

Reflection of the Sinclair world

turning air into energy

AIR TO WATER
HEAT PUMPS
2022-2023



A man with a beard and mustache, wearing a dark suit and a blue bow tie, is looking intently at a tablet computer. He is in a restaurant or cafe, with blurred lights and tables in the background. A semi-transparent blue box with white text is overlaid on the right side of the image.

quality enhances
partnership

Sinclair Global Group

ABOUT SINCLAIR BRAND

Sinclair brand has long tradition and we believe in a bright future too. Sinclair air conditioners and heat pumps are getting more and more popularity and trust on the market every year. Our strong team of professionals ensures perfect cooperation with partners from many countries around the world. Development of our partnership never ends. SINCLAIR Global Group is based on essential principals of long-term partnership and high-quality products. We regularly organize technical training in our academy to be sure that all our partners have updated information about news in our assortment and proper technical background. SINCLAIR products will secure comfortable temperature in your home or office in all climatic conditions through the whole year. We are more than happy to introduce you SINCLAIR heat pumps. Our series S-THERM Yukon got a Keymark certification.

OUR VISION AND MISSION

Environment protection becomes more and more crucial for humanity and its future generations. SINCLAIR Global Group perceives it the same way hence we focus on developing and applying new technologies which helps to reduce energy consumption and global warming effect. Our products fulfill strict EU norms and in many cases even surpass them. SINCLAIR believes in long-term, stable and healthy progression supported by hard work and strong code of ethics. Long-term success of any brand depends on satisfied customers. Our customers are satisfied thanks to high-quality, reliable a technically advanced products with reasonable pricing and timeless design.



WWW.SINCLAIR-SOLUTIONS.COM

Our website is dedicated to everyone who wants to learn more about Sinclair heat pumps and other products. Additionally after log-in to partner section there is all technical documentation available for download.

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Why Sinclair Heat Pump

Heat Pump is long-term investment for you. Our devices are the best solution for you in terms of price, quality and performance.

NEW CONSTRUCTION, RENOVATION OF AN OLDER HOUSE OR A LARGE BUILDING. WE HAVE THE RIGHT SOLUTION FOR YOU.

Now is the right time to get a Sinclair Heat Pump. Devices are intelligently controlled, economic and with long-term service life. In present, people have more focus on costs connect with heating their homes.

Concurrently they want to be respectful of the environment. We think about our planet. We think about climate in which our kids and next generation will grow up.

For this reason in new heat pumps, we use refrigerant R32, which is highly effective and represents more ecological way of heating.

You won't have to stock up on coal or wood for the winter. Ordinary work as application of coal or wood will no longer bother you. You will appreciate order and cleanliness. Use your time meaningfully.

FROM 1 RETRIEVED KW UP TO 5,2 KW OF HEAT

Technology of SINCLAIR Heat Pumps reduce consumption and emission of CO₂ energy.

We use state-of-the-art DC inverter technology, thanks to it it is achieved high efficiency of Heat Pumps. You get up to 5,2 kW of heat out of 1 kW of removed energy.



ecological world
Sinclair

MAIN ADVANTAGES

REGULATION OF OPERATING MODES FOR MAXIMUM COMFORT

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

PRIORITY REGULATION

The regulator can set preference at modes heat+ preparation of domestic hot water or cooling+preparation of domestic hot water.

INLET TEMPERATURE CONTROL

Enter a fixed flow temperature.

ROOM TEMPERATURE CONTROL VIA THE INTERNAL SENSOR

- Inlet temperature control according to the required temperature of reference room. Remote sensor of room temperature is part of package.
- Room temperature control using an existing room thermostat
- The heat pump is controlled by a room thermostat in the reference room

QUICK CHARGING OF DOMESTIC HOT WATER TANK

The heat pump and the electric heating cartridge work in parallel, to heat water in hot water tank as quickly as possible.

CONTROL BY WEEKLY TIMER

The heat pump can be controlled using a weekly program. A total of three time programs are available for each day with time of on/off. The outlet temperature and the domestic water temperature can be set simultaneously. Individual days of the week can be set to absence and thus excluded from the time program.

ANTI-LEGIONELLA FUNCTION

The hot water tank can be heated through time control to +70 °C to kill any bacteria. This function is usually performed at night. Therefore, it is possible to set the desired day in the week for this function, start time and desired temperature.

