

...change  
is in the air

AIR TO WATER  
HEAT PUMPS  
CATALOGUE  
2025

 **SINCLAIR**  
HEAT PUMPS





quality enhances  
partnership

# Sinclair Global Group

## ABOUT THE SINCLAIR BRAND

The SINCLAIR brand has a long tradition in the heating technology market and is continuously gaining popularity and trust.

We are a professional company, behind which stands a strong team. We have partners in many countries and we are constantly developing our cooperation. The building blocks of the SINCLAIR Global Group are based on long-term partnerships and quality and competitive products.

We regularly organize technical training sessions to ensure that all our partners are well-informed about our products and have the latest updates on our offerings.

We can find a comfortable solution for any climatic conditions. Both Ontario and Yukon series heat pumps have received Keymark certification.

## OUR VISION AND MISSION

Protecting the environment is becoming a fundamental issue for humanity and future generations. For SINCLAIR Global Group, environmental protection is also a key concern.

We strive to apply and develop the latest technologies, that will help to implement new products with higher energy efficiency and which will have a minimal burden on the environment. SINCLAIR products meet the strict standards of the European Union and in many cases even surpass them. SINCLAIR believes in stable, long-term and healthy development, backed by hard work and a strong code of ethics. The long-term success of any brand depends on satisfied customers.

Customers are satisfied when they receive high-quality, reliable, and technically advanced products at a fair price with modern design.

The screenshot shows the Sinclair website interface. At the top, there is a navigation bar with the Sinclair logo and menu items: HOME, PRODUCTS, NEWS, PROJECTS, ARCHIVE, INFORMATION, DOWNLOAD, CONTACTS. Below the navigation bar is a search bar and social media icons. The main content area features a large banner for 'S-THERM YUKON MONOBLOCK UNITS' with a 'PRODUCT QUESTION' and 'CONTACT US' button. Below the banner is a sidebar with a list of product categories, including 'Heat Pumps' and 'S-THERM YUKON MONOBLOCK UNITS'. The main product page for 'SMHM-100B/3' is displayed, featuring a product image, a list of features, a Keymark Certification badge, and a 'Question about the Product' button. At the bottom, there is a 'SPECIFICATIONS' table.

	HEATING	Cooling	
Capacity	10.0	9.9	kW
Power Input	2.02	2.18	kW

## WWW.SINCLAIR-SOLUTIONS.COM

This website is dedicated to all of those, who want to learn about SINCLAIR heating technology. Login to B2B section will be available to business partners, where they will find necessary documentation.

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# Why Sinclair heat pump?

**A heat pump is a long-term investment for you. Our equipment is the best solution for you in terms of price, quality and performance.**

## **NEW BUILDING, RECONSTRUCTION OF AN OLDER HOUSE OR LARGE BUILDING. WE HAVE FOR YOU THE RIGHT SOLUTION**

Now is the perfect time to get a Sinclair heat pump. The units are intelligently controlled, efficient and long-lasting. Currently, people are more and more focused on the costs associated with heating their homes. At the same time, they want to be environmentally friendly. We care about our planet.

We care about the climate in which our children and future generations will grow up. For this reason, we use the new R290 refrigerant alongside a standard R32 refrigerant. Both are highly energy-efficient and eco-friendly.

You will no longer have to stock up on coal or wood in the summer for the winter. The daily work of refilling boilers will no longer bother you. You will also appreciate the tidiness and cleanliness. Use your time wisely."

## **FROM 1 KW OF ELECTRICAL ENERGY UP TO 5,2 KW OF HEAT**

SINCLAIR heat pump technology reduces energy consumption and CO<sub>2</sub> emissions.

We use the most advanced DC INVERTER technology, thanks to which a high efficiency of heat pumps is achieved. You get up to 5.2 kW of heat from 1 kW of electricity (with unit MSH-80EB).

## **KEYMARK CERTIFICATION**

Sinclair heat pumps are Keymark certified. The KEYMARK is a voluntary European product quality mark, that demonstrates compliance with European standards. It is owned by the European standards organisations CEN and CENELEC.

It complements the CE marking and thus strengthens consumer confidence throughout the Europe and ensures easier access to the European market.

**S-THERM**





# Intelligent heating with Loxone



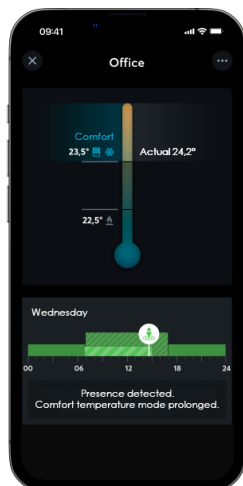
works with  
**Loxone**

## LOXONE

Not many people like going around the house or an entire building and worrying about controlling thermostats, heat sources, and air conditioners. Let alone the boxes on the walls or piles of remotes? The constant checking of consumption, the perpetual adjustments of temperature during the day and night, and repeated trips to the basement where the controls are located.

Or there's LOXONE. Set a schedule that will maintain the temperature. Then the heat pump (and possibly the air conditioners, shading, lights, and more) works according to the plan, as it should, and the temperature is spot on. And when it's not needed, no energy is wasted. The more controls, the more trouble. LOXONE takes the controls and takes the worry. Unlike you, the LOXONE has time to control the heating and cooling at any time using advanced algorithms. At the same time, thanks to the app, you can take control at any time and make changes.

Lear more on  
[www.loxone.com](http://www.loxone.com)



## CONTROL IN YOUR POCKET

No more repeated trips to the basement to get the remote and figure out how to operate it. Everything can be easily controlled at any time, anywhere in a clear visual interface.

## SCHEDULING AND AUTOMATION

Simply set the days, hours, and temperatures for each zone. That's all you need to worry about. The system also adjusts based on your presence. It gradually learns to heat at the capacity required.

## GROUP CONTROL

One unit, a whole house, multiple rooms, or even an entire shopping mall? It's all under your thumb at the click of a button.

## ACCESS RIGHTS

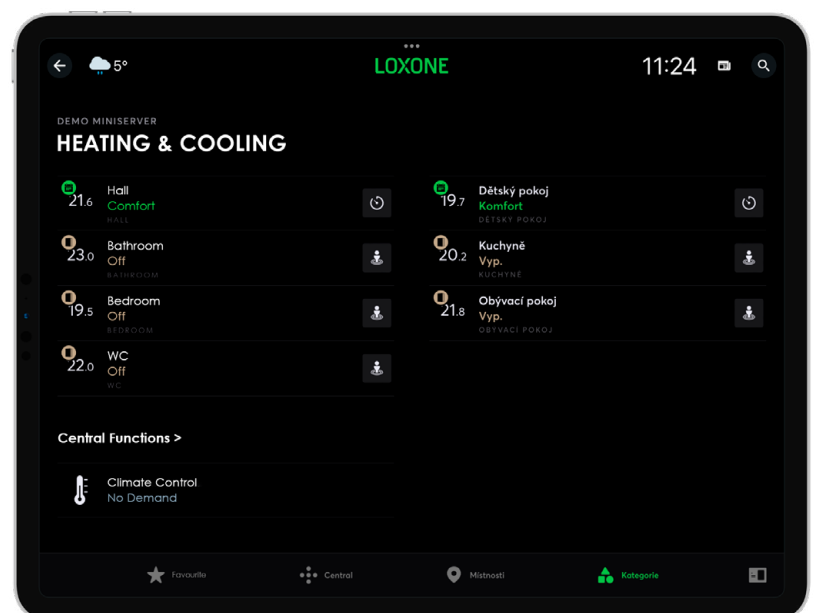
You can easily manage who is authorized to change settings at any time.

## NOTIFICATIONS

Is something unusual going on? Is regular maintenance required? The responsible person knows about it immediately!

## COOPERATION WITH OTHER EQUIPMENT

It doesn't stop at the heat pump. With Loxone you can control everything in the building from air conditioning to lights and create any kind of automation. For example, an open window deactivates cooling.



# Remote service control for S-therm heat pumps S-Therm SR-100

**Remote analysis of historical data on operation of the unit and optimization of its parameters**

**Reduce service trip costs by resolving issues through the online system**

**Support of installation companies for convenient installation process using built-in installation assistant in mobile app**

**Reduce installation time and elimination of errors by installation protocol**



## **MODULE FOR REMOTE MULTILEVEL SERVICE AND USER CONTROL S-THERM REMOTE**

- Simple system with intuitive interface
- Real-time preview and easy alarm analysis
- A convenient overview of alarms and alerts from all devices across all your installations in real time.
- Installation record for service technicians and installers
- Manage multiple systems from one location
- Remote error correction of heat pump settings
- Remote adjustment of installation parameters
- Different levels of access: administrator, manufacturer, service technician, installer and user



SR-100





# New S-Therm Yukon premium heat pump series



**S-THERM YUKON heat pumps are inspired by the untamed nature of the Yukon Territory in northwestern Canada. They are characterized by majestic performance, high efficiency, reliability, low operating noise and in all aspects they meet the high demands of sustainable development and the ecology of our world.**

## WE TURN AIR INTO ENERGY

Global uncertainty of gas availability, irregular energy price turbulence, increasingly rising costs of heating are triggering massive global demand for heat pumps, which so far exceeds the production possibilities of the supplying companies.

## NEW TEMPERATURE RANGE OF HEAT PUMPS

In winter, temperatures in northern Canada drop far below freezing. Heat pumps S-THERM YUKON have operating conditions set down to -25 °C.

In addition to heating, our heat pumps also ensure the production of a sufficient amount of hot water. This guarantees, even in the cold winter, that the heat pumps will provide for your needs and you will always feel comfortable.

## NEW POWER SERIES OF HEAT PUMPS

The YUKON series offers double the performance of the S-THERM Ontario series. We now offer max. 30 kW monobloc heat pumps. These units can then be connected to larger cascades.

Up to 6 units can be connected in this way, to achieve up to 180 kW. The YUKON heat pumps are the ideal heat source for large homes and small commercial premises.

For large commercial buildings, we offer high capacity units with outputs from 65 kW up to 140 kW.

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## MAIN FEATURES

### NEW DESIGN WITH SMALLER DIMENSIONS

YUKON series hydroboxes are among the smallest on the market. With a depth of only 270 millimeters, the overall size reduction is 29% (compared to the Ontario Series hydrobox).

Thanks to these dimensions, the S-therm Yukon hydrobox can easily replace your gas boiler.

Outdoor units up to 16 kW have only one fan. The improved fan turbine design reduces airflow resistance and noise levels.

### HIGH EFFICIENCY OF HEAT PUMPS

The air, water, and ground around us contain vast amounts of energy, even during winter months. Heat pumps S-THERM YUKON use 75% of energy provided by the outdoor environment.

The remaining 25% is made up of electricity. This efficiency significantly reduces the emissions and pollutants, that are released into the atmosphere. Newest technology and advanced control logic have created one of the most economical and efficient heat pumps on the European and global market.

S-THERM YUKON heat pumps are controlled by an inverter compressor, which ensures precise operation and high performance.

### QUIET OPERATION

With S-THERM YUKON heat pumps, you can provide heating, hot water heating and cooling, not only efficiently and economically, but also quietly.

For example, with the 6 kW YUKON heat pump, the sound pressure level at 1 meter is only 44 dB(A). In comparison, we present a noise level of 50 dB(A) - this noise level can be imagined as drops of light rain falling.

The most powerful machines, which have a heating capacity of 30 kW, have a noise level at 1 metre of 66 dB(A), which is equivalent to the volume of a normal telephone call.

### ENVIRONMENTALLY FRIENDLY REFRIGERANTS

In our S-THERM YUKON heat pumps, we use R32 and R290 refrigerants. This R32 refrigerant has a better heat capacity and systems can use up to 20% less of it, than with its R410a predecessor and R290 refrigerant allows our heat pumps to supply much higher water temperatures.

Due to its low GWP potential, the refrigerant has R32 68% less impact on global warming of the earth than the previous refrigerant R410a and is cheaper to run. With the new refrigerant R290, we have even better results. R290 refrigerant is 99,9% more eco friendly, than the old R410a refrigerant.



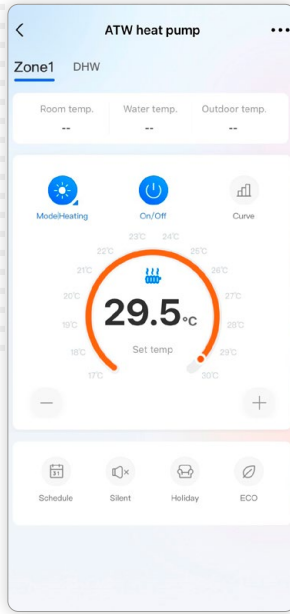




# REMOTE CONTROL

## REMOTE CONTROL VIA MOBILE APP

S-therm Yukon heat pumps include a built-in wifi module, that allows them to be controlled remotely via the Comfort home app or iLetComfort app. The control is simple and provides information about the heat pump's operation.



iLetComfort mobile app



## CONTROLLER

S-therm Yukon heat pumps are controlled by a wired controller located inside the building. Multiple languages are available with a simple interface.

