



Reflection of the Sinclair world

turning air into energy

AIR TO WATER
HEAT PUMPS
CATALOGUE 2023

A man with a beard, wearing a dark suit and a blue bow tie, is looking at a tablet computer. He is in a restaurant or bar setting, with blurred lights and a lamp in the background. A semi-transparent blue box with a grid pattern is overlaid on the left side of the image.

quality enhances
partnership

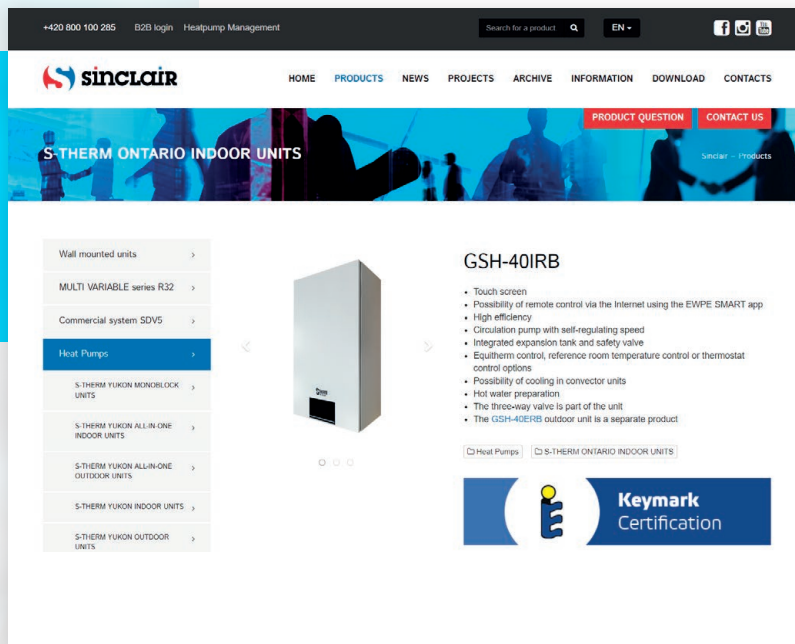
Sinclair Global Group

ABOUT THE SINCLAIR BRAND

The SINCLAIR brand has a long tradition and on market with the heating technology is constantly gaining on 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 trainings to make sure, that all our partners know our products in detail and have up-to-date information on all the news in our assortment. 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 for our future generations. For SINCLAIR Global Group, environmental protection is also a key issue. 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 product with the right price level and a 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.

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S-THERM

Why Sinclair heat pump?

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

Right now, the time is right, 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 R32 refrigerant, which is highly energy-efficient and more 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 CO₂ 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





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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 well below freezing point. 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 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 gives you twice the performance, as 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, thus achieving a power output of up to 180 kW. S-THERM YUKON heat pumps thus become the ideal heat source for larger commercial buildings, apartment buildings, schools, hotels, manufacturing plants or other buildings with higher heat losses.

S-THERM



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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).

With these dimensions, S-therm Yukons hydrobox can easily take the place of your gas boiler.

Outdoor units up to 16 kW have only one fan. Improved fan turbine design reduces air flow resistance and noise level.

HIGH EFFICIENCY OF HEAT PUMPS

The air, water and ground around us contains a huge amounts of energy, even in 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 6 kW YUKON heat pump, the level of the sound pressure at 1 metre 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 REFRIGERANT R32

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

Due to its low GWP potential, the refrigerant has R32 68% less impact on global warming the earth than the previous refrigerant R410a and is cheaper to run.



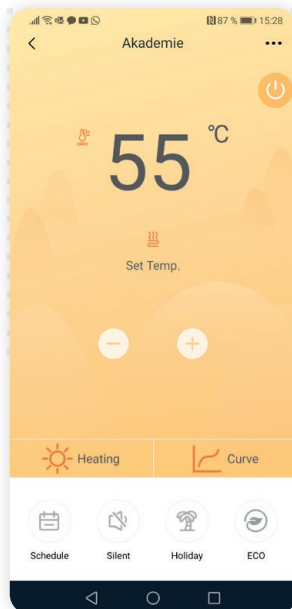
REMOTE CONTROL

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 comes with information about the operation of the heat pump.