ABSENCE FUNCTION

To save energy, you can reduce the room temperature during your absence.

SILENT MODE OF THE OUTDOOR UNIT

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

EXTERNAL ON/OFF

Remote WIFI control using the EWPE SMART mobile application.



CONTROL

TOUCH SCREEN CONTROLLER

The control of S-therm Ontario heat pumps is realized by means of a touch screen, which is located inside of the building. The control is user-friendly.

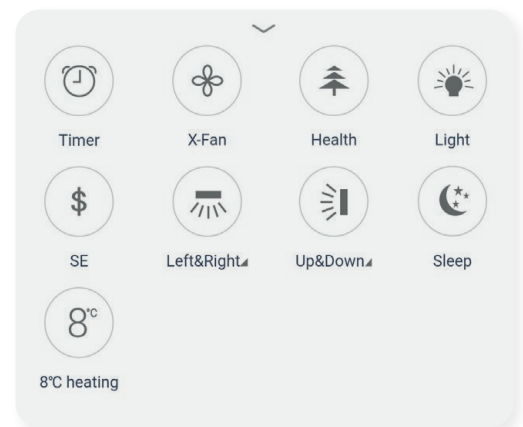
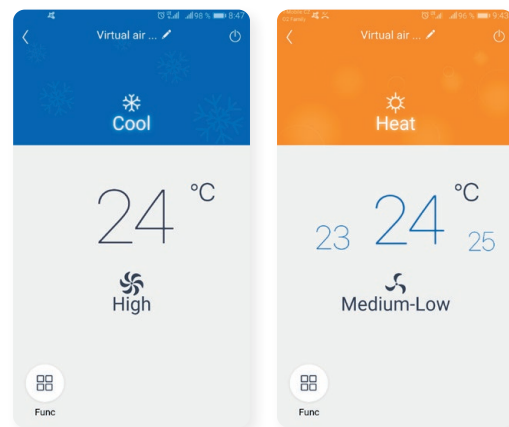
MODES

- 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 EWPE SMART

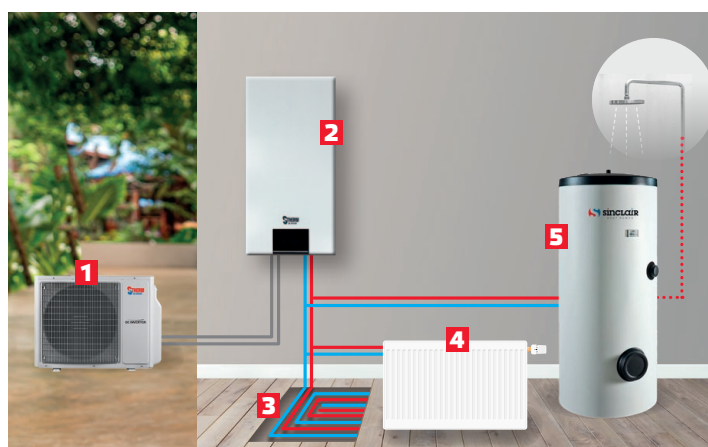
S-therm Ontario heat pumps has an integrated wifi modul and can be controlled using the EWPE Smart application. Remote control is simple and intuitive. You can turn the heating on anytime and from anywhere.



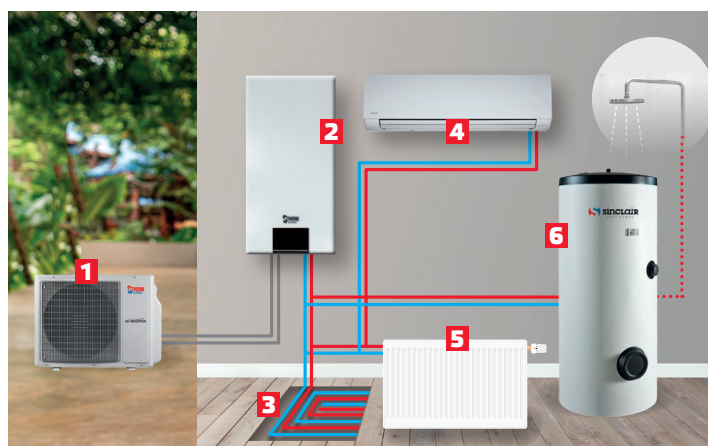
EXAMPLES OF CONNECTION FOR HEATING SYSTEM WITH HYDROBOX



- 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

S-THERM ONTARIO DC INVERTER HEAT PUMPS INDOOR UNIT HYDROBOX

Heat pump is available in capacities of 4, 6, 8, 10, 12, 14 and 16 kW. It allows heating into floor systems, radiators or fancoils.