## MODES

- Heating and cooling
- DHW heating
- Cooling + DHW heating
- Heating + DHW heating
- Safe mode
- Silent mode (2 levels)
- Fast hot water
- Holiday mode (2 Types)
- Disinfection mode
- Equithermal mode



Controller for units with R32 refrigerant



Controller for R290 refrigerant units

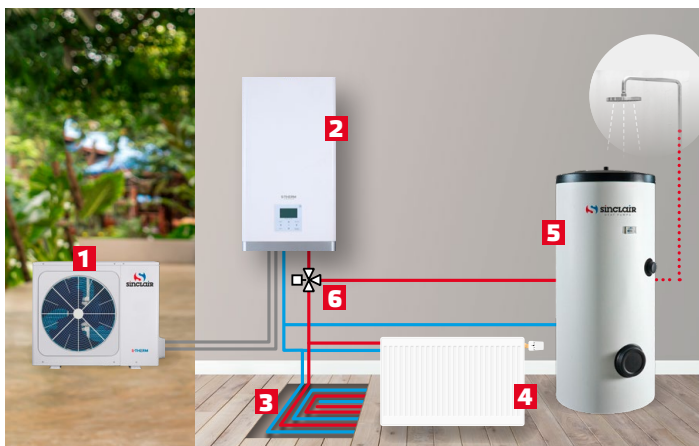




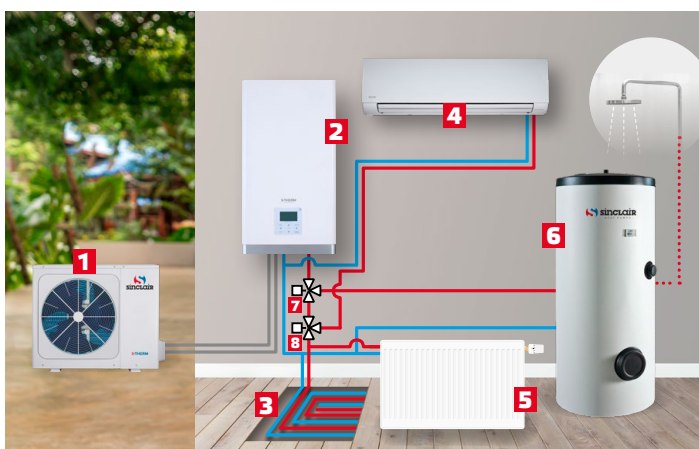
## EXAMPLES OF CONNECTION FOR HEATING SYSTEM WITH HYDROBOX



- 1 Outdoor unit
- 2 Hydrobox (indoor unit)
- 3 Floor heating
- 4 Domestic hot water storage tank
- 5 Three-way valve for heating/DHW- optional



- 1 Outdoor unit
- 2 Hydrobox (indoor unit)
- 3 Floor heating
- 4 Radiator
- 5 Domestic hot water storage tank
- 6 Three-way valve for heating/DHW- optional



- 1 Outdoor unit
- 2 Hydrobox (indoor unit)
- 3 Floor heating
- 4 Fan Coil
- 5 Radiator
- 6 Domestic hot water storage tank
- 7 Three-way valve for heating/DHW- optional
- 8 Three-way valve for heating/Cooling- optional

These diagrams are not a substitute for technical connection diagrams.



comfortable world  
Sinclair



## INDOOR UNITS

## HYDROBOX

The YUKON Hydrobox is available in three versions with an integrated backup electric heater. It allows heating in floor systems, radiators or fan coils.

THANKS TO THE OPTIONAL THREE-WAY VALVE, THE YEAR-ROUND OPERATION IN HEATING OF HOT DOMESTIC WATER MODE IS POSSIBLE. IN SUMMER, COOLING DOWN TO 5 °C IS AVAILABLE.



**Unit works efficiently in temperatures down to -25 °C. In heating mode, in indoor unit, thermal energy of the refrigerant is transferred to the water via plate heat exchanger. This warm water is then supplied to the radiators, underfloor heating and hot domestic water storage tank.**

The devices are available in both single-phase and three-phase versions (units with -3 terminals).

The indoor unit contains a powerful plate heat exchanger, which is characterized by high corrosion resistance, compact dimensions and high efficiency.

The expansion tank inside the hydrobox has a capacity of 8 litres. The standard pressure inside the vessel is 1,0 bar. This ensures reliable operation of the equipment and stable system pressure.

The energy-efficient and powerful circulation pump ensures a smooth water flow in the system.

For larger heating systems, size of an expansion vessels must be consulted with the designer.

The split version is suitable, if space in the room is limited and there is no need for heating hot domestic water. If a buffer tank or hot water tank is required, these components are installed separately.

Connection to domestic hot water, underfloor heating, fancoil units, buffer tanks, solar panels, gas boilers, etc.

The Hydrobox includes a circulating inverter pump and plate heat exchanger.

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# INDOOR UNITS HYDROBOX

## FEATURES

- Internet control via the iLetComfort app
- High efficiency
- Circulation pump with self-adjusting speed control
- Integrated expansion tank and safety valve
- Equitherm control, control by reference room temperature or thermostat
- Possibility of cooling in convector units
- Preparation of domestic hot water
- Option to connect a three-way valve (not included)



POSSIBLE COMBINATIONS	
INDOOR	OUTDOOR
MSH-60IB/3	MSH-60EB
MSH-100IB/3	MSH-80EB
MSH-100IB/3	MSH-100EB
MSH-100IB-3/9	MSH-80EB
MSH-100IB-3/9	MSH-100EB
MSH-160IB/3	MSH-120EB
MSH-160IB/3	MSH-140EB
MSH-160IB/3	MSH-160EB
MSH-160IB-3/9	MSH-120EB-3
MSH-160IB-3/9	MSH-140EB-3
MSH-160IB-3/9	MSH-160EB-3



Model MSH-			60IB/3	100IB/3 100IB-3/9	160IB/3 160IB-3/9
Power supply		V / Ph / Hz	220-240 / 1 / 50		
Connecting pipe (refrigerant)	Gas	inch / mm	5/8" / 16,0		
	Liquid		1/4" / 6,0	3/8" / 9,5	
Connecting pipe (water)	Inlet	inch	1"		
	Outlet				
Safety valve		bar	3		
Leaving water temperature	Cooling	°C	5 - 25		
	Heating		25 - 65		
Main components	Water pump	Type	-		
		Speed	Inverter		
		Max. power	Automatic		
	Expansion vessel	Volume	90		
		Max. pressure	8		
		Pressure	3		
	Auxiliary electric heater	Mode	Automatic		
		Capacity	1		9
		Combination	3		3+3+3
		Power supply	V / Ph / Hz	220-240 / 1 / 50	
Exchanger	Type	-			
	Amount	Plate			
Level of acoustic pressure in 1m		dB (A)	28	30	32
Dimensions	Outline (w x h x d)	420 x 790 x 270			
	Packaged (w x h x d)	mm 525 x 1050 x 360			
Weight	Netto	kg	37		39
	Brutto	kg	43		45



## OUTDOOR UNITS

### FEATURES

- We offer you outdoor units in a single-propeller version in capacity of 6, 8, 10, 12, 14, 16 kW in single-phase and three-phase versions (units with suffix -3)
- Outdoor units of compact dimensions facilitating problem-free installations and also transportation
- The device uses environmentally friendly refrigerant R32 with low GWP value
- Compressor with intermediate stage injection of refrigerant, thanks to which high efficiency and energy saving are achieved
- Motor control technology by semiconductor frequency converter
- The units are equipped with an inverter control that changes the speed of the compressor. The delivered power of the units is precisely adapted to the heating system
- Energy savings of up to 40%, with minimized temperature fluctuations.
- Between the outdoor unit and the indoor unit, the pipe length can be up to 30 meters. Elevation up to 20 meters



Model MSH-			60EB	80EB	100EB	120EB / 120EB-3	140EB / 140EB-3	160EB / 160EB-3	
Suitable for building heat loss		kW	6 - 7	8	9 - 11	12 - 13	14	15 - 17	
Power supply		V / Ph / Hz	220-240 / 1 / 50			220-240 / 1 / 50 / 380-415 / 3 / 50			
Capacity	Heating	kW	6,2	8,3	10	12,1	14,5	16	
	Cooling	kW	6,55	8,4	10	12	13,5	14,2	
Power	Heating	kW	1,24	1,6	2,0	2,4	3,1	3,6	
	Cooling	kW	1,34	1,66	2,08	3,0	3,7	3,9	
COP	Heating	-	5	5,2	5	4,95	4,7	4,5	
EER	Cooling	-	4,9	5,05	4,8	4	3,61	3,61	
Technical parameters	Level of acoustic pressure	1m	dB (A)	45	46	49	50	51	55
	Energy class	Heating (55 °C / 35 °C)	-	A++ / A+++					
	SCOP	Heating (55 °C / 35 °C)	-	3,52 / 4,95	3,37 / 5,22	3,47 / 5,2	3,45 / 4,81	3,47 / 4,72	3,41 / 4,62
	Refrigerant	Type	-	R32					
		Amount	kg	1,5	1,65			1,84	
	Domestic hot water temperature		°C	12 - 60					
	Refrigerant pipes	Gas	inch / mm	5/8" / 16,0					
		Liquid	inch / mm	1/4" / 6,0	3/8" / 9,5				
	Unit Dimension	w x h x d	mm	1008 x 712 x 426			1118 x 865 x 523		
	Package Dimension	w x h x d	mm	1065 x 810 x 485			1190 x 970 x 560		
	Weight	Netto/Brutto	kg	58 / 63,5		75 / 89		112 / 125,5	
	Operating temperature range		°C	-25 - 43					
	Standard pipe length		m	15					
Max. pipe length		m	30						
Max. elevation		m	20						
Additional refrigeration		g/m	20		38				

CAPACITIES AND POWER INPUTS ARE BASED ON THE FOLLOWING CONDITIONS:

COOLING conditions: Indoor Water Temperature 23 °C / 18 °C. Outdoor Air Temperature 35 °C DB / 24 °C WB.

HEATING conditions: Indoor Water Temperature 30 °C / 35 °C. Outdoor Air Temperature 7 °C DB / 6 °C WB.

The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (100% HFC-32), GWP of refrigerant used: 675. Sound pressure level is tested in a soundless chamber, actual values may be affected by local conditions.



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ECOLOGICAL REFRIGERANT R32



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## INDOOR UNITS

## ALL IN ONE

The SINCLAIR ALL IN ONE heat pump belongs to a new generation of heat pumps designed for heating, cooling and heating domestic hot water.



**The ALL IN ONE design from the Yukon series offers the option of connecting DHW recirculation.**

### SAVE SPACE IN YOUR HOME

Thanks to the connection of the hydro unit and the tank, you only need a small space for this heat pump. Indoor unit ALL IN ONE includes circulatory pump and plate exchanger.