Comfort home



ILetComfort



CONTROLLER

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

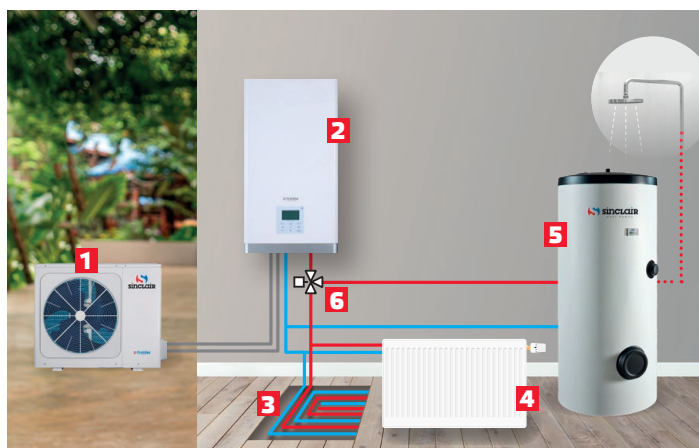


S-THERM

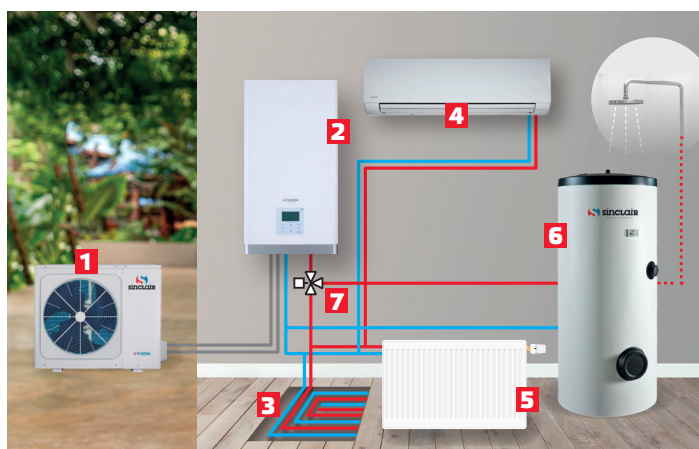
EXAMPLES OF CONNECTION FOR HEATING SYSTEM WITH HYDROBOX



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



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

These diagrams are not a substitute for technical connection diagrams.



comfortable world
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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 Comfort Home or 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
- Possibility 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 / 50 220-240 / 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	-			
		Speed	-			
		Max. power	W			
	Expansion vessel	Volume	l			
		Max. pressure	bar			
		Pressure	bar			
	Auxiliary electric heater	Mode	-			
		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	-				
	Amount	-				
Level of acoustic pressure in 1m		dB (A)	28	30	32	
Dimensions	Outline (w x h x d)	mm	420 x 790 x 270			
	Packaged (w x h x d)		525 x 1050 x 360			
Weight	Netto	kg	37		39	
	Brutto		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 % 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	
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.



DC INVERTER

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 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 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

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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
- Quiet 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-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		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	8							
		Max. pressure	bar	3							
		Pressure	bar	1							
	Auxiliary electric heater	Mode	-	Automatic							
		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	-	Braze 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	Netto		kg	140		157		140		157	
	Brutto		kg	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	
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.



DC INVERTER

ECOLOGICAL REFRIGERANT R32



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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. JUST CONNECT THE UNIT TO THE HEATING SYSTEM AND TO ELECTRICITY. THIS MINIMISES COSTS AND THE TIME REQUIRED FOR INSTALLATION

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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
- Quiet 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	80B	100B	120B / 120B-3	140B / 140B-3	160B / 160B-3
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	mm	5/4"					
	Outlet	mm						
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		
		Combination	kW			3		
						3/6/9		
		Power supply	V/Ph/Hz			220-240/1/50		
		Possible capacities	kW			220-240/1/50 / 380-415/3/50		
					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 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
- Quiet 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
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	mm	1-1/4"			
	Outlet	mm				
Water temperatures range	Heating	°C	25 - 60			
	Cooling	°C	5 - 25			
Main components	Water pump	Max. water flow	6			
		Power	305			
	Water flow switch	Minimum flow	1,6			
		Volume	8			
	Expansion tank	Maximum pressure	3			
		Precharged pressure	1			
	Electric heater	Mode	-			
		Steps				
		Capacity				
		Combination				
		Power supply				
Heat exchanger	Type	-	Brazen 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 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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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 created to maintain the simplicity of both the construction and overall operation. This is done by a touch-sensitive colour 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 bring you 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 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.

