

# SENSOR

## Natural Technology Ground Source Heat Pump - Modulating | 10 | 15 kW



Air



Ground



Water



Brine



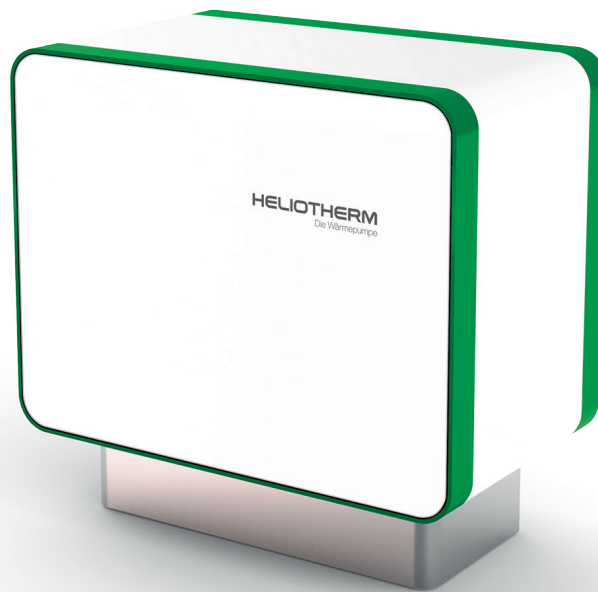
PV



Modulation



PV-ready



### State of the Art!

The Heliotherm Natural Technology ushers a new era in heat pump technology. The leading-edge technology is unrivaled in every aspect! Optionally possible to **combine with a photovoltaic system and a full modulating heat pump**, thereby a total **SCOP of up to 8** is possible.

The ground on which you build your home is a **free source of energy**. This highly efficient system proves to have a **best value** for price ratio. Maintain your budget and the environment with the **lowest operating costs** known today with this most reliable ground collector system unique of its kind, making use of free environmental energy.

The Natural Technology ground source heat pump is a direct system, which operates without an intermediate circuit, is exceedingly safe and requires low maintenance. Moreover, the homeowner can enjoy **natural home comfort** and pleasant climate temperatures in the home.



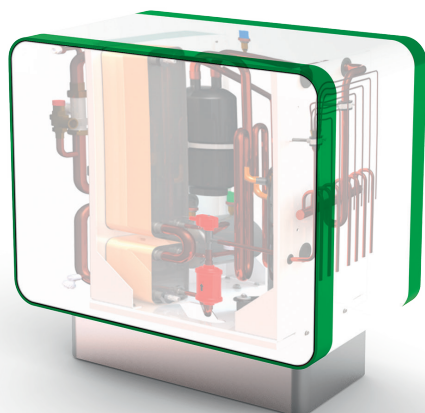
reddot award 2016  
winner

\* **SCOP** (Seasonal Coefficient Of Performance)  
= The ratio of the annual heat output for room heating, DHW heating in kWh and the required electrical drive energy in kWh.

### Your Advantages

- ✓ **World's most efficient** heat pump technology
- ✓ **Most Eco-friendly refrigerant** no greenhouse potential
- ✓ **Heating outlet temperature of up to 70 °C** possible, it can also be combined with conventional radiators
- ✓ **Fully modulating technology** automatic adjustment to the building's energy performance demand
- ✓ **PV-Ready** with capacity adjustment to the available solar electrical power
- ✓ **Quiet** - sound optimized casing





- **Natural refrigerant**
- **High quality materials**
- Fully **modulating**
- **dsi-Technology®**
- **twin-x-Technology®**



web control®

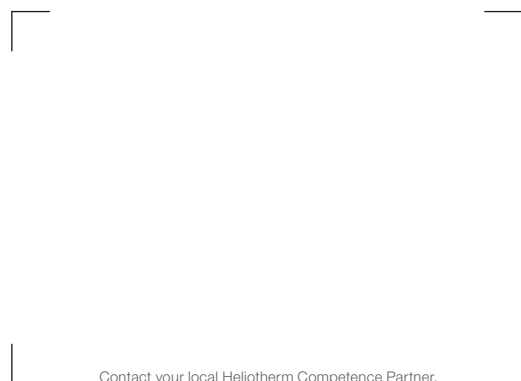


Optimized refrigerant cycle



dsi-Technology®

| Natural Technology HP                      | Unit  | SNTM 3-10    | SNTM 5-15    |
|--|-------|--------------|--------------|
| Max. heating capacity (E4/W35)             | kW    | 10,6         | 15,8         |
| Modulating (50%) heating capacity (E4/W35) | kW    | 5,5          | 7,9          |
| <b>COP (E4/W35)</b>                        |       | <b>6,15</b>  | <b>6,18</b>  |
| Heating capacity (E4/W55)                  | kW    | 5,81         | 10,68        |
| <b>SCOP (EN14825) Climate: Average</b>     |       | <b>6,67</b>  | <b>6,70</b>  |
| Maximal outlet heating temperature         | °C    | 70           | 70           |
| Accoustic output acc. to EN 12102          | dB(A) | 51           | 51           |
| Dimensions (H x W x D)                     | cm    | 99 x 90 x 55 | 99 x 90 x 55 |
| Empty weight                               | kg    | 125          | 126          |



Contact your local Heliotherm Competence Partner.

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