
Refrigerant amount		kg	1.5		
Leaving water temperature range		°C	8 ~ 55		
Operation range		Heating	°C		

Split DHW integrated type

Series name			High Power series					Comfort series				
Capacity range (kW)			11	14	11	14	16	5	6	8	10	
+7°C / +35°C floor heating *1	Heating capacity	kW	10.80	13.50	10.80	13.50	15.20	4.50	6.00	7.50	10.00	
	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	
+2°C / +35°C floor heating *1	Heating capacity	kW	10.77	12.00	10.77	13.00	13.50	4.50	4.95	5.65	7.70	
	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	
-7°C / +35°C floor heating *1	Heating capacity	kW	10.80	12.00	10.80	13.00	13.50	4.10	4.60	5.70	7.40	
	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	
+7°C / +45°C radiators *1	Heating capacity	kW	9.23	11.54	10.10	12.60	13.00	4.50	5.10	6.20	8.27	
	Input power		2.84	3.74	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	
-7°C / +45°C radiators *1	Heating capacity	kW	9.16	11.45	10.02	12.50	13.00	4.10	4.45	5.05	7.40	
	Input power		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 heater	Capacity	kW×pcs.	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	9.0(3.0 × 3pcs.)	9.0(3.0 × 3pcs.)	9.0(3.0 × 3pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	
Hydraulic unit		Model name		WGYG140DD6		WGYK160DD9		WGYA050DD6		WGYA100DD6		
Power source				1Ø 230V, 50Hz		3Ø 400V, 50Hz		1Ø 230V, 50Hz				
Water circulation	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	
Dimensions H×W×D		mm	1800 × 600 × 648					1800 × 600 × 648				
Weight (Net)		kg	149					149				
DHW capacity		L	190					190				
Hot water heater capacity		kW	1.5					1.5				
Buffer tank capacity		L	16					16				
Expansion vessel capacity		L	12					12				
Leaving water temperature range		°C	8~60					8~55				
Water pipe connection diameter		Flow / Return	mm					mm				
Hot water pipe diameter		mm	(Ø25.4 / Ø25.4)					(Ø25.4 / Ø25.4)				
			(Inlet/Outlet) Ø19.05					(Inlet/Outlet) Ø19.05				
Outdoor unit		Model name		WOYG112LCT	WOYG140LCT	WOYK112LCT	WOYK140LCT	WOYK160LCT	WOYA060LDC	WOYA080LDC	WOYA100LDT	
Power source				1Ø 230V, 50Hz		3Ø 400V, 50Hz		1Ø 230V, 50Hz				
Current	Rated	A	10.8	13.6	3.6	4.8	5.5	4.5	6.3	8.1	10.9	
	Max		21.0	24.0	8.5	9.5	10.5	11.0	12.5	17.5	18.5	
Noise level (Sound pressure)		dB(A)	55 <sup>-2</sup>	56 <sup>-2</sup>	53 <sup>-2</sup>	55 <sup>-2</sup>	56 <sup>-2</sup>	48 <sup>-2</sup>	51 <sup>-2</sup>	56 <sup>-2</sup>	55 <sup>-2</sup>	
Dimensions H×W×D		mm	1290 × 900 × 330					620 × 790 × 290				
Weight (Net)		kg	92		99		41		42		60	
Refrigerant		R410A					R410A					
Refrigerant amount		kg	2.50					1.10		1.40		
Additional refrigerant charge amount		g/m	50					20		40		
Connection pipe	Diameter	Liquid	mm	Ø9.52					Ø6.35		Ø9.52	
		Gas	mm	Ø15.88					Ø12.70		Ø15.88	
	Length	Min / Max	m	5 / 20					5 / 20			
		Length (chargeless)	Max	m	15					15		
	Height difference	Max	m	15					15			
Operation range		Heating	°C	-25~35					-20 ~ 35			

FEATURE EXPLANATION

Comfortable function



**Human sensor**  
Human sensor catches movements of people in a room.



**Up / down swing flaps**  
The up/down flaps automatically swing up and down.



**Double swing automatic**  
Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.



**Automatic air flow adjustment**  
The micro-computer automatically adjusts the air flow effectively to follow the changes of room temperature.



