

Air to Water



WATERSTAGETM

FUTURE SOLUTION OF DOMESTIC HEATING

WATERSTAGE™ Air to Water Heat Pump

Efficient and comfortable heating solution

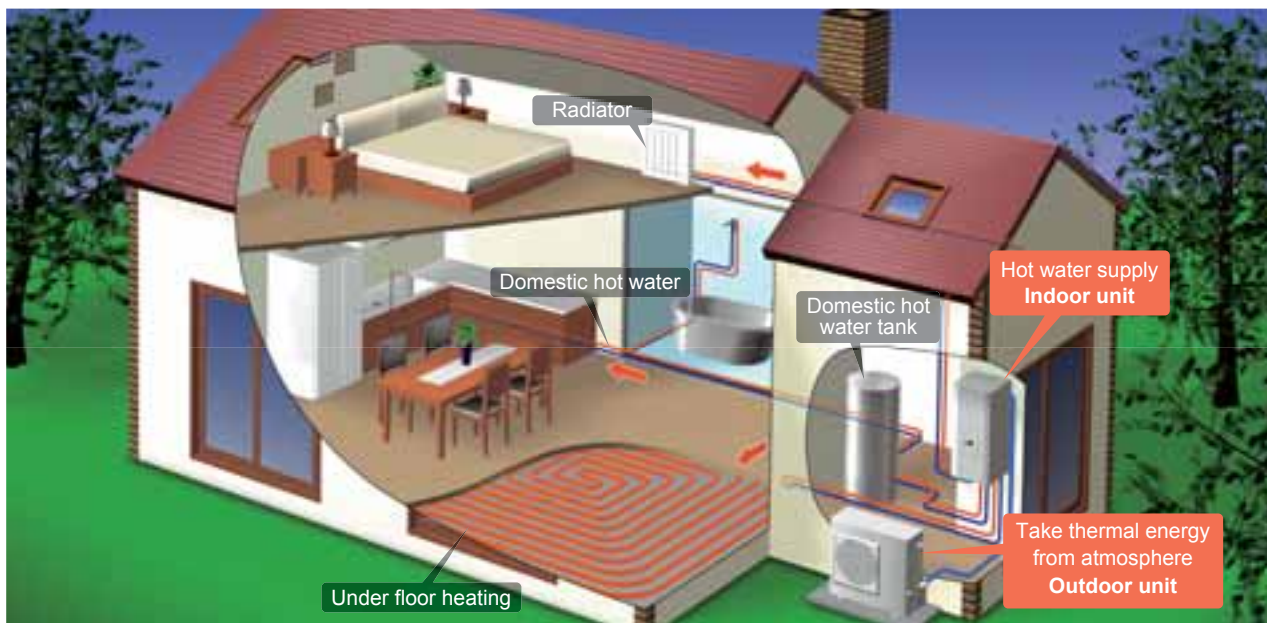


WATERSTAGE™ is a safe, comfortable, and efficient water heating system by adopting heat pump technology that utilizes the heat in the air.

This system provides support for space heating and water heating.

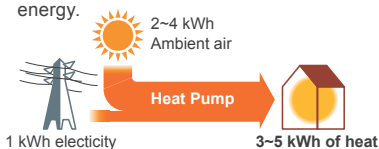
This WATERSTAGE™ uses very little electric energy to efficiently absorb heat from the atmosphere by adopting an inverter heat pump. A small environmental load heat source system can be economically realized by using this heat energy to produce hot water for radiator, floor heating or domestic hot water.

