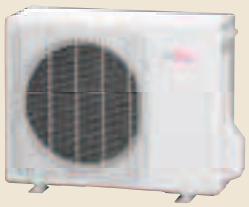
Comfort series

5kW 6kW 8kW

Hydraulic unit
WSYA050DD6
WSYA100DD6



Outdoor unit
WOYA060LDC
WOYA080LDC



10kW

Hydraulic unit
WSYA100DD6



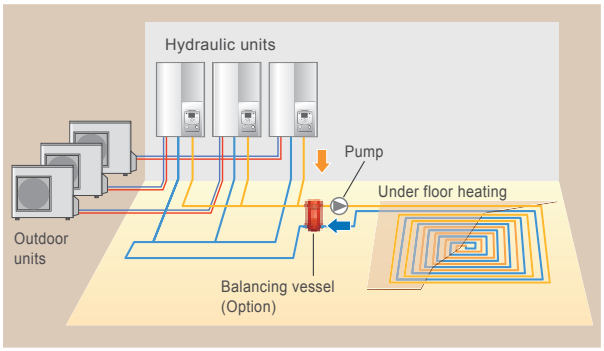
Outdoor unit
WOYA100LDT



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

Cascade connection

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



High Efficiency Technology

DC FAN MOTOR

High performance, high efficiency small DC fan motor mounted.



HIGH EFFICIENT CO-AXIAL HEAT EXCHANGER

Double-pipe water heat exchanger with built-in tank





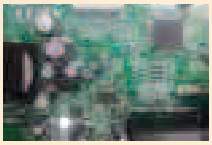
DC TWIN ROTARY COMPRESSOR

High efficient DC twin rotary compressor



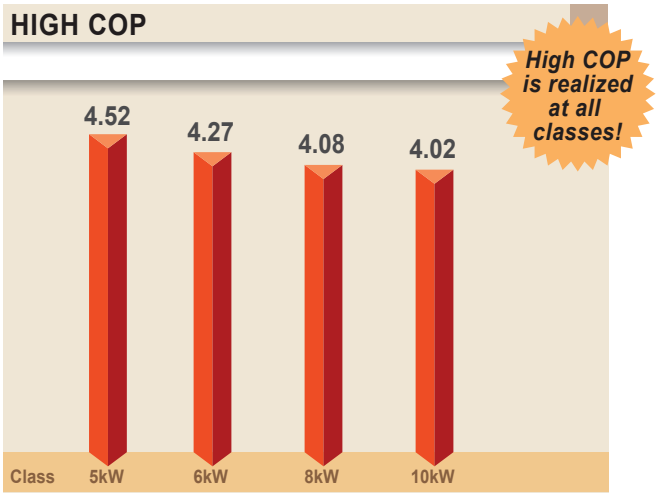
DC INVERTER

Smooth water temperature control realized by DC inverter control.



High Efficiency & Comfort

HIGH COP

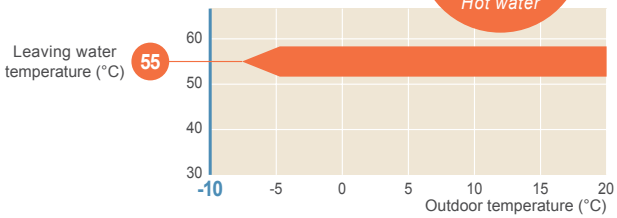


HIGH LEAVING WATER TEMPERATURE

No backup heater*

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

At -7°C outdoor temperature
55°C Hot water

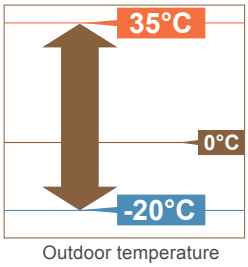


* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.

