

**iDeye**

# SOLAR AIR SOURCE WATER HEATER

Hybrid ACDC



Hybrid Solar



All DC  
Inverter



Super-conduction  
Heat Exchange



Auto Overload  
Protection



R290 ECO



Dual-Source  
Rapid Heating



Wi-Fi



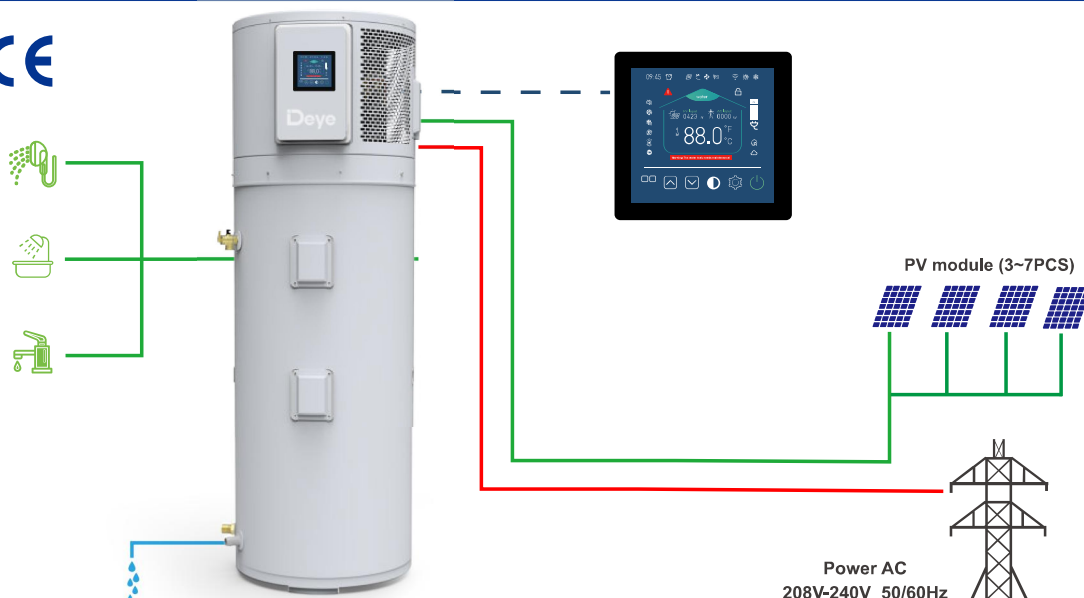
100% solar energy usable in daytime



| Model                                     |                                  |        | DRSK1-ACDC-25/300R3        |
|-------------------------------------------|----------------------------------|--------|----------------------------|
| Power supply AC                           | Rated grid power                 | V/Ph/H | 220-240/1/50-60            |
| Power supply DC<br>(PV string input data) | Max. PV input voltage            | V      | 380                        |
|                                           | Start-up voltage                 | V      | 80                         |
|                                           | MPPT voltage range               | V      | 75-360                     |
|                                           | Full load MPPT voltage range     | V      | 200-360                    |
|                                           | Max. input short circuit current | A      | 20                         |
|                                           | Max. operating PV input current  | A      | 13                         |
|                                           | No.of MPPT trackers              |        | 1                          |
|                                           | No.of Strings per MPPT tracker   |        | 1                          |
| Heating <sup>1</sup> (A20/W55)            | Capacity                         | W      | 2500                       |
|                                           | Rated input                      | W      | 500                        |
|                                           | COP                              | W/W    | 5.00                       |
| Sound pressure level(1m)                  |                                  | dB(A)  | 48                         |
| Max input power <sup>2</sup>              |                                  | W      | 3200                       |
| Max current(AC)                           |                                  | A      | 17.0                       |
| Water proof level                         |                                  |        | IPX4                       |
| Electric shock prevention                 |                                  |        | Class I                    |
| Refrigerant                               | Type/GWP                         |        | R290/3                     |
|                                           | Charged volume                   | kg     | 0.32                       |
| Compressor                                | Type                             |        | Rotary                     |
|                                           | Brand                            |        | GMCC                       |
| Outdoor fan                               | Motor type                       |        | DC brushless motor         |
|                                           | Fan direction                    |        | Horizontal                 |
|                                           | Output power                     | W      | 34                         |
| Water side heat exchanger                 | Type                             |        | Aluminium micro-channel    |
| Air side heat exchanger                   | Type                             |        | Finned tube                |
| Throttle type                             |                                  |        | Electronic expansion valve |
| Electric heater power                     |                                  | W      | 2000                       |
| Water tank capacity                       |                                  | L      | 280                        |
| Max water pressure                        |                                  | MPa    | 0.8                        |
| Water inlet/outlet pipe diameter          |                                  |        | G3/4"                      |
| Drain pipe diameter                       |                                  |        | G3/4"                      |
| Net dimension                             | ΦDxH                             | mm     | Φ650x2000                  |
| Packing dimension                         | LxWxH                            | mm     | 700x700x2100               |
| Net weight                                |                                  | kg     | 140                        |
| Gross weight                              |                                  | kg     | 170                        |