Flexible and comfortable heating solution for new building and refurbishment house

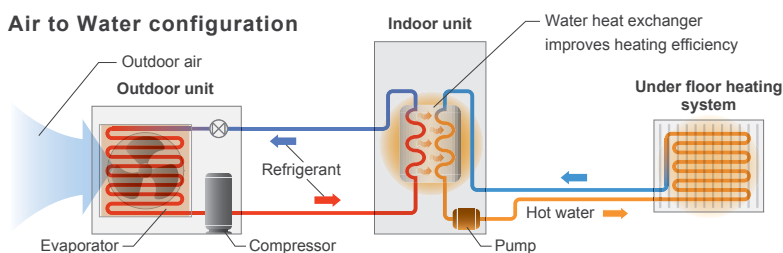


Heat Pump is most efficiency system

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



Air to Water configuration

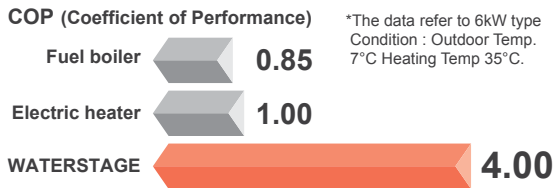




High Efficiency

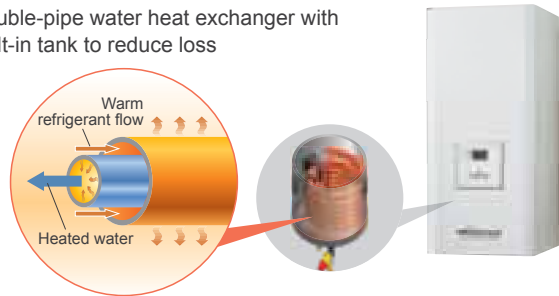
High COP

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

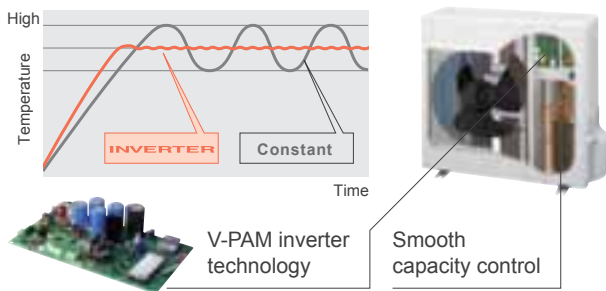


Highly efficient water heat exchanger

Double-pipe water heat exchanger with built-in tank to reduce loss



Technology DC inverter with R410A



Low ambient temperature performance

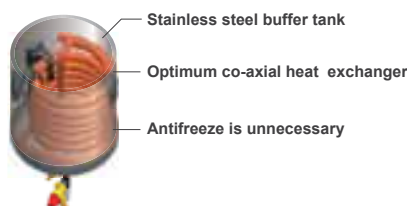
Achieves excellent heating performance even at an outdoor air temperature of -15°C.



High Reliability

High Clean and Durability

- Corrosion protected
- No fouling through heat exchanger construction
- Hot water is permanently available
- Heating until -15°C

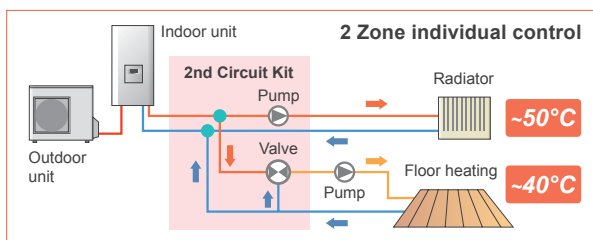


Intelligent Control System

Intelligent regulation

Intelligent operation system of WATERSTAGE system is provided to regulate the efficient and comfortable temperature according to your needs.

- Automatic temperature regulation in accordance with heating curve (depends on terminal and outdoor temperature).
- 2 Zone individual control (2 under floor heating zones or under floor heating + radiator zone, etc.)*



*Optional parts are required.

