

HELIO THERM Higher Efficiency



PRODUCT HIGHLIGHTS



free energy covers up to 80 % of energy demands

Choosing Heliotherm

Heliotherm's effective technology of tomorrow, is here today for you. The next generation of Heliotherm heat pumps are able to analyse weather forecast information, energy consumption and your personal heating preferences. The state-of-the-art system works efficiently reaching highest possible performance rates. The easy to use touch-pad allows you to comfortably access and control your heat pump system via internet at any time. In view of the constant change of electricity prices, Heliotherm heat pumps are defined by the smart meter and SG ready features which are designed for electricity conditions that will apply in 2018. Your Heliotherm heat pump system collects the most economical electricity rates available at the right time. These and other features support the innovative heating possibilities for your home. Today, and well into the future.





a power demand of only 20 % which
can be generated by nature with
photovoltaic technology,
a **100% energy return profit**



Heliotherm
heat pump



Heating



Hot water



Cooling

Your Way to **Independence**

THE MEASURE OF ALL THINGS

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AIR HEAT PUMPS

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CC PV - COP BOOSTER p. 10/11

Basic Comfort AIR p. 12/13

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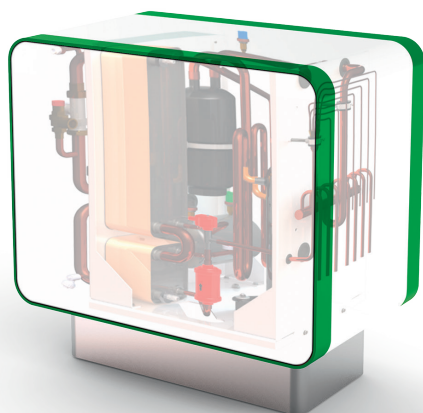
Sensor Solid Split AIR p. 18/19

GROUND SOURCE HEAT PUMPS

Web Control BRINE & WATER p. 20/21

Basic Comfort DX p. 22/23

Sensor Solid BRINE & WATER p. 24/25



- **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
COP (E4/W35)		6,15	6,18
Heating capacity (E4/W55)	kW	5,81	10,68
SCOP (EN14825) Climate: Average		6,67	6,70
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.

SENSOR

HELIO THERM
The Heat Pump

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



Air



Ground



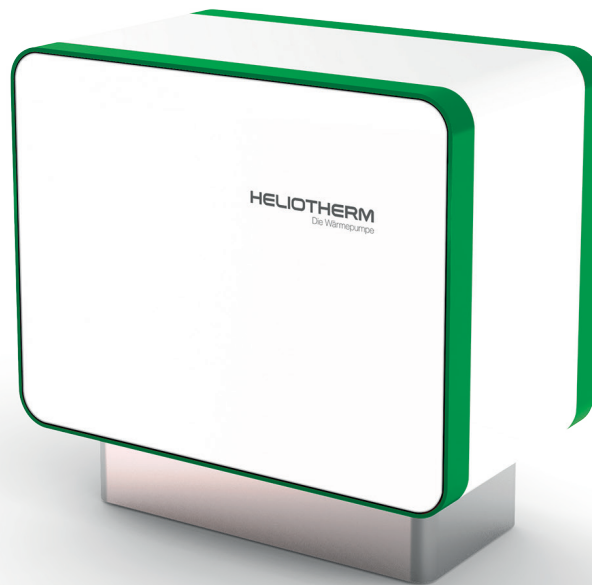
Water



Brine



PV



Modulation



PV-ready

A+++

ENERGY

The Measure of All Things!

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



Heliotherm Air heat pumps

Aims to achieve highest efficiency through higher efficiency and comfort! Heliotherm is a heat pump technology leader for over 25 years specializing in technological know-how implemented by its own research and development center. The endurance testing-rig and climatic chamber assure you that the Heliotherm brand name and "Made in Austria" label are highly set quality standards.

These featured innovative new standards, offer decision making advantages: Numerous international patents and awards, over 30,000 heat pumps installed, across Europe, and over 170 competence partners speak for themselves.

Before you decide on a heat pump, contact Heliotherm first - it will definitely be worth your while.