Thanks to the integrated three-way valve is possible yearlong working in domestic hot water mode, in summer in addition, it is possible cooling up to a temperature of 7 °C. Effective working in temperatures down to -25 °C.

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

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

Indoor unit contains executive plate exchanger, which is characterized by high endurance against corrosion, compact dimensions and high efficiency.



Expansion vessel inside the hydrobox has a capacity of 10 liters. The standard pressure inside the vessel is 1 bar. That ensures reliable operation of the device and stable pressure in the system.

The 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 there is no need for hot water heating. If a buffer tank or hot water tank is required, these are installed separately. Connection to hot domestic water, underfloor heating, fancoil units, water tanks, solar panels, gas boilers etc.

Hydrobox includes a circulatory pump WILO Inverter and plate exchanger Alpha Laval PHE.



INDOOR UNIT 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

GSH-40IRB
GSH-60IRB
GSH-80IRB
GSH-100IRB
GSH-120IRB
GSH-140IRB
GSH-160IRB
GSH-80IRB-3
GSH-100IRB-3
GSH-120IRB-3
GSH-140IRB-3
GSH-160IRB-3



WIFI



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

OUTDOOR UNITS

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

GSH-40ERB
GSH-60ERB
GSH-80ERB
GSH-100ERB
GSH-120ERB
GSH-140ERB
GSH-160ERB

GSH-80ERB-3
GSH-100ERB-3
GSH-120ERB-3
GSH-140ERB-3
GSH-160ERB-3



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

ECOLOGICAL REFRIGERANT R32



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S-THERM ONTARIO DC INVERTER HEAT PUMPS 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 exchanger Alpha Laval PHE.



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

GSH-40TRB2
GSH-60TRB2
GSH-80TRB2
GSH-100TRB2
GSH-120TRB2
GSH-140TRB2
GSH-160TRB2
GSH-80TRB2-3
GSH-100TRB2-3
GSH-120TRB2-3
GSH-140TRB2-3
GSH-160TRB2-3



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	-	PWM							
		Speed	-	Automatic regulation							
		Max. power	W	75							
	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							
Amount		-	1								
Level of acoustic pressure in 1m		dB (A)	29								
Dimensions	Outline (w x d x h)		mm	650 x 600 x 1800							
	Packaged (w x d x h)		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

GSH-40ERB2 GSH-80ERB-3
 GSH-60ERB2 GSH-100ERB-3
 GSH-80ERB2 GSH-120ERB-3
 GSH-100ERB2 GSH-140ERB-3
 GSH-120ERB GSH-160ERB-3
 GSH-140ERB
 GSH-160ERB



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		220-240/1/50 / 380-415/3/50		220-240/1/50 / 380-415/3/50		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+++	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.

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Sound pressure level is tested in a soundless chamber, actual values may be affected by local conditions.

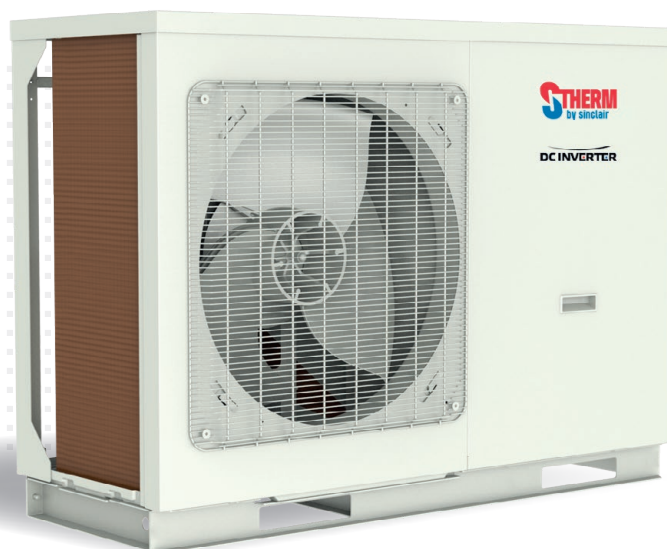
DC INVERTER

ECOLOGICAL
REFRIGERANT R32

A photograph of a man and a woman sitting at a desk, smiling and looking at a tablet. The woman is on the left, wearing a white top with a bow, and the man is on the right, wearing a blue shirt. They are both looking at a tablet on the desk. There are papers and other items on the desk. The background is blurred. A semi-transparent blue box with white text is overlaid on the right side of the image.

