

# GROUND SOURCE HEAT PUMP WITH SURFACE COLLECTOR

web control series  
Heating capacity from 4 - 34 kW



## The foundation for wellness in your home

The ground on which you build your home is a free source of energy. The intelligent Heliotherm geothermal heat pump uses this energy efficiently and at the best price for performance. Protect your budget and the environment at the lowest operating costs known in a ground collector system today and with the use of free independent environmental energy.

## What you can count on

Your Heliotherm geothermal heat pump is a direct system, without an intermediate cycle and therefore inexpensive, reliable in operation and maintenance free, providing well being comfort temperatures in your home. By simply reversing the refrigeration cycle the system cools your home in summer. Technical leadership and a proven product, including the patented remote maintenance and regulating control fulfill higher expectations.



## Advantages of a Heliotherm heat pump

- Highest energy efficiency of all ground source **direct evaporating** heat pumps.
- Annual performance factor: greater than "5" possible > highest possible grant funding\*
- Direct heat exchange > no circulation pump > **lower operating costs.**
- Active cooling possible - optional.
- Quiet operation** through acoustic decoupling and special insulation design.
- Ideal for new buildings with sufficient land.
- Highest efficient use of free energy and low operating costs through Heliotherm's **patented twin-x®** and **dsi® technology.**
- Outlet temperatures of up to 60° C are possible due to the multi-sensor monitored cycle, also resulting in **higher operating reliability.**
- No additional immersion heating rod required - no hidden costs.

\*dependent on regional funding



## PERFORMANCE DATA – GROUND SOURCE HEAT PUMP WITH SURFACE COLLECTOR, WEB CONTROL SERIES

Heliotherm heat pump - type		HP05E-WEB	HP07E-WEB	HP08E-WEB	HP10E-WEB	HP12E-WEB	HP16E-WEB	HP20E-WEB	HP28E-WEB
Max. heat outlet temperature		60 °C*							
E4W35 according to EN255 / Δ 10 K	Heating capacity [kW]	6,71	7,94	9,58	12,60	16,05	20,13	25,59	34,37
	COP	5,76	5,80	5,77	5,79	5,77	5,77	5,62	5,58
E4W35 to EN15879-1 / Δ 5 K	Heating capacity [kW]	6,55	7,75	9,35	12,30	15,67	19,65	24,99	33,57
	COP	5,46	5,50	5,47	5,48	5,47	5,47	5,33	5,29
Dimensions in cm (H x W x D)		138 x 46 x 52	138 x 46 x 52	138 x 46 x 52	138 x 46 x 52	138 x 46 x 52	138 x 46 x 52	138 x 55 x 62	138 x 55 x 62

\* Compressor specification

## PERFORMANCE DATA – MODULATING GROUND SOURCE HEAT PUMP WITH SURFACE COLLECTOR, WEB CONTROL SERIES

Heliotherm heat pump - type		HP08E-M-WEB	HP12E-M-WEB	HP20E-M-WEB
Max. heat outlet temperature		60 °C*		
E4W35 according to EN255 / Δ 10 K	Heating capacity [kW]	14,5 - 4,1	18,5 - 6,1	22,9 - 8,2
	COP	5,66 - 5,85	5,72 - 5,95	5,68 - 5,98
E4W35 to EN15879-1 / Δ 5 K	Heating capacity [kW]	14,2 - 4,0	18,1 - 6,0	22,4 - 8,0
	COP	5,37 - 5,54	5,42 - 5,64	5,38 - 5,67
Dimensions in cm (H x W x D)		138 x 46 x 52	138 x 46 x 52	138 x 46 x 52



### Heliotherm modulating technology\*\*

**Smarter, more efficient and flexible.**

- Up to **25 % higher system efficiency**, lower CO<sub>2</sub> emissions than conventional heat pump systems.
- Long life through soft starter technique.
- More flexible system use of the heating system. Unused rooms can easily be excluded from the heating system.

\*\* optional



### Stepless modulation.

**Adjusts to the building's heating demand.** Changing outdoor temperatures require an individual smart heating system. Through the intelligent regulating control technology and the modulating compressor, the system will only use as much power as needed to produce the heat required. Thus, your heating costs will be automatically optimized all year round.

### Exemplary efficiency.

Heliotherm heat pumps have been awarded with the **best possible classification by independent testing institutes**. Tested and approved heat pumps and granting Heliotherm with required energy efficiency labels. In addition the Tyrolean heat pump manufacturer fulfills its leadership role in terms of efficiency with the international seal of approval for tested quality and numerous patents. **Lowest operating costs with maximum environmental awareness** you can count on.

### Maximum use of subsidies.

High annual coefficient performance results allow for application to **maximum state and federal grants**. Your Heliotherm expert partner can inform you about the individual grant development opportunities in your area.

### Heliotherm expert partners, your guarantee for excellence.

Our customers can rely on a specialist business that offers **one-stop services!** Certified heat pump specialists that provide: **consulting, planning, assembly installation and service!** From the floor heating to the heat pump system - from the regulating control to the refrigeration technology - from planning through to the complete installation and service – top products and a **competent partner you can rely on!**



**Remote maintenance capable** through Heliotherm's web control® for global access control via internet or mobile.



**Twin-x optimizes refrigerant**  
**Additional free energy from the environment** is used for heating by means of Heliotherm's registered twin-x technology®.



**Electronic regulated working fluid**  
The Heliotherm patented DSI-technology® automatically adjusts to the changed operating conditions and therefore considerably **lowers operating costs**.

Presented by your Heliotherm expert partner.