

Air and water source heat pump “Eco-Cute”

THE WORLD'S
FIRST!!

unimo AWW

Industrial and commercial dual hot water and chilled water supply

Air and water source CO₂ heat pump, automatically changes operating mode. Satisfies increasing market demand for clever renewable energy systems.

Efficient use of renewable energy

Dual mode unimoAWW can provide both chilled water and hot water.

1. Chilled water is generated using the water source when process cooling or cooling is required.
2. When cooling water is not required, unimoAWW generates hot water using the air as its heat source.
3. If ground bore water is used as a heat source, unimoAWW can operate using the air source in summer and water source in winter

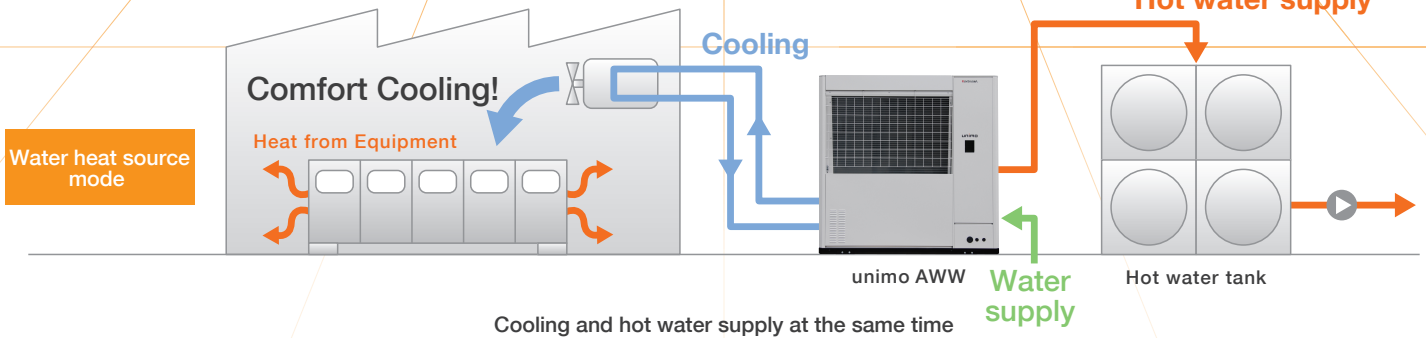
Easy system design

unimoAWW system design is simply and easy.