TECHNOLOGY, THAT CONNECTS TOGETHER THE INTERNAL UNIT HYDROBOX AND INTEGRATED 190 OR 240 LITRE TANK IN STAINLESS STEEL FOR DOMESTIC HOT WATER

YUKON

**S-THERM**



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# INDOOR UNIT ALL IN ONE

## FEATURES

- Internet control via the Comfort Home or iLetComfort app
- High efficiency
- Self-regulating circulation pump
- Integrated expansion tank and safety valve
- Equitherm control, room temperature reference control or thermostat control
- Silent mode
- Three-way valve included in the indoor unit
- Built-in 3 or 9 kW electric cartridge



POSSIBLE COMBINATIONS	
INDOOR	OUTDOOR
MSH-190TB/3	MSH-60EB
MSH-240TBL/3	MSH-60EB
MSH-240TBL/3	MSH-80EB
MSH-240TBL/3	MSH-100EB
MSH-240TB/3	MSH-120EB
MSH-240TB/3	MSH-140EB
MSH-240TB/3	MSH-160EB
MSH-190TB-3/9	MSH-80EB
MSH-190TB-3/9	MSH-100EB
MSH-240TB-3/9	MSH-120EB-3
MSH-240TB-3/9	MSH-140EB-3
MSH-240TB-3/9	MSH-160EB-3

Model MSH-			190TB/3	240TBL/3	240TB/3	190TB-3/9	240TB-3/9
Power supply		V / Ph / Hz	220 - 240 / 1 / 50			380 - 415 / 3 / 50	
Connecting pipe(refrigerant)	Gas	inch / mm				5/8" / 16,0	
	liquid					3/8" / 9,5	
Connecting pipe(water)	Inlet	inch				1"	
	Outlet						
Safety valve		bar				3	
Leaving water temperature	Cooling	°C				5 - 25	
	Heating	°C				25 - 65	
Main components	Water pump	Type				Inverter	
		Speed				Automatic	
		Max. power				90	
Hot water tank	Volume	l	190	240		190	240
	Expansion tank	Volume				l	
	Max.pressure	bar				3	
	Pressure	bar				1	
	Auxiliary electric heater	Mode				-	
	Capacity	kW				3	
	Combination	-				3	
Power supply		V / Ph / Hz	220 - 240 / 1 / 50			380 - 415 / 3 / 50	
Heat exchanger	Type	-				Brazen plate	
	Amount	-				1	
Level of acoustic pressure in 1m		dB (A)				29	
Dimensions	Outline (w x h x d)	mm	600 x 600 x 1683	600 x 600 x 1943		600 x 600 x 1683	600 x 600 x 1943
	Packaged (w x h x d)	mm	730 x 730 x 1920	730 x 730 x 2180		730 x 730 x 1920	730 x 730 x 2180
Weight	Weight	Netto	140	157		140	157
		Brutto	161	178		161	178

\* Noise level depends on the combination of indoor unit and outdoor unit



## OUTDOOR UNITS

### FEATURES

- We offer you outdoor units in a single-propeller version in capacity of 6, 8, 10, 12, 14, 16 kW in single-phase and three-phase versions (units with suffix -3)
- Outdoor units of compact dimensions facilitating problem-free installations and also transportation
- The device uses environmentally friendly refrigerant R32 with low GWP value
- Compressor with added economizer and intermediate stage injection of refrigerant, thanks to which high efficiency and energy saving are achieved
- Motor control technology by semiconductor frequency converter
- The units are equipped with an inverter control that changes the speed of the compressor. The delivered power of the units is precisely adapted to the heating system
- Energy savings of up to 40 % and temperature fluctuations are avoided
- Between the outdoor unit and the indoor unit, the pipe length can be up to 30 meters. Elevation up to 20 meters



Model MSH-			60EB	80EB	100EB	120EB / 120EB-3	140EB / 140EB-3	160EB / 160EB-3	
Suitable for building heat loss		kW	6 - 7	8	9 - 11	12 - 13	14	15 - 17	
Power supply		V / Ph / Hz	220-240 / 1 / 50			220-240 / 1 / 50 / 380-415 / 3 / 50			
Capacity	Heating	kW	6,2	8,3	10	12,1	14,5	16	
	Cooling	kW	6,55	8,4	10	12	13,5	14,2	
Power	Heating	kW	1,24	1,6	2,0	2,4	3,1	3,6	
	Cooling	kW	1,34	1,66	2,08	3,0	3,7	3,9	
COP		-	5	5,2	5	4,95	4,7	4,5	
EER		-	4,9	5,05	4,8	4	3,61	3,61	
Technical parameters	Level of acoustic pressure	1m	dB (A)	45	46	49	50	51	55
	Energy class	Heating (55 °C / 35 °C)	-	A++ / A+++					
	SCOP	Heating (55 °C / 35 °C)	-	3,52 / 4,95	3,37 / 5,22	3,47 / 5,2	3,45 / 4,81	3,47 / 4,72	3,41 / 4,62
	Refrigerant	Type	-	R32					
		Amount	kg	1,5	1,65		1,84		
	Domestic hot water temperature		°C	12 - 60					
	Refrigerant pipes	Gas	inch / mm	5/8" / 16,0					
		Liquid	inch / mm	1/4" / 6,0	3/8" / 9,5				
	Unit Dimension	w x h x d	mm	1008 x 712 x 426	1118 x 865 x 523				
	Package Dimension	w x h x d	mm	1065 x 810 x 485	1190 x 970 x 560				
Weight	Netto/Brutto	kg	58 / 63,5	75 / 89		112 / 125,5			
Operating temperature range		°C	-25 - 43						
Standard pipe length		m	15						
Max. pipe length		m	30						
Max. elevation		m	20						
Additional refrigeration		g/m	20	38					

CAPACITIES AND POWER INPUTS ARE BASED ON THE FOLLOWING CONDITIONS:

COOLING conditions: Indoor Water Temperature 23 °C / 18 °C. Outdoor Air Temperature 35 °C DB / 24 °C WB.

HEATING conditions: Indoor Water Temperature 30 °C / 35 °C. Outdoor Air Temperature 7 °C DB / 6 °C WB.

The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (100% HFC-32), GWP of refrigerant used: 675. Sound pressure level is tested in a soundless chamber, actual values may be affected by local conditions.



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ECOLOGICAL REFRIGERANT R32



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Sinclair

## MONOBLOC UNITS

Inverter heat pump, which consists of only one compact outdoor unit with everything you need, including hydraulic components.



**The units are available in 6, 8 and 10 kW (1-phase), 12, 14, 16 kW (1-phase or 3-phase) and 18, 22, 26, 30 kW (3-phase)**

### ONE COMPACT UNIT, MANY FEATURES

- The system can be connected to underfloor heating, radiators or fan coils. If you add a hot water tank and a three-way valve, you can use the system to heat domestic hot water
- Environmentally friendly R32 refrigerant in combination with an inverter compressor ensures economical and environmentally friendly operation
- Hermetically sealed refrigerant circuit, minimal risk of refrigerant leakage
- Monobloc heat pump includes circulatory water pump, plate heat exchanger, expansion valve, safety valve and expansion vessel
- two-stage rotary compressor
- The unit operates reliably even at low temperatures, down to -25 °C, thanks to the intermediate refrigerant injection

IDEAL DEVICE IF YOU DON'T HAVE THE OPTION OF INSTALLING INDOOR UNIT. SIMPLY CONNECT THE UNIT TO THE HEATING SYSTEM AND TO ELECTRICITY. THIS MINIMISES COSTS AND THE TIME REQUIRED FOR INSTALLATION

**S-THERM**



S-THERM YUKON  
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**MONOBLOC UNITS****6-16 kW****FEATURES**

- Internet control via Comfort Home or iLetComfort app
- High efficiency
- Circulation pump with self-adjusting speed control
- Integrated expansion tank and safety valve
- Silent mode
- Outlet temperature from 25 °C to 65 °C
- Integrated electric backup heater 3 or 9 kW (according to combinations in the table)

Model SMHM-			60B/3	80B/3	100B/3	120B/3 / 120B-3/9	140B/3 / 140B-3/9	160B/3 / 160B-3/9
Suitable for building heat loss		kW	6 - 7	8	9 - 11	12 - 13	14	15 - 17
Capacity	Heating	kW	6,35	8,4	10	12,1	14,5	15,9
	Cooling	kW	6,5	8,3	9,9	12	13,5	14,2
Power	Heating	kW	1,28	1,63	2,02	2,44	3,15	3,53
	Cooling	kW	1,35	1,64	2,18	3,04	3,74	3,94
COP	Heating	-	4,95	5,15	4,95	4,95	4,6	4,5
EER	Cooling	-	4,8	5,05	4,55	3,95	3,61	3,61
Energy class	Heating (55 °C / 35 °C)	-	A++ / A+++					
SCOP	Heating (55 °C / 35 °C)	-	3,52 / 4,95	3,37 / 5,22	3,47 / 5,2	3,45 / 4,81	3,47 / 4,72	3,41 / 4,62
Power supply		V/Ph/Hz	220-240 / 1 / 50			220-240 / 1 / 50 / 380-415 / 3 / 50		
Max. power		kW	2,58	3	3,43	4,78	5,37	6,25
Max. current		A	18	19		30		
Refrigerant	Type	-	R32					
	Amount	kg	1,4			1,75		
Water pipes	Inlet	inch	5/4"					
	Outlet	inch	5/4"					
Water temperatures range	Heating	°C	25 - 65					
	Cooling	°C	5 - 25					
Main components	Water pump	Max. water flow	4,5					
		Power input	95					
	Water flow switch	Minimum flow	0,4			0,7		
	Expansion tank	Volume	8					
		Maximum pressure	3					
		Precharged pressure	1					
	Electric heater	Mode	Automatic					
		Steps	1			3		
		Capacity	3			9		
		Combination	3			3/6/9		
		Power supply	V/Ph/Hz	220-240/1/50			220-240/1/50 / 380-415/3/50	
	Heat exchanger	Possible capacities	none or 3			none or 3 / none or 9		
		Type	Plate type					
		Quantity	1					
	Safety valve	Pressure	3					
Level of acoustic pressure LpA	1 m	dB	47,5	48,5	50,5	53,5	54	58
Unit Dimension	W x D x H	mm	1295 x 718 x 429			1385 x 865 x 526		
Package Dimension	W x D x H	mm	1375 x 885 x 475			1465 x 1035 x 560		
Weight	Netto/Brutto	kg	86 / 107		105 / 132		144 / 172	
Operating temperature range	Cooling	°C	5 - 43					
	Heating	°C	-25 - 35					
	Water heating	°C	-25 - 43					

CAPACITIES AND POWER INPUTS ARE BASED ON THE FOLLOWING CONDITIONS:

COOLING conditions: Indoor Water Temperature 23 °C / 18 °C. Outdoor Air Temperature 35 °C DB / 24 °C WB.

HEATING conditions: Indoor Water Temperature 30 °C / 35 °C. Outdoor Air Temperature 7 °C DB / 6 °C WB.

The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (100% HFC-32), GWP of refrigerant used: 675. Sound pressure level is tested in a soundless chamber, actual values may be affected by local conditions.

**MONOBLOC UNITS****18-30 kW****FEATURES**

- Internet control via the Comfort Home or iLetComfort app
- High efficiency
- Circulation pump with self-adjusting speed control
- Integrated expansion tank and safety valve
- Silent mode
- Outlet temperature from 25 °C to 60 °C
- Cascade connection with a maximum output of up to 180 kW - up to 6 pumps can be connected



Model SMHM-			180B-3	220B-3	260B-3	300B-3
Suitable for building heat loss		kW	16-18	18-22	22-26	26-30
Capacity	Heating	kW	18	22	26	30,1
	Cooling	kW	18,5	23	27	31
Power	Heating	kW	3,83	5	6,37	7,69
	Cooling	kW	3,89	5	6,27	7,75
COP	Heating	-	4,7	4,4	4,08	3,91
EER	Cooling	-	4,75	4,6	4,3	4
Energy class	Heating (55 °C / 35 °C)	-	A++ / A+++			
SCOP	Heating (55 °C / 35 °C)	-	3,2 / 4,6	3,23 / 4,53	3,15 / 4,5	3,15 / 4,2
Power supply		V/Ph/Hz	380-415 / 3 / 50			
Max. power		kW	6,66	8,07	8,8	9,38
Max. current		A	28			
Refrigerant	Type	-	R32			
	Amount	kg	5			
Water pipes	Inlet	inch	1-1/4"			
	Outlet					
Water temperatures range	Heating	°C	25 - 60			
	Cooling	°C	5 - 25			
Main components	Water pump	Max. water flow	m <sup>3</sup> /h			
		Power	W			
	Water flow switch	Minimum flow	m <sup>3</sup> /h			
		Volume	l			
	Expansion tank	Maximum pressure	Bar			
		Precharged pressure	Bar			
		Mode	-			
	Electric heater	Steps	-			
		Capacity	kW			
		Combination	kW			
Power supply		V/Ph/Hz				
Heat exchanger	Type	-				
	Amount	-				
Safety valve	Pressure	bar				
	Amount	-				
Level of acoustic pressure LpA	1 m	dB	57,6	59,8	61,5	63,5
Unit Dimension	W x D x H	mm	1129 x 1558 x 528			
Package Dimension	W x D x H	mm	1220 x 1735 x 565			
Weight	Netto/Brutto	kg	177 / 206			
Operating temperature range	Cooling	°C	-5 - 46			
	Heating	°C	-25 - 35			
	Water heating	°C	-25 - 43			

CAPACITIES AND POWER INPUTS ARE BASED ON THE FOLLOWING CONDITIONS:

COOLING conditions: Indoor Water Temperature 23 °C / 18 °C. Outdoor Air Temperature 35 °C DB / 24 °C WB.

HEATING conditions: Indoor Water Temperature 30 °C / 35 °C. Outdoor Air Temperature 7 °C DB / 6 °C WB.

The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (100% HFC-32), GWP of refrigerant used: 675. Sound pressure level is tested in a soundless chamber, actual values may be affected by local conditions.



**DC INVERTER**

ECOLOGICAL REFRIGERANT **R32**



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## COMMERCIAL MONOBLOC UNITS

NEW

Inverter heat pump for commercial use with high performance and efficiency. A single device covering all your building needs.



