V025/26-EN-01

... close
to your heart

# AIR TO WATER HEAT PUMPS CATALOGUE 2026

sinclair
HEAT PUMPS


quality enhances
partnership
PARTNER
SINCLAIR
GLOBAL
GROUP

# 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.


## 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.

## CONTENT



S-THERM

# 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 $CO_2$ 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.

## 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

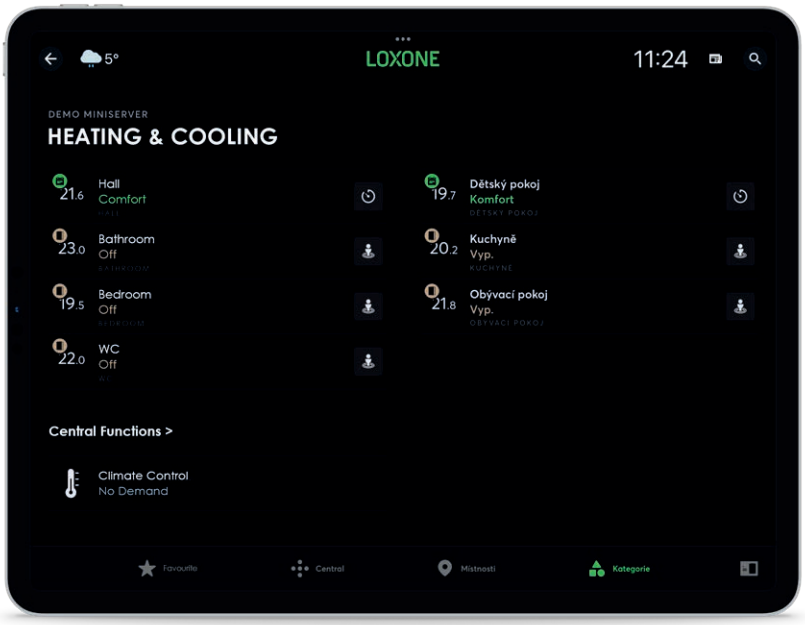
You can easily manage who is authorized to change settings at any time.

## 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.


Lear more on
www.loxone.com

# 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


# 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 ºC.

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 to140 kW.

S-THERM

S-THERM YUKON RECEIVED KEYMARK CERTIFICATION

# 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.

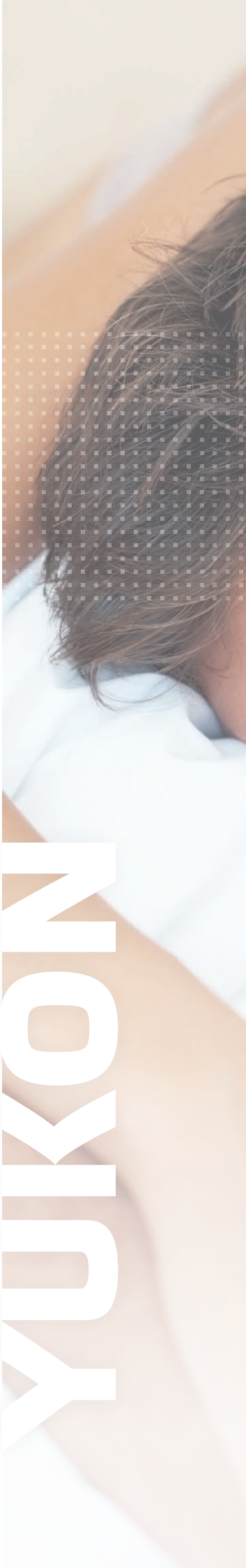
## ENVIRONMENTALLY FRIENDLY REFRIGERANTS

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.