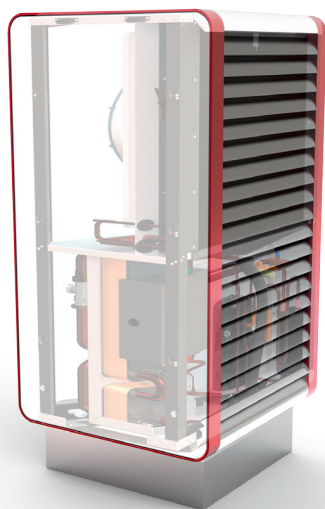


Comfort Compact

Air / Water Heat Pump | 8 | 12 | 18 kW

HELIO THERM

The Heat Pump



- Tempered Glass
- **twin-x**-Technology®
- **Fully Modulating**
- **dsi**-Technology®
- Frequency inverter
- Design **Plus**



Red



Alu Natural



DESIGNPLUS



web control®



Optimized refrigerant cycle



dsi-technology®

Sensor Comfort Compact HP	Unit	S08L-M-CC	S12L-M-CC	S18L-M-CC
Heating capacity at A7/W35 (10%)*	kW	4,6	7,0	9,6
COP at A7/W35		5,0	5,1	5,0
Heating capacity at A2/W35 (30%)*	kW	5,8	9,3	13,4
COP at A2/W35		4,2	4,3	4,1
Heating capacity at A-7/W35 (50%)*	kW	8,3	12,1	17,6
COP at A-7/W35		3,2	3,2	3,0
Acoustic output	db (A)	48	50	51
Max. outlet heating temp.	°C	62	62	62
Dimensions (H x W x D)	cm	170 x 90 x 59	170 x 94 x 100	170 x 94 x 100
Weight	kg	215	256	262

Option reversible cooling	Unit	REV08	REV12	REV18
Cooling capacity at A35/W18	kW	8,2	11,0	13,8
EER at A35/W18		4,0	4,2	4,0
Cooling capacity at A35/W7	kW	7,1	9,0	11,9
EER at A35/W7		3,6	3,6	3,7
SEER A35/W18		6,0	5,7	6,1

* Percentage of data corresponds to the number of the accelerator speeds. Heat output values are standard values. Please refer to the technical data sheets for details.



SENSOR

HELIO THERM
The Heat Pump

Comfort Compact Air / Water Heat Pump | 8 | 12 | 18 kW



Air



Ground



Water



Brine



PV



Modulating



PV-ready



Cooling

A+++
ENERGY

Specially designed for **single and multi-family homes**, Heliotherm provides with the new Sensor Series its latest generation of Air / Water heat pumps in a Compact Design.

Due to the stepless and fully automatic performance control, this heat pump series achieves a **particularly high seasonal performance factor**.

A high quality weather resistant aluminum alloy and elegant design distinguishes the heat pump, contributing as a **sustainable investment** which can be relied on for many years.

The intelligent compact design emits a significantly **lower operating sound**. This is made possible by a special back-curved centrifugal fan in connection with a sound optimized case design.



reddot award 2016
winner

* **COP** (Coefficient Of Performance)
The COP is a measure of the amount of power input to a system compared to the amount of power output by that system
= The present coefficient of performance (COP) of a heat pump is the heat output ratio to the drive performance.

The advantages

- ✓ **Highest energy efficiency** of all heat pumps available on the market in its class
- ✓ Even at lower outside temperatures **problem free heating operation**
- ✓ **Approval free**
-> a sensible installation for every building project
- ✓ Ideal for heating refurbishment - **easy installation**
- ✓ **Active cooling** optional
- ✓ The refrigerant cycle is continuously monitored by means of **special sensors**
-> Increased operational safety



More PV-COP-Booster advantages

- ✓ Significant **efficiency increase** for DHW and heating
- ✓ Unique **space saving** combination of photovoltaic and full modulating heat pump
- ✓ **Modular expansion** with our Independence Packages is possible at any time
- ✓ DHW at **almost no cost**
- ✓ **Quietest air/water heat pump** on the market
- ✓ Lowest operating costs
- ✓ Outdoor installation as a **compact unit** (plug & function)
- ✓ **Cost efficient** installation
- ✓ **Highest financial** aid eligibility for a air/water heat pumps



web control®



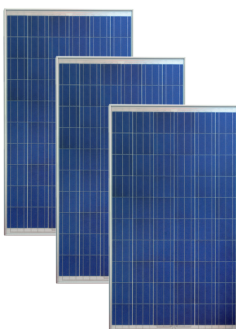
Optimized refrigerant cycle



dsi-Technology®



Stepless modulation



PV-COP-Booster*	12	18
Max. outlet heating temperature	62 °C	62 °C
Max. heating capacity - modulating	12 kW	18 kW
COP at A2/W35	> 4,3	> 4,6
COP at A7/W35	> 5,1	> 5,1
Max. elec. power consumption	1,98	2,24
Acoustic output level	35 – 55 max. (dB)	

* Manufacturer's instructions and test conditions

Independence Packages**	1	2
Package capacity	> 750 Watt	> 1.500 Watt
PV-module quantity	3	6
Space required	4,8 m²	9,6 m²
Installation type	Roof / Front-facade / Open space	

** Packages are also available as retrofit packages for our customers

SENSOR

CC PV-COP-Booster Air / Water Heat Pump 12 kW | 18 kW



Air



Ground



Water



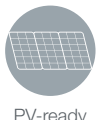
Brine



PV



Modulation



PV-ready



Cooling



The new Heliotherm **Comfort Compact PV COP Booster** heat pump Sensor Series is designed for outdoor installation and single and multi-family homes.