WIDE OPERATION RANGE

Improved operation range down to -20°C outdoor temperature

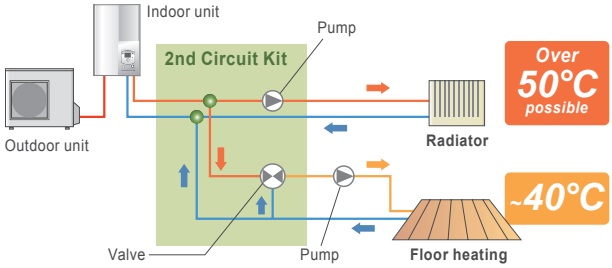
Down to -20°C Outdoor temperature





Intelligent Control

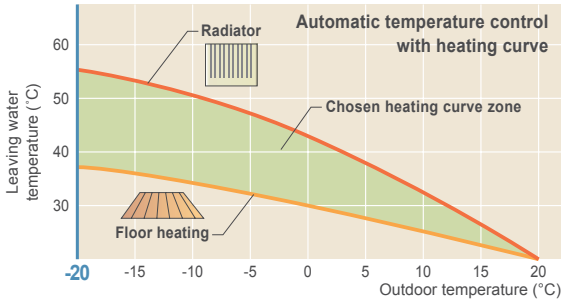
2 ZONE INDIVIDUAL CONTROL*



*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

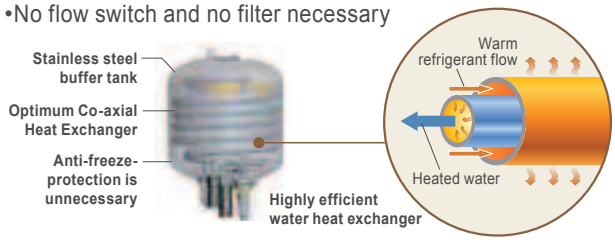
- Cooling operation is possible.*
- Anti-Legionella function
- Possible to docking the boiler (Field supplied)

*Optional parts are required.

High Reliability

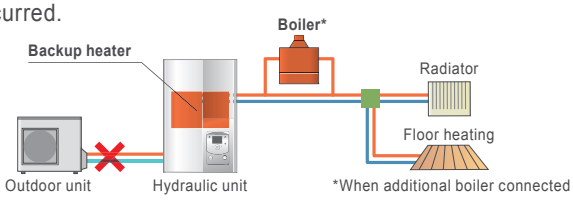
HIGH DURABILITY

- Corrosion protected
- No flow switch and no filter necessary



EMERGENCY OPERATION

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



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”.





Simple operation mode setting
•Selecting the heating mode and Domestic hot water operation

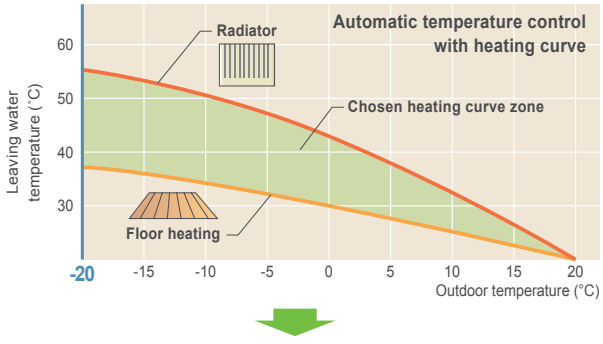
Large LCD display
•Operation status display
•Error display
•plain text

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

Comfort Control

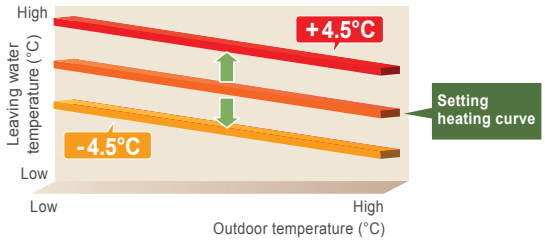
Automatic heating curve operation

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



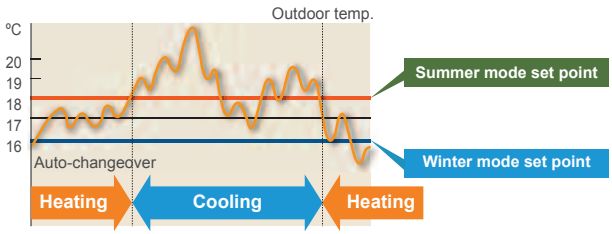
Heating curve off-set Adjust setting room temp.

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



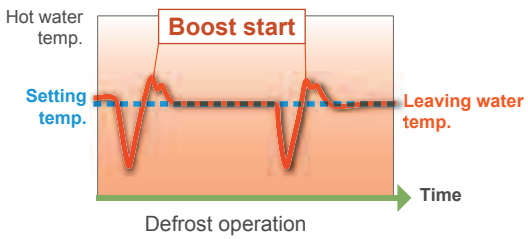
Auto-changeover

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.