ECOLOGICAL REFRIGERANT R32

R290 NATURAL REFRIGERANT

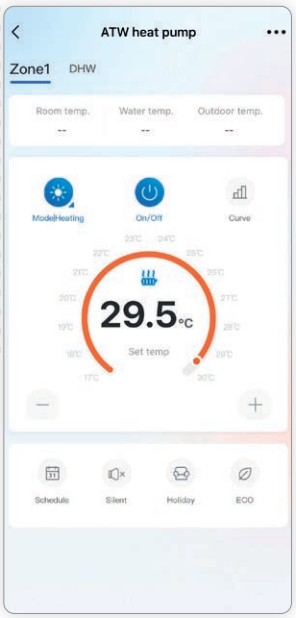



S-THERM

# 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

Download on the App Store

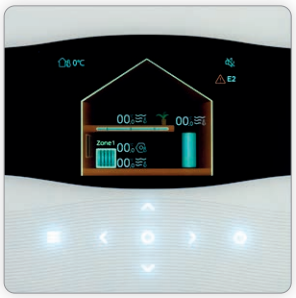
GET IT ON Google Play

## CONTROLLER

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


WIFI

Controller for units with R32 refrigerant



WIFI

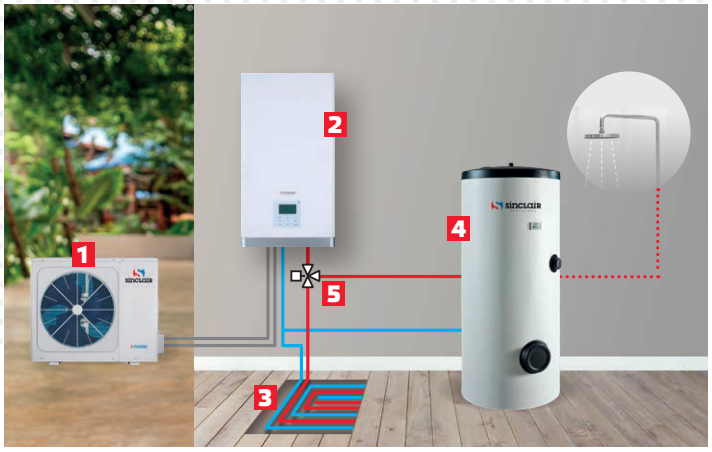
Controller for R290 refrigerant units

## MODES

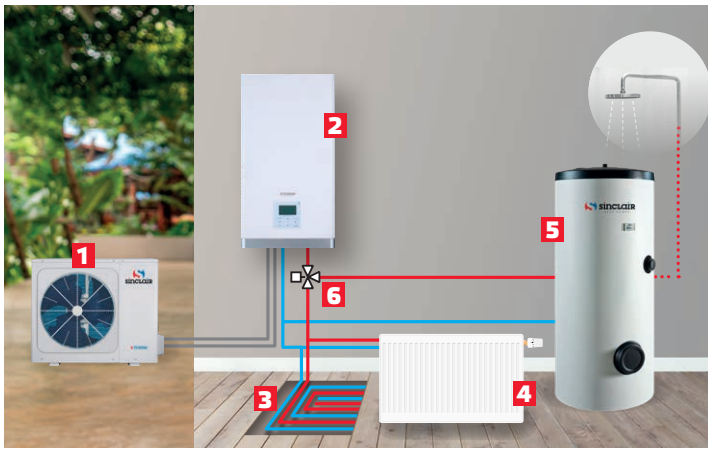
- Heating and cooling
- DHW heating
- Cooling + DHW heating
- Heating + DHW heating
- Safe mode
- Silent mode (2 levels)
- Fast hot water
- Holiday mode (2 Types)
- Disinfection mode
- Equithermal mode

S-THERM

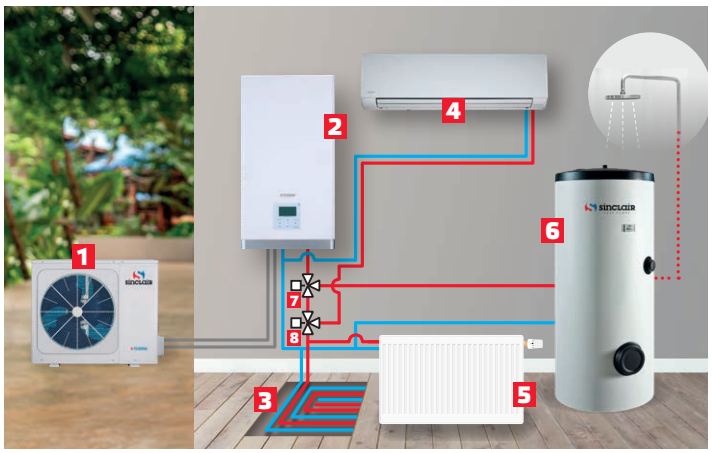
# EXAMPLES OF CONNECTION FOR HEATING SYSTEM WITH HYDROBOX




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

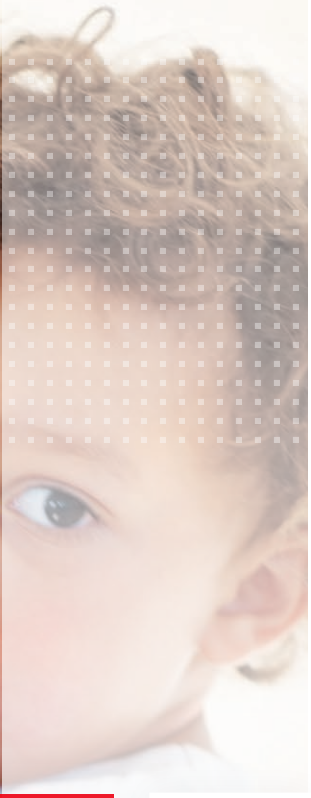



1 Outdoor unit
2 Hydrobox (indoor unit)
3 Floor heating
4 Fan Coil
5 Radiator
6 Domestic hot water storage tank
7 Three-way valve for heating/DHW- optional
8 Three-way valve for heating/Cooling- optional

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 ºC IS AVAILABLE.

**Unit works efficiently in temperatures down to -25 ºC. 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.

S·THERM

S-THERM YUKON RECEIVED KEYMARK CERTIFICATION

# 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-3/9 | MSH-80EB |
| MSH-100IB-3/9 | MSH-100EB |
| MSH-160IB-3/9 | MSH-120EB-3 |
| MSH-160IB-3/9 | MSH-140EB-3 |
| MSH-160IB-3/9 | MSH-160EB-3 |
| MSH-60IB/3 | MSH-60EBB |
| MSH-100IB-3/9 | MSH-80EBB |
| MSH-100IB-3/9 | MSH-100EBB |
| MSH-160IB-3/9 | MSH-120EB-3B |
| MSH-160IB-3/9 | MSH-140EB-3B |
| MSH-160IB-3/9 | MSH-160EB-3B |

WIFI

works with Loxone

| Model MSH- | | | | 60IB/3 | 100IB/3<br>100IB-3/9 | 160IB/3<br>160IB-3/9 |
|---|---|---|---|---|---|---|
| Power supply | | | V / Ph / Hz | 220-240 / 1 / 50 | 220-240 / 1 / 50 / 380-415 / 3 / 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 | - | Inverter | | |
| | | Speed | - | Automatic | | |
| | | Max. power | W | 90 | | |
| | Expansion vessel | Volume | l | 8 | | |
| | | Max. pressure | bar | 3 | | |
| | | Pressure | bar | 1 | | |
| | Auxilary electric heater | Mode | - | Automatic | | |
| | | Capacity | kW | 3 | 9 | |
| | | Combination | - | 3 | 3+3+3 | |
| | | Power supply | V / Ph / Hz | 220-240 / 1 / 50 | 220-240/1/50 / 380-415/3/50 | |
| | Exchanger | Type | - | Plate | | |
| | | Amount | - | 1 | | |
| Level of acoustic pressure in 1m | | | dB (A) | 28 | 30 | 32 |
| Dimensions | | Outline (w × h × d) | mm | 420×790×270 | | |
| | | Packaged (w × h × d) | | 525×1050×360 | | |
| Weight | | Netto | kg | 37 | | 39 |
| | | Brutto | | 43 | | 45 |

S-THERM

# 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)
- Now also available in anthracite design
- 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

MSH-xxxEBB
MSH-xxxEB-3B

MSH-xxxEB(-3)


| Model MSH- | | | | 60EB(B) | 80EB(B) | 100EB(B) | 120EB-3(B) | 140EB-3(B) | 160EB-3(B) |
|---|---|---|---|---|---|---|---|---|---|
| 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 × h × d | mm | 1008×712×426 | 1118×865×523 | | | | |
| | Package Dimension | w × h × d | mm | 1065×810×485 | 1190×970×560 | | | | |
| | 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.