Enjoy the benefits of the **first worldwide solar supported heat pump!** The Air / Water heat pump **CC PV-COP-Booster** provides the heating capacity from 3 to 18 kW for highest heating and living comfort. The usability of self-generated photovoltaic electricity enables you to use the energy as efficiently and cost-effectively as possible.

This product is eligible for maximum funding aid due to its high **SCOP of greater than 4.5 (ask your local authorities for financial funding programs).**

The possible combinations of adapting the heat pump to varied buffer storage units and heat distribution systems gives you the flexibility needed for planning an ideal heating system. Also, creating the ideal heating system for yourself and your home.

Your Advantages

- ✓ **Minimal operational costs** due to highest performance COP of > 4,3 (at A2/W35 or > 5,1 at A7/W35)
- ✓ Exceptionally silent operation due to **acoustic optimized custom designed case**
- ✓ **Easy to use** and optimal heat pump operating system via Remote Control
- ✓ Energetic optimum heat pump operation in **connection to a photovoltaic system**
- ✓ Safe and virtually **maintenance-free operation** through the use of innovative scroll compressors
- ✓ **COP > 5,1** – depending on PV module performance

* Independence Package 1 = 750 Watt
** Independence Package 2 = 1.500 Watt



● **Fully modulating**

● **dsi-Technology®**

● Calorimeters

● **twin-x-Technology®**

● Scroll Compressor



web control®



Optimized
refrigerant cycle



dsi-Technology®

Basic Comfort	Unit	HP08L-M-BC	HP12L-M-BC	HP20L-M-BC
Heating capacity at A7/W35 (10%)	kW	4,8	7,3	11,6
COP at A7/W35		5,3	5,3	5,2
Heating capacity at A2/W35 (30%)	kW	6,0	9,5	15,5
COP at A2/W35		4,3	4,2	4,2
Heating capacity at A-7/W35 (50%)	kW	8,3	12,2	18,5
COP at A-7/W35		3,3	3,3	3,1
Max. outlet heating temperature	°C	62	62	62
Dimensions (H x W x D)	cm	170 x 60 x 67	170 x 60 x 67	170 x 60 x 67
Weight	kg	175	180	185

Option reversible cooling	Unit	REV08	REV12	REV18
Cooling capacity at A35/W18	kW	10,3	12,2	18,2
EER at A35/W18		4,2	4,4	4,2
Cooling capacity at A35/W7	kW	10,0	12,3	18,1
EER at A35/W7		3,8	3,7	3,9
SEER A35/W18 (EN 14825)		6,3	5,9	6,2

Basic Comfort Air Source Heat Pump - Split Design Modulating | 8 | 12 | 20 kW



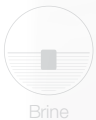
Air



Ground



Water



Brine



PV



Modulating



PV-ready



Cooling

A+++
ENERGY

The **Heliotherm Basic Comfort Air / Water** heat pump Split Design adapts automatically to the building's heating requirements and ensures maximum heating and living comfort for the single or multi-family home. The attractively priced Basic Comfort Split achieves a solid base for efficient and **environmentally friendly** heating, domestic hot water and cooling (optional).

The accessible use of **self-generated electricity** from a **photovoltaic system**, allows you to use the energy as efficiently and cost effective as possible. The **possible combinations** of adapting the heat pump to varied buffer storage units and heat distribution systems allow the **flexibility** needed for planning an ideal heating system. **Active cooling** is an additional reversible operation in the Sensor Comfort Split heat pump that provides for pleasant room climate temperatures during the summer season.

*** COP (Coefficient Of Performance)**

The COP is a measure of the amount of power input to a system compared to the amount of power output by that system = The present coefficient of performance (COP) of a heat pump is the heat output ratio to the drive performance.