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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

In the controller, the priority can be set for specific modes "heating + domestic hot water" and "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 cartridge work in parallel to heat the hot water in the hot water 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. The individual days of the week can be set to absent, and thus be removed 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.

QUIET 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 WIFI 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.

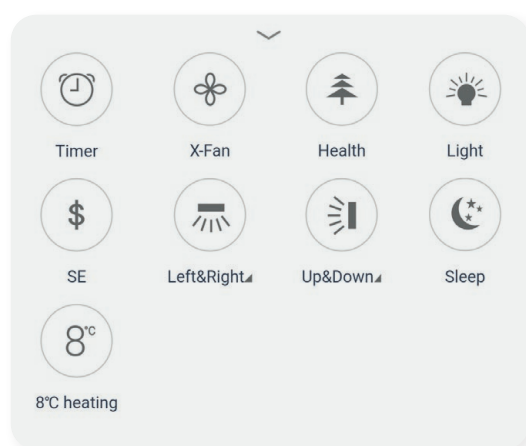
MODES

- 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

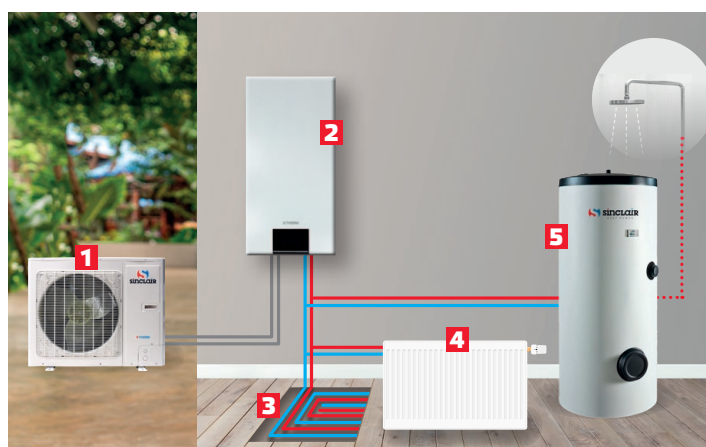
S-therm Ontario heat pumps have an integrated wifi module and can be controlled via the EWPE Smart app. Remote control is simple and intuitive.



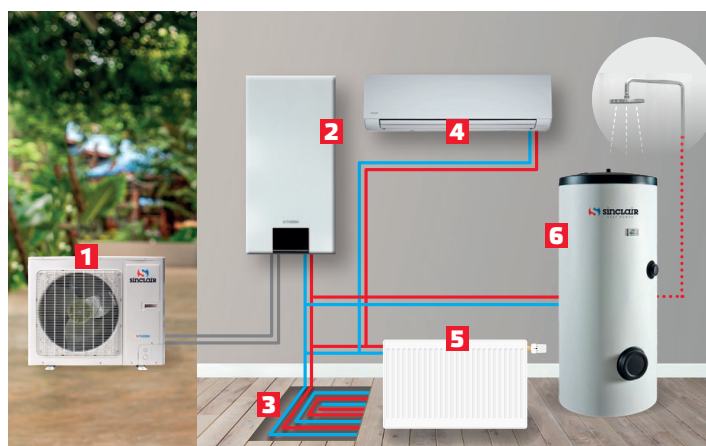
EXAMPLES OF CONNECTION FOR HEATING SYSTEM WITH HYDROBOX



- 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

These diagrams are not a substitute for technical connection diagrams.

INDOOR UNITS HYDROBOX

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

Thanks to 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 litres. 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 40IRBC	60IRB 60IRBC	80IRB/80IRB-3 80IRBC/80IRBC-3	100IRB/100IRB-3 100IRBC/100IRBC-3	120IRB/120IRB-3 120IRBC/120IRBC-3	140IRB/140IRB-3 140IRBC/140IRBC-3	160IRB/160IRB-3 160IRBC/160IRBC-3	
Alternative designation										
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						
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 Shinwoo 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	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)	-	3,3	3,3	3,3/4,6 3,2/4,6	3,3/4,6 3,5/4,7	3,5/4,6 3,2/4,5	3,5/4,7 3,4/4,5	3,5/4,5 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.