DC INVERTER

ECOLOGICAL REFRIGERANT R32


smart world
Sinclair

# 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.

WIFI

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

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

## 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.

S-THERM

S-THERM YUKON RECEIVED KEYMARK CERTIFICATION

YUKON

# 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-190TB-3/9 | MSH-80EB |
| MSH-190TB-3/9 | MSH-100EB |
| MSH-240TBL/3 | MSH-60EB |
| MSH-240TBL/3 | MSH-80EB |
| MSH-240TBL/3 | MSH-100EB |
| MSH-240TB-3/9 | MSH-120EB-3 |
| MSH-240TB-3/9 | MSH-140EB-3 |
| MSH-240TB-3/9 | MSH-160EB-3 |
| MSH-190TB/3 | MSH-60EBB |
| MSH-190TB-3/9 | MSH-80EBB |
| MSH-190TB-3/9 | MSH-100EBB |
| MSH-240TBL/3 | MSH-60EBB |
| MSH-240TBL/3 | MSH-80EBB |
| MSH-240TBL/3 | MSH-100EBB |
| MSH-240TB-3/9 | MSH-120EB-3B |
| MSH-240TB-3/9 | MSH-140EB-3B |
| MSH-240TB-3/9 | MSH-160EB-3B |

WIFI

works with Loxone

YUKON

| 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 | W | 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 | | | 9 | |
| | | Combination | - | 3 | | | 3+3+3 | |
| | | Power supply | V / Ph / Hz | 220 - 240 / 1 / 50 | | | 380 - 415 / 3 / 50 | |
| | Heat exchanger | Type | - | Brazed plate | | | | |
| | | Amount | - | 1 | | | | |
| Level of acoustic pressure in 1m | | | dB (A) | 29 | | | | |
| Dimensions | | Outline (w × h × d) | mm | 600×600×1683 | 600×600×1943 | | 600×600×1683 | 600×600×1943 |
| | | Packaged (w × h × d) | mm | 730×730×1920 | 730×730×2180 | | 730×730×1920 | 730×730×2180 |
| Weight | | Weight | Netto | 140 | 157 | | 140 | 157 |
| | | Brutto | kg | 161 | 178 | | 161 | 178 |

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

S-THERM

# OUTDOOR UNITS

## FEATURES

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- 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

MSH-xxxEBB
MSH-xxxEB-3B

MSH-xxxEB(-3)


| Model MSH- | | | | 60EB(B) | 80EB(B) | 100EB(B) | 120EB-3(B) | 140EB-3(B) | 160EB-3(B) |
|---|---|---|---|---|---|---|---|---|---|
| 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 × h × d | mm | 1008×712×426 | 1118×865×523 | | | | |
| | Package Dimension | w × h × d | mm | 1065×810×485 | 1190×970×560 | | | | |
| | 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.

DC INVERTER

ECOLOGICAL REFRIGERANT R32

powerful world
Sinclair

# MONOBLOC UNITS

YUKON

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)**

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

## 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 ºC, thanks to the intermediate refrigerant injection

S-THERM

S-THERM YUKON RECEIVED KEYMARK CERTIFICATION

# 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)

WIFI

works with Loxone

| 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 | | | | | | | |
| Water temperatures range | | Heating | °C | 25 - 65 | | | | | |
| | | Cooling | °C | 5 - 25 | | | | | |
| Main components | Water pump | Max. water flow | m³/h | 4,5 | | | | | |
| | | Power input | W | 95 | | | | | |
| | Water flow switch | Minimum flow | m³/h | 0,4 | | | 0,7 | | |
| | Expansion tank | Volume | l | 8 | | | | | |
| | | Maximum pressure | Bar | 3 | | | | | |
| | | Precharged pressure | Bar | 1 | | | | | |
| | Electric heater | Mode | - | Automatic | | | | | |
| | | Steps | - | 1 | | | 3 | | |
| | | Capacity | kW | 3 | | | 9 | | |
| | | Combination | kW | 3 | | | 3/6/9 | | |
| | | Power supply | V/Ph/Hz | 220-240/1/50 | | | 220-240/1/50 / 380-415/3/50 | | |
| | | Possible capacities | kW | none or 3 | | | none or 3 / none or 9 | | |
| | Heat exchanger | Type | - | Plate type | | | | | |
| | | Quantity | - | 1 | | | | | |
| | Safety valve | Pressure | bar | 3 | | | | | |
| Level of acoustic pressure LpA | | 1 m | dB | 47,5 | 48,5 | 50,5 | 53,5 | 54 | 58 |
| Unit Dimension | | w × h × d | mm | 1295×718×429 | 1385×865×526 | | | | |
| Package Dimension | | w × h × d | mm | 1375×885×475 | 1465×1035×560 | | | | |
| 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.