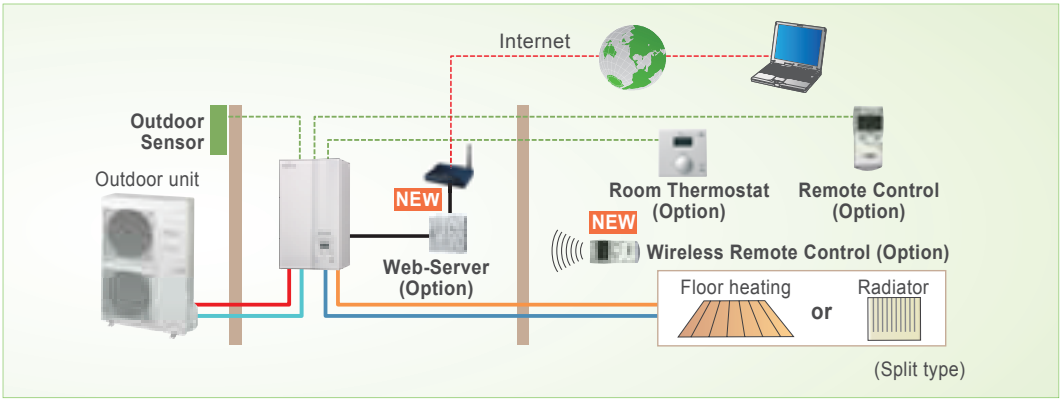
Quick recovery from defrost operation

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.

Heating mode

Automatic mode
Comfort/Reduce mode switching automatically according to outdoor temperature

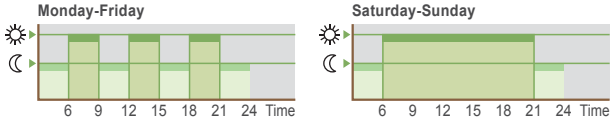
Comfort mode
Constant comfort temperature

Reduce mode
Constant reduce temperature

Protection mode
Stand-by mode with anti-frost protection

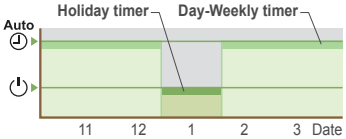
Day-Weekly timer setting

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



Holiday timer setting

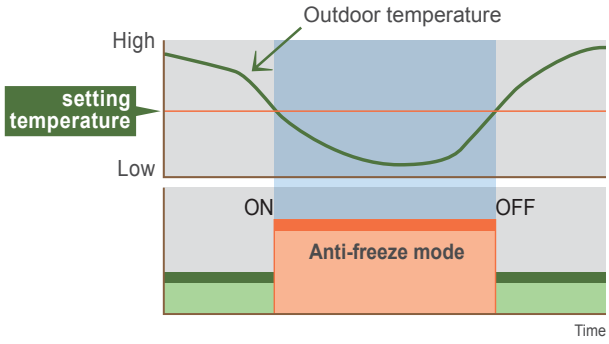
•The holiday timer can be set up for up to 8 periods
•If you are absent for a long time in the winter, freezing of room can be prevented.



Safety Function

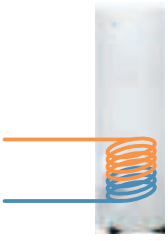
Anti-freeze function

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.