**Units are in 3-phase design with capacities 65 kW, 75 kW, 110 kW and 140 kW.**

### UNITS WITH HIGH PERFORMANCE AND EFFICIENCY

- Option for modular connection
- Interconnection of up to 16 modules
- Environmentally friendly R32 refrigerant
- Easy master connection and slave units
- All Chillers can be controlled by a single-wired controller
- Flexible connectivity piping and installation
- You can externalize the PCB control the heat pump: ON/OFF, heating/cooling, alarm
- Economical operation
- Easy transport
- Backup function (in case of cascading connection) - If one module goes out of service, the other modules will take over and ensure uninterrupted operation
- Highly efficient DC inverter compressors
- Wide operating range range of operating and output temperatures water
- SMHM-650BH-3, SMHM-750BH-3, SMHM-1100BH-3 and SMHM-1400BH-3 have hydraulic module

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# COMMERCIAL MONOBLOC UNITS

NEW

## FEATURES

- Possibility of modular connection
- Up to 16 modules can be connected
- One wired controller can control all connected units
- On the PCB, it is possible to control remotely: on (ON) / off (OFF), heating/cooling, alarm
- High-efficiency DC inverter compressor
- Economical operation
- Higher operating temperatures and efficiency
- Option to connect a backup electric heater
- Units without hydromodule (circulation pump, expansion tank,...)



Model SMHM-			650B-3	750B-3	1100B-3	1400B-3
Capacity	Heating	kW	64	77	112	142
	Cooling	kW	76	86	128	138
Power input	Heating	kW	15,24	19,74	27,00	38,17
	Cooling	kW	20,27	23,12	33,7	36,32
COP	Heating	-	4,2	3,9	4,15	3,72
EER	Cooling	-	3,75	3,72	3,8	3,8
SCOP	Heating (55°C / 35°C)	-	4,50 / 3,40	4,50 / 3,40	4,25 / 3,25	4,25 / 3,25
Power supply			V/Ph/Hz 380-415 / 3 / 50			
Max. current			54	54	106	106
Refrigerant	Type	R32				
	Charge	kg	9		15,5	
Water pipes	Inlet	°C	DN50		DN65	
	Outlet	°C				
Water temperatures range	Heating	Heating	25-65			
	Cooling	m³/h	5-20			
Water flow switch	Min. water flow	-	3		5	
Heat exchanger	Type	Type	Braze Plate			
	Amount	bar	1			
Safety valve	Pressure	dB	6			
Sound pressure level LpA	1 m	mm	64	69	64	73
Unit dimensions	W*D*H	mm	2000X1770X960		2220×2300×1135	
Package dimensions	W*D*H	kg	2085X1890X1030		2250×2445×1180	
Weight	Net/Gross	°C	440 / 455		670 / 690	
	Operating temperature range	Cooling	Cooling	-15 - 48		
	Heating	°C	-25 - 43			
	DHW	°C	-20 - 43			

Models SMHM-650B-3, SMHM-750B-3, SMHM-1100B-3 a SMHM-1400B-3 do not include a water pump due to different project requirements. SMHM-650BH-3, SMHM-750BH-3, SMHM-1100BH-3 a SMHM-1400BH-3 include hydraulic module.

CAPACITIES AND POWER INPUTS ARE BASED ON THE FOLLOWING CONDITIONS:

COOLING conditions: Indoor Water Temperature 23 °C / 18 °C. Outdoor Air Temperature 35 °C DB / 24 °C WB.

HEATING conditions: Indoor Water Temperature 30 °C / 35 °C. Outdoor Air Temperature 7 °C DB / 6 °C WB.

The specification of products is subject to change based on the further development of the units by the producer and can be changed without prior notice. Refer to the rating label. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (100% HFC-32), GWP of refrigerant used: 675. Sound pressure level is tested in a soundless chamber, actual values may be affected by local conditions.

# COMMERCIAL MONOBLOC UNITS

NEW

## FEATURES

- Possibility of modular connection
- Up to 16 modules can be connected
- One wired controller can control all connected units
- On the PCB, it is possible to control remotely: on (ON) / off (OFF), heating/cooling, alarm
- High-efficiency DC inverter compressor
- Economical operation
- Higher operating temperatures and efficiency
- Option to connect a backup electric heater
- Units with hydromodule (circulation pump, expansion tank,...)



Model SMHM-			650BH-3	750BH-3	1100BH-3	1400BH-3
Capacity	Heating	kW	64	77	112	142
	Cooling	kW	76	86	128	138
Power input	Heating	kW	15,24	19,74	27,00	38,17
	Cooling	kW	20,27	23,12	33,7	36,32
COP	Heating	-	4,2	3,9	4,15	3,72
	Cooling	-	3,75	3,72	3,8	3,8
SCOP	Heating (55°C / 35°C)	-	4,50 / 3,40	4,50 / 3,40	4,25 / 3,25	4,25 / 3,25
Power supply		V/Ph/Hz	380-415 / 3 / 50			
Max. current		A	54	54	106	106
Refrigerant	Type	-	R32			
	Charge	kg	9		15,5	
Water pipes	Inlet	mm	DN50		DN65	
	Outlet					
Water temperatures range	Heating	°C	25 - 65			
	Cooling	°C	5 - 20			
Water pump	Power input	kW	1,78			0,93
Water flow switch	Min. water flow	m³/h	3			5
Expansion vessel	Volume	l	12			22
	Maximum pressure	Bar	10			
	Precharged pressure	Bar	1,5			
Heat exchanger	Type	-	Brazed Plate			
	Amount	-	1			
Safety valve	Pressure	bar	6			
Sound pressure level LpA	1 m	dB	64	69	64	73
Unit dimensions	W*D*H	mm	2000×1770×960			2220×2300×1135
Package dimensions	W*D*H	mm	2085×1890×1030			2250×2445×1180
Weight	Net/Gross	kg	475 / 490			746 / 767
	Operating temperature range					
	Cooling	°C	-15 - 48			
	Heating	°C	-25 - 43			
	DHW	°C	-20 - 43			

Models SMHM-650B-3, SMHM-750B-3, SMHM-1100B-3 a SMHM-1400B-3 do not include a water pump due to different project requirements. SMHM-650BH-3, SMHM-750BH-3, SMHM-1100BH-3 a SMHM-1400BH-3 include hydraulic module.

CAPACITIES AND POWER INPUTS ARE BASED ON THE FOLLOWING CONDITIONS:

COOLING conditions: Indoor Water Temperature 23 °C / 18 °C. Outdoor Air Temperature 35 °C DB / 24 °C WB.

HEATING conditions: Indoor Water Temperature 30 °C / 35 °C. Outdoor Air Temperature 7 °C DB / 6 °C WB.

The specification of products is subject to change based on the further development of the units by the producer and can be changed without prior notice. Refer to the rating label. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (100% HFC-32), GWP of refrigerant used: 675. Sound pressure level is tested in a soundless chamber, actual values may be affected by local conditions.



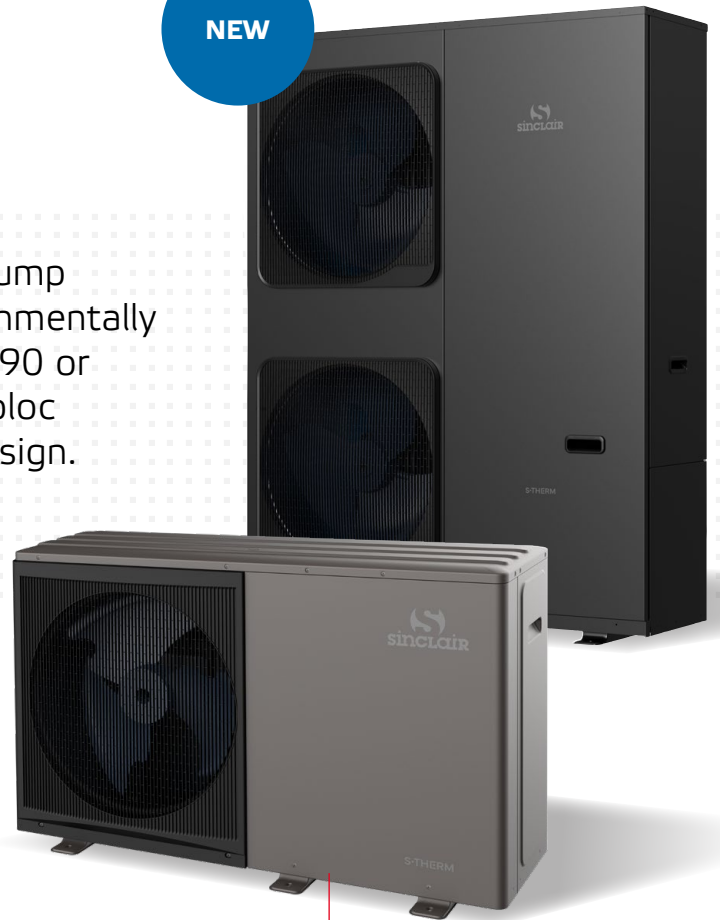


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## MONOBLOC UNITS

NEW

A new inverter heat pump works with the environmentally friendly refrigerant R290 or propane. It is a monobloc version with a new design.




**The units are available in 6, 8, and 10 kW (1-phase), 12, 14, and 16 kW (3-phase) and 26, 30, and 35 kW (3-phase)**

### ECOLOGY AND PERFORMANCE GO HAND IN HAND

- The system can be connected to underfloor heating, radiators, or fan coils. If you add a hot water tank and a three-way valve, you can use the system to heat domestic hot water
- The environmentally friendly R290 refrigerant, combined with an inverter compressor, ensures eco-friendly operation while maintaining high performance
- Hermetically sealed refrigerant circuit to minimize the risk of refrigerant leakage
- The units are equipped with a remote service management system
- The unit operates reliably even at low temperatures, down to -25 °C, thanks to the intermediate refrigerant injection
- High output temperatures up to 75 °C for monoblocks up to 16 kW and up to 85 °C for monoblocks 26, 30 and 35 kW

UNITS WITH A NEW DESIGN. R290 REFRIGERANT WITH HERMETICALLY SEALED REFRIGERANT CIRCUIT AND HERMETICALLY SEPARATED ELECTRONICS TO ENSURE ENVIRONMENTALLY FRIENDLY OPERATION, MAXIMUM PERFORMANCE, AND EFFICIENCY WHILE MAINTAINING MAXIMUM SAFETY LEVELS.

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**MONOBLOC UNITS****6-16 kW****NEW****FEATURES**

- Internet control via the iLetComfort app
- New display design
- High efficiency
- Circulation pump with self-adjusting speed control
- Integrated expansion tank and safety valve
- Silent mode
- Outlet temperature from 25 °C to 75 °C
- Integrated electric power heater 3 or 9 kW
- **New design**
- **New display**



Model SMHM-			60P/3	80P/3	100P/3	120P-3/9	140P-3/9	160B-3/9	
Suitable for building heat loss		kW	6 - 7	8	9 - 11	12 - 13	14	15 - 17	
Capacity	Heating	kW	6,2	8,40	10,0	12	14	15	
	Cooling	kW	6,5	8,3	10	12	14	16	
Power input	Heating	kW	1,26	1,68	2,12	2,5	3,11	3,4	
	Cooling	kW	1,28	1,61	2,1	2,67	3,33	4,1	
COP	Heating	-	4,9	5	4,7	4,8	4,5	4,4	
EER	Cooling	-	5,1	5,15	4,75	4,5	4,2	3,9	
Energy class	Heating (55°C / 35°C)	-	A++ / A+++						
SCOP	Heating (55°C / 35°C)	-	3,82 / 4,89	3,82 / 5,19	3,82 / 5,07	3,62 / 4,67	3,61 / 4,64	3,57 / 4,59	
Power supply		V/Ph/Hz	220-240/1/50			380-415/3/50			
Refrigerant	Type	-	R290						
	Charge	kg	0,7	1,1	1,25				
Water pipes	Inlet	inch	1"		5,4"				
	Outlet								
Water temperatures range	Heating	°C	12-75						
	Cooling	°C	5-30						
	DHW	°C	30-60						
Main components	Water pump	Water flow range	m3/h	0,4-1,25	0,4-1,65	0,4-2,1	0,7-2,5	0,7-2,75	0,7-3,0
		Nominal water flow	m3/h	1,09	1,44	4,72	2,08	2,49	2,73
Expansion tank	Volume	l	8						
	Maximum pressure	Bar	8						
	Precharged pressure	Bar	1						
Electric heater	Mode	kW	3			9			
	Steps	-	1			3			
	Combination	kW	3			3/6/9			
	Power supply	V/Ph/Hz	220-240/1/50			380-415/3/50			
Heat exchanger	Type	-	Braze plate						
	Quantity	-	1						
Safety valve	Pressure	bar	3						
Sound pressure level LpA	1 m	dB	44	46	48	51	52	56	
Unit dimensions	W*D*H	mm	1299*717*426		1385*865*523				
Package dimension	W*D*H	mm	1375*885*475		1465*1035*560				
Weight	Net/Gross	kg	90/110	117/139		142/164			
Operating temperature range	Cooling	°C	-5-43						
	Heating	°C	-25-35						
	Water heating	°C	-25-46						