S-THERM

# 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 ºC to 60 ºC
- Cascade connection with a maximum output of up to 180 kW - up to 6 pumps can be connected

WIFI

works with Loxone

| 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 ºC / 35 ºC) | - | A++ / A+++ | | | |
| SCOP | | Heating (55 ºC / 35 ºC) | - | 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 | ºC | 25 - 60 | | | |
| | | Cooling | ºC | 5 - 25 | | | |
| Main components | Water pump | Max. water flow | $m^3/h$ | 6 | | | |
| | | Power | W | 305 | | | |
| | Water flow switch | Minimum flow | $m^3/h$ | 1,6 | | | |
| | Expansion tank | Volume | l | 8 | | | |
| | | Maximum pressure | Bar | 3 | | | |
| | | Precharged pressure | Bar | 1 | | | |
| | Electric heater | Mode | - | - | | | |
| | | Steps | - | | | | |
| | | Capacity | kW | | | | |
| | | Combination | kW | | | | |
| | | Power supply | V/Ph/Hz | | | | |
| | Heat exchanger | Type | - | Brazed plate | | | |
| | | Amount | - | 1 | | | |
| | Safety valve | Pressure | bar | 3 | | | |
| Level of acoustic pressure LpA | | 1 m | dB | 57,6 | 59,8 | 61,5 | 63,5 |
| Unit Dimension | | w × h × d | mm | 1129×1558×528 | | | |
| Package Dimension | | w × h × d | mm | 1220×1735×565 | | | |
| Weight | | Netto/Brutto | kg | 177 / 206 | | | |
| Operating temperature range | | Cooling | ºC | -5~46 | | | |
| | | Heating | ºC | -25~35 | | | |
| | | Water heating | ºC | -25~43 | | | |

CAPACITIES AND POWER INPUTS ARE BASED ON THE FOLLOWING CONDITIONS:

COOLING conditions: Indoor Water Temperature 23 ºC / 18 ºC. Outdoor Air Temperature 35 ºC DB / 24 ºC WB.
HEATING conditions: Indoor Water Temperature 30 ºC / 35 ºC. Outdoor Air Temperature 7 ºC DB / 6 ºC 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


powerful world
Sinclair

# COMMERCIAL MONOBLOC UNITS

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

YUKON

S-THERM

# COMMERCIAL MONOBLOC UNITS

## 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 (55ºC / 35ºC) | - | 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 | ºC | 25-65 | | | |
| | Cooling | ºC | 5-20 | | | |
| Water flow switch | Min. water flow | $m^3/h$ | 3 | | 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 × h × d | mm | 2000×1770×960 | | 2220×2300×1135 | |
| Package dimensions | w × h × d | mm | 2085×1890×1030 | | 2250×2445×1180 | |
| Weight | Net/Gross | kg | 440 / 455 | | 670 / 690 | |
| Operating temperature range | Cooling | ºC | -15~48 | | | |
| | Heating | ºC | -25~43 | | | |
| | DHW | ºC | -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 ºC / 18 ºC. Outdoor Air Temperature 35 ºC DB / 24 ºC WB.
HEATING conditions: Indoor Water Temperature 30 ºC / 35 ºC. Outdoor Air Temperature 7 ºC DB / 6 ºC 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.

S-THERM

# COMMERCIAL MONOBLOC UNITS

## 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 |
| EER | Cooling | - | 3,75 | 3,72 | 3,8 | 3,8 |
| SCOP | Heating (55ºC / 35ºC) | - | 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 | ºC | 25 - 65 | | | |
| | Cooling | ºC | 5 - 20 | | | |
| Water pump | Power input | kW | 1,78 | | 0,93 | |
| Water flow switch | Min. water flow | $m^3/h$ | 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 × h × d | mm | 2000×1770×960 | | 2220×2300×1135 | |
| Package dimensions | w × h × d | mm | 2085×1890×1030 | | 2250×2445×1180 | |
| Weight | Net/Gross | kg | 475 / 490 | | 746 / 767 | |
| Operating temperature range | Cooling | ºC | -15~48 | | | |
| | Heating | ºC | -25~43 | | | |
| | DHW | ºC | -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 ºC / 18 ºC. Outdoor Air Temperature 35 ºC DB / 24 ºC WB.
HEATING conditions: Indoor Water Temperature 30 ºC / 35 ºC. Outdoor Air Temperature 7 ºC DB / 6 ºC 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.

ECOLOGICAL REFRIGERANT R32


friendly world
Sinclair

R290
NATURAL
REFRIGERANT

# MONOBLOC UNITS

YUKON

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, 35 and 40 kW (3-phase)**

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.

## 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 ºC, thanks to the intermediate refrigerant injection
- High output temperatures up to 75 ºC for monoblocks up to 16 kW and up to 85 ºC for monoblocks 26, 30, 35 and 40 kW

S-THERM

S-THERM YUKON RECEIVED KEYMARK CERTIFICATION

# MONOBLOC UNITS 6-16 kW

## 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 ºC to 75 ºC
- Integrated electric power heater 3 or 9 kW
- **New design**
- **New display**


WIFI

works with Loxone

| 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 (55ºC / 35ºC) | - | A++ / A+++ | | | | | |
| SCOP | | Heating (55ºC / 35ºC) | - | 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 | ºC | 12~75 | | | | | |
| | | Cooling | ºC | 5~30 | | | | | |
| | | DHW | ºC | 30~60 | | | | | |
| Main components | Water pump | Water flow range | $m^3/h$ | 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 | $m^3/h$ | 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 × h × d | mm | 1299×717×426 | 1385×865×523 | | | | |
| Package dimension | | w × h × d | mm | 1375×885×475 | 1465×1035×560 | | | | |
| Weight | | Net/Gross | kg | 90/110 | 117/139 | | 142/164 | | |
| Operating temperature range | | Cooling | ºC | -5~43 | | | | | |
| | | Heating | ºC | -25~35 | | | | | |
| | | Water heating | ºC | -25~46 | | | | | |

SMHM-xxxP(-3)/3(9) - unit with e-heater
SMHM-xxxP(-3) - unit without e-heater

S-THERM

# MONOBLOC UNITS
# 26, 30, 35 AND 40 kW

## 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 ºC to 85 ºC
- Cascade connection of up to 6 units
- **New design**
- **New display**