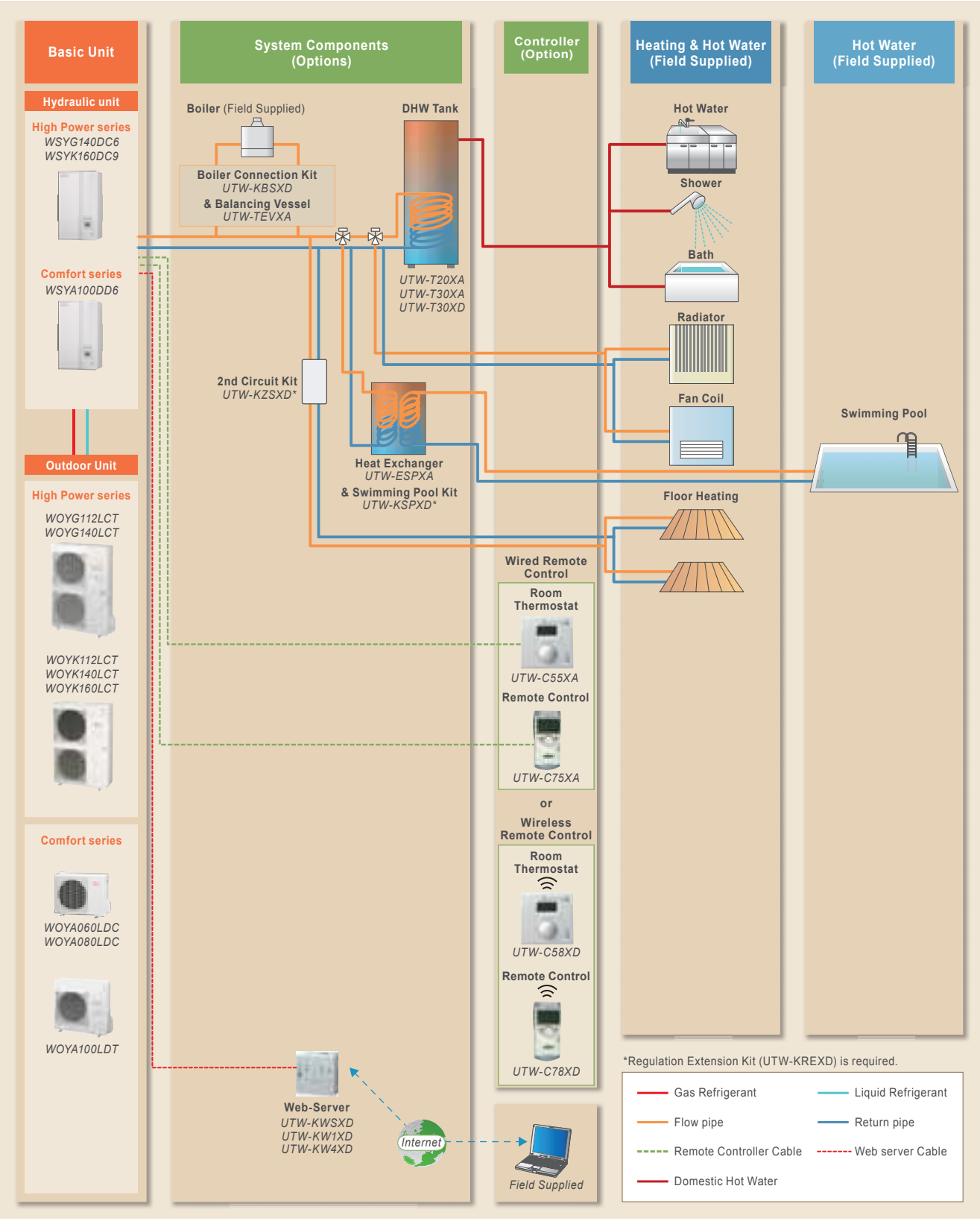




Total solution concept for comfort inside your home

SPLIT TYPE

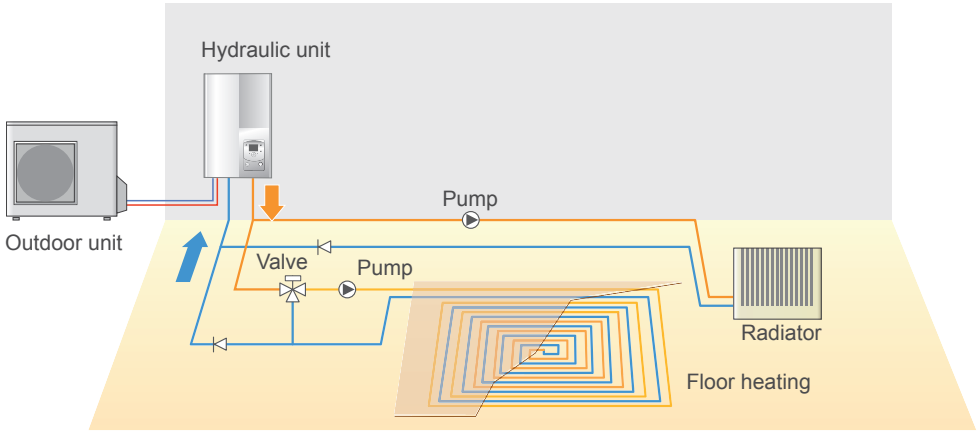
System configuration



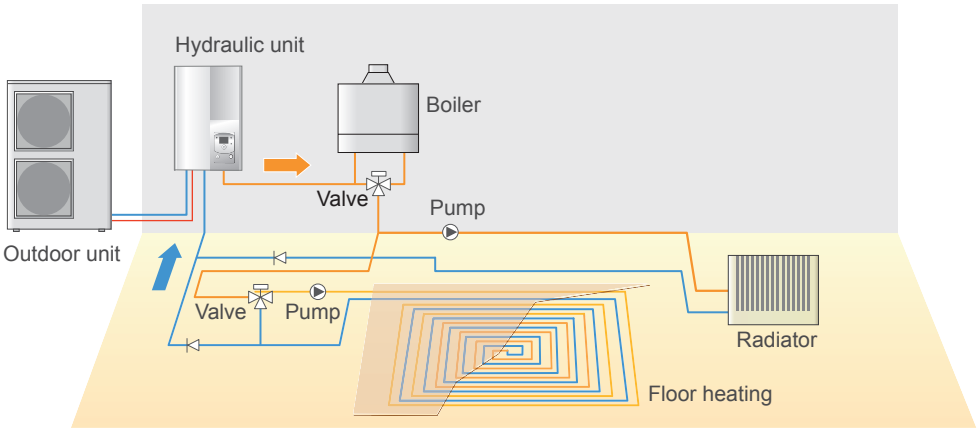
Split Case studies

2 emitter simultaneous heating (Individual control)

Floor heating + Radiator

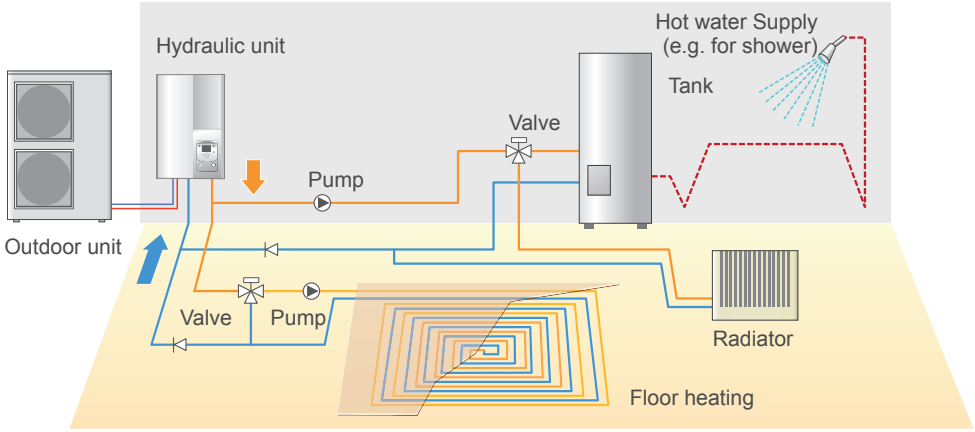


Boiler connected to heating (Boiler + Heating)



3 types of heat distribution

Floor heating + Radiator + Domestic Hot Water



Optional Parts Compatibility

Product Name	Model Name	Split									Monobloc		Split DHW integrated type								
		High Power					Comfort				Compact		High Power					Comfort			
		1Ø		3Ø			1Ø				1Ø		1Ø		3Ø			1Ø			
		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 Expansion Vessel kit	UTW-KDEXE	—	—	—	—	—	—	—	—	—	—	—	●	●	●	●	●	●	●	●	●
DHW tank 200 Liter 300 Liter	UTW-T20XA UTW-T30XA	●	●	●	●	●	●	●	●	●	●	●	—*1	—*1	—*1	—*1	—*1	—*1	—*1	—*1	—*1
DHW tank 300 Liter	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	●	●	●	●	●	●	●	●	●	—	—	●	●	●	●	●	●	●	●	●
Solar Regulation Kit	UTW-KSRXE	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	—	—	—
Mode Exchange Kit	UTW-KMEXE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Low Noise Kit	UTW-KLNXE	●	●	●	●	●	—	—	—	—	—	—	●	●	●	●	●	—	—	—	—
HMI Kit	UTW-KHMXE*5	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●	●