DC INVERTER





healthy world
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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



S-THERM ONTARIO
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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



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	25-60						
Main components	Water pump	Type	-						
		Speed	-						
		Max. power	W						
	Hot water tank	Volume	l						
		El. heater	kW						
	Expansion tank	Volume	l						
		Max. pressure	bar						
		Pressure	bar						
	Auxiliary electric heater	Mode	-						
		Capacity	kW						
		Combination	-						
Heat exchanger	Power supply	V / Ph / Hz	220-240/1/50						
	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		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 3,2/4,6		3,2/4,6 3,5/4,7		3,5/4,6 3,2/4,5		3,5/4,7 3,4/4,5		3,5/4,5 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.



DC INVERTER

ECOLOGICAL REFRIGERANT R32

A photograph of a woman and a man in a professional setting. The woman, on the left, has long dark hair and is wearing a dark blazer over a light-colored top. She is smiling broadly and looking towards the man. The man, on the right, has a beard and is wearing a light blue button-down shirt. He is holding a black smartphone to his ear and looking down at a tablet on the table. The background is blurred, showing what appears to be an office or meeting room. A semi-transparent blue rectangular box is overlaid on the right side of the image, containing the text 'modern world Sinclair' in white. The overall lighting is warm and soft.

modern world
Sinclair

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



S-THERM ONTARIO
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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 °C to 60 °C
- High efficiency
- Silent mode



Model SMH-			40IRB 40IRBC	60IRB 60IRBC	80IRB 80IRBC	100IRB2/100IRB2-3 100IRBC2/100IRBC2-3	120IRB2/120IRB2-3 120IRBC2/120IRBC2-3	140IRB2/140IRB2-3 140IRBC2/140IRBC2-3	160IRB2/160IRB2-3 160IRBC2/160IRBC2-3
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	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
EER	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		kW	2,4			6,7/8,3			
Max. current		A	10,4			19/12			
Refrigerant	Type	-	R32						
	Amount	kg	0,87			2,2			
Water pipes	Inlet	mm	DN25						
	Outlet	mm							
Water temperatures range	Heating	°C	20-60						
	Cooling	°C	7-25						
Main components	Water pump	Max. water flow	m³/h 3,5 (*3,6)						
		Power	W 75 (*60)						
	Water flow switch	Minimum flow	m³/h 0,6						
		Expansion tank	Volume	l 2			3		
	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 58			61			
Unit Dimension		W x D x H	mm 1150x345x758			1200x460x878			
Package Dimension		W x D x H	mm 1258x488x900			1288x588x1020			
Weight		Netto/Brutto	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 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 °C to 65 °C
- High efficiency
- **Silent mode**
- **New design**
- **More powerful units**



NEW

Model SMH5- Alternative designation SMH-			40B(C) 40IRBC	60B(C) 60IRBC	80B(C)/80B(C)-3 80IRBC/80IRBC-3	100B(C)/100B(C)-3 100IRBC/100IRBC-3	120B(C)/120B(C)-3 120IRBC/120IRBC-3	140B(C)/140B(C)-3 140IRBC/140IRBC-3	160B(C)/160B(C)-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								
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	-	Brazed Plate HEX						
		Amount	-							
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 Shinwoo 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	✓ (47-57 dB)	✓ (58-61 dB)
Smart grid	✓	✗

more on page 13



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SPLIT

SERIES	YUKON	ONTARIO
Prize	✓	✓
Dimensions - outdoor unit	✓	✓
Dimensions - indoor unit	✓	✓
Max. pipe lenght	✓ (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	✓	✗

SERIES COMPARISON



more on page 17



more on page 33



ALL IN ONE

SERIES	YUKON	ONTARIO
Prize	✓	✓
Dimensions - outdoor unit	✓	✓
Dimensions - indoor unit	✓	✓
Max. pipe lenght	✓ (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 pro 6-10 kW / 240 l pro 12-16 kW	190 l
Tank - material	stainless steel	enamel
Weight of the indoor unit	✓ (140-157 kg)	✓ (195 kg)

- ✓ THE UNIT SUPPORTS
- ✓ BETTER FEATURES
- ✗ UNIT DOES NOT SUPPORT

A photograph of a woman with long dark hair, wearing a grey coat over a shiny silver top and white leggings, smiling at the camera. She is standing in what appears to be a cafe or bakery. In the foreground, the back of a man wearing a dark leather jacket is visible. The background shows shelves with various items, including bottles and jars. A semi-transparent blue rectangle is overlaid on the right side of the image, containing the text "pleasant world Sinclair".

