

Water source heat pump "Eco-Cute"

Highest
Total COP 9.3

unimo_{WW}

Industrial and commercial hot water and chilled water supply

Boiler and Water chiller all in machine

unimo WW performs the functions both of Boiler and Water Chiller all in one machine.

Both 65°C hot water and 7 °C chilled water can be supplied simultaneously.

Effective Utilization of Unused Waste Heat

Unused low temperature waste heat from the plant or cooling water can be used as heat source.

Reduction of Existing Water Chiller Power Consumption

Performance of existing water chiller is increased and also its power consumption is decreased by utilizing it's cooling water as a heat source.

Equalization of Electricity Power Load

Storing hot water and chilled water using off peak tariff of electricity, the peak cut of electricity demand can be achieved.

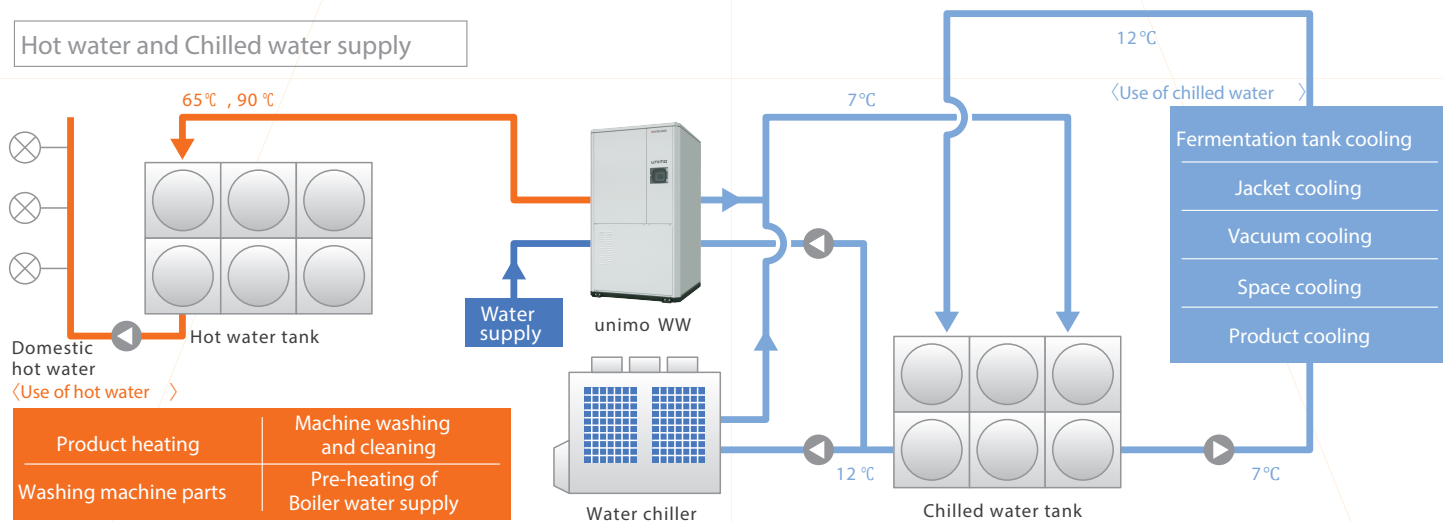
Compact Design

Easy installation due to a 10% reduction in size.