The advantages

- ✓ High efficiency through innovative **modulation technology**
- ✓ **Compatible** with modern **building management** systems
- ✓ Connection-ready to a PV system
→ **the own use of electricity**
- ✓ Integrated **high efficiency pump A+**
- ✓ Safe and **almost maintenance-free** operation is obtained through the scroll compressor's innovative technology
- ✓ **Continuous monitoring**
→ automatic optimizing of refrigerant cycle (**RPM**)
- ✓ Including **flexible connecting tubes**





- **Full modulation**
- **dsi-Technology®**
- **twin-x-Technologie®**
- Scroll compressor



Web Control heat pump	Unit	HP08L-M-WEB	HP12L-M-WEB	HP20L-M-WEB
Heat capacity at A7/W35	kW	4,8	7,3	11,6
COP at A7/W35		5,3	5,3	5,2
Heat capacity at A2/W35	kW	6,0	9,5	15,5
COP at A2/W35		4,3	4,2	4,2
Heat capacity at A-7/W35	kW	8,3	12,2	18,8
COP at A-7/W35		3,3	3,3	3,2
Max. outlet heating temperature	°C	62	62	62
Dimensions (H x W x D)	cm	142 x 55 x 63	142 x 55 x 63	142 x 55 x 63
Weight	kg	156	159	165



Web Control Air / Water Heat Pump Modulating | 8 | 12 | 20 kW



The air source heat pump - split design, is space saving and simple to install both in **renovated** and **new-built buildings**. The split system enables installation in small land property using the free and inexhaustible environmental energy for heating and cooling of your home. Heliotherm's split air source heat pump brings a fresh breeze to your operating cost budget and your indoor climate.

The Heliotherm air source heat pump is undisputed and convincing through a number of advantages: No danger of frozen heating pipes, shorter de-frost cycles, rendering economical and quiet operation with Heliotherm's modulating technology and optimised fan technology. Lower initial and installation costs and no special installation pre-approval permits required, makes the air source - split design heat pump particularly attractive.

* COP (Coefficient Of Performance)

The COP is a measure of the amount of power input to a system compared to the amount of power output by that system = The present coefficient of performance (COP) of a heat pump is the heat output ratio to the drive performance.

The advantages

- ✓ **Highest energy efficiency** of all air heat pumps available on the market in its class
- ✓ Even at lower outside temperatures problem free heating is sustained
- ✓ **Quiet operation** through acoustic decoupling and special insulation design (TSC).
- ✓ **PV-ready**
- ✓ **Continual monitoring** - refrigerant automatic optimised (RPM)



Silent Source

Outdoor Evaporator | Standing Unit and Wall Mount

HELIO THERM

The Heat Pump



- Combined **Nature hot gas defrosting**
- **High quality** durable materials
- **Safety glass**
- Owl-Wing-Technology
- Design **Plus**
Individual surface design on request



Red



Alu natural



Wood



web control®



Optimized
refrigerant cycle



dsi-technology®

Silent Source OE Standing unit	Unit	HPS60	HPS80	HPS120
Acoustic output acc. EN 12102	dB(A)	40	40	46
Application range	°C	-25 to +45		
Design type		Fin evaporator		
Dimensions (H x W x D)	cm	97 x 99 x 84	126 x 102 x 96	151 x 105 x 114
Weight	kg	120	130	180

AV Silent Source W Wandmontage	Einheit	HPS60-W	HPS80-W
Acoustic output acc. EN 12102	dB(A)	40	40
Application range	°C	-25 to +45	
Design type		Fin evaporator	
Dimensions (H x W x D)	cm	109 x 89 x 59	120 x 104 x 62
Weight	kg	90	128

SENSOR



BBA
CERTIFICATE BBA 0136

HELIO THERM
The Heat Pump

Silent Source Outdoor Evaporator | Standing Unit and Wall Mount



Air



Ground



Water



Brine



PV



Modulation



PV-ready



A+++
ENERGY

The Heliotherm **Silent Source outdoor air evaporator** is installed outdoors and is certainly the most efficient and exceptionally **quietest** in its class.

Whether the building is to be refurbished or is a new construction, the outdoor air evaporator is significantly **compact** and easy to install.

Also, on small plots of land it enables the use of **free, inexhaustible environmental energy** for heating and cooling of your home.



reddot award 2016
winner

The Advantages

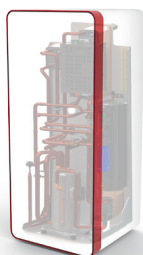
- ✓ Significant **low noise emission**
- ✓ Specially designed **axial fan blades**
-> **full modulating**
- ✓ **Large area** evaporator
- ✓ The air inlet and outlet openings correspond to the **safety guideline regulations** for **children's playgrounds**
- ✓ Engineered case design keeps the air flow **aerodynamically optimized** and **soundproof**
- ✓ **High-quality** durable materials, tempered glass, anodized aluminium
- ✓ **Trendsetting** innovative design