WIFI

works with Loxone

| Model SMHM- | | | | 260P-3 | 300P-3 | 350P-3 | 400P-3 |
|---|---|---|---|---|---|---|---|
| Suitable for building heat loss | | | kW | 22-26 | 26-30 | 30-35 | 35-39 |
| Power supply | | | V/f/Hz | 380-415/3/50 | | | |
| Capacity | | Heating | kW | 26 | 30 | 35 | 39 |
| | | Cooling | kW | 26 | 30 | 35 | 39 |
| Power input | | Heating | kW | 5,45 | 6,9 | 8,4 | 9,75 |
| | | Cooling | kW | 5,6 | 6,8 | 8,5 | 9,85 |
| COP | | Heating | - | 4,77 | 4,50 | 4,17 | 4 |
| EER | | Cooling | - | 4,64 | 4,41 | 4,12 | 3,96 |
| Energy class | | Heating (55ºC / 35ºC) | - | A+++/A+++ | A++/A+++ | | A++/A++ |
| SCOP | | Heating (55ºC / 35ºC) | - | 3,84/4,95 | 3,79/4,92 | 3,63/4,48 | 3/3,84 |
| Max. current | | | A | 28 | 30 | 31 | 31 |
| Refrigerant | | Type | - | R290 | | | |
| | | Charge | kg | 2,9 | | | |
| Water pipes | | Inlet | inch | 5/4" | | | |
| | | Outlet | | | | | |
| Water temperatures range | | Heating | ºC | 25~85 | | | |
| | | Cooling | ºC | 5~25 | | | |
| Main components | Water pump | Max. water flow | $m^3/h$ | 5,4 | 6,2 | 7,2 | 8,1 |
| | Water flow-switch | Min. water flow | $m^3/h$ | 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 | 63,1 |
| Unit dimensions | | w × h × d | mm | 1384×1816×523 | | | |
| Package dimension | | w × h × d | mm | 1480×2000×570 | | | |
| Weight | | Net/Gross | kg | 260/285 | | | |
| Operating temperature range | | Cooling | ºC | -15~48 | | | |
| | | Heating | ºC | -25~43 | | | |
| | | Water heating | ºC | -25~43 | | | |

Capacities and power inputs are based on the following conditions:

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

HEATING conditions: Indoor Water Temperature 30 ºC / 35 ºC. Outdoor Air Temperature 7 ºC DB / 6 ºC 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% $CH_3CH_2CH_3$). 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

R290 NATURAL REFRIGERANT

# 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 50 kW, 60 kW and 70 kW.**

## UNITS WITH HIGH PERFORMANCE AND EFFICIENCY

- Option for modular connection
- Interconnection of up to 16 modules
- Environmentally friendly R290 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

S-THERM

# COMMERCIAL MONOBLOC UNITS

NEW

## VLASTNOSTI

- Possibility of modular connection
- Up to 8 units can be connected to a single controller
- 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

| Model SMHM- | | | 500P-3 | 600P-3 | 700P-3 |
|---|---|---|---|---|---|
| Capacity | Heating | kW | 50 | 60 | 70 |
| | Cooling | kW | 50 | 60 | 65 |
| Power input | Heating | kW | 10,64 | 13,95 | 17,50 |
| | Cooling | kW | 15,15 | 20,00 | 23,21 |
| COP | Heating | - | 4,7 | 4,3 | 4,0 |
| EER | Cooling | - | 3,00 | 3,00 | 2,80 |
| SCOP | Heating (55ºC / 35ºC) | - | 3,76 / 4,50 | 3,85 / 4,60 | 3,90 / 4,70 |
| Power supply | | V/Ph/Hz | 380-415 / 3 / 50 | | |
| Max. current | | A | 70 | | |
| Refrigerant | Type | - | R290 | | |
| | Charge | kg | 5,6 | | |
| Water pipes | Inlet | mm | DN50 | | |
| | Outlet | | | | |
| Water temperatures range | Heating | ºC | 25~70 (25~85)2 | | |
| | Cooling | ºC | 5~25 (-5~25)1 | | |
| Water flow switch | Min. water flow | $m^3/h$ | 1,8-10,3 | 1,8-12,4 | 1,8-14,4 |
| Heat exchanger | Type | - | Plate heat exchanger | | |
| | Amount | - | 1 | | |
| Safety valve | Pressure | bar | 6 | | |
| Sound pressure level LpA | 1 m | dB | 63,4 | 67,6 | 69,5 |
| Unit dimensions | w × h × d | mm | 2000×960×1880 | | |
| Package dimensions | w × h × d | mm | 2085×1030×2050 | | |
| Weight | Net/Gross | kg | 560 / 585 | | |
| Operating temperature range | Cooling | ºC | -15~48 | | |
| | Heating | ºC | -25~43 | | |
| | DHW | ºC | -25~43 | | |

Models SMHM-500P-3, SMHM-600P-3, and SMHM-700P-3 do not include a circulation pump.

1. Unit operating in specific Low Temperature Mode
2. Unit operating in specific High Temperature Mode

a. Cooling: Water temperature at evaporator inlet/outlet: 23/18 ºC, air temperature 35 ºC DB.
b. Heating: Water temperature at evaporator inlet/outlet: 30/35 ºC, air temperature 7 ºC DB / 6 ºC WB.
c. Sound pressure: Measured 1 meter in front of the unit in an open space.

Product technical specifications may vary from the stated values due to ongoing development by the manufacturer. Always refer to the data on the unit's nameplate.
R290 (100% CH3CH2CH3). GWP value of the refrigerant used: 3.
This equipment contains fluorinated greenhouse gases covered by the Kyoto Protocol.
Explanatory notes can be found on the last page of the catalogue.
The cross-section of individual conductors must be selected in accordance with IEC 60364.

DC INVERTER

R290 NATURAL REFRIGERANT


a frugal world
Sinclair

ONTARIO

# 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 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 or renovating an older buildings.