**MONOBLOC UNITS****26, 30 AND 35 kW****NEW****FEATURES**

- Internet control via the iLetComfort app
- High efficiency
- Circulation pump with self-adjusting speed control
- Integrated expansion tank and safety valve
- Silent mode
- Outlet temperature from 25 °C to 85 °C
- Cascade connection of up to 6 units
- **New design**
- **New display**



Model SMHM-			260P-3	300P-3	350P-3	
Suitable for building heat loss		kW	15 - 26	22 - 30	20 - 35	
Power supply		V/f/Hz	380-415/3/50			
Capacity	Heating	kW	26	30	35	
	Cooling	kW	26	30	35	
Power input	Heating	kW	5,45	6,9	8,4	
	Cooling	kW	5,6	6,8	8,5	
COP	Heating	-	4,77	4,50	4,17	
EER	Cooling	-	4,64	4,41	4,12	
Energy class	Heating (55°C / 35°C)	-	A+++/A+++	A++/A+++		
SCOP	Heating (55°C / 35°C)	-	3,84/4,95	3,79/4,92	3,63/4,48	
Max. current		A	28	30	31	
Refrigerant	Type	-	R290			
	Charge	kg	2,9			
Water pipes	Inlet	inch	5/4"			
	Outlet					
Water temperatures range	Heating	°C	25-85			
	Cooling	°C	5-25			
Main components	Water pump	Max. water flow	m3/h	5,4	6,2	7,2
		Water flow-switch	Min. water flow	m3/h	1,2	
	Expansion tank	Volume	l	5		
		Maximum pressure	Bar	8		
		Precharged pressure	Bar	3		
	Heat exchanger	Type	-	Braze plate		
		Quantity	-	1		
Safety valve	Pressure	bar	3			
Sound pressure level LpA	1 m	dB	61,4		62,8	
Unit dimensions	W*D*H	mm	1384x1816x523			
Package dimension	W*D*H	mm	1480x2000x570			
Weight	Net/Gross	kg	260/280			
			260/280			
Operating temperature range	Cooling	°C	-15~48			
	Heating	°C	-25~43			
	Water heating	°C	-25~43			

Capacities and power inputs are based on the following conditions:

COOLING conditions: Indoor Water Temperature 23 °C / 18 °C. Outdoor Air Temperature 35 °C DB / 24 °C WB.

HEATING conditions: Indoor Water Temperature 30 °C / 35 °C. Outdoor Air Temperature 7 °C DB / 6 °C WB.

The specification of products is subject to change based on the further development of the units by the producer and can be changed without prior notice. Refer to the rating label.

R290 (100% CH3CH2CH3). GWP value of the refrigerant used: 3.

This equipment contains fluorinated greenhouse gases covered by the Kyoto Protocol. Explanatory notes on the last page of the catalogue. The cross-section of the individual conductors must be chosen with respect to IEC 60364.

**DC INVERTER**ECOLOGICAL REFRIGERANT **R32**



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Sinclair



# Heat pumps S-Therm Ontario



**S-THERM ONTARIO heat pumps are named after the Canadian province of Ontario, because this region symbolizes some of the harshest conditions for life. The Ontario series has been designed to be able to operate in these conditions. High efficiency even in low temperatures will guarantee enough heat even in the most remote places of these northern regions.**

## THERE IS BEAUTY IN SIMPLICITY

The Ontario series heat pumps were designed to maintain simplicity in both construction and operation. This is done by a touch-sensitive color controller with simple operation and user-friendly design.

## AVAILABILITY FOR EVERYONE

These challenging times bring many hazards. That's why we've thought of everyone and we offer an affordable heating solution for your home. If you're looking for a heat pump on the market, that has to meet the parameters of high performance and affordable price, these are the devices that are the right solution for you.

## MODERN DESIGN

Ontario series heat pumps with their modern look fit any type of homes. Whether it's new construction or renovating an older building.

## WIDE RANGE OF MODELS

We offer Ontario series heat pumps in capacities from 4 kW to 16 kW. We offer you split versions with hydrobox as well as split versions with an indoor unit that has an integrated domestic hot water tank with a capacity of 190 litres.

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## MAIN FEATURES

### REGULATION IN OPERATING MODES FOR MAXIMUM COMFORT

- Heating
- Heating + preparation of hot domestic water
- Cooling
- Cooling + preparation of hot domestic water
- Preparation of hot domestic water

### PRIORITY REGULATION

The controller allows you to prioritize specific modes such as "heating + domestic hot water" or "cooling + domestic hot water."

### OUTPUT TEMPERATURE CONTROL.

Setting a fixed output temperature.

### ROOM TEMPERATURE CONTROL VIA INTERNAL SENSOR

- Temperature control according to the desired temperature of the reference room. Remote room temperature sensor included
- Regulation of room temperature using the existing room thermostat
- Heat pump is controlled by the room thermostat in the reference room

### FAST CHARGING OF THE HOT WATER TANK

The heat pump and the electric heating element work together to heat the water in the tank as quickly as possible.

### WEEKLY TIME SCHEDULE

The heat pump can be controlled using a weekly programme. For each day, there are total of three time programmes with start and stop times. In parallel, the output temperature can be set and the water temperature can be switched simultaneously. Individual days of the week can be set to "absent" and thus be excluded from the time programme.

### DISINFECTION FUNCTION

The hot water tank is heated to +70 °C by time control to destroy any bacteria. This function is usually carried out at night. Therefore, the desired day of the week, the start time and the desired temperature can be set for this function.

### VACATION FUNCTION

To save energy, you can lower the room temperature in your absence.

### SILENT MODE OF THE OUTDOOR UNIT

This function can be used to reduce the noise level of the outdoor unit by time control.

### REMOTE ON/OFF SWITCH

Remote Wi-Fi control via the EWPE SMART mobile app



## REMOTE CONTROL

### TOUCH CONTROLLER

Control of S-therm heat pumps Ontario is done by a touch-sensitive controller, which is located indoors. The control is user-friendly and in the multiple languages.

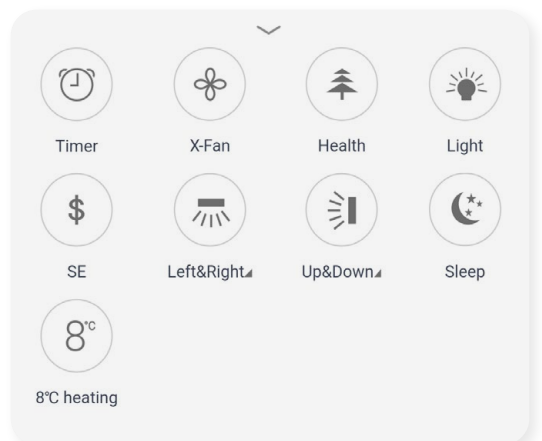
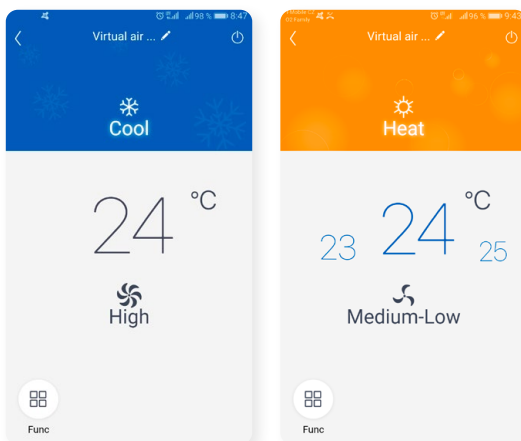
### MODES

- Heating or cooling
- Heating of domestic hot water
- Cooling + heating of domestic hot water
- Heating + heating of domestic hot water
- Emergency mode
- Quick heating of domestic hot water
- Holiday mode
- Disinfection mode
- Equitherm mode



### REMOTE CONTROL USING THE EWPE SMART APP

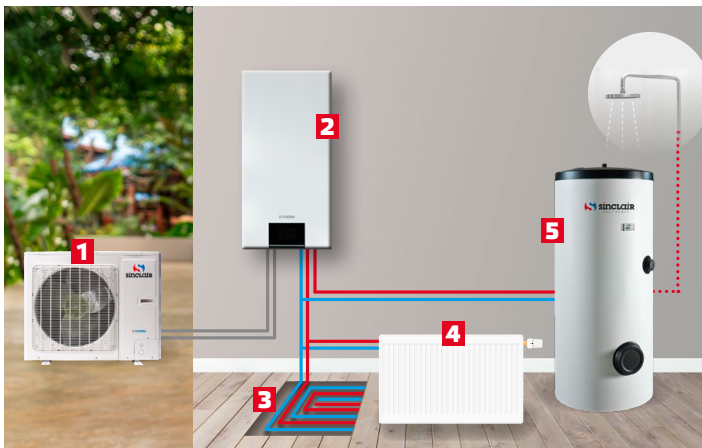
S-therm Ontario heat pumps have an integrated wifi module and can be controlled via the EWPE Smart app. Remote control is simple and intuitive.



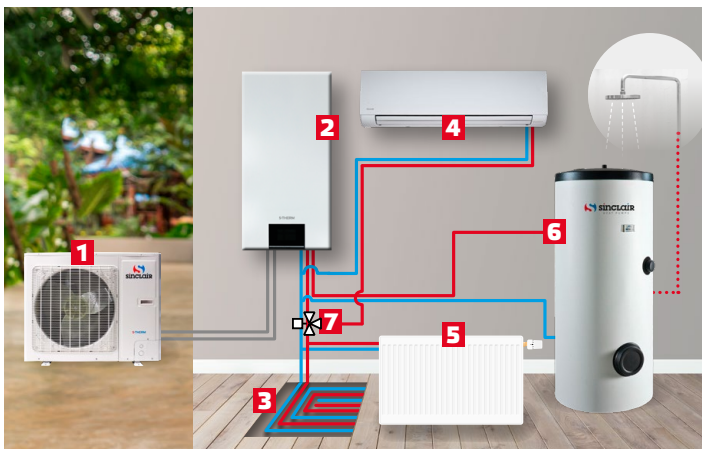
# EXAMPLES OF CONNECTION FOR HEATING SYSTEM WITH HYDROBOX



- 1 Outdoor unit
- 2 Hydrobox
- 3 Underfloor heating
- 4 Domestic hot water storage tank

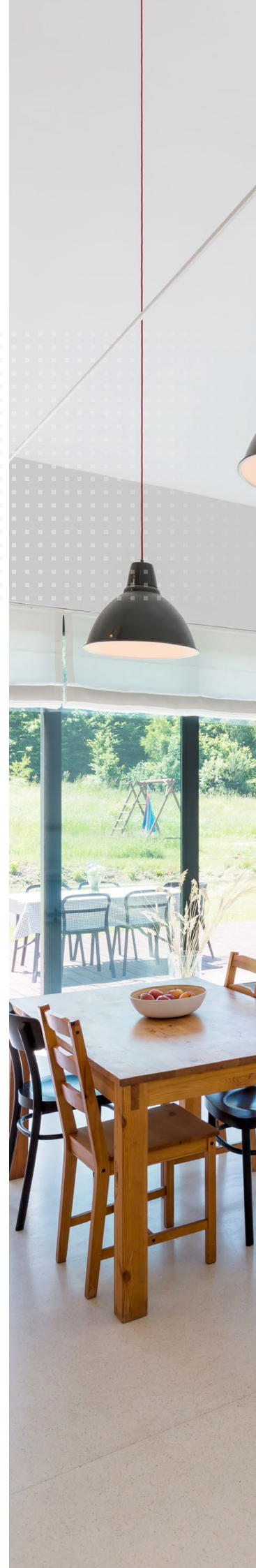


- 1 Outdoor unit
- 2 Hydrobox
- 3 Underfloor heating
- 4 Radiator
- 5 Domestic hot water storage tank



- 1 Outdoor unit
- 2 Hydrobox
- 3 Underfloor heating
- 4 Fan Coil
- 5 Radiator
- 6 Domestic hot water storage tank
- 7 Three-way valve Heating/ Cooling - optional

These diagrams are not a substitute for technical connection diagrams.





