

An underwater photograph of a swimming pool. The water is clear and bright blue, with sunlight filtering through from above, creating a shimmering, dappled light effect on the sandy bottom. The text "SWIMMING POOL HEAT PUMPS" is overlaid in the center in a bold, blue, sans-serif font.

**SWIMMING
POOL HEAT
PUMPS**



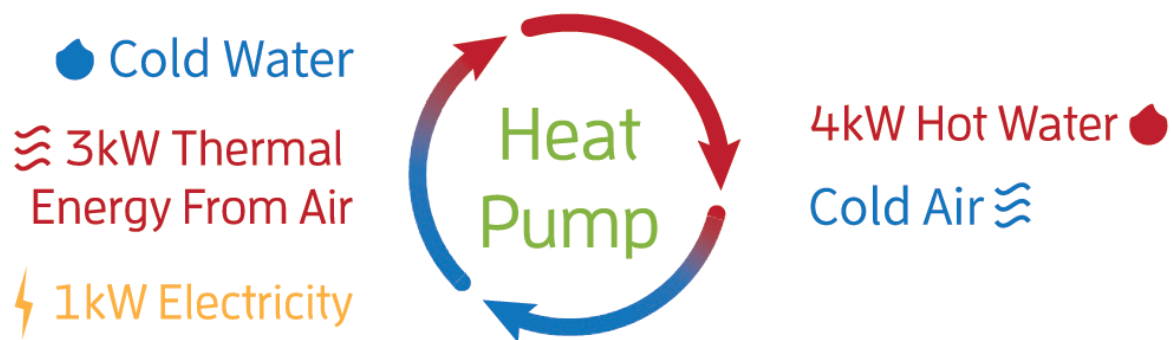
Pools

SWIMMING POOL HEAT PUMPS

WHAT IS A POOL HEAT PUMP?

Swimming pool heat pumps extract the heat stored in the ambient air and transfer it to water. It increases the water temperature to reach the desired level. Comparatively, it operates like a reverse refrigerator to pump the heat into the water and discharge the cooler air back into the ambient air.

A correctly sized swimming pool heat pump can ensure constant, comfortable swimming pool temperatures all year round. This robust energy-efficient technology could dramatically reduce your utility bills up to 80%.



The key point about the amazing heat pump efficiency is that unlike electric heating coils and gas heaters, a heat pump does not produce thermal energy but simply moves thermal energy from the surrounding air to a hot reservoir. Heat pumps have been proven to be the most efficient water heating technology available for the last 30 years consistently delivering 3-5 times the efficiency of conventional water heating technologies.

