

Sundez Multi-Function Geothermal Heat Pump



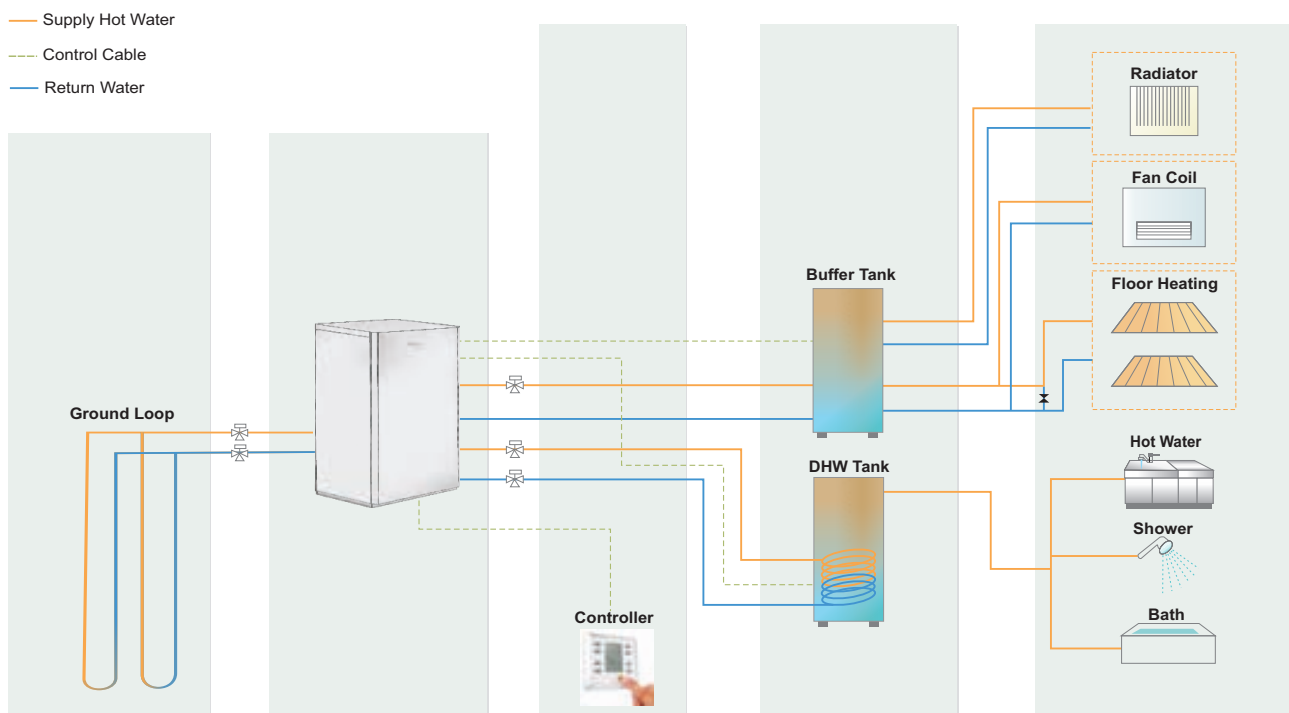
Advantages:

- ◆ The multi-function heat pump is designed for central hot water solution for European houses, with cold recovery, comprehensively enhancing resource utilization.
- ◆ Available all-year-round sanitary hot water; Cooling+DHW in summer, total COP up to 7.0; Heating+DHW in winter, DHW as priority;
- ◆ Sanitary hot water available alone in spring or autumn when central heating or cooling is not necessary.
- ◆ European aesthetic design, with luxurious outlook and makes sure good-looking installation by hiding pipings and wirings.
- ◆ The suspending system design to reduce vibration, as well as other noise absorption measures, make sure quiet operation.

Remarks:

- ◆ We provide heat pump in R22 and R410a.
- ◆ Wilo water pump is optional for ground loop.
- ◆ We provide heat pump as per customer's request.