## INDOOR UNITS

## HYDROBOX

Heat pump available in capacities of 4, 6, 8, 10, 12, 14, and 16 kW for heating underfloor systems, radiators, or fan coils

**With the integrated three-way valve, year-round operation in domestic hot water heating mode is possible. In addition, cooling up to 7 °C is possible in summer.**

In heating mode, the indoor unit transfers the thermal energy of the refrigerant through the heat exchanger to the water. This hot water is then supplied to radiators, underfloor heating and hot water storage tank.

The units are available in both single-phase and three-phase versions (units with -3 terminals).

The indoor unit contains a powerful plate heat exchanger, that features high corrosion resistance, compact size and high efficiency.

The expansion tank inside the hydrobox has a capacity of 10 liters. Standard pressure in the vessel is 1.0 bar. This ensures reliable operation of the equipment and a stable pressure in the system.



Energy-efficient and powerful WILO circulation pump ensures smooth water flow in underfloor heating or radiators.

The split version is suitable, if space in the room is limited and heating of hot domestic water is not required. If a buffer tank or hot water tank is required, these tanks are installed separately. Connection to domestic hot water is possible, underfloor heating, fancoil units, water tanks, gas boilers, etc.

The Hydrobox contains a WILO Invertor circulator and an Alpha Laval plate heat exchanger.

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# INDOOR UNITS HYDROBOX

## FEATURES

- Touch screen
- Possibility of control via internet with EWPE SMART application
- Circulatory pump with self-regulation of speed
- Integrated expansion vessel and safety valve
- Possibility of equithermal regulation, regulation according to the reference room temperature or thermostat
- Possibility of cooling in convector units
- Preparation of hot domestic water
- Three-way valve is part of the indoor unit



Model GSH-			40IRB	60IRB	80IRB/80IRB-3	100IRB/100IRB-3	120IRB/120IRB-3	140IRB/140IRB-3	160IRB/160IRB-3	
Alternative designation			40IRBC	60IRBC	80IRBC/80IRBC-3	100IRBC/100IRBC-3	120IRBC/120IRBC-3	140IRBC/140IRBC-3	160IRBC/160IRBC-3	
Power supply	V / Ph / Hz		220-240/1/50			220-240/1/50 / 380-415/3/50				
Connecting pipe(refrigerant)	Gas	inch / mm	1/2" / 12,0				5/8" / 16,0			
	Liquid		1/4" / 6,0							
Connecting pipe (water)	Inlet	inch	1"							
	Outlet									
Safety valve	bar		3							
Leaving water temperature	Cooling	°C	7-25							
	Heating		25-60							
Main components	Water pump	Type	Inverter							
		Speed	Automatic							
		Max. power	W	75		75/87		87		
		Expansion tank	Volume	l	10					
Max. pressure			3							
Pressure	bar		1							
Electric heater	Mode	-	Automatic							
	Capacity	kW	3			6				
	Combination	-	1,5 + 1,5			3 + 3				
	Power supply	V / Ph / Hz	220-240/1/50			220-240/1/50 / 380-415/3/50				
Heat exchanger	Type	-	Deskový pájený							
	Amount	-	1							
Level of acoustic pressure in 1m	dB (A)		29							
Dimensions	Outline (w x h x d)	mm	460 x 318 x 860							
	Packaged (w x h x d)		565 x 375 x 1130		565 x 375 x 1130/568 x 390 x 1133		568 x 390 x 1133			
Weight	Netto	kg	62		62/59,5		59,5			
	Brutto		71		71/68,5		68,5			

The C-end units include a Shinhoo water pump. Units without the C mark contain a Wilo water pump.

# OUTDOOR UNIT

## FEATURES

- We offer you outdoor units in a single-propeller version in capacities of 4, 6, 8, 10, 12, 14, 16 kW in single-phase and three-phase versions (units with suffix -3)
- Outdoor units of compact dimensions facilitating problem-free installations and also transportation
- The device uses environmentally friendly refrigerant R32 with low GWP value
- Compressor with added economizer and intermediate stage injection of refrigerant, thanks to which high efficiency and energy saving are achieved
- Motor control technology by semiconductor frequency converter
- The units are equipped with an inverter control that changes the speed of the compressor. The delivered power of the units is precisely adapted to the heating system
- Energy savings of up to 40% and temperature fluctuations are avoided
- Between the outdoor unit and the indoor unit, the pipe length can be up to 20 meters, elevation up to 15 meters



Model GSH-			40ERB	60ERB	80ERB/80ERB-3	100ERB/100ERB-3	120ERB/120ERB-3	140ERB/140ERB-3	160ERB/160ERB-3	
Power supply		V / Ph / Hz	220-240/1/50		220-240/1/50 / 380-415/3/50		220-240/1/50 / 380-415/3/50			
Capacity	Heating	kW	4	6	8	9,5 / 10	12	14	15,5	
	Cooling	kW	3,8	5,8	7/8,5	8,5 / 10	11	12,6	13	
Power	Heating	kW	0,78	1,2	1,7 / 1,63	2,07 / 2,15	2,4	3,0	3,4	
	Cooling	kW	0,8	1,32	1,75 / 1,74	2,24 / 2,15	2,5	3,4	3,6	
COP	Heating	-	5,1	5	4,7 / 5,16	4,6 / 4,65	5	4,7	4,5	
EER	Cooling	-	4,75	4,4	4 / 4,89	3,8 / 4,29	4,4	3,7	3,6	
Technical parameters	Level of acoustic pressure	Max	dB (A)		52		55		60	
	Energy class	Heating (55 °C / 35 °C)	-	A++	A++	A++/A+++	A++/A+++	A++/A+++	A++/A+++	A++/A+++
SCOP	Heating (55 °C / 35 °C)	-	3,3	3,3	3,3/4,6	3,3/4,6	3,5/4,6	3,5/4,7	3,5/4,5	
		-			3,2/4,6	3,5/4,7	3,2/4,5	3,4/4,5	3,4/4,5	
Refrigerant	Type	-	R32							
	Amount	kg	1		1,6/1,84		1,84			
Domestic hot water temperature		°C	40-80							
Refrigerant pipes	Gas	inch / mm	1/2" / 12,0				5/8" / 16,0			
	Liquid	inch / mm	1/4" / 6,0							
Unit Dimension	w x h x d	mm	975x702x396		1010x828x460/982x787x395		940x820x460			
Package Dimension	w x h x d	mm	1028x830x458		1083x973x573/1094x917x474		1103x973x573			
Weight	Netto/Brutto	kg	55/65		82/92 / 88/98		104/114 / 110/121			
Operating temperature range		°C	-25 - 45							
Standard pipe length		m	5							
Max. pipe length		m	20		15		15			
Max. elevation		m	15							
Additional refrigeration		g/m	16							

CAPACITIES AND POWER INPUTS ARE BASED ON THE FOLLOWING CONDITIONS:

Cooling conditions: Indoor Water Temperature 23°C / 18°C; Outdoor Air Temperature 35°CDB / 24°CWB  
 Heating conditions: Indoor Water Temperature 30°C / 35°C; Outdoor Air Temperature 7°CDB / 6°CWB

The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (100% HFC-32), GWP of refrigerant used: 675. Sound pressure level is tested in a soundless chamber, actual values may be affected by local conditions.



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## INDOOR UNIT

## ALL IN ONE



Indoor hydrobox unit with an integrated 190 liter enamelled hot water tank

**Heat Pump SINCLAIR ALL IN ONE belongs to a new generation of heat pumps designated for heating, cooling and heating of hot domestic water in households.**

- Technology combines an indoor hydrobox unit and an integrated 190 liter enamelled hot water tank
- We offer you ALL IN ONE solutions with performances of 4, 6, 8, 10, 12, 14, 16 kW.
- Units are in one-phase or three-phase (devices with suffix -3)

### **SAVE SPACE IN THE HOUSE**

Thanks to the connection of the hydro unit and the tank, you only need a small space for this heat pump. Indoor unit ALL IN ONE includes circulatory pump WILO and plate heat exchanger Alpha Laval.

**S-THERM**



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# INDOOR UNIT ALL IN ONE

## FEATURES

- Touch screen
- Possibility of control via internet with EWPE SMART application
- High efficiency
- Circulatory pump with self-regulation of speed
- Integrated expansion vessel and safety valve
- Possibility of equithermal regulation, regulation according to the reference room temperature or thermostat
- Silent mode
- Three-way valve is part of indoor unit
- Built-in electric cartridge with 3 or 6 kW performance
- New version 2 also includes a circulation pump and an external heat exchanger directly for domestic hot water heating, thus increasing the total tank volume
- Single-phase units with power of 4, 6, 8, 10 kW can only be combined with outdoor units with terminal 2



Model GSH-			40TRB2	60TRB2	80TRB2/80TRB2-3	100TRB2/100TRB2-3	120TRB2/120TRB2-3	140TRB2/140TRB2-3	160TRB2/160TRB2-3	
Power supply		V / Ph / Hz	220-240/1/50			220-240/1/50 / 380-415/3/50				
Connecting pipe(refrigerant)	Gas	inch / mm	1/2" / 12,0			1/4" / 6,0		5/8" / 16,0		
	Liquid									
Connecting pipe (water)	Inlet	inch				1"				
	Outlet									
Safety valve		bar				3				
Leaving water temperature	Cooling	°C				7-25				
	Heating	°C				25-60				
Main components	Water pump	Type				PWM				
		Speed				Automatic				
		Max. power	W	75		75/87		87		
	Hot water tank	Volume	l				190			
		El. heater	kW				3			
	Expansion tank	Volume	l				10			
		Max. pressure	bar				3			
		Pressure	bar				1			
	Auxiliary electric heater	Mode	-				Automatic			
		Capacity	kW	3			6			
Combination		-	1,5 + 1,5			3 + 3				
Power supply		V / Ph / Hz				220-240/1/50				
Heat exchanger	Type	-				Brazed plate pájený				
	Amount	-				1				
Level of acoustic pressure in 1m		dB (A)				29				
Dimensions	Outline (w x h x d)	mm				650 x 600 x 1800				
	Packaged (w x h x d)	mm				803 x 703 x 2035				
Weight	Netto	kg				195				
	Brutto	kg				219				



# OUTDOOR UNITS

## FEATURES

- We offer you outdoor units in a single-propeller version in power of 4, 6, 8, 10, 12, 14, 16 kW in single-phase and three-phase versions (units with suffix -3)
- Outdoor units of compact dimensions facilitating problem-free installations and also transportation
- The device uses environmentally friendly refrigerant R32 with low GWP value
- Compressor with added economizer and intermediate stage injection of refrigerant, thanks to which high efficiency and energy saving are achieved
- Motor control technology by semiconductor frequency converter
- The units are equipped with an inverter control that changes the speed of the compressor. The delivered power of the units
- is precisely adapted to the heating system
- Energy savings of up to 40% and temperature fluctuations are avoided
- Between the outdoor unit and the indoor unit, the pipe length can be up to 20 meters, elevation up to 15 meters
- Units with terminal 2 can only be combined with single-phase ALL IN ONE indoor units



Model GSH-			40ERB2	60ERB2	80ERB2/80ERB-3	100ERB2/100ERB-3	120ERB/120ERB-3	140ERB/140ERB-3	160ERB/160ERB-3	
Power supply		V / Ph / Hz	220-240/1/50		220-240/1/50 / 380-415/3/50		220-240/1/50 / 380-415/3/50			
Capacity	Heating	kW	4	6	8	10 / 10	12	14	15,5	
	Cooling	kW	3,9	5,8	7,7 / 8,5	9,35 / 10	11	12,6	13	
Power	Heating	kW	0,77	1,2	1,61 / 1,63	2,1 / 2,15	2,4	3,0	3,4	
	Cooling	kW	0,68	1,13	1,72 / 1,74	2,36 / 2,15	2,5	3,4	3,6	
COP	Heating	-	5,2	4,88	4,97 / 5,16	4,76 / 4,65	5	4,7	4,5	
EER	Cooling	-	5,7	5,1	4,5 / 4,89	4 / 4,29	4,4	3,7	3,6	
Technical parameters	Level of acoustic pressure	Max.	dB (A)		52		55		60	
	Energy class	Heating (55 °C / 35 °C)	-	A+++	A+++	A++/A+++	A++/A+++	A++/A+++	A++/A+++	A++/A+++
SCOP	Heating (55 °C / 35 °C)	-	4,7		4,6		3,3/4,6		3,2/4,6	
			3,2/4,6		3,5/4,7		3,2/4,5		3,4/4,5	
Refrigerant	Type	-	R32							
	Amount	kg	1,1		1,84/1,84		1,84			
Domestic hot water temperature		°C	40-80							
Refrigerant pipes	Gas	inch / mm	1/2" / 12,0				5/8" / 16,0			
	Liquid	inch / mm	1/4" / 6,0							
Unit Dimension	w x h x d	mm	975x702x396		982x787x427/982x787x395			940x820x460		
Package Dimension	w x h x d	mm	1028x830x458		1097x937x478/1094x917x474			1103x973x573		
Weight	Netto/Brutto	kg	65		82/92 / 88/98		104/114 / 110/121			
Operating temperature range		°C	-25 - 45							
Standard pipe length		m	5							
Max. pipe length		m	20		15		15			
Max. elevation		m	15							
Additional refrigeration		g/m	16		-					

CAPACITIES AND POWER INPUTS ARE BASED ON THE FOLLOWING CONDITIONS:

Cooling conditions: Indoor Water Temperature 23°C / 18°C; Outdoor Air Temperature 35°CDB / 24°CWB  
 Heating conditions: Indoor Water Temperature 30°C / 35°C; Outdoor Air Temperature 7°CDB / 6°CWB

The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (100% HFC-32), GWP of refrigerant used: 675. Sound pressure level is tested in a soundless chamber, actual values may be affected by local conditions.