Solid Split

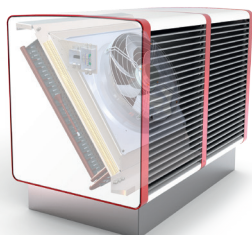
Air / Water Heat Pump Modulating | 30 | 40 | 55 kW

HELIO THERM

The Heat Pump



- Frequency inverter
- High quality** durable materials
- Fully Modulating**



- High quality** durable materials
- Safety glass**
- Owl wing technology



web control®



Optimized
refrigerant cycle



dsi-Technology®

Sensor Solid Split	Unit	S30L-M-Solid	S40L-M-Solid	S55L-M-Solid
Heating capacity at A2/W35	kW	30,3	43,6	60,5
COP A2/W35		4,3	4,4	4,3
Heating capacity at A-10/W35	kW	27,7	38,6	55,3
SCOP		5,2	5,0	5,2
Max. outlet heating temperature	°C	62	62	62
Dimensions (H x W x D)	cm	160 x 69 x 72	160 x 69 x 72	170 x 91 x 120
Acoustic output	dB(A)	48	50	51
Weight	kg	210	350	380

Cooling Capacity at A35/W18	kW	28,0	46,0	56,9
EER A35/W18		4,2	4,2	4,2
Cooling capacity at A35/W7	kW	28,2	43,7	56,4
EER A35/W7		4,1	4,0	4,1
SEER A35/W18 (EN 14825)		6,5	6,2	6,5

Performance data according to EN 14825 Climate zone medium

Solid Split Air / Water Heat Pump Modulating | 30 | 40 | 55 kW



Air



Ground



Water



Brine



PV



Modulating



PV-ready



Cooling



A+++
ENERGY

The **Heliotherm Sensor Solid** Air / Water heat pump Split Design adapts automatically to the building's heating requirements. This heat pump is also ideal for modern refurbishing projects.

The **Air / Water heat pump** Sensor Solid Split Design achieves high heating demands due to its up to 55 kW capacity. An ideal solution for spacious residential buildings, hotels and commercial buildings. Through a max. outlet heating temperature of up to 62 °C as well as possible combinations with existing heat recovery systems, the Sensor Solid Split is particularly suitable for renovation projects.

The building's greater or lesser heating demand is detected by the ambient temperature. The innovative modulation technology adjusts the heat pump to the required heat output. Therefore, resulting in higher efficiency and substantial CO₂ savings at minimal energy costs..

* **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.

The advantages

- ✓ Performance range from 30 to 55 kW for optimum energy supply in buildings with **higher heating demand**
- ✓ **Maximum efficiency** through fully automatic adjusted heating -> also in partial load operation
- ✓ Safe and virtually **maintenance-free operation** is obtained through the scroll compressor's innovative technology
- ✓ **Quiet** and low vibration during operation due to **optimized acoustic case design**
- ✓ User-friendly & **innovative regulator Remote Control** for weather data based operation





- **Full modulation**
- **dsi-Technology®**
- **twin-x-Technology®**
- Scroll compressor
- Calori meter



Web Control

Brine / Water HP Modulating | **8 | 12 | 20 kW**

Web Control heat pump	Unit	HP08S10W-M-WEB	HP12S16W-M-WEB	HP20S25W-M-WEB
Heating capacity at B0/W35	kW	3 - 8,5	4 - 12,1	5 - 20,1
COP at B0/W35		5,0	5,1	4,9
SCOP (EN14825) Climate zone medium		5,2	5,3	5,6
Max. outlet heating temperature	°C	65	65	65
Acoustic output	dB(A)	47	47	50
Dimensions (H x W x D)	cm	142 x 55 x 63	142 x 55 x 63	142 x 55 x 63
Weight	kg	155	160	175



Web Control

Water / Water HP Modulating | **10 | 16 | 25 kW**

Web Control heat pump	Unit	HP08S10W-M-WEB	HP12S16W-M-WEB	HP20S25W-M-WEB
Heating capacity at W10/W35	kW	10,0	16,2	25,2
COP at W10/W35		6,6	6,8	6,7
SCOP (EN14825) Climate zone medium		6,8	7,1	7,3
Max. outlet heating temperature	°C	65	65	65
Acoustic output	dB(A)	51	52	53
Dimensions (H x W x D)	cm	142 x 55 x 63	142 x 55 x 63	142 x 55 x 63
Weight	kg	155	160	175



HELIO THERM
The Heat Pump

Web Control Heat Pump - Water / Water and Brine / Water Modulating



Air



Ground



Water



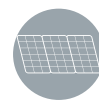
Brine



PV



Modulation



PV-ready

A+++
ENERGIE

The modulating Heliotherm **Groundwater and Brine** heat pumps perform in excellence reaching the highest test-rig values of all tested heat pumps in their class.