### 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.

S-THERM

S-THERM ONTARIO
RECEIVED
KEYMARK
CERTIFICATION

# 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 ºC 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

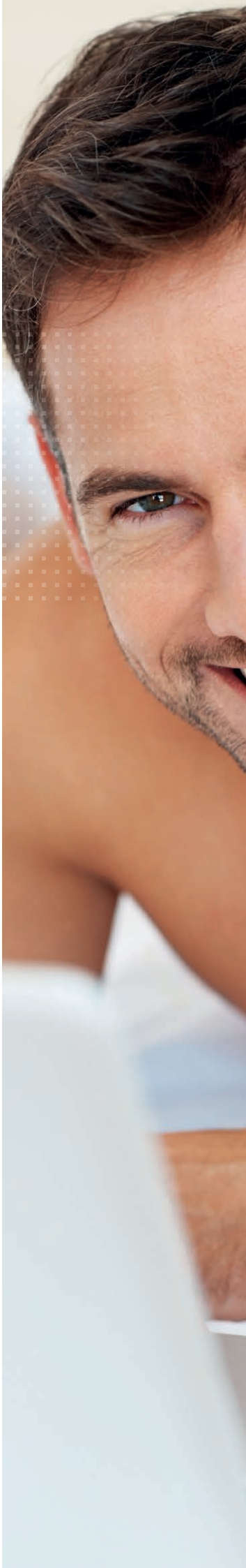
To save energy, you can lower the room temperature in your absence.

### 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

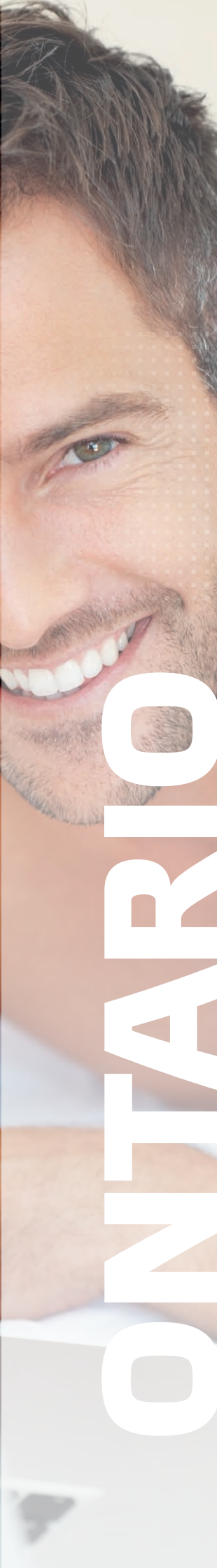


S-THERM

### KEYMARK CERTIFICATION

Ontario Series heat pumps earned Keymark certification in 2023.

# REMOTE CONTROL




## TOUCH CONTROLLER

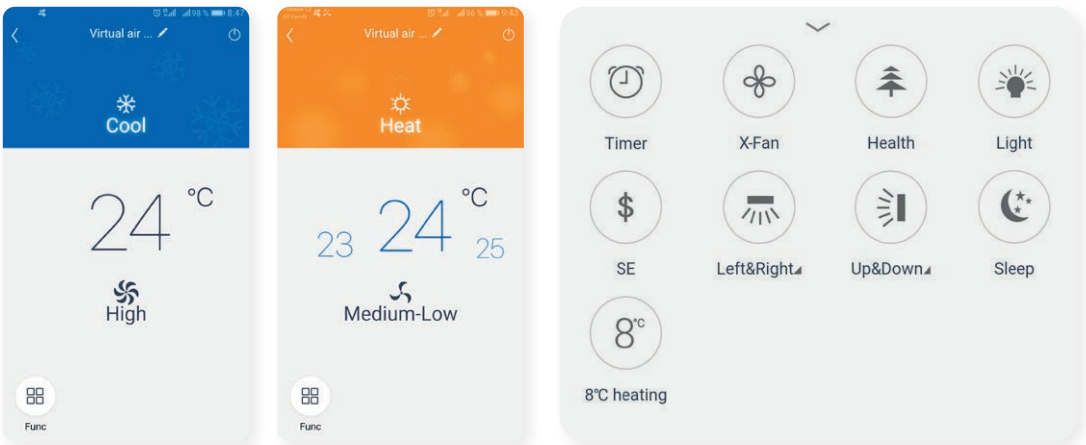
Control of S-therm heat pumps Ontario is done by a touch-sensitive controller, which is located indoors. The control is user-friendly and in the multiple languages.


## 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.

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WIFI


healthy world
Sinclair

# 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

S-THERM ONTARIO RECEIVED KEYMARK CERTIFICATION

# 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

WIFI

works with Loxone

| 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 | | | | 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 | °C | 20-60 | | | | | | |
| 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 × h × d) | | mm | 650×600×1800 | | | | | | |
| | Packaged (w × h × d) | | mm | 803×703×2035 | | | | | | |
| Weight | Netto | | kg | 195 | | | | | | |
| | Brutto | | kg | 219 | | | | | | |

S-THERM

ONTARIO

# 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 | 61 | |
| | 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<br>3,2/4,6 | 3,2/4,6<br>3,5/4,7 | 3,5/4,6<br>3,2/4,5 | 3,5/4,7<br>3,4/4,5 | 3,5/4,5<br>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 × h × d | mm | 975×702×396 | | 982×787×427/982×787×395 | | | 940×820×460 | |
| | Package Dimension | w × h × d | mm | 1028×830×458 | | 1097×937×478/1094×917×474 | | | 1103×973×573 | |
| | 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.