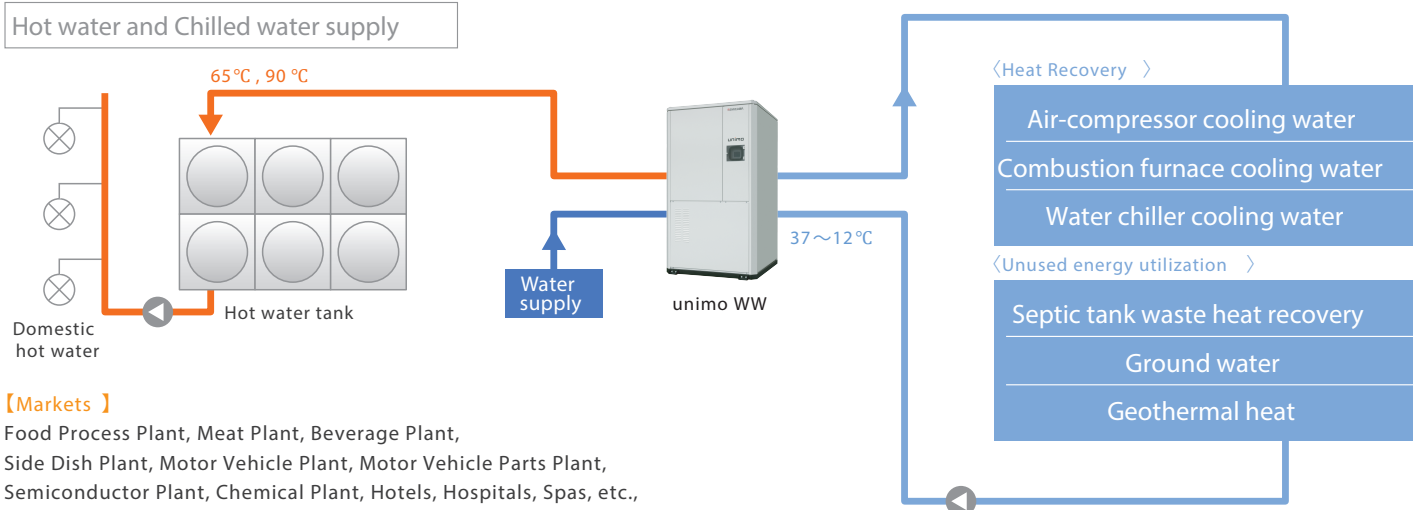
unimo_{WW} Application1

Hot water and Chilled water supply



unimo_{WW} Application 2

Hot water and Chilled water supply



【Markets】

Food Process Plant, Meat Plant, Beverage Plant,
Side Dish Plant, Motor Vehicle Plant, Motor Vehicle Parts Plant,
Semiconductor Plant, Chemical Plant, Hotels, Hospitals, Spas, etc.,

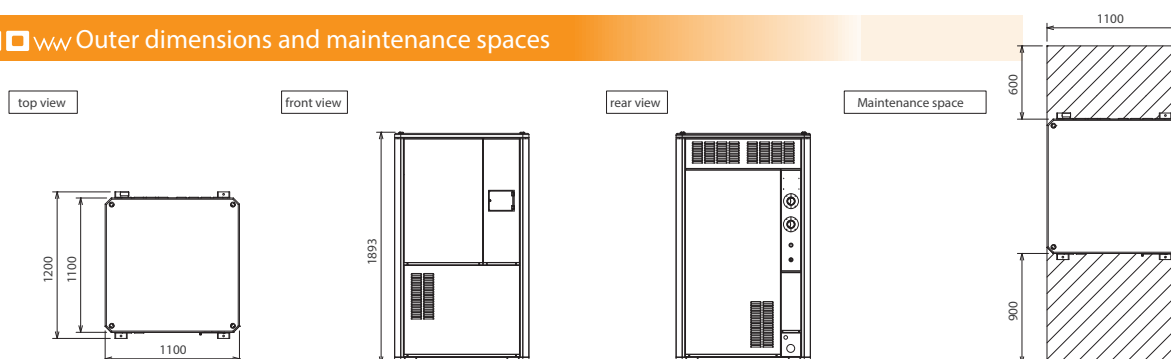
unimo_{WW} Specifications

| Model | | HE-HWW-2HTC | | | |
|-----------------------|----------------------------|--------------------------------|-------------------|-------------------|---------------------|
| Power | | 3-phase 415V AC 50Hz/60Hz | | | |
| Water heat source | | Brine ※ 1 | Chilled water ※ 2 | Chilled water ※ 3 | Heat recovering ※ 4 |
| Capacity | Heating capacity (kW) | 53.2 | 85.8 | 91.9 | 116.8 |
| | Cooling capacity (kW) | 37.9 | 64.0 | 69.5 | 94.8 |
| | ※ 5 Power consumption (kW) | 18.4 | 22.1 | 22.4 | 22.7 |
| Outer dimensions (mm) | | W1,100 × L1,200 × H1,893 | | | |
| Weight (kg) | | 985 (net), 1,007 (Operating) | | | |
| Compressor | Motor | 25kW x 4P | | | |
| | Star-up method | Inverter | | | |
| External connection | Water inlet | Rc3/4 (20A tap female, SUS316) | | | |
| | Hot water outlet | Rc3/4 (20A tap female, SUS316) | | | |
| | Chilled water inlet | Rc2 (50A tap female, SUS316) | | | |
| | Chilled water outlet | Rc2 (50A tap female, SUS316) | | | |

| Heat exchanger | | Hot water | Chilled water |
|------------------|---|--------------------------------|---------------|
| Operating ranges | Fluid | Water | Water/Brine |
| | Inlet temp. (°C) | 5 to 65 | -5 to 37 |
| | Outlet temp. (°C) | 65 or 90 | -9 to 32 |
| | Flow rate (Lit/min) | 5 to 35 | 100 to 284 |
| | Water pressure (MPa) | 0.25 to 0.5 | 0.1 to 1.0 |
| | Ambient temp. (°C) | -10 ~43 | |
| Color | Enclosure | Munsell N8.0 approximate color | |
| | Base | Munsell N1.0 approximate color | |
| Noise | (dBA) | 57 | |
| Remarks | ※1 Brine temp. in -5 °C /out -9 °C, Water temp. 17 °C | | |
| | ※2 Chilled water in 12 °C /out 7 °C, Water temp. 17 °C | | |
| | ※3 Chilled water in 15 °C /out 10 °C, Water temp. 17 °C | | |
| | ※4 Chilled water in 37 °C /out 32 °C, Water temp. 17 °C | | |
| | ※5 Capacity @ hot water supply 65 °C | | |

Note: Please install an approval pressure limiting valve if the inlet water pressure is to exceed the values.

unimo_{WW} Outer dimensions and maintenance spaces



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Subject to change without notice.