- Water temperature regulation can be combined with Room thermostat.*
- Additional electric heater control for backup
- Domestic hot water management with hot water tank*
- Boiler docking is possible*
- Cooling operation is possible*
- Swimming pool heating*
- Anti legionella function



Room Thermostat
UTW-C55XA

Smart operation

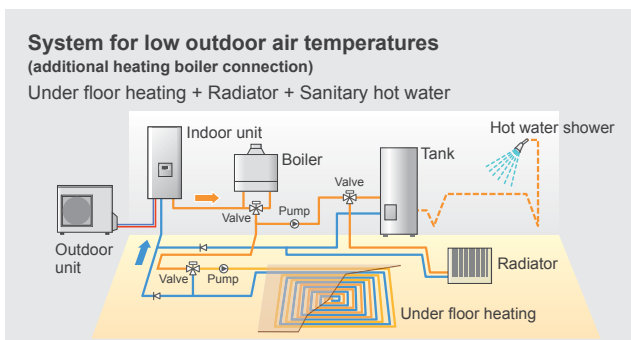
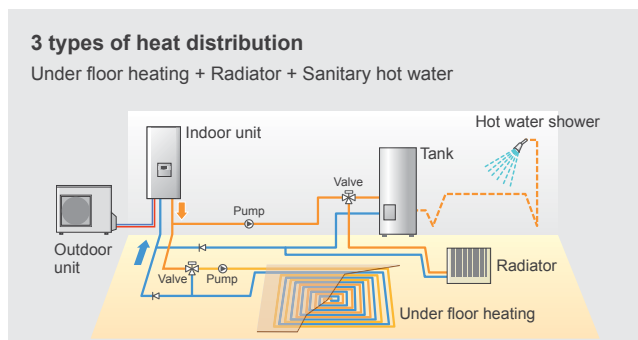
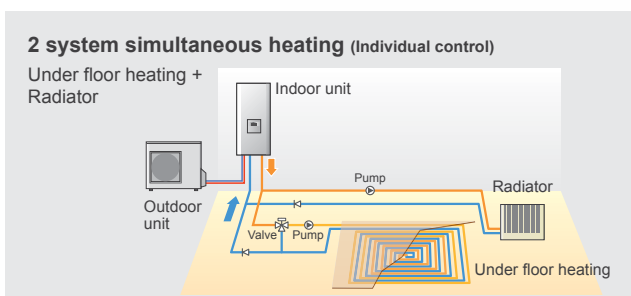
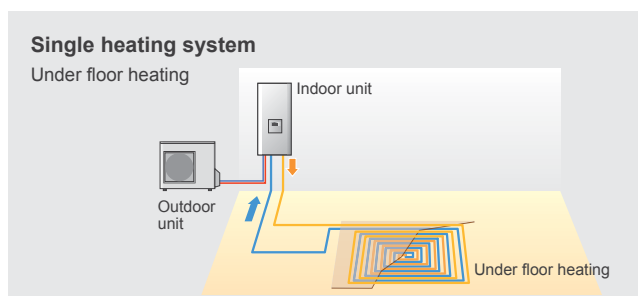
- Simple design system
- Hourly, Daily, Weekly programming operation
- Holiday operation mode
- Operation status display
- Error display / Error history




Design Versatility

Installation example

The water heating system can be freely constructed for a wide range of applications from floor heating to hot water showers.



Lineup

Capacity range (kW)		5	6	8	10	13	16
Model name	Indoor unit	 WSYA050DA	 WSYA065DA	 WSYA080DA	 WSYA095DA	 WSYA128DA	 WSYA155DA
	Outdoor unit	 AOYA18LALL		 AOYA24LALL	 AOYA30LBT	 AOYA45LBT	 AOYA54LJBY

Optional parts

2nd Circuit Kit



UTW-KZSXA

Boiler Connection Kit



UTW-KBSXA

Balancing Vessel



UTW-TEVXA

DHW Kit



UTW-KDWSXA

DHW Tank 200L



UTW-T20XA

DHW Tank 300L



UTW-T30XA

High Flow Rate Circulating Pump Kit



UTW-PHFXA

Swimming Pool Kit



UTW-KSPXA

Heat exchanger for swimming pool



UTW-ESPSXA

Cooling Kit



UTW-KCLXA

Cooling Kit (High flow rate)