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## MONOBLOC UNITS



Inverter heat pump, which consists of only one compact outdoor unit with everything you need, including hydraulic components

**We offer capacities of 4, 6, 8 kW (1 phase) and 10, 12, 14, 16 kW (1 phase and 3 phase)**

- The system can be connected to floor heating, radiators or fan coils. If you add a hot domestic water tank and a three-way valve, you can also use the device to heat domestic hot water
- The device just needs to be connected to the heating system and to the electricity. This minimizes costs and the time required for installation.
- Environmentally friendly refrigerant R32 in combination with inverter compressor and EVI exchanger ensure economical and nature-saving operation
- Hermetically sealed refrigerant circuit of the device, minimal risk of refrigerant leakage
- Monoblock heat pump includes circulatory pump, plate exchanger, pressure valve, expansion valve, safety valve and two-stage rotary compressor
- The device works reliably even at low temperatures, down to -25 °C, thanks to the added economizer and intermediate stage refrigerant injection

**S-THERM**



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**MONOBLOC UNITS****4<sup>TH</sup> GENERATION****FEATURES**

- Touch screen
- Possibility of control via internet with EWPE SMART application
- Integrated expansion vessel and safety valve
- Circulatory pump with self-regulation of speed
- The outlet water temperature from 25 °C to 60 °C
- High efficiency
- Silent mode



works with  
**Loxone**



Model SMH-			40IRB	60IRB	80IRB	100IRB2/100IRB2-3	120IRB2/120IRB2-3	140IRB2/140IRB2-3	160IRB2/160IRB2-3
Capacity	Heating	kW	4	6	7,5	10	12	14	15,5
	Cooling	kW	3,8	5,8	6,8	8,8	11	12,5	14,5
Power input	Heating	kW	0,78	1,2	1,63	2,15	2,64	3,22	3,6
	Cooling	kW	0,82	1,32	1,55	1,96	2,56	3,05	3,82
COP	Heating	-	5,1	5	4,6	4,65	4,55	4,3/4,5	4,3
EER1	Cooling	-	4,65	4,4	4,4	4,5	4,2	4/4,2	3,7/4
Energy class	Heating (55°C / 35°C)	-	A++/A+++	A++/A+++	A++/A+++	A++/A+++	A++/A+++	A++/A++	A++/A++
SCOP	Heating (55°C / 35°C)	-	3,3/4,8	3,3/4,8	3,3/4,8	3,2/4,5 3,3/4,5	3,2/4,5 3,3/4,5	3,2/4,32 3,2/4,3	3,2/4,2 3,3/4,2
Power supply		V/Ph/Hz	220-240/1/50			220-240/1/50 / 380-415/3/50			
Max. power input		kW	2,4			6,7/8,3			
Max. current		A	10,4			19/12			
Refrigerant	Type	-				R32			
	Charge	kg	0,87			2,2			
Water pipes	Inlet	mm				DN25			
	Outlet	mm				DN25			
Water temperatures range	Heating	°C				20-60			
	Cooling	°C				7-25			
Main components	Water pump	Max. water flow	m <sup>3</sup> /h			3,5			
		Power input	W			75			
	Water flow switch	Minimum flow	l/min			0,6			
		Expansion tank	Volume	l			2		
		Maximum pressure	bar			3			
		Precharged pressure	bar			1			
Electric heater	Mode	-							
	Steps	-							
	Capacity	kW				-			
	Combination	kW							
	Power supply	V/Ph/Hz							
Heat exchanger	Type	-				Plate			
	Quantity	-				1			
Safety valve	Pressure	bar				3			
Sound pressure level LpA	1 m	dB	58			61			
Unit dimensions	W*H*D	mm	1150x345x758			1200x460x878			
Package dimension	W*H*D	mm	1258x488x900			1288x588x1020			
Weight	Net/Gross	kg	96/109			151/166			
Operating temperature range	Cooling	°C				10-48			
	Heating	°C				-25-35			
	Water heating	°C				-25-45			

\* Values belong to units with alternative designations.

The C-end units include a Shinwoo water pump. Units without the C mark contain a Wilo water pump.

**AUXILIARY ELECTRIC HEATER FOR ONTARIO MONOBLOCS**

The monobloc heat pumps can optionally integrate a bivalent source with the designation EH-SMH. The auxiliary electric heater is available in 3/9 kW - either star connection or in a triangle (3x3 kW, 400V / 3x1 kW, 230V)



**S-THERM**

# MONOBLOC UNITS

## 5<sup>TH</sup> GENERATION

### FEATURES

- Touch screen
- Possibility of control via internet with EWPE SMART application
- Integrated expansion vessel and safety valve
- Circulatory pump with self-regulation of speed
- The outlet water temperature from 20 °C to 65 °C
- High efficiency
- **Silent mode**
- **New design**
- **More powerful units**



Model SMH-			40IRBC	60IRBC	80IRBC/80IRBC-3	100IRBC/100IRBC-3	120IRBC/120IRBC-3	140IRBC/140IRBC-3	160IRBC/160IRBC-3	
Capacity	Heating	kW	5,0	6,0	8,2/8,2	10,2/10,2	12,0/12,0	14,2/14,2	15,7/15,7	
	Cooling	kW	5,0	6,5	8,3/8,3	10,2/10,2	12,0/12,0	13,7/13,9	15,5/15,40	
Power	Heating	kW	0,93	1,11	1,54/1,62	2,02/2,06	2,43/2,49	2,99/3,09	3,45/3,57	
	Cooling	kW	0,96	1,28	1,56/1,64	2,00/2,13	2,45/2,61	3,00/3,32	3,60/4,05	
COP	Heating	-	5,40	5,40	5,32/5,06	5,05/4,95	4,94/4,82	4,75/4,60	4,55/4,40	
EER	Cooling	-	5,20	5,10	5,32/5,06	5,10/4,79	4,90/4,60	4,57/4,19	4,31/3,80	
Energy class	Heating (55°C / 35°C)	-								
SCOP	Heating (55°C / 35°C)	-	3,50/4,87	3,50/5,05	3,70/4,50 3,45/4,47	3,45/4,47 3,57/4,80	3,67/4,77 3,50/4,57	3,70/4,70 3,52/4,55	3,70/4,67 3,52/4,55	
Power supply		V/Ph/Hz	220-240/1/50			220-240/1/50 / 380-415/3/50				
Max. power	Heating	kW	1,85	1,85	3,75/3,30	4,00/3,55	3,896/3,384	4,851/5,265	5,337/5,784	
	Cooling		2,45	2,45	5,2/5,50	5,75/6,00	6,854/7,967	6,900/8,314	6,900/8,660	
Max. current	Heating	A	8,0	8,0	16,5/5,0	17,5/5,5	17,0/5,0	21,0/8,0	23,0/8,5	
	Cooling		11,0	11,0	23,0/8,0	25,0/9,0	29,0/11,5	30,0/12,0	30,0/12,5	
Refrigerant	Type	-	R32							
	Amount	kg	0,95		1,6		2,2			
Water pipes	Inlet	mm	DN25							
	Outlet	mm	DN25							
Water temperatures range	Heating	°C	20-65							
	Cooling	°C	7-25							
Main components	Water pump	Max. water flow	m³/h	0,7	1,1	1,4/1,4	1,7/1,7	2,05/2,05	2,4/2,4	2,75/2,75
		Power	W	3-87	3-87	3-87	3-87	3-87	3-87	3-87
	Water flow switch	Minimum flow	m³/h	0,55	0,55	1,13	1,13	1,13	1,13	1,13
		Expansion tank	Volume	l	2	2	2/3	2/3	3/3	3/3
		Maximum pressure	Bar	3	3	3/3	3/3	3/3	3/3	
		Precharged pressure	Bar	1	1	1/1	1/1	1/1	1/1	1/1
	Electric heater	Mode	-							
		Steps	-							
		Capacity	kW							
		Combination	kW							
		Power supply	V/Ph/Hz							
	Heat exchanger	Type	-	Braze Plate HEX						
		Amount	-	1						
	Safety valve	Pressure	bar	3						
	Level of acoustic pressure LpA	1 m	dB	51	52	52/52	54/54	54/54	55/55	56/56
Unit Dimension	W x H x D	mm	1150x735x365			1206x878x445				
Package Dimension	W x H x D	mm	1258x503x900			1338x553x1020				
Weight	Netto	kg	90		120/134		138/144			
	Brutto		106		139/152		156/162			
Operating temperature range	Cooling	°C	-15-48							
	Heating	°C	-25-35							
	Water heating	°C	-25-45							

\* Units with suffix C include a Shinhoo water pump. Units without C marking contain a Wilo water pump.

CAPACITIES AND POWER INPUTS ARE BASED ON THE FOLLOWING CONDITIONS:

Cooling conditions: Indoor Water Temperature 23°C / 18°C; Outdoor Air Temperature 35°CDB / 24°CWB

Heating conditions: Indoor Water Temperature 30°C / 35°C; Outdoor Air Temperature 7°CDB / 6°CWB

The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (100% HFC-32), GWP of refrigerant used: 675. Sound pressure level is tested in a soundless chamber, actual values may be affected by local conditions.

# SERIES COMPARISON

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## MONOBLOC

SERIES	YUKON	ONTARIO
Prize	✓	✓
Dimensions	✓	✓
Auxiliary heater	✓ (Built-in 3-9 kW)	✓ (available for purchase)
Flow rate sensing	✓	✗
Efficiency	✓	✓
Circulation pump	Shimge	WILO/Shinhoo
Noise level	✓ (44-58 dB)	✓ (58-61 dB)
Smart grid	✓	✗

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## SPLIT

SERIES	YUKON	ONTARIO
Prize	✓	✓
Dimensions - outdoor unit	✓	✓
Dimensions - indoor unit	✓	✓
Max. pipe length	✓ (30 m)	✓ (15-20 m)
Auxiliary heater	✓ (3-9 kW)	✓ (3-6 kW)
Flow rate sensing	✓	✗
Efficiency	✓	✓
Circulation pump	Shimge	WILO/Shinhoo
Noise level - outdoor unit	✓ (44-55 dB)	✓ (52-61 dB)
Noise level - indoor unit	✓ (28-32 dB)	✓ (29 dB)
3-way valve	✓ (supplied by the installer)	✓ (built-in)
Smart grid	✓	✗





## ALL IN ONE

SERIES	YUKON	ONTARIO
Prize	✓	✓
Dimensions - outdoor unit	✓	✓
Dimensions - indoor unit	✓	✓
Max. pipe length	✓ (30 m)	✓ (15-20 m)
Auxiliary heater	✓ (3-9 kW)	✓ (3-6 kW)
DHW heating element	✗ (by auxiliary heater)	✓ (3 kW)
Flow rate sensing	✓	✗
Efficiency	✓	✓
Circulation pump	Shimge	WILO
Noise level - outdoor unit	✓ (44-55 dB)	✓ (52-61 dB)
Noise level - indoor unit	✓ (27-33 dB)	✓ (29 dB)
3-way valve	✓ (built-in)	✓ (built-in)
Smart grid	✓	✗
Possibility of recirculation	✓	✗
Tank - capacity	190 l for 6-10 kW / 240 l for 12-16 kW	190 l
Tank - material	stainless steel	enamel
Weight of the indoor unit	✓ (140-157 kg)	✓ (195 kg)

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## MONOBLOC

SERIES	YUKON WITH REFRIGERANT R32	YUKON WITH REFRIGERANT R290
Higher output temperature	✓	✓
Bright design	✓	✗
Dark design	✗	✓
New controller design	✗	✓
Higher COP at lower outlet temp.	✓	✓
Higher COP at higher output temp.	✓	✓
More sensors	✓	✓
Lower noise level	✓	✓
Hermetic enclosure of electronics	✗	✓
Price	✓	✓