Product Name	Model Name	Split									Monobloc		Split DHW integrated type								
		High Power					Comfort				Compact		High Power					Comfort			
		1Ø		3Ø			1Ø				1Ø		1Ø		3Ø			1Ø			
		11	14	11	14	16	5	6	8	10	8	10	11	14	11	14	16	5	6	8	10
Remote Controller – Wired	UTW-C75XA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Remote Controller – Wired	UTW-C75XA-E*5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Remote Controller – Wireless	UTW-C78XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Remote Controller – Wireless	UTW-C78XD-E*5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Room Thermostat – Wired	UTW-C55XA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Room Thermostat – Wireless	UTW-C58XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Outdoor Sensor Transmitter	UTW-MOSXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
RF Modules – for X60-Port	UTW-M60XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
RF Modules – for BSB-Port	UTW-MRCXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Web server	UTW-KWSXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Web server	UTW-KW1XD UTW-KW4XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cascade Master Kit (incl. LPB Clip)	UTW-KCMXE	●	●	●	●	●	—	—	—	●	—	—	—	—	—	—	—	—	—	—	—
Cascade Slave Kit (incl. LPB Clip)	UTW-KCSXE	●	●	●	●	●	—	—	—	●	—	—	—	—	—	—	—	—	—	—	—
LPB Clip	UTW-KL1XD	●	●	●	●	●	●	●	●	●	—	—	●	●	●	●	●	●	●	●	●
Base Heater	UTZ-HAMXE	—	—	—	—	—	—	—	—	—	●	●	—	—	—	—	—	—	—	—	—
Service Tool (incl.OCI700 adaptor)	UTW-KSTXD	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●	●	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3
Service Tool Software	UTW-KPSXD	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4

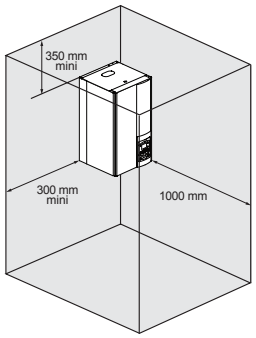
*1: DHW operation is possible without DHW Kit and DHW Tank.
*2: Cooling operation is possible without cooling kit
*3: UTW-KL1XD is required for the connection.
*4: UTW-KSTXD(OCI700 adaptor not included), UTW-KW1XD or UTW-KW4XD is required for the connection.
*5: Eastern European Language(English, Czech Republic, Slovakia, Poland, Turkey, Hungary, Russia, Slovenia, Greece, Serbia)

● : Available — : Not Available

Installation Limitations

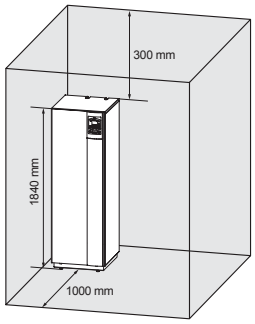
Equipment Installation

Split Type Hydraulic unit



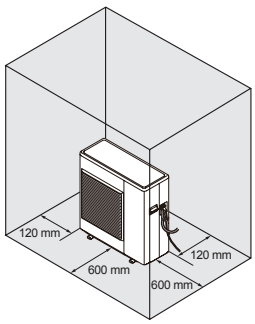
- Hydraulic unit is to be hang on the wall
- Weight < 60kg (including water)
- Distances for maintenance should be respected

Split DHW integrated Type Hydraulic unit



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

Monobloc Type Outdoor unit

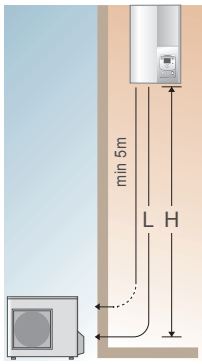


- Floor stand
- Weight 74 kg (without water)
- Distances for maintenance should be kept