The **fully modulating** Web Control heat pump system is ideal for **refurbishment** or **new construction** project sites. Simple installation also optimal for smaller plots of land, where this system efficiently uses the free and inexhaustible environmental energy for heating your home. Heliotherm brings **efficiency** into your home providing a pleasant home living climate.

Modulation Technology

The required energy **automatically adapts** to the ambient conditions: At higher outdoor temperatures, the heating requirement drops. - The heat pump adjusts automatically **reducing** the performance and thus the **energy demand**.

As much as necessary, yet as little as possible!

Your Advantages

- ✓ **Connection-ready to a PV system**
-> the own use of electricity
- ✓ **SCOP > 7,3 or 5,6** possible
-> Maximum subsidies
- ✓ **Continual Monitoring**
-> refrigerant automatic optimised (**RPM**)
- ✓ **Quiet operation** through acoustic decoupling and special insulation design (TSC)
- ✓ High efficiency through innovative **modulation technology**



Basic Comfort

DX / Water HP Modulating | 8 | 12 | 20 kW

HELIO THERM

The Heat Pump



- **dsi-Technology®**
- Calori meter
- **twin-x-Technology®**
- Scroll compressor
- Includes **flexible connections**
- **Fully modulating**



web control®



Optimized
refrigerant cycle



dsi-Technology®

Basic Comfort HP	Unit	HP08E-M-BC	HP12E-M-BC	HP20E-M-BC
Heating capacity at E4/W35	kW	8,1	12,1	20,1
COP at E4/W35		5,7	5,6	5,5
SCOP (EN14825)		5,8	5,9	6,2
Max. outlet heating temp.	°C	65	65	65
Acoustic output	dB(A)	42	43	43
Dimensions (H x W x D)	cm	170 x 60 x 67	170 x 60 x 67	170 x 60 x 67
Weight	kg	175	180	185
Evaporator circuits	pcs.	8	11	18

Option reversible cooling	Unit			
Cooling capacity at E15/W18	kW	8,2	12,2	20,3
EER at E15/W18		7,8	7,4	7,4
Cooling capacity at E15/W7	kW	8,1	12,1	20,3
EER at E15/W7		6,4	6,8	6,1
SEER E15/W7 (EN 14825)		6,9	6,7	6,9

Performance data acc. to EN 14511 Δ5 K



Basic Comfort DX / Water Heat Pump Modulating | 8 | 12 | 20 kW



Air



Ground



Water



Brine



PV



Modulation



PV-ready



Cooling

A+++
ENERGY

The **Heliotherm Basic Comfort DX / Water** heat pump Design adapts automatically to the building's heating requirements and ensures maximum heating and living comfort for the single or multi-family home. The attractively priced Basic Comfort achieves a solid base for efficient and **environmentally friendly** heating, domestic hot water and cooling (optional).

The accessible use **of self-generated electricity** from a **photovoltaic system**, allows you to use the energy as efficiently and cost effective as possible. The **possible combinations** of adapting the heat pump to varied buffer storage units and heat distribution systems gives you the **flexibility** needed for planning an ideal heating system.

An additional reversible operation in the Sensor Comfort provides in the summer season for a pleasant room climate through **active cooling**.

The advantages

- ✓ **Higher efficiency** through innovative **modulation technology**
- ✓ Ideal for heating modernization - **simple installation**
- ✓ The **compact design** requires a small space footprint in the heating room
- ✓ Integrated **high efficiency pump A+**
- ✓ Safe and virtually **maintenance-free operation** is obtained through the scroll compressor's innovative technology



* **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.

Sensor Solid M

Brine / Water HP Modulating | 30 | 60 | 100 kW



Sensor Solid M Brine	Unit	30S40W-M-Solid	60S80W-M-Solid	100S120W-M-Solid
Heating performance data				
acc. to EN 14825 (climate zone: colder)				
Nominal heating capacity (B0/W35)	kW	30,1	58,5	91,9
Cooling capacity	kW	24,3	45,3	73,3
Power consumption	kW	5,9	12,3	18,6
COP (B0/W35)		5,2	4,8	4,9
SCOP		5,6	5,9	6,4
Outlet heating temperature	°C	62	62	62
Dimensions (H x W x D)	cm	72 x 69 x 161	121 x 92 x 170	121 x 92 x 170