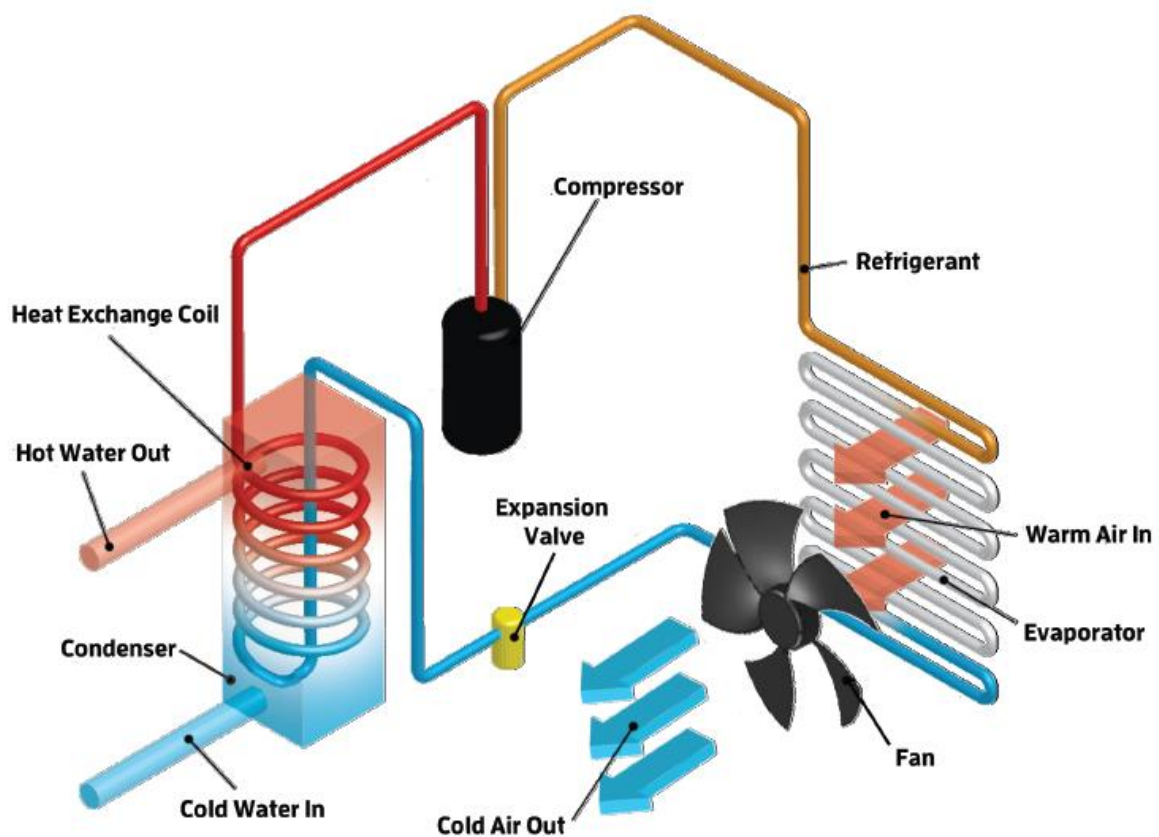




SWIMMING POOL HEAT PUMPS

HOW DOES A POOL HEAT PUMP WORK?

1. Unlike a traditional electric resistive heater, a heat pump doesn't use electricity to heat the water directly, instead it uses electrical power to run a compressor to transfer the heat from the ambient air into the water through a reverse Carnot cycle, it applies the same principle as a refrigerator but in reverse.
2. The low temperature and low-pressure refrigerant pass through the evaporator since the refrigerant R410A has a boiling point of -48.5°C . It can therefore still absorb the heat from the ambient air even in a cold environment and become the low pressure, low-temperature superheated vapor.
3. The compressor then utilizes electricity to draw in refrigerant and discharge high temperature, high-pressure superheated vapor to the water heat exchanger (condenser) where the heat exchange is taking place and water is therefore heated.
4. With the condenser, the expansion valve turns high pressure, sub-cooled liquid released from the compressor into the low pressure, low temperature saturated liquid. The refrigerant will perpetually circulate until the water reaches the set point.





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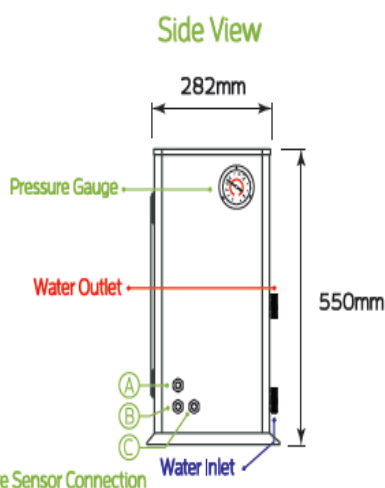
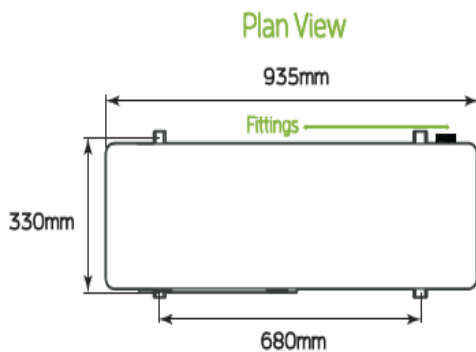
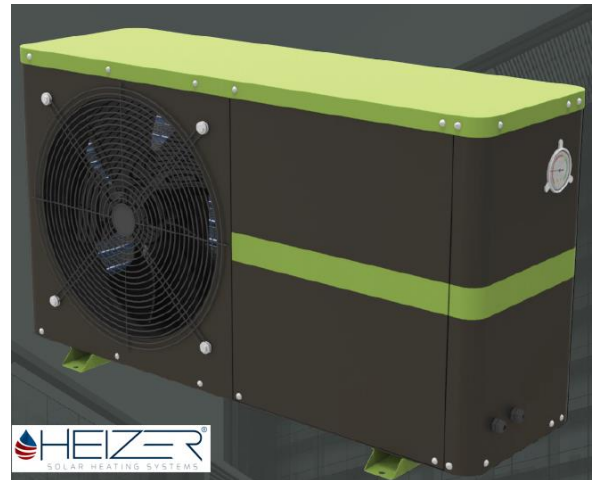
SWIMMING POOL HEAT PUMPS

Ari can be used to heat outdoor and indoor swimming pools and considerably extend the swimming season in an economical and environmentally-friendly manner.

- **7.8 KW Swimming Pool Heat Pump**

HEIZER Swimming Pool Heat Pumps are an energy efficient way to heat and maintain comfortable swimming pool temperatures.

The heat pump heats chlorinated or salt water pools at an efficiency greater than 5 times^{*1} that of conventional electric or gas heaters.