Piping and Wiring

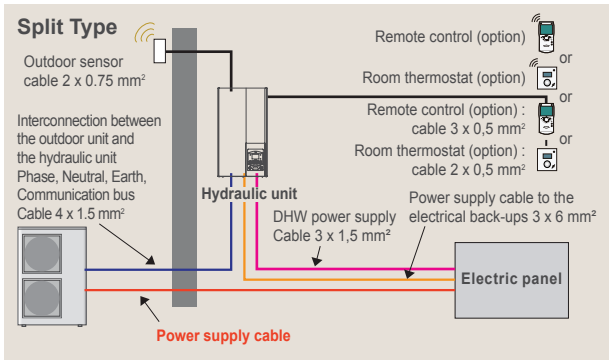
Piping

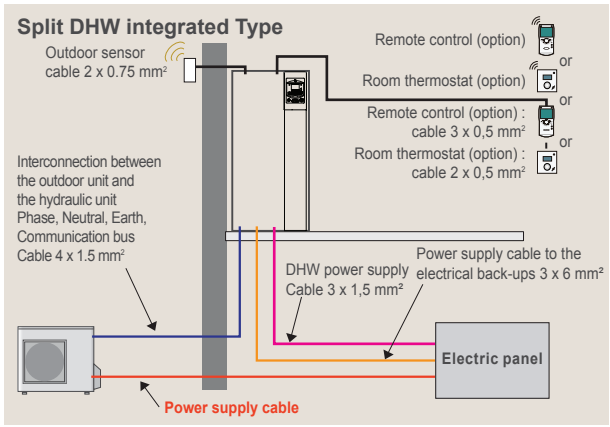
Split Type

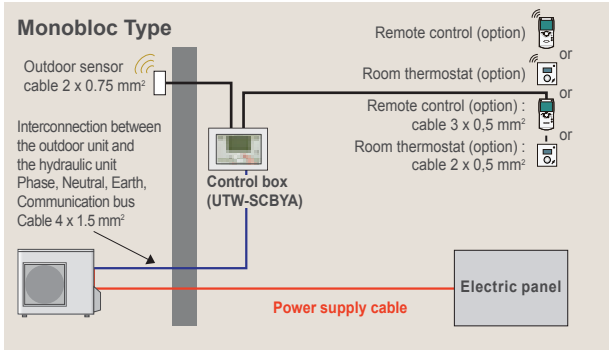


Series	Capacity range(kW)	H (m)	L (m)
Comfort	5	±15	5-20
	6		
	8		
	10		
High power	11		
	14		
	16		

Electrical wiring





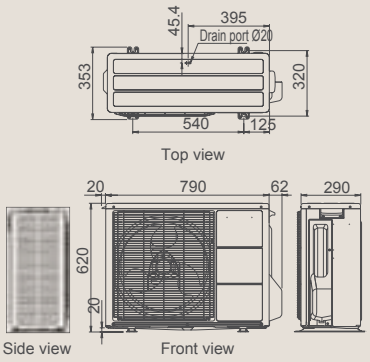


SPLIT TYPE

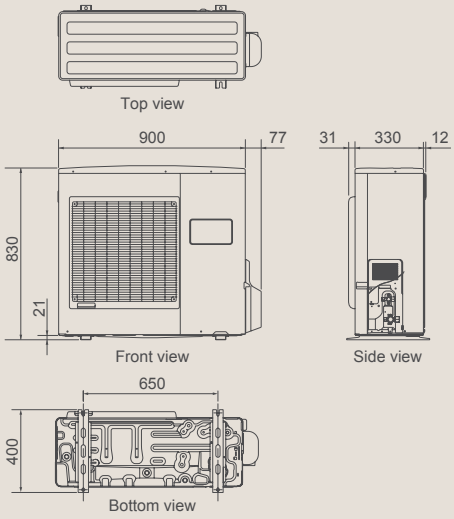
Unit : mm

Outdoor Units Comfort series

WOYA060LDC / WOYA080LDC



WOYA100LDT

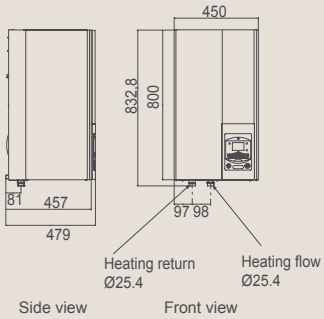


Hydraulic units Split type High Power series

WSYG140DC6 / WSYK160DC9

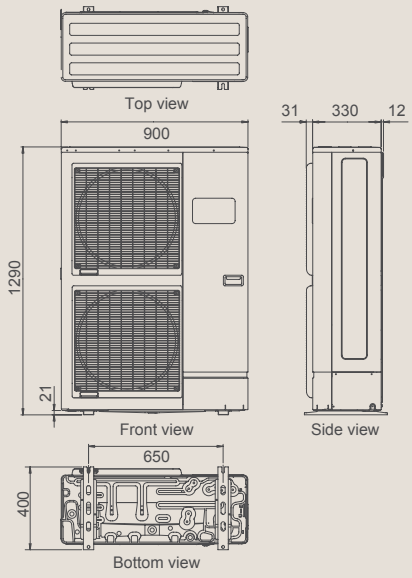
Hydraulic units Split type Comfort series