- ✓ THE UNIT SUPPORTS
- ✓ MORE ADVANCED
- ✗ UNIT DOES NOT SUPPORT



pleasant world  
Sinclair

# MONOBLOC WATER HEATER

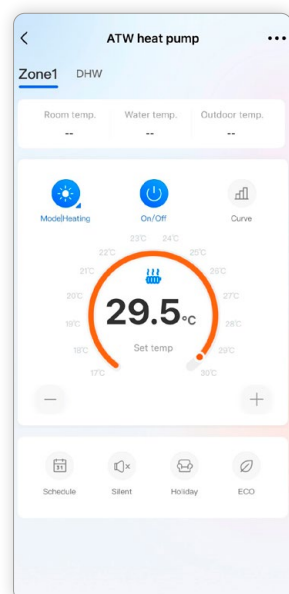


Monobloc hot water heaters in enamel finish

**Monobloc hot water heaters in enamel designs that use R134a refrigerant and new units with environmentally friendly R290 refrigerant.**

**Device in two versions with and without solar exchanger for connection of photothermal panels. Tank volumes ranging from 78 litres to 284 litres.**

- Possibility of connection to solar system - device with S ending
- Adjustable temperature of water: 38 °C–70 °C
- Operating ambient temperature: -20 °C–43 °C
- 50 mm polyurethane insulation



iLetComfort

The unit can be connected via wifi to the [Comfort home](#) or [iLetComfort app](#)





# MONOBLOC WATER HEATER

## FEATURES

- Complete insulation between water and electricity. No potential electric shock problem. No fuel pipes and storage, no potential danger from oil leakage, fire, explosion etc.
- Adopts heat pump principle, which absorbs heat from outdoor air and produces hot water, COP up to 5
- Lower power consumption compared to traditional systems
- Ambient temp: -20 to 43 °C, not affected by night-time temperatures, overcast sky, rain and snow
- No discharge of toxic gas. No pollution of the atmosphere or environment
- Automatic start and shutdown, automatic defrosting without any attention
- Possibility of control via Modbus
- Possibility of control via WiFi application



Model SWH-		190IRE2/190IRES2		300IRE2/300IRES2	
Mode		Hybrid	E-heater	Hybrid	E-heater
Operating temperature range	°C	-7 ~ 43	-20 ~ 43	-7 ~ 43	-20 ~ 43
Output water temperature	°C	38 ~ 70			
Power supply	V / Ph / Hz	220-240 / 1 / 50			
Water heating capacity	kW	1,62		2,3	
COP	-	3,86		4,34	
Max. power input	kW	0,42		0,53	
Max. current	A	22,2		33,7	
Energy class	-	A+		A+	
Unit dimension (D x H)	mm	Ø610 x 1830		Ø700 x 1930	
Package dimension (W x H x D)	mm	680 x 2070 x 680		775 x 2200 x 745	
Netto/Brutto weight	kg	268/277		398/406	
Sound pressure level at 1m	dB (A)	36,6		38,2	
Refrigerant	Type / Charge (kg) / t Eq. CO	R134a / 1,1 / 1,57		R134a / 1,5 / 2,00	
Tank design pressure	MPa	1,0			
Air flow volume	m³ / h	270		414	
Water inlet pipe	inch	3/4"			
Water outlet pipe	inch				
Solar water inlet pipe	inch				
Solar water outlet pipe	inch				
Solar pipe max. pressure	MPa	1			
Solar coil surface	m²	1,1		1,3	
Solar coil material	-	Enamel			
E-heater Capacity	kW	1,5		1,5	
Water tank volume	l	176/168		284/272	
Tank material	-	Enamel			

The technical specification of the products may differ from the stated values based on the development of the device by the manufacturer. Follow the parameters on the nameplate of the unit. The sound pressure level is tested in an anechoic chamber, values may actually be affected by local conditions. The equipment contains fluorinated greenhouse gases included in the Kyoto Protocol. R134a (100% HFC), GWP value of the refrigerant used: 1430



# MONOBLOC WATER HEATER



## FEATURES

- Perfect insulation of electrical parts, no risk of electric shock electric shock. Does not use the fuel supply or the fuel tank, can not occur leakage, explosion or fire
- The principle of the heat pump is based on heat absorption from the ambient air and heat water, COP up to 5
- Power consumption is lower compared to conventional water heaters
- The operating temperature range is from -20 °C to 43 °C, regardless of whether it is night, cloudy, rain or snow
- Does not produce harmful gases, does not pollute the environment
- Automatic switching off and on of the unit is a matter of course, as well as automatic defrosting
- Controllable via Modbus
- Control via WiFi app
- Units with solar exchanger (Suffix - S) - upon request

Model SWH-		190P / 190PS	300P / 300PS
Mode		Compressor / el. heater / hybrid	
Operating temperature range	°C	-20 ~ 43	
Output water temperature	°C	38 ~ 70	
Power supply	V / Ph / Hz	220-240 / 1 / 50	
Water heating capacity - compressor	kW	1,7	2,1
COP (A7W54)	-	3,14	3,1
Max. power input	kW	2,24	2,4
Max. current	A	12	13
Energy class	-	A+	
Unit dimension (D x H)	mm	ø560x1745	ø650x1895
Package dimension (W x H x D)	mm	675x655x1945	750x720x2210
Weight Net/Gross	kg	91/112	128/148
Sound pressure level at 1m	dB (A)	45	
Sound power level	dB (A)	56	
Refrigerant	type / charge (g) / t Eq. CO <sub>2</sub>	R290 / 150 / 0,00045	
Air flow volume	m <sup>3</sup> /h	350	450
Water inlet pipe	inch	upon request	
Water outlet pipe	inch		
Solar water inlet pipe	inch		
Solar water outlet pipe	inch		
Solar coil surface	m <sup>2</sup>		
Solar coil material	-		
E-heater Capacity	kW	1,64	
Water tank volume	l	185 / -	285 / -
Tank material	-	Enamel	

The specification of products is subject to change based on the further development of the units by the producer and can be changed without prior notice. Refer to the rating label.  
 R290 (100% CH<sub>3</sub>CH<sub>2</sub>CH<sub>3</sub>). GWP value of the refrigerant used: 3.  
 This equipment contains fluorinated greenhouse gases covered by the Kyoto Protocol.  
 Explanatory notes on the last page of the catalogue.  
 The cross-section of the individual conductors must be chosen with respect to IEC 60364.



# MONOBLOC WALL-MOUNTED WATER HEATER



## FEATURES

- Compact design
- Wall-mountable
- Water connection from the underside
- Air connection from the top
- R290 refrigerant



Model SWH-		80P	100P	150P
Mode		Compressor / el. heater / hybrid		
Operating temperature range	°C	-20 ~ 43		
Output water temperature	°C	38 ~ 70		
Power supply	V / Ph / Hz	220-240 / 1 / 50		
Water heating capacity - compressor	kW	0,95	0,98	1,3
COP (A7W54)	-	3,8	3,8	3,7
Max. power input	kW	1,95	1,95	2,25
Max. current	A	9	9	10,5
Energy class	-	A+		
Unit dimension (D x H)	mm	φ500×1195	φ500×1357	φ500×1707
Package dimension (W x H x D)	mm	620×1320×585	620×1465×585	620×1785×585
Weight Net/Gross	kg	56/62	61/68	80/87
Sound pressure level at 1m	dB (A)	43		45
Sound power level		54		56
Refrigerant	type / charge (g) / t Eq. CO <sub>2</sub>	R290 / 150 / 0,00045		
Air flow volume	m <sup>3</sup> /h	190	200	240
Water inlet pipe	inch	1/2"		
Water outlet pipe				
E-heater Capacity	kW	1,5		
Water tank volume	l	78	98	145
Tank material	-	Enamel		

The specification of products is subject to change based on the further development of the units by the producer and can be changed without prior notice. Refer to the rating label.  
 R290 (100% CH<sub>3</sub>CH<sub>2</sub>CH<sub>3</sub>). GWP value of the refrigerant used: 3.  
 This equipment contains fluorinated greenhouse gases covered by the Kyoto Protocol.  
 Explanatory notes on the last page of the catalogue.  
 The cross-section of the individual conductors must be chosen with respect to IEC 60364.





## SPLIT UNITS



Set of outdoor unit  
and enamel hot water tank  
with a capacity of 185 litres

**The water heater with air heat pump is  
a modern, efficient, energy-saving and  
environmentally friendly product.**



# SPLIT UNITS

## FEATURES

- Closed circuit of the refrigerant piping system. There is no risk of contamination of the service water with the refrigerant
- The refrigerant piping is wrapped inside the tank
- The heater control is a wall controller in English, which is standard
- 3 year warranty



SWH-35ERA2



SWH-200DE



OUTDOOR UNIT		SWH-35ERA2	
Heating Capacity	kW	3,50 (1,80-3,70)	
Rated Input Power (*)	kW	0,83 (0,36-0,91)	
COP (*)	-	4,1	
Load profile	-	L	
COP DHW (**)	-	3,08 / 3,76	
Energy class (**)	-	A+	
Water Heating Energy Efficiency	-	1,3	
Annual electricity consumption (average climate conditions)	kWh	795	
Maximum Input Power	W	2,0 + 1,5 (electric heater)	
Outlet Water Temperature	°C	35-55	
Power Supply	V / Ph / Hz	220-240 / 1 / 50	
Insulation Level	-	I	
Protection of Ingression	-	IPX4	
Refrigerant	Type	R410A	
	Charge	kg / t Eq. CO <sub>2</sub>	1,40 / 2,92
Dimension (W x D x H)	Unit	mm	
	Package	mm	
Gross / Net Weight	kg	44,5/38,5	
Sound Power Level (***)	dB (A)	63	
Operating Range	°C	-25-45	
Standard pipe length	m	10	
Max. pipe length	m	20	
Max. elevation	m	5	
Additional refrigerant (over 10m pipe length)	g/m	22	

INDOOR UNIT		SWH-200DE	
Tank volume	l	185	
Power Supply to E-heater	V / Ph / Hz	220-240 / 1 / 50	
E-heater capacity	W	1500	
Dimension (W x D x H)	Unit	mm	
	Package	mm	
Gross / Net Weight	kg	83 / 72,5	
Pipe diameter (refrigerant)	Liquid pipe	mm	
	Gas pipe	mm	
Water Pipe Outlet	mm	12,7 (DN1/2)	
Tank material	-	enamel	

(\*) Value obtained with the following conditions: Outdoor temperature: 20°C DB / 15°C WB; Water tank temperature (start / end): 15°C / 55°C.

(\*\*) Value obtained with an air temperature of 7°C and a water inlet at 10°C, as per EN16147-2011, (EU) No 814 / 2013.

(\*\*\*) Value obtained as per EN 12102-2008.

The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R410 (50% HFC-32, 50% HFC-125), GWP of refrigerant used: 2088. Sound pressure level is tested in a soundless chamber, actual values may be affected by local conditions.

## DOMESTIC HOT WATER TANKS

### FEATURES

- Compatible with S-therm Ontario or Yukon heat pumps
- For the preparation and subsequent distribution of hot water
- Standing compact design
- Integrated heat exchanger

### STAINLESS STEEL

- High performance stainless steel heat exchanger
- Highly efficient PU insulation
- Integrated 1,5 kW DHW e-heater
- Construction in recycled polymeric materials
- Heat exchanger with an area of 2.6 m<sup>2</sup>

ST-300DS TANK WITH A VOLUME OF 270 LITERS

### ENAMEL

- Enameled heat exchanger
- Magnesium anode rod - protection against galvanic and electrolytic corrosion
- Possibility of direct installation of el. heaters with an output of 3,3 kW
- Flange for installation of additional solar heat exchanger or electric heating
- Outer finish: gray leather
- PU foam insulation with a thickness of 50 mm

ST-250DE TANK WITH A VOLUME OF 234 LITERS

ST-300DE TANK WITH A VOLUME OF 286 LITERS

ST-400DE TANK WITH A VOLUME OF 352 LITERS

ST-500DE TANK WITH A VOLUME OF 469 LITERS



## ACCUMULATION TANKS

### FEATURES

- Possible to connect with Sinclair Ontario or Yukon series
- For the accumulation and subsequent distribution of heating water
- Free-standing compact design
- Possibility of direct installation of el. heaters up to 3 or 6 kW
- Outer finish: gray PVC cover
- PU foam insulation with a thickness of 57 mm

AKU ST 50 S STEEL TANK WITH A VOLUME OF 58 LITERS

AKU ST 150 S STEEL TANK WITH A VOLUME OF 150 LITERS

AKU ST 300 S STEEL TANK WITH A VOLUME OF 284 LITERS





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