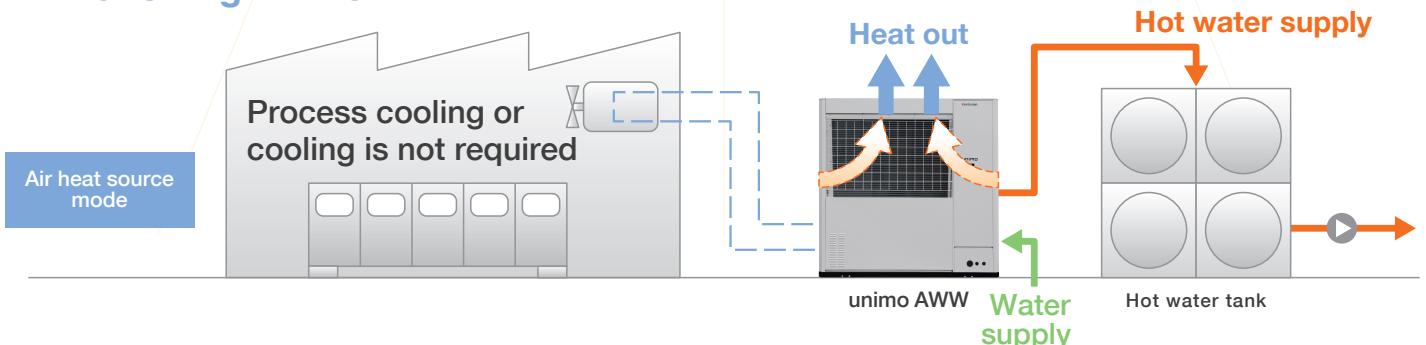
Summer or day time

When process cooling or cooling is required



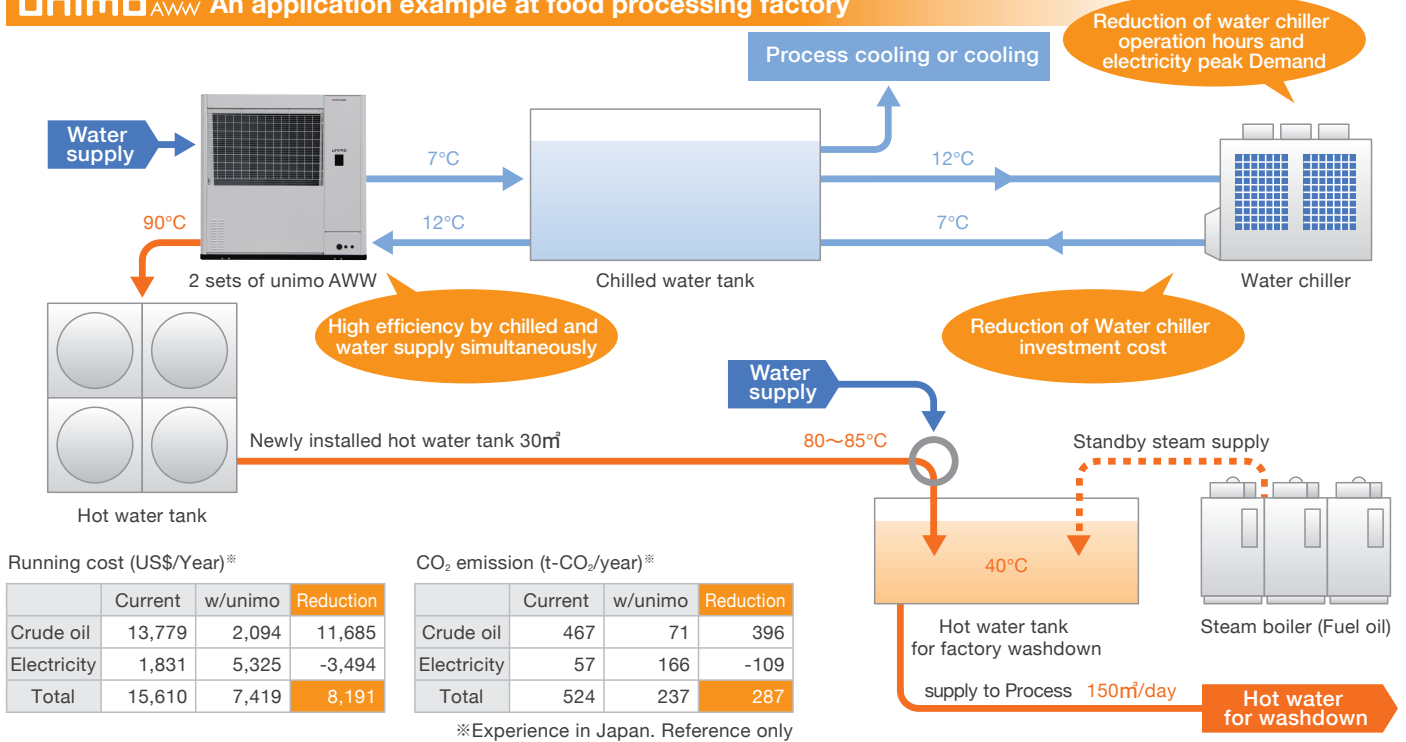
Winter or night time

When process cooling or cooling is not required



The system can generate hot water by using air as heat source when there is no cooling load

unimo_{AWW} An application example at food processing factory

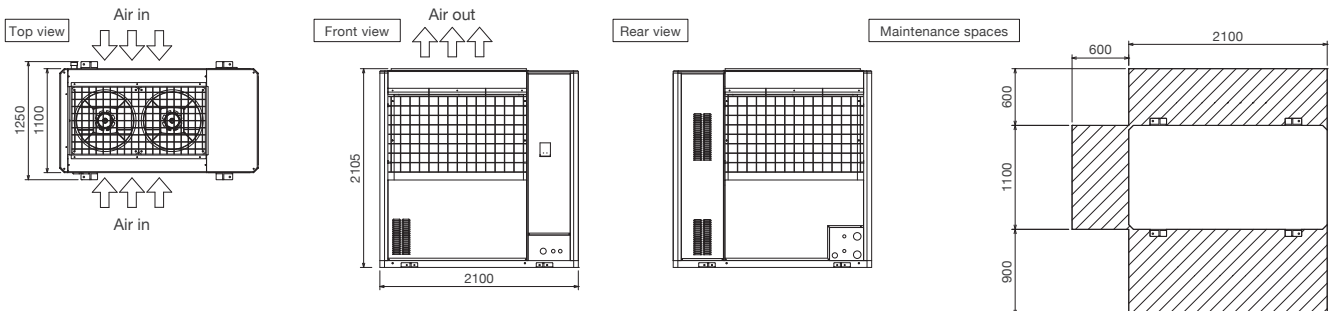


unimo_{AWW} Specifications

Model		HE-HWAW-2HTC					
Power		3-phase 415V AC 50Hz/60Hz					
Conditions		Standard	Interim periods ^{※3}	Heat recovering	Summer ^{※4}	Cooling	Winter ^{※5}
Heat source mode ^{※1}		Water	Air	Water	Air	Water	Air
Heating performance	Heating capacity (kW)	86.8	79.2	96.0	84.6	81.8	73.5
	Absorbed power (kW)	22.6	19.7	23.2	21.9	22.4	25.1
	^{※2} C.O.P heating	3.8	4.0	4.1	3.9	3.7	2.9
Cooling performance	Cooling capacity (kW)	65.8	-	76.3	-	60.9	-
	C.O.P cooling	2.9	-	3.3	-	2.7	-
Total efficiency	C.O.P total	6.8	-	7.4	-	6.4	
Water heat source conditions	Standard	15°C→10°C					
	Heat recovery	22°C→17°C					
	Cooling	12°C→7°C					

Outer dimensions		(mm)	W2,100 × L1,100 × H2,105
Weight		(kg)	1,510 (net) 1,530 (operating)
Operating ranges	Water inlet temp	5 to 65°C	
	Chilled water inlet temp	-2 to 37°C	
	Hot water outlet temp	65°C or 90°C	
	Ambient temp	-10 to 43°C	
Remarks	^{※1} Air and water heat source modes are available		
	^{※2} Capacity at 65°C hot water outlet temperature		
	^{※3} Capacity at DB16°C/WB12°C and water supply temperature at 17°C		
	^{※4} Capacity at DB17°C/WB6°C and water supply temperature at 24°C		
	^{※5} Capacity at DB7°C/WB6°C and water supply temperature at 9°C		
	Note: Max.operating water pressure 0.49Mpa, please install an approved pressure limiting valve if the inlet pressure is to exceed this value.		

unimo_{AWW} Outer dimensions and maintenance spaces



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Subject to change without notice.