UTW-KCHXA

Remote Control



UTW-C75XA

Room Thermostat

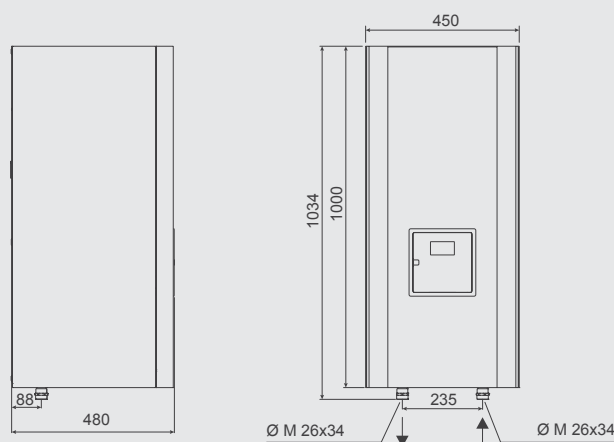


UTW-C55XA

Dimensions

Models: WSYA050DA / WSYA065DA / WSYA080DA
WSYA095DA / WSYA128DA / WSYA155DA

(Unit : mm)



Specifications

Capacity range (kW)		5	6	8	10	13	16
+7°C/+35°C floor heating	Heating capacity	5000	6500	8000	9500	12800	15500
	Input power	1160	1630	1880	2370	3120	3880
	COP	4.30	4.00	4.25	4.00	4.10	4.00
-7°C/+35°C floor heating	Heating capacity	4800	5600	7000	8100	11000	13800
	Input power	1750	2240	2540	3520	3790	5300
	COP	2.75	2.50	2.76	2.30	2.90	2.60
+7°C/+45°C radiators	Heating capacity	4150	5400	6200	7900	9700	13300
	Input power	1150	1610	1880	2390	3130	4090
	COP	3.60	3.35	3.30	3.30	3.10	3.25
-7°C/+45°C radiators	Heating capacity	4050	5100	5900	7900	8300	11000
	Input power	1720	2320	2620	3590	4610	5370
	COP	2.35	2.20	2.25	2.20	1.80	2.05
Electric heater	W	2 x 1500	2 x 1500	2 x 1500	2 x 3000	2 x 3000	2 x 3000
Indoor unit	Model name	WSYA050DA	WSYA065DA	WSYA080DA	WSYA095DA	WSYA128DA	WSYA155DA
Dimensions H x W x D	mm	1034 x 450 x 480					
Net weight / filld weight	kg	52.5 / 77.5					
Hydraulic characteristics							
Buffer tank capacity	l	25					
Expansion Vessel capacity	l	8					
Water flow rate (min./max.) 4°C < ΔT < 8°C	l/h	540 / 1100	600 / 1400	860 / 1700	1000 / 2050	1380 / 2700	1670 / 3300
Electrical connections							
Power source		1Ø 230V~, 50Hz					
Circuit breaker	A	16	16	16	30	30	30
Outdoor unit	Model name	AOYA18LALL		AOYA24LALL	AOYA30LBTL	AOYA45LBTL	AOY54LJBYL
Power source		1Ø 230V~, 50Hz					
Rated current	A	5.16	7.25	8.27	10.4	13.7	17.1
Circuit breaker	A	16		16	16	25	32
Dimensions H x W x D	mm	578 x 790 x 300		578 x 790 x 315	830 x 900 x 330	1290 x 900 x 330	1290 x 900 x 330
Weight	kg	40		44	64	98	105
Noise level *1	dBA	39		40	55	55	55.5
Operation range	°C	-15~24					
Refrigerant		R410A					
Cooling characteristics							
Connection pipe diameter	Liquid	Ø6.35		Ø6.35	Ø9.52	Ø9.52	Ø9.52
	Gas	Ø12.7		Ø15.88	Ø15.88	Ø15.88	Ø15.88
Refrigerant charge	g	1250		1700	2200	3350	3400
Min. / max. length	m	5 / 15		5 / 15	5 / 20	5 / 20	5 / 20
Max. height difference	m	15		15	20	20	20
Max. pipe length (chargeless)	m	15		15	20	20	20
Additional charge amount per 1m	g	20		20	40	50	40

*1. Sound pressure level measured at distance of 5m from the device and at a height of 1.5m above ground in free field