**Auto restart**  
In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once the power supply is restored.



**Auto-changeover**  
The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.



**10°C HEAT operation**  
The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.



**Connectable distributing duct**



**Connectable fresh air duct**



**Fresh air intake**  
Fresh air can be taken in by a fan which can be connected using external control unit.




**Economy mode**  
Limits the maximum operation current, and performs operation with the power consumption suppressed.




**Powerful mode**  
Operation at maximum air flow and compressor speed, and quickly makes the room comfortable.




**Low Noise Mode**  
Sound noise level of outdoor unit can be selected.

- 


V-PAM control models
- 

i-PAM control models


Convenient function




**Sleep timer**  
The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.




**Program timer**  
This digital timer allows selection of one of four options: ON, OFF, ON→OFF or OFF→ON.



**Weekly timer**  
Different on-off times can be set for each day.




**Weekly + setback timer**  
Weekly + Setback timer can set temperature for two times spans and for each day of the week.




**Filter sign**  
Indicates the filter cleaning period by lamp.


Clean function



**Long-life ion deodorization filter**  
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by ultra-fine-particle ceramic.
























**Apple-catechin filter**  
Fine dust, invisible mold spores, and harmful microorganisms are absorbed into the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol extracted from apples.



**Washable panel**

Feature summary

		<div>Wall Mounted</div> <div>Floor</div> <div>Compact Cassette / Cassette</div> <div>Floor/Ceiling</div> <div>Ceiling</div> <div>Slim Duct</div> <div>Medium Static Pressure Duct</div> <div>High Static Pressure Duct</div>														
		ASYG09/12LTCA	ASYG07/09/12/14LUCA	ASYG07/09/12/14LMCA	ASYG24LFCC	AGYG09/12LLCA	AUYG12/14/18LVLB, AUYG24LVLA	AUYG30/36LRLE, AUYG36/45/54LRLA	ABYG18/LVTB, ABYG24LVTA	ABYG30/36LRTE, ABYG36/45/54LRTA	ARYG24/36/45/54LMLA, ARYG12/14/18LLTB	ARYG30/36LMLE	ARYG45/54/60LHTA	ARYC72/90LHTA		
Comfortable function	 Human sensor	●														
	 Up / down swing flaps	●	●	●		●	●	●	●			○				
	 Double swing automatic				●					●	●					
	 Automatic air flow adjustment	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	 Auto restart	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	 Auto-changeover	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	 10°C heat operation	●	●	●	●		●	●	○	●	●	○	○	○ (60)		
	 Connectable distributing duct								●				●			
	 Connectable fresh air duct							○	●		●	○	●		○	
	 Fresh air intake							○	○		○	○	○	○	○	○
Convenient function	 Economy mode	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	 Powerful mode	●	●	●		●										
	 Low Noise mode	●	●	●					○ (45/54) (36LRLA)		○ (45/54) (36LRTA)		○ (45) (36LMLA)	○ (60)	○	○
	 Sleep timer	●	●	●	●	●	●	●	○	●	●	○	○	○ (60)	○	○
	 Program timer	●	●	●	●	●	●	●	○	●	●	○	○	○ (60)	○	○
	 Weekly timer	●	●													
	 Weekly + setback timer	○	○	○	○		○	○	●	○	○	●	●	●	●	●
	 Filter sign	●	●	●	●	●	●	●	●	●	●	●	●	●		
	 Long-life ion deodorization filter	●	●	●	●		●									
	 Apple-catechin filter	●	●	●	●		●									
Clean function	 Washable panel			●	●	●	●									

○: Optional function