

GROUND SOURCE HEAT PUMP WITH CO₂ GROUND PROBE

web control series
Heating capacity from 4 - 34 kW



Ultimate Comfort

Security, stability and trust is the foundation for wellness in your home. The Heliotherm geothermal CO₂ heat probe heat pump meets this criteria and proves convincing through intelligent use of geothermal energy. The use of CO₂ as a working fluid is absolutely harmless and can be used in water protection areas.

Advantages of patented technology

The patented technology is one-step ahead and proves sustainability at all levels: The high efficiency, maintenance-free operation and low operating costs are exclusively available from Heliotherm. Additionally, you also save the cost of electricity by excluding an energy source pump, since the CO₂ heat pipe is self circulating. Also using Heliotherm's web control® regulator for cascade application, swimming pool heating, the integration of a solar system or the remote maintenance and control of your quality system.



Advantages of a Heliotherm heat pump

- ✓ **Patented CO₂ Technology** - exclusively at Heliotherm.
- ✓ Annual performance factor: greater than "5" possible > highest possible grant funding*
- ✓ **Highest energy savings** through the self circulating cycle - no circulation pump needed - **low operating costs.**
- ✓ Exceptionally environmentally friendly - **use in water conservation areas possible.**
- ✓ **Quiet operation** through acoustic decoupling and special insulation design.
- ✓ Unique CO₂ probe requires **less installation space.**
- ✓ 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.



PERFORMANCE DATA – GROUND SOURCE HEAT PUMP WITH CO₂ GROUND PROBE, 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*							
V-5W30 according to EN255 / Δ 10 K	Heating capacity [kW]	6,03	7,15	8,76	11,56	14,72	18,24	23,25	31,31
	COP	5,14	5,20	5,32	5,37	5,34	5,31	5,18	5,14
V-5W30 to EN15879-1 / Δ 5 K	Heating capacity [kW]	5,91	7,00	8,85	11,31	14,41	17,89	22,77	30,67
	COP	4,84	4,90	5,01	5,06	5,03	5,00	4,88	4,84
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 CO₂ GROUND PROBE, WEB CONTROL SERIES

Heliotherm heat pump - type		HP08E-M-WEB	HP12E-M-WEB	HP20E-M-WEB
Max. heat outlet temperature		60 °C*		
V-5W30 according to EN255 / Δ 10 K	Heating capacity [kW]	13,3 - 4,1	18,5 - 6,1	20,8 - 8,2
	COP	5,24 - 5,47	5,29 - 5,53	5,17 - 5,44
V-5W30 to EN15879-1 / Δ 5 K	Heating capacity [kW]	13,0 - 4,0	18,1 - 6,0	20,4 - 8,0
	COP	4,93 - 5,15	4,98 - 5,20	4,78 - 5,12
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 CO₂ 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.