pleasant world
Sinclair

MONOBLOC UNITS

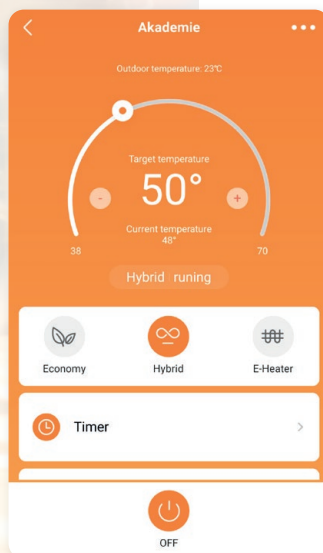


Monobloc hot water heater in enamel finish

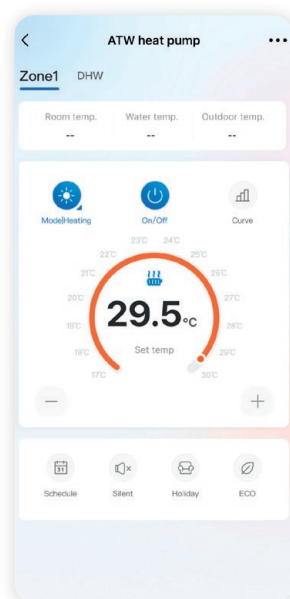
Monobloc hot water in enamel design, which using ecologic refrigerant R134A.

Device with volume 176 or 284 liters. Device working in two modes - hybrid and electrical heater.

- 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
- 3 year warranty



Comfort home



ILetComfort

The unit can be connected via wifi to the Comfort home or ILetComfort app



MONOBLOC UNITS

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 / Amount / t Eq. CO ₂	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



A young couple is shown from the chest up, looking at a tablet computer. The woman, in the foreground, has long blonde hair and is smiling. The man, behind her, has a beard and is also smiling. They are both wearing casual clothing. The background is blurred, suggesting an outdoor setting. A semi-transparent blue rectangle is overlaid on the right side of the image, containing the text.

a frugal world
Sinclair

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	2000 + 1500 (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 ₂	1,40 / 2,92
Dimension (W x D x H)	Unit	mm	842x320x591
	Package	mm	948x363x660
Gross / Net Weight		kg	44,5/38,5
Sound Power Level (***)		dB (A)	63
Operating Range		°C	-25~45 °C
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	1,50
Dimension (W x D x H)	Unit	mm	462 x 462 x 2000
	Package	mm	583 x 565 x 2108
Gross / Net Weight		kg	83,0 / 72,5
Pipe diameter (refrigerant)	Liquid pipe	mm	1/4" / 6,35
	Gas pipe	mm	3/8" / 9,52
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 m²

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 leatherette
- 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

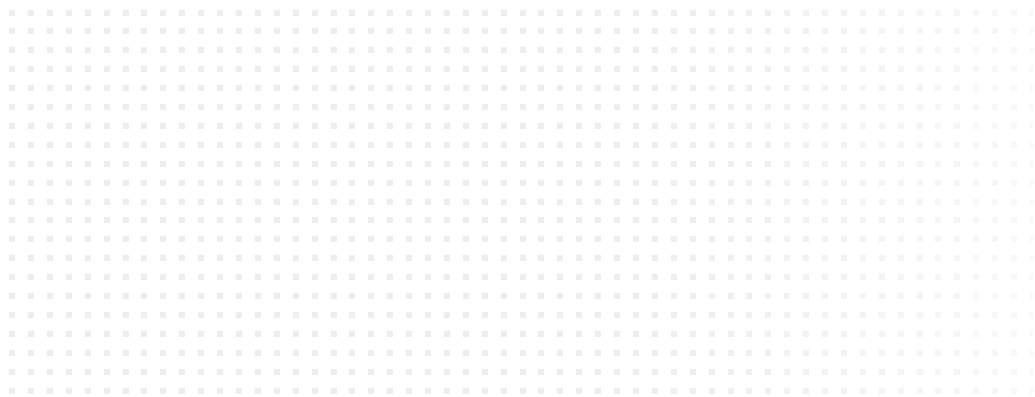




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S-THERM





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