Performance data for cooling 100%	Unit	30S40W-M-Solid	60S80W-M-Solid	100S120W-M-Solid
Cooling capacity B10/W18	kW	29,8	59,2	105,5
EER B10/W18		9,3	8,1	7,7
Cooling capacity B10/W7	kW	30,3	60,9	100,5
EER B10/W7		7,4	6,3	6,6
Weight	kg	220	520	630

Solid

Water / Water HP Modulating | 40 | 80 | 120 kW



Sensor Solid M Water	Unit	30S40W-M-Solid	60S80W-M-Solid	100S120W-M-Solid
Heating performance data				
acc. to EN 14825 (climate zone: colder)				
Nominal heating capacity (W10/W35)	kW	39,8	79,5	120,5
Cooling capacity	kW	34,2	66,5	101,0
Power consumption	kW	5,8	13,0	19,5
COP (W10/W35)		6,9	6,1	6,2
SCOP		8,4	8,0	8,5
Outlet heating temperature	°C	62	62	62
Dimensions (H x W x D)	cm	72 x 69 x 161	121 x 92 x 170	121 x 92 x 170

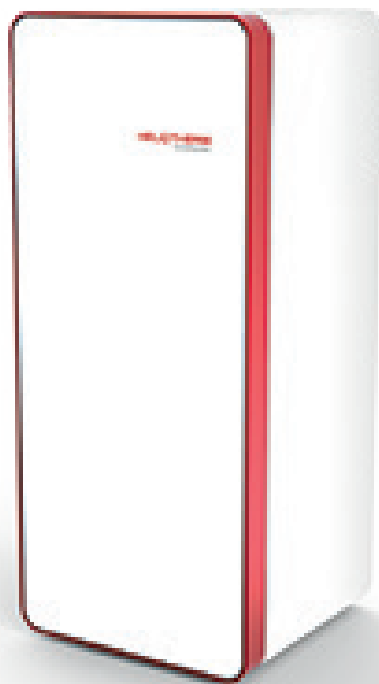
Performance data for cooling 100%	Unit	30S40W-M-Solid	60S80W-M-Solid	100S120W-M-Solid
Cooling capacity W10/W18	kW	29,8	59,2	105,5
EER W10/W18		9,3	8,1	7,7
Cooling capacity W10/W7	kW	30,3	60,9	100,5
EER W10/W7		7,4	6,3	6,6
Weight	kg	220	520	630



HELIO THERM
The Heat Pump

SENSOR

Sensor Solid M Modulating Water / Water & Brine / Water Heat Pump 30 - 120 kW



A+++
ENERGIE

The comfortable **Sensor Solid M Series large heat pump** adjusts automatically to the building's heating requirements, assuring efficient operation and cost-effective savings.