System Diagram



System Introduction

- ◆ Sundez Multi-Function Geothermal Heat Pump providing three solutions for different demands on house eating and cooling, as well as sanitary hot water.
- ◆ Three different solutions: Heating only, Heating & cooling, and Heating & cooling with sanitary hot water.
- ◆ Reliable and high efficiency components are integrated, with electronic control system providing, it is safe and reliable to use Sundez's geothermal heat pump.
- ◆ Sanyo/Copeland compressor, Grunfos and Wilo water pump, High efficient plate heat exchanger (stainless steel), Emerson TEV, Emerson Sigh glass, Emerson Drier-filter.
- ◆ With our laboratory, we can ensure it is most high efficiency geothermal heat pump system.



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Sundez Multi-Function Geothermal Heat Pump

WR SERIES

Heating or Cooling, and sanitary hot water solution



| Model | | SDWW-100-WR | SDWW-160-SWR | SDWW-320-SWR | |
|---|-------------------------|-------------|-----------------------------|--------------|---------------|
| Refrigerant | | R410a | | | |
| Rated Output Water Temperature | | ℃ | 45 | | |
| Max. Output Water Temperature | | ℃ | 55 | | |
| Power Supply | | V/Ph/Hz | 220/1/50 | 380/3/50 | |
| Test Condition W25℃/W7℃ | Cooling Capacity | W | 8100 | 13800 | 27600 |
| | | BTU | 27600 | 47000 | 94100 |
| | Cooling Input Power | W | 2700 | 3600 | 7000 |
| | Cooling Start Current | A | 40 | 35 | 35 |
| | Cooling Running Current | A | 13 | 6 | 14.6 |
| Test Cndtion W7℃/W35℃ | Heating Capacity | W | 10600 | 16600 | 33200 |
| | | BTU | 36100 | 56600 | 113300 |
| | Heating Input Power | W | 2900 | 4000 | 7900 |
| Test Cndtion W7℃/W45℃ | Heating Capacity | W | 10200 | 16000 | 32000 |
| | | BTU | 34800 | 54600 | 109000 |
| | Heating Input Power | W | 3300 | 4500 | 8800 |
| Heating Start Current | | A | 45 | 41 | 41 |
| Heating Running Current | | A | 13.4 | 7.7 | 15.7 |
| Compressor Brand | | | Sanyo | Sanyo | Sanyo |
| Compressor Quantity | | unit | 1 | 1 | 2 |
| Heat Exchanger | | | Brazed Plate Heat Exchanger | | |
| Hot Water Output | | L/H (ΔT35℃) | 245 | 390 | 780 |
| Ground Source ⁽¹⁾ Water Flow Volume | | Ton/Hour | 1.4 | 2.4 | 5 |
| Ground Source Inlet Water Temp. Range (Heating) | | ℃ | -5 to +25 | -5 to +25 | -5 to +25 |
| Hot Water Side ⁽²⁾ Flow Volume | | Ton/Hour | 1.7 | 2.7 | 5.5 |
| Hot Water Side Pressure Drop | | KPa | 10 | 10 | 15 |
| Domestic Hot Water Flow Volume | | Ton/Hour | 1.7 | 2.8 | 5.8 |
| Circulation Water Pump ⁽³⁾ | | | Built-In | Built-In | Not Available |
| Recommended Buffer Tank | | Litre | 200 | 200 | 200 |
| Water Pipe Specification | | | 1-1/4"F | 1-1/4"F | 1-1/2"F |
| Noise | | dB(A) | 37 | 55 | 57 |
| Net Dimension (L* W *H) | | mm | 800x700x780 | 800x700x780 | 850x800x880 |
| Packing Dimension (L*W*H) | | mm | 865x765x915 | 865x765x915 | 920x870x1025 |
| Net/Gross Weight | | Kg | 90/115 | 130/155 | 200/235 |
| 20GP/40GP/40HQ | | unit | 38/82/82 | 38/82/82 | 24/52/52 |

Remarks:

- (1) Ground Source : Ground loops where heat pump absorb heat from the ground.
- (2) Hot Water Side: Hot water loops that provide hot water to tanks for central heating and sanitary hot water.
- (3) Circulation water pump is for Hot Water Side, but optional for Ground Loop.

Measuring Conditions

Cooling Mode: W25°C/W7°C. Ground loop water inlet temperature 25°C; Hot water loop outlet temperature 7°C.
Heating Mode: W7°C/W45°C. Ground loop water inlet temperature 7°C; Hot water loop outlet temperature 45°C.