modern world
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S-THERM ONTARIO DC INVERTER HEAT PUMPS MONOBLOCK UNITS



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

**We offer variants 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

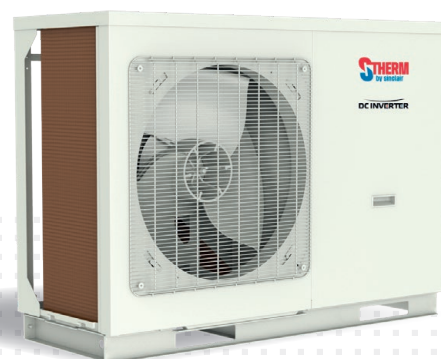


MONOBLOCK UNITS

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

SMH-40IRB
SMH-60IRB
SMH-80IRB
SMH-100IRB2/100IRB2-3
SMH-120IRB2/120IRB2-3
SMH-140IRB2/140IRB2-3
SMH-160IRB2/160IRB2-3



Model SMH-			40IRB	60IRB	80IRB	100IRB2/100IRB2-3	120IRB2/120IRB2-3	140IRB2/140IRB2-3	160IRB2/160IRB2-3
Capacity	Heating	kW	4	6	7,5	10	12	14	15,5
	Cooling	kW	3,8	5,8	6,8	8,8	11	12,5	14,5
Power input	Heating	kW	0,78	1,2	1,63	2,15	2,64	3,22	3,6
	Cooling	kW	0,82	1,32	1,55	1,96	2,56	3,05	3,82
COP	Heating	-	5,1	5	4,6	4,65	4,55	4,3/4,5	4,3
EER1	Cooling	-	4,65	4,4	4,4	4,5	4,2	4/4,2	3,7/4
Energy class	Heating (55 °C / 35 °C)	-	A++/A+++	A++/A+++	A++/A+++	A++/A+++	A++/A+++	A++/A++	A++/A++
SCOP	Heating (55 °C / 35 °C)	-	3,3/4,8	3,3/4,8	3,3/4,8	3,2/4,5 3,3/4,5	3,2/4,5 3,3/4,5	3,2/4,32 3,2/4,3	3,2/4,2 3,3/4,2
Power supply		V/Ph/Hz	220-240/1/50			220-240/1/50 / 380-415/3/50			
Max. power input		kW	2,4			6,7/8,3			
Max. current		A	10,4			19/12			
Refrigerant	Type	-				R32			
	Charge	kg	0,87			2,2			
Water pipes	Inlet	mm				DN25			
	Outlet	mm							
Water temperatures range	Heating	°C				20-60			
	Cooling	°C				7-25			
Main components	Water pump	Max. water flow	m³/h			3,5			
		Power input	W			75			
	Water flow switch	Minimum flow	m³/h			0,6			
		Volume	l			2			
	Expansion tank	Maximum pressure	bar			3			
		Precharged pressure	bar			1			
	Electric heater	Mode	-						
		Steps	-						
		Capacity	kW			-			
		Combination	kW						
	Heat exchanger	Power supply	V/Ph/Hz						
		Type	-			Brazen plate			
Safety valve	Pressure	Quantity	-			1			
		bar				3			
Sound pressure level LpA	1 m	dB	58			61			
Unit dimensions	W x D x H	mm	1150x345x758			1200x460x878			
Package dimension	W x D x H	mm	1258x488x900			1288x588x1020			
Weight	Net/Gross	kg	96/109			151/166			
Operating temperature range	Cooling	°C				-15-48			
	Heating	°C				-25-35			
	Water heating	°C				-25-45			

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.



AUXILIARY ELECTRIC HEATER

An optional bivalent source with the designation EH-SMH can be integrated behind the monoblock. We supply the auxiliary electric heater in capacities of 6/9 kW - connection either in a star or in a triangle (3x3 kW, 400V / 3x2 kW, 230V).