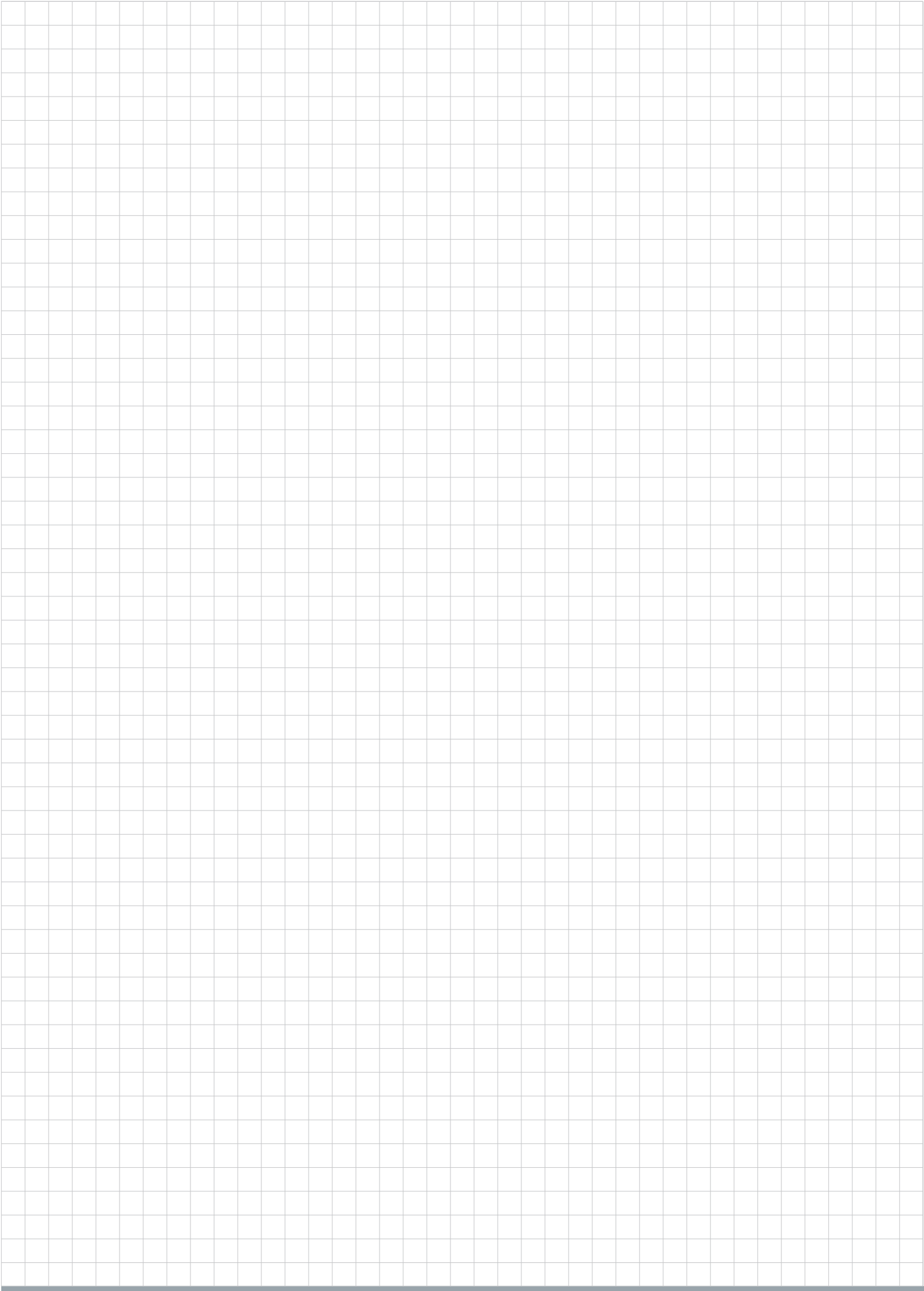
The **Brine / Water & Water / Water heat pump** Sensor Solid M Compact Design achieves high heating demands due to its up to 100 kW capacity. An ideal solution for spacious residential buildings, hotels and commercial buildings.

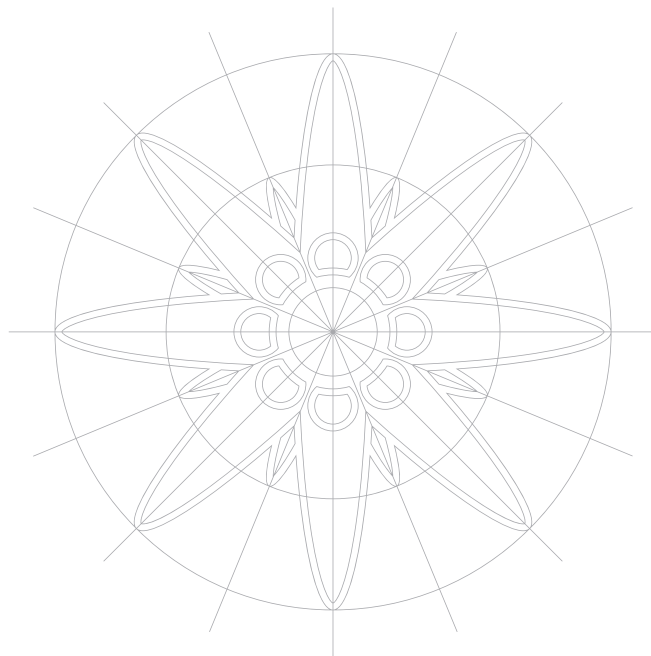
The building's greater or lesser heating demand is detected by the ambient temperature. The innovative modulation technology adjusts the heat pump to the required heat output. Therefore, resulting in higher efficiency and substantial CO₂ savings at minimal energy costs.

* **SCOP** (Seasonal Coefficient Of Performance)
= Determining the seasonal performance factor is an important factor for assessing the efficiency of a heat pump. It gives the relation between annual (seasonal) heat amount for space heating and domestic hot water heating in kWh form and the required electric driving energy in kWh.

Your Advantages

- ✓ **Performance range** from 30 to 120 kW for optimum energy supply in buildings with higher heating demand
- ✓ Safe and virtually **maintenance-free operation** is obtained through the scroll compressor's innovative technology
- ✓ **Maximum efficiency** through fully automatic adjusted heating > also in partial load operation
- ✓ **Quiet** and low vibration during operation due **optimized acoustic case** design
- ✓ User friendly and **innovative regulator**
Remote Control for weather data based operation







www.heliotherm.com