**Note:**

1. Heating test conditions: Ambient temperature (DB/B): 20/15°C, Water temperature( initial/final):15°C/55°C
2. The maximum input power includes the power of the water tank electric heater;
3. Operating range: Ambient temperature:-7~46°C, Water temperature: 30~75°C
4. Parameters are subject to change without prior notice, please refer to the nameplate!



# Solar Air Source Water Heater

High Efficiency, Energy Saving, and Environmental Protection: Deye waterheater employs advanced photovoltaic direct drive technology, ensuring its power consumption characteristics align with photovoltaic power generation to prioritize the use of solar energy. With grid power as a supplementary source and the integration of dynamic load tracking MPPT technology, it maximizes the real-time utilization of photovoltaic energy.



**R290 ECO**  
The standard mode where the highest efficiency is achieved.



**Dual-Source Rapid Heating**  
Microchannel Heat Exchanger & E-heater operate together to ensure the set temperature is achieved.



**Super-conduction Heat Exchange**



## Environmentally Friendly

This heat pump uses R290 which is one of the most environmentally friendly refrigerants, with a extremely low Global Warming Potential (GWP) of only 3.

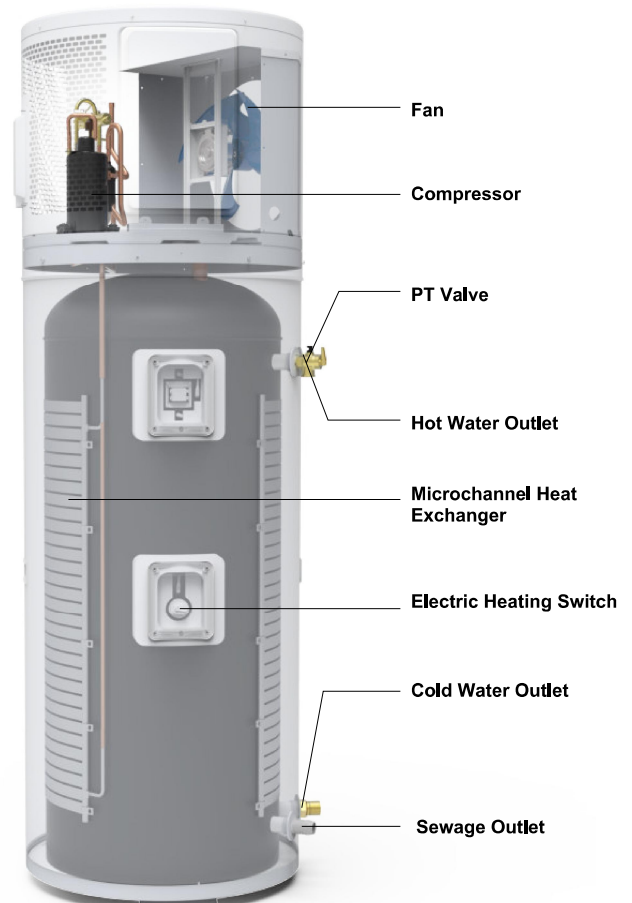


**R290 Global Warming (HC) Potential (GWP)**



## How it works

1. A fan draws in air, containing heatenergy, across the evaporator. Theevaporator turns the liquidrefrigerant into a gas
2. The compressor pressurises therefrigerant into a hot gas
3. The hot gas inside the condensercoil heats the water inside thecoil-wrapped tank. The refrigerantreverts back to a liquid after heatingthe water and continues to theelevatorator for the process to startagain.



**605117**  
STOCK CODE

**Deye**



✉ [solarac.sales@deye.com.cn](mailto:solarac.sales@deye.com.cn) ☎ 86-0574 6397 1382 🌐 [www.deyesolar.com](http://www.deyesolar.com)

📍 Zhejiang Deye Electrical Appliances Co., Ltd.No.889 Waitang Road, Haiyan, Jiaxing, Zhejiang, 314300 P.R.China