DC INVERTER

ECOLOGICAL
REFRIGERANT  R32





stylish world
Sinclair

New premium series of heat pumps S-Therm Yukon



S-THERM YUKON
GOT A KEYMARK
CERTIFICATION



S-THERM YUKON heat pumps are inspired by the wild 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. S-THERM YUKON got a Keymark certification.

WE CHANGE AIR INTO ENERGY

The worldwide uncertainty of gas availability, the unpredictable turbulence of energy prices, the ever-increasing costs of heating are creating a massive global demand for heat pumps, which so far significantly exceeds the production capabilities of supply companies.

NEW TEMPERATURE RANGE

In winter, temperatures in northern Canada drop very far below zero. S-THERM YUKON heat pumps have operating conditions set down to a temperature of -25 °C. In addition to heating the building, the heat pump also ensures the production of sufficiently warm domestic water. This guarantees, that even in the cold winter, the heat pump will provide heat and you will always feel comfortable.

NEW PERFORMANCE SERIES OF HEAT PUMPS

The YUKON series brings you twice the performance of the S-THERM ONTARIO series. We are now offering monobloc heat pumps with an output of 30 kW. These devices can then be connected to larger assemblies - cascades. In this way, up to 6 units can be connected to achieve a total power of up to 180 kW. YUKON heat pumps thus become the ideal heat source for larger commercial spaces, apartment buildings, schools, hotels, manufacturing plants or other objects with high heat loss.

YUKON

S-THERM

MAIN FEATURES

NEW DESIGN AND MINIMAL DIMENSIONS OF YUKON HEAT PUMPS

Hydroboxes of the YUKON series are among the smallest on the market.

With a depth of only 270 millimeters for an overall size reduction of 29%. Due to its dimensions, it can easily take a place of a gas boiler.

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

HIGH EFFICIENCY OF HEAT PUMPS

The air, water, and even the earth around us contain a huge amount of energy, even in the winter months. S-THERM YUKON heat pumps use 75% of the energy that is provided from the outside environment. The remaining 25% is electricity. This efficiency significantly reduces emissions and harmful substances that are released into the atmosphere. The top technologies used and advanced regulation have created one of the most economical and efficient heat pumps on the European and world market.

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

QUIET OPERATION

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

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

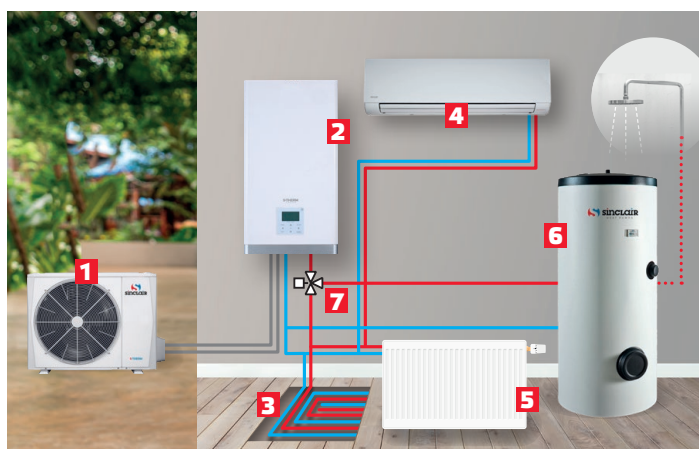
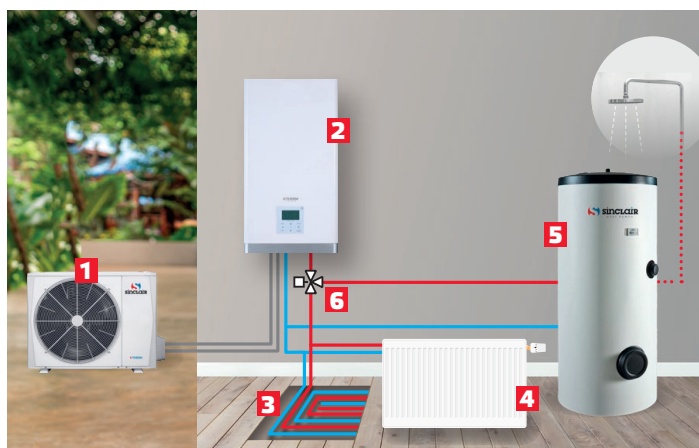
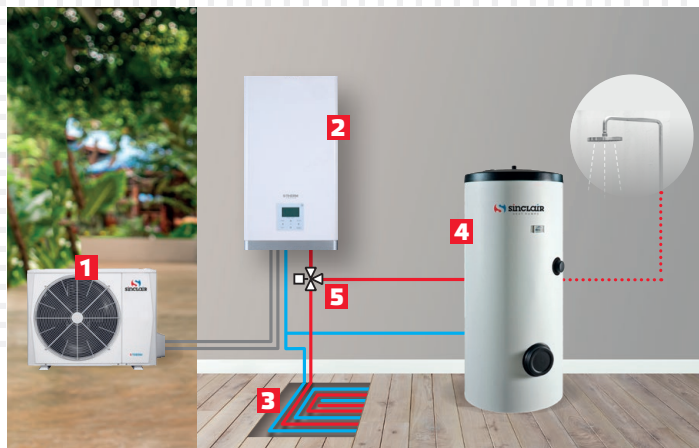
The most powerful machines, which reach a heating power of 30 kW, have a noise level of 66 dB(A) at 1 meter, which corresponds to the volume of normal conversation.