DC INVERTER

ECOLOGICAL REFRIGERANT R32


modern world
Sinclair

# MONOBLOC UNITS


ONTARIO

## 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 naturesaving 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 ºC, thanks to the added economizer and intermediate stage refrigerant injection

S-THERM

S-THERM ONTARIO RECEIVED KEYMARK CERTIFICATION

# MONOBLOC UNITS
# 4TH 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 ºC to 60 ºC
- High efficiency
- Silent mode


works with Loxone

| Model SMH- | | | | 100IRB2/100IRB2-3 | 120IRB2/120IRB2-3 | 140IRB2/140IRB2-3 | 160IRB2/160IRB2-3 |
|---|---|---|---|---|---|---|---|
| Suitable for building heat loss | | | kW | 8-10 | 11-12 | 13 | 14-16 |
| Capacity | | Heating | kW | 10 | 12 | 14 | 15,5 |
| | | Cooling | kW | 8,8 | 11 | 12,5 | 14,5 |
| Power input | | Heating | kW | 2,15 | 2,64 | 3,22 | 3,6 |
| | | Cooling | kW | 1,96 | 2,56 | 3,05 | 3,82 |
| COP | | Heating | - | 4,65 | 4,55 | 4,35 | 4,35 |
| EER1 | | Cooling | - | 4,5 | 4,2 | 4 | 4 |
| Energy class | | Heating (55ºC / 35ºC) | - | A++/A+++ | A++/A+++ | A++/A++ | A++/A++ |
| SCOP | | Heating (55ºC / 35ºC) | - | 3,2/4,5<br>3,2/4,5 | 3,2/4,5<br>3,3/4,5 | 3,2/4,32<br>3,2/4,3 | 3,2/4,2<br>3,3/4,2 |
| Power supply | | | V/Ph/Hz | 220-240/1/50 / 380-415/3/50 | | | |
| Max. power input | | | kW | 5,3/2,8 | 5,8/2,8 | 7,8/2,8 | 7,8/2,8 |
| Max. current | | | A | 23/12 | 25/12 | 34/12 | 34/12 |
| Refrigerant | | Type | - | R32 | | | |
| | | Charge | kg | 2,2 | | | |
| Water pipes | | Inlet | mm | DN25 | | | |
| | | Outlet | mm | | | | |
| Water temperatures range | | Heating | ºC | 20-60 | | | |
| | | Cooling | ºC | 7-25 | | | |
| Main components | Water pump | Max. water flow | m3/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 | 61 | | | |
| Unit dimensions | | w × h × d | mm | 1200×460×879 | | | |
| Package dimension | | w × h × d | mm | 1288×588×1020 | | | |
| Weight | | Net/Gross | kg | 151/166 | | | |
| Operating temperature range | | Cooling | ºC | 10~48 | | | |
| | | Heating | ºC | -25~35 | | | |
| | | Water heating | ºC | -25~45 | | | |

* Values belong to units with alternative designations.
The C-end units include a Shinhoo 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
# 5TH 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 ºC to 65 ºC
- High efficiency
- **Silent mode**
- **New design**
- **More powerful units**

works with Loxone


| Model SMH- | | | | 40IRBC | 60IRBC | 80IRBC/80IRBC-3 | 100IRBC/100IRBC-3 | 120IRBC/120IRBC-3 | 140IRBC/140IRBC-3 | 160IRBC/160IRBC-3 |
|---|---|---|---|---|---|---|---|---|---|---|
| Suitable for building heat loss | | | | 2-4 | 5-6 | 7 | 8-10 | 11-12 | 13 | 14-16 |
| 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 (55ºC / 35ºC) | - | A++/A+++ | | | | | | |
| SCOP | | Heating (55ºC / 35ºC) | - | 3,50/4,87 | 3,50/5,05 | 3,70/4,50<br>3,45/4,47 | 3,45/4,47<br>3,57/4,80 | 3,67/4,77<br>3,50/4,57 | 3,70/4,70<br>3,52/4,55 | 3,70/4,67<br>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 | | | | | | | |
| Water temperatures range | | Heating | ºC | 20-65 | | | | | | |
| | | Cooling | ºC | 7-25 | | | | | | |
| Main components | Water pump | Max. water flow | $m^3/h$ | 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 | $m^3/h$ | 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 | 3/3 |
| | | Maximum pressure | Bar | 3 | 3 | 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 | - | Brazed 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 × h × d | mm | 1150×735×365 | | 1206×878×445 | | | | |
| Package Dimension | | w × h × d | mm | 1258×503×900 | | 1338×553×1020 | | | | |
| Weight | | Netto | kg | 90 | | 120/134 | | 138/144 | | |
| | | Brutto | | 106 | | 139/152 | | 156/162 | | |
| Operating temperature range | | Cooling | ºC | -15~48 | | | | | | |
| | | Heating | ºC | -25~35 | | | | | | |
| | | Water heating | ºC | -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 23ºC / 18ºC; Outdoor Air Temperature 35ºCDB / 24ºCWB.
Heating conditions: Indoor Water Temperature 30ºC / 35ºC; Outdoor Air Temperature 7ºCDB / 6ºCWB

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

# SERIES COMPARISON

## MONOBLOC

more on page 21

more on page 43

| SERIES | YUKON | ONTARIO |
|---|---|---|
| Prize | ✓ | ✓ |
| Dimensions | ✓ | ✓ |
| Auxilary 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 | ✓ | × |

## MONOBLOC

more on page 13

more on page 37

| 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 | ✓ | ✓ |

S-THERM

more on page 17

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## ALL IN ONE

| SERIES | YUKON | ONTARIO |
|---|---|---|
| Prize | ✔ | ✔ |
| Dimensions - outdoor unit | ✔ | ✔ |
| Dimensions - indoor unit | ✔ | ✔ |
| Max. pipe lenght | ✔ (30 m) | ✔ (15-20 m) |
| Auxilary heater | ✔ (3-9 kW) | ✔ (3-6 kW) |
| DHW heating element | × (by auxilary 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) |

✔ 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 ºC–70 ºC
- Operating ambient temperature: -20 ºC–43 ºC
- 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 ºC, 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

