



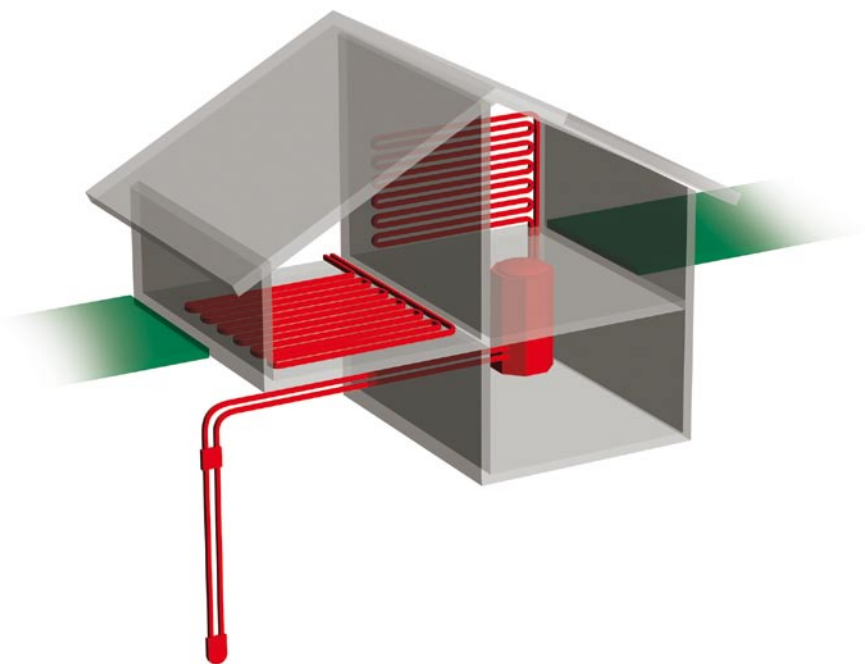
BRINE HEAT PUMP INDIRECT SYSTEM



Area of application

The brine/water heat pump for the use of **natural, cost-free and renewable solar energy** is suitable for:

- **Single and multi-family homes**
- As a **horizontal and vertical system**
 - a.) Alternatively either terrestrial subsurface collectors (horizontal system)
 - b.) Or heat pipe (vertical system)








Principle

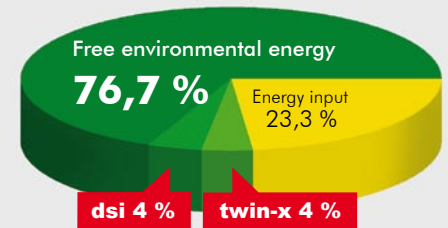
An **anti-freeze solution** circulates in a **collector system** that is arranged either **vertically** (terrestrial brine heat pipe) or **horizontally** (terrestrial subsurface collector system).

The cold brine absorbs solar energy stored in the surrounding ground.

This energy is available for space **heating and hot water production year-round.**

Special characteristics

-  **High efficiency decreases operating costs due to:**
 - **Heliotherm twin-x technology®** for even more efficient use of the stored solar energy
 - **Heliotherm dsi-technology®** (electronic injection system with automatic adjustment to individual operating conditions)
-  **Quieter operation** due to the new Heliotherm-DSG shell
-  **Heliotherm web control®** regulation system for worldwide remote control over the Internet
-  The **Heliotherm tele control remote maintenance system** offers reliability and easy customer control
-  **International quality inspection seal**



Advantages brine heat pump

- Can be used alternatively with a heat pipe or terrestrial collectors
- Affordable year-round use of the nearly constant ground temperature due to free solar energy
- High efficiency even in the coldest outside temperatures
- Small space requirement of the heat pipe, therefore optimally suitable for apartment houses
- Independence from groundwater quality due to its closed circuit
- Operational reliability due to universally applicable, closed circuit



TECHNICAL DATA

HEAT PUMP	HP05S07W-WEB	HP07S08W-WEB	HP08S10W-WEB	HP10S12W-WEB	HP12S16W-WEB	HP16S18W-WEB	HP20S25W-WEB	HP28S40W-WEB	HP32S45W-WEB	HP42S55W-WEB
Heat output B0/W35 *	5,84 kW	6,61 kW	8,13 kW	10,42 kW	13,72 kW	17,02 kW	21,49 kW	28,66 kW	32,72 kW	41,29 kW
Power input B0/W35	1,22 kW	1,38 kW	1,70 kW	2,18 kW	2,87 kW	3,56 kW	4,78 kW	6,37 kW	7,27 kW	9,11 kW
Working medium	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a
Design compressor	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Evaporator/Condenser Design	Plate exchanger	Plate exchanger	Plate exchanger	Plate exchanger	Plate exchanger	Plate exchanger	Plate exchanger	Plate exchanger	Plate exchanger	Plate exchanger
Dimensions in cm	138x46x52	138x46x52	138x46x52	138x46x52	138x46x52	138x46x52	138x55x62	138x55x62	138x55x62	138x55x62

* Performance ratings after EN255. Heating temperature difference at aforementioned operating point of 9,9 Kelvin. For interpretation the exact system data must be calculated.

Certificated quality

twin-x

Heliotherm twin-x cooling technology®:
Patented technology for better use of stored solar energy - SPF > 5

web Control

Internet-controller Heliotherm web control®:
- Worldwide remote control
- Internet-compliant regulation equipment
- Easy operation

tele Control

Heliotherm tele control
Internet remote control system:
New remote operation and diagnostic system in conjunction with online data recording and trend analysis



Electronic injection system
Heliotherm dsi-Technik®:
Heliotherm **dsi-technology®** is an electronic injection system which regulates heat pump settings to optimise efficiency.
Dsi® automatically adjusts to changing operating conditions thus significantly lowering operating costs.

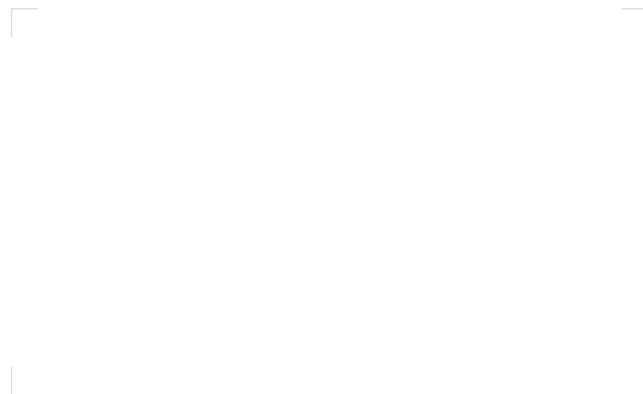
Service / Maintenance

Specially trained and competent regional affiliates ensure reliable and consistent service.

Financial incentives

Heat pump are considered a renewable energy source and are thereby often financially subsidized by national, regional and county agencies as well as energy suppliers. Further information regarding subsidy programs may be acquired through your Heliotherm-supplier.

Heliotherm ranks high amongst the leading European manufacturers of heat pump system technology. Heliotherm's 20 years of experience contribute to the development and production of high quality heat pumps. Over 12,000 satisfied customers attest to our success. We offer to our success. We offer to our customers reliable and innovative products with the highest performance ratings.



Your partner for **reliable planning, consultation and installation!**