ECOLOGICAL REFRIGERANT R32

We use R32 refrigerant in our S-THERM YUKON heat pumps. This refrigerant has a better heat capacity and systems need up to 20% less than its predecessor R410a. Due to its lower density, the R32 refrigerant has a 68% lower global warming impact than the previous R410a refrigerant and is cheaper to operate.



ENGAGEMENT EXAMPLES





comfortable world
Sinclair

INDOOR UNIT

HYDROBOX

Hydrobox YUKON is available in three variants with an integrated electric heater. Allows heating into floor systems, radiators or fancoils.

POSSIBILITY OF ADDING A THREE-WAY VALVE FOR YEARLONG WORKING IN WARM WATER MODE, IN SUMMER IN ADDITION, IT IS POSSIBLE COOLING UP TO A WATER OUTLET TEMPERATURE OF 5 °C.



Effective working in temperatures down to -25 °C. In the heating mode, the energy of the refrigerant is transferred to the water through the heat exchanger in the indoor unit. By this warm water is then supplied to the radiators, underfloor heating and hot domestic water tank.



S-THERM
YUKON GOT
A KEYMARK
CERTIFICATION

Devices are executed in one-phase or three-phase versions (units ending with -3).

The indoor unit contains executive plate exchanger, which is characterized by high endurance against corrosion, compact dimensions and high efficiency.

Expansion vessel inside hydrobox has a capacity of 8 liters. The standard pressure inside the tank is 1 bar. It ensures reliable operation of the device and stable pressure in the system.

The energy-efficient and powerful circulation pump ensures smooth water flow in underfloor heating system or radiators.

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

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

Hydrobox includes a circulatory Inverter pump and Weyee plate heat exchanger.

S-THERM

INDOOR UNIT HYDROBOX

FEATURES

- Possibility of control via internet with Comfort Home 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 by thermostat
- Possibility cooling in convector units
- Preparation of hot domestic water
- Possibility of adding a 3-way valve - not included in the package

MSH-60IB/3
MSH-100IB/3
MSH-100IB-3/9
MSH-160IB/3
MSH-160IB-3/9



Possible combinations	
Indoor	Outdoor
MSH-60IB/3	MSH-60EB
MSH-100IB/3	MSH-80EB
MSH-100IB/3	MSH-100EB
MSH-160IB/3	MSH-120EB
MSH-160IB/3	MSH-140EB
MSH-160IB/3	MSH-160EB
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

Model MSH-			60IB/3	100IB/3 100IB-3/9	160IB/3 160IB-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		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 tank	Volume	l			
		Max. pressure	bar			
		Pressure	bar			
	Auxiliary electric heater	Mode	-			
		Capacity	kW		3	3/9
		Combination	-		3	3/3+3+3
	Heat exchanger	Power supply	V / Ph / Hz	220-240 / 1 / 50		380-415 / 3 / 50
		Type	-			
		Amount	-			
Level of acoustic pressure in 1m		dB (A)	28		30	32
Dimensions	Outline (w x d x h)	mm	420 x 790 x 270			
	Packaged (w x d x h)		525 x 1050 x 360			
Weight	Net	kg	37		39	
	Gross		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 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

MSH-60EB
MSH-80EB
MSH-100EB
MSH-120EB
MSH-140EB
MSH-160EB

MSH-120EB-3
MSH-140EB-3
MSH-160EB-3



Model MSH-			60EB	80EB	100EB	120EB/120EB-3	140EB/140EB-3	160EB/160EB-3	
Power supply		V / Ph / Hz	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	Max.	dB (A)	44	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 UNIT ALL IN ONE

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 homes.