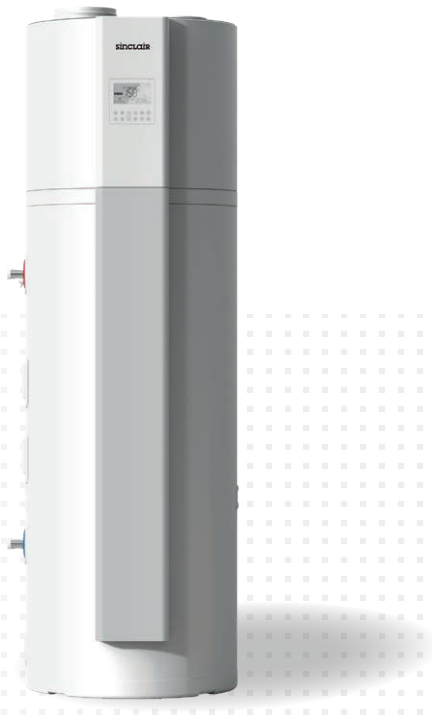
WIFI

| Model SWH- | | 190IRES2 | | 300IRE2/300IRES2 | |
|---|---|---|---|---|---|
| Mode | | Hybrid | E-heater | Hybrid | E-heater |
| Operating temperature range | ºC | -7 ~ 43 | -20 ~ 43 | -7 ~ 43 | -20 ~ 43 |
| Output water temperature | ºC | 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 | Ø610×1830 | | Ø700×1930 | |
| Package dimension (w × h × d) | mm | 680×2070×680 | | 775×2200×745 | |
| 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

R134a
REFRIGERANT

# 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 ºC to 43 ºC, 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 well as automatic defrosting
- Controllable via Modbus
- Control via WiFi app
- Units with solar exchanger (Suffix - S) - upon request

WIFI

| Model SWH- | | 190P(M) / 190PS | | 300P(M) / 300PS | |
|---|---|---|---|---|---|
| Mode | | Compressor / el. heater / hybrid | | | |
| Operating temperature range | ºC | -20 ~ 43 | | | |
| Output water temperature | ºC | 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 | 10 | | 14 | |
| Energy class | - | A+ | | | |
| Unit dimension (D x H) | mm | Φ560×1730 | | Φ660×1895 | |
| Package dimension (w × h × d) | mm | 675×655×1945 | | 775×745×2210 | |
| Weight Net/Gross | kg | 91/112 | 94/115 | 123/148 | 132/160 |
| Sound power level | dB (A) | 56 | 51 | 54 | 51 |
| Refrigerant | type / charge (g) / t Eq. $CO_2$ | R290 / 150 | | | |
| Air flow volume | $m^3/h$ | 350 | | 450 | |
| Water inlet pipe | inch | DN20 | | | |
| Water outlet pipe | inch | | | | |
| Solar water inlet pipe | inch | - | DN20 | - | DN20 |
| Solar water outlet pipe | inch | | | | |
| Solar coil surface | $m^2$ | - | 0,6 | - | 1,1 |
| Solar coil material | - | - | SUS 316 | - | SUS 316 |
| E-heater Capacity | kW | 1,64 | | | |
| Water tank volume | l | 185 / 181 | | 275 / 270 | |
| Tank material | - | Enamel | | | |

SWH-xxxP - with Impressed current anode
SWH-xxxPM - with magnesium anode

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.

R290 NATURAL REFRIGERANT

# MONOBLOC WALL-MOUNTED WATER HEATER

## FEATURES

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


WIFI

| Model SWH- | | 80P(M) | 100P(M) | 150P(M) |
|---|---|---|---|---|
| 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 | Φ500×1196 | Φ500×1360 | Φ500×1707 |
| Package dimension (w × h × d) | mm | 620×1295×585 | 620×1575×585 | 620×1910×585 |
| Weight Net/Gross | kg | 57/63 | 62/79 | 80/98 |
| Sound pressure level at 1m | dB (A) | 43 | | 45 |
| Sound power level | | 54 | | 56 |
| Refrigerant | type / charge (g) / t Eq. $CO_2$ | R290 / 150 / 0,00045 | | |
| Air flow volume | $m^3/h$ | 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 | | |

SWH-xxxP - with Impressed current anode
SWH-xxxPM - with magnesium anode

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.

R290 NATURAL REFRIGERANT

# HOT WATER HEATER
# SPLIT UNITS

NEW



Set of outdoor unit
and enamel hot water
tank with a capacity
of 200 or 300 litres

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

sinclair
HEAT PUMPS

# SPLIT UNIT

## 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
- Warranty 3 years

NEW

SWH-E20C

SWH-I200

SWH-I300

| OUTDOR UNIT | | | SWH-E20C |
|---|---|---|---|
| Heating power capacity | | kW | 2+2,1 |
| Input capacity | | kW | 1,2+2,1 |
| Energy class ** | | - | A+ |
| Outlet water temperature | | ºC | 38-70 |
| Power supply | | V / Ph / Hz | 220-240 / 1 / 50 |
| Refrigerant | Type | - | R454C |
| | Ammount | kg | 0,95 |
| Dimension (w × h × d) | Unit | mm | 804×327×555 |
| Weight (gross / net) | | kg | 29 |
| Sound power level (***) | | dB (A) | 60 |
| Temperature operating range | | ºC | -15-46 |
| Max. pipe length | | m | 30 |
| Max. elevation | | m | 20 |

| INDOOR UNIT | | | SWH-I200 | SWH-I300 |
|---|---|---|---|---|
| Tank volume | | l | 190 | 285 |
| Power Supply to E-heater | | V / Ph / Hz | 220-240 / 1 / 50 | 220-240 / 1 / 50 |
| E-heater Power capacity | | W | 2100 | 2100 |
| Dimension (w × h × d) | Unit | mm | 504×504×1661 | 580×580×1730 |
| Weight | gross | kg | 74 | 97 |
| Tank material | | | Enamel | Enamel |

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. Sound pressure level is tested in a soundless chamber, actual values may be affected by local conditions.
Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R454C (21,5% HFC-32, 78,5% HFO-1234yf), GWP of refrigerant used: 148.

R454C
REFRIGERANT

# 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

ST-250DS TANK WITH A VOLUME OF 250 LITERS

- A simple stainless steel tank with a volume of 250 liters
- Compatible with Yukon series
- Highly effective PU insulation
- Integrated electric hot water heater with a capacity of 1,5 kW
- High performance stainless steel heat exchanger
- Possibility to connect circulation

# 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

NOTES



S-THERM

SINCLAIR EQUIPMENT IS DELIVERED TO YOU BY:

SINCLAIR-WORLD.COM