WSYA050DD6 / WSYA100DD6



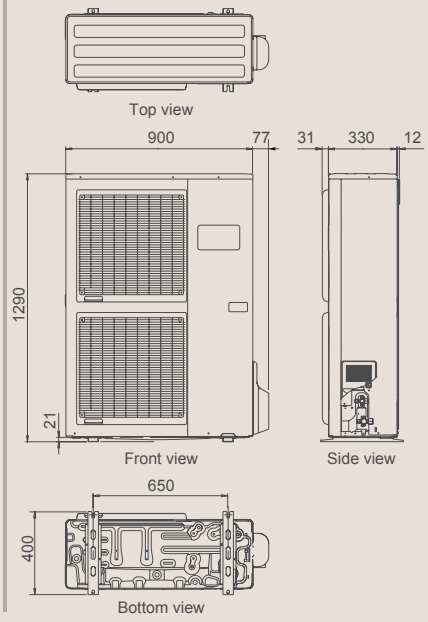
Outdoor Units High Power series

WOYK112LCT / WOYK140LCT / WOYK160LCT



Outdoor Units High Power series

WOYG112LCT / WOYG140LCT

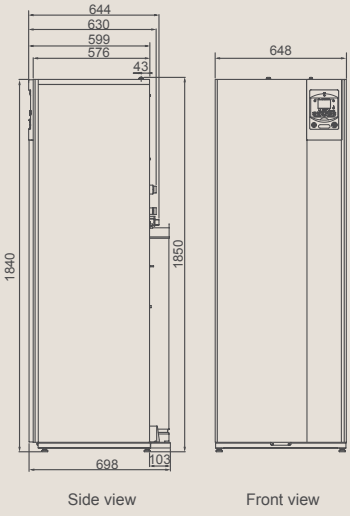


Hydraulic units Split DHW integrated type High Power series

WGYG140DD6 / WGYK160DD9

Hydraulic units Split DHW integrated type Comfort series

WGYA050DD6 / WGYA100DD6

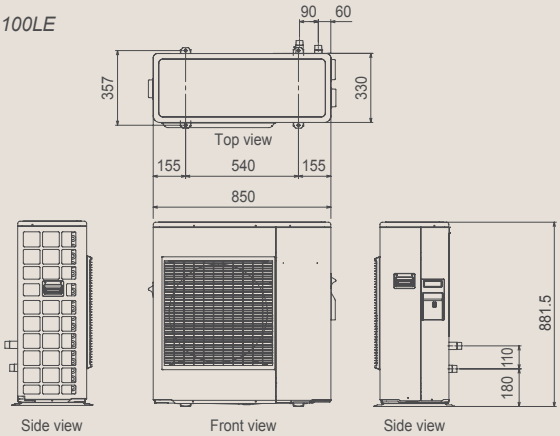


MONOBLOC TYPE

Unit : mm

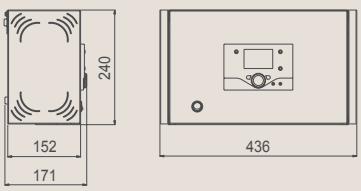
Compact series

WPYA080LE / WPYA100LE



Control Box

UTW-SCBYA



SPECIFICATIONS

Type			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	15.17	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	3.72	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
-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(3.0×2pcs.)	6.0(3.0×2pcs.)	9.0(3.0 × 3pcs.)	9.0(3.0 × 3pcs.)	9.0(3.0 × 3pcs.)	6.0(3.0×2pcs.)	6.0(3.0×2pcs.)	6.0(3.0×2pcs.)	6.0(3.0×2pcs.)
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	mm	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	11.4	14.2	3.7	4.8	5.5	4.5	6.3	8.1	10.9
	Max		22.0	25.0	8.5	9.5	10.5	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					5 / 20			
	Length (chargeless)	Max m	15					15			
	Height difference	Max m	15					15			
Operation range	Heating	°C	-25~35					-20 ~ 35			

Type			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		WPYA080LE	WPYA100LE
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 *2	51 *2
Dimensions H×W×D		mm	881.5 × 850 × 330	
Weight (Net)		kg	74	
Water pipe connection diameter	Flow / Return	mm	Ø25.4 / Ø25.4	
Refrigerant			R410A	
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.

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