S-THERM
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A KEYMARK
CERTIFICATION



Units are in one-phase or three-phase version (devices with suffix -3).

We offer you ALL IN ONE solutions with performances of 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 and plate heat exchanger Weyee.



TECHNOLOGY THAT COMBINES
AN INDOOR HYDROBOX AND AN
INTEGRATED 190 OR 240 LITER
STAINLESS STEEL HOT WATER TANK

YUKON

S-THERM

INDOOR UNIT ALL IN ONE

FEATURES

- Possibility of control via internet with Comfort Home application
- High efficiency
- Integrated expansion vessel and safety valve
- Circulatory pump with self-regulation of speed
- Possibility of the equitherm control, control by reference room temperature or thermostat
- Silent mode
- Built-in electric cartridge with 3 or 9 kW capacity

MSH-190TB/3
MSH-240TB/3
MSH-190TB-3/9
MSH-240TB-3/9



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		
		El. heater	kW	1,5+1,5							
	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	-	Brazed plate							
		Amount	-	1							
Level of acoustic pressure in 1m			dB (A)	29							
Dimensions	Outline (w x d x h)		mm	600 x 600 x 1683		600 x 600 x 1943		600 x 600 x 1683		600 x 600 x 1943	
	Packaged (w x d x h)		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		kq	161		178		161		178	

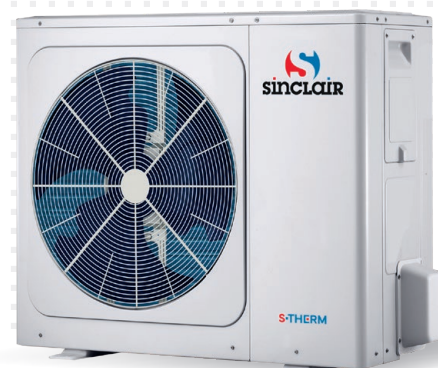
OUTDOOR UNITS

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

MSH-60EB
MSH-80EB
MSH-100EB
MSH-120EB
MSH-120EB-3
MSH-140EB

MSH-140EB-3
MSH-160EB
MSH-160EB-3



Model MSH-			60EB	80EB	100EB	120EB/120EB-3	140EB/140EB-3	160EB/160EB-3		
Power supply		V / Ph / Hz	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	Max.	dB (A)	44	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



Sinclair
20 years with you

MONOBLOCK HEAT PUMPS

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



We offer variants 4, 6, 8 kW (1 phase), 10, 12, 14, 16 kW (1 phase and 3 phase) and 18, 22, 26, 30 kW (3 phase).

ONE COMPACT UNIT WITH VARIABLE FUNCTIONS

- The system can be connected to floor heating, radiators, fan coils. If you add a hot water tank and a three-way valve, you can also use the device to heat domestic hot water
- Ecological 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

AN IDEAL DEVICE IF YOU DO NOT HAVE THE OPTION OF INSTALLING THE INDOOR UNIT IN YOUR HOUSE. JUST CONNECT THE DEVICE TO THE HEATING SYSTEM AND TO THE POWER SUPPLY. THIS MINIMIZES COSTS AND INSTALLATION TIME.



S-THERM
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YUKON

S-THERM

6-16 kW**FEATURES**

- Possibility of control via internet with Comfort Home application
- High efficiency
- Circulatory pump with self-regulation of speed
- Integrated expansion vessel and safety valve
- Silent mode
- The outlet water temperature from 25 °C to 60 °C
- Built-in electric cartridge with 3 or 9 kW capacity

SMHM-60B/3
SMHM-80B/3
SMHM-100B/3
SMHM-120B/3
SMHM-120B-3/9
SMHM-140B/3
SMHM-140B-3/9
SMHM-160B/3
SMHM-160B-3/9



Model SMHM-			60B/3	80B/3	100B/3	120B/3 / 120B-3/9	140B/3 / 140B-3/9	160B/3 / 160B-3/9	
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 input	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 input		kW	2,58	3	3,43	4,78	5,37	6,25	
Max. current		A	18	19		30			
Refrigerant	Type	-	R32						
	Charge	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	4,5						
		Power input	95						
		Water flow switch	Minimum flow	0,4			0,7		
	Expansion tank	Volume	l				8		
		Maximum pressure	bar						
		Precharged pressure	bar						
	Electric heater	Mode	-						
		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		
	Heat exchanger	Type	-						
		Quantity	-						
	Safety valve	Pressure	bar	3					
Sound pressure level LpA	1 m	dB	47	48	49	54		57	
Unit dimensions	(w x h x d)	mm	1295 x 718 x 429		1385 x 865 x 526				
Package dimension	(w x h x d)	mm	1375 x 885 x 475		1465 x 1035 x 560				
Weight	Net/Gross	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.

18-30 kW**FEATURES**

- Possibility of control via internet with Comfort Home application
- High efficiency
- Circulatory pump with self-regulation of speed
- Integrated expansion vessel and safety valve
- Silent mode
- The outlet water temperature from 25 °C to 60 °C
- Possibility of a cascade connection with heating/cooling capacity up to 180 kW
- up to 6 units together

SMHM-180B-3
SMHM-220B-3
SMHM-260B-3
SMHM-300B-3



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 input	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 input		kW	6,66	8,07	8,8	9,38
Max. current		A	28			
Refrigerant	Type	-	R32			
	Charge	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 input	305			
	Water flow switch	Minimum flow	1,6			
		Volume	8			
	Expansion tank	Maximum pressure	3			
		Precharged pressure	1			
	Electric heater	Mode	-			
		Steps				
		Capacity				
		Combination				
	Heat exchanger	Power supply	V/Ph/Hz			
		Type	Braze plate			
Safety valve	Pressure	Quantity	1			
		Pressure	3			
Sound pressure level LpA	1 m	dB	60	62	64	66
Unit dimensions	(w x h x d)	mm	1129 x 1558 x 528			
Package dimension	(w x h x d)	mm	1220 x 1735 x 565			
Weight	Net/Gross	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**

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 shop or cafe. In the background, a man in a dark leather jacket is seen from the back, looking at a display case. The scene is captured through a glass pane, with reflections of a brick building and trees visible. A semi-transparent blue rectangle is overlaid on the right side of the image, containing the text "pleasant world Sinclair".

pleasant world
Sinclair

MONOBLOCK HOT WATER TANK

MONOBLOCK HEAT PUMPS



Monoblock
hot water tank
in enamel design

**Monobloc hot water tank in enamel design
is using ecological refrigerant R134a.**

**Device with volume of 176 or 284 liters.
Device working in two modes - economic 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



MONOBLOCK HEAT PUMPS

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		Economy	E-heater	Economy	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 D x H)	mm	680 x 2070 x 680		775 x 2200 x 745	
Net weight	kg	268/277		398/406	
Sound pressure level at 1m	dB (A)	36,6		38,2	
Refrigerant	type / charge / t eq. CO ₂	R134a / 1,1 / 1,57		R134a / 1,5 / 2.14	
Tank design pressure	MPa			1,0	
Air flow volume	m³ / h	270 / 230 / 182		414 / 355 / 312	
Water inlet pipe	inch	3/4"			
Water outlet pipe					
Solar water inlet pipe					
Solar water outlet pipe					
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 held by the woman. The woman has long blonde hair and is smiling. The man has a beard and is wearing a plaid shirt over a white t-shirt. They are both smiling and looking at the tablet. The background is blurred, showing other people and lights. A blue semi-transparent box is overlaid on the right side of the image, containing the text 'a frugal world Sinclair'.

a frugal world
Sinclair

SINCLAIR HOT WATER HEATER

SPLIT UNITS



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

**The water heater with 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	W		3,50 (1,80-3,70)
Rated Input Power (*)	W		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	-		130 / 156
Annual electricity consumption (average climate conditions)	kWh		795 / 655
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 / 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

DESCRIPTION

- Possible to connect with Sinclair Ontario or Yukon series
- For preparation and subsequent distribution of hot water
- Free-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

ENAMELLED

- 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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