Technical Specifications

Technical Specifications			
Air Discharge Platform	Side Discharge		
Defined^{*2} / Max. Output Temperature	28°C	43°C	
Working Ambient Temperature Range	-5°C ~ 43°C		
Min./Recommended Water Flow Rate	1.5 m ³ /hour	2.3 m ³ /hour	
Water Pressure Loss / Max. Water Pressure	20.4 kPa	1 MPag	
Heating Output^{*1} / Power Input^{*1}	7.8 kW	1.58 kW	
Coefficient of Performance (COP)^{*1}	4.94		
Starting Current / Normal Running Current	37.5 A	7.5 A	
Maximum Current	12 A		
Input Voltage / Frequency / Phase	220 – 240 V	50 Hz	1 phase
Heat Pump Unit Dimensions	282 x 550 x 935 mm		
Net Weight / Gross Weight	50 Kg	65 Kg	
Outlet Fittings	DN40 BSP 1 ½ " Female		
Noise Level (1m, 4m, 10m)^{*3}	55, 44, 34 dB(A)		
Refrigerant	R-410A		
IP Rating	Outdoor Rated IPX4		
Water Heat Exchanger Material	Titanium		
Compressor Type/Band^{*4}	Rotary	Mitsubishi	
Controller	Multifunction LCD Controller		

*1 based on ambient air temperature 24°C (DB) / 19°C (WB), inlet water temperature 28°C.

*2 Temperature that all relevant values are calculated at, and default heat pump setting.

*3 Noise level standard: Noise from 1, 4 and 10 meters, as per the directions EN ISO 3741 & EN ISO 354.

*4 Compressor brand may vary.



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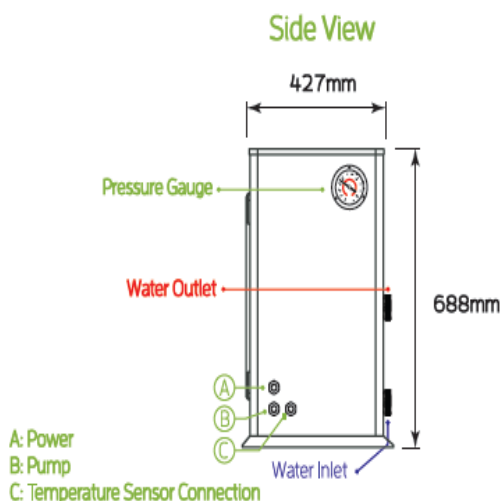
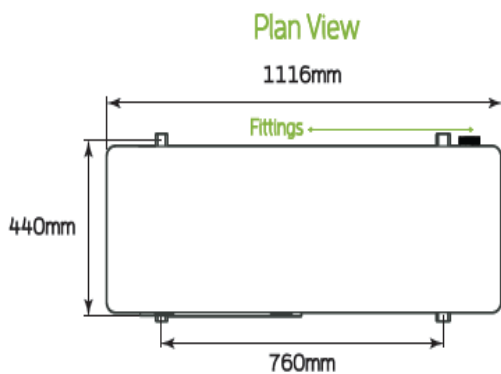
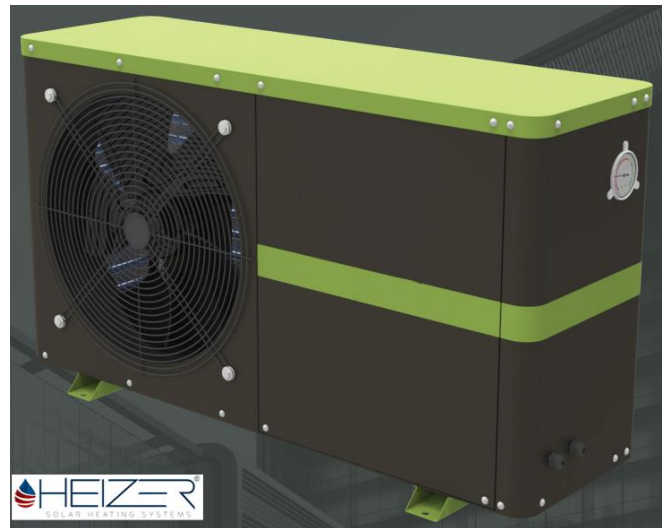
SWIMMING POOL HEAT PUMPS

Air can be used to heat outdoor and indoor swimming pools and considerably extend the swimming season in an economical and environmentally-friendly manner.

- **14 KW Swimming Pool Heat Pump**

HEIZER Swimming Pool Heat Pumps are an energy efficient way to heat and maintain comfortable swimming pool temperatures.

The heat pump heats chlorinated or salt water pools at an efficiency greater than 5 times*¹ that of conventional electric or gas heaters.



Technical Specifications

Technical Specifications	
Air Discharge Platform	Side Discharge
Defined^{*2} / Max. Output Temperature	28°C 43°C
Working Ambient Temperature Range	-5°C ~ 43°C
Min./Recommended Water Flow Rate	1.5 m ³ /hour 4 m ³ /hour
Water Pressure Loss / Max. Water Pressure	32.5 kPa 1 MPag
Heating Output^{*1} / Power Input^{*1}	14 kW 2.61 kW
Coefficient of Performance (COP)^{*1}	5.35
Starting Current / Normal Running Current	62 A 12.5 A
Maximum Current	12 A
Input Voltage / Frequency / Phase	220 – 240 V 50 Hz 1 phase
Heat Pump Unit Dimensions	1116 x 425 x 686 mm
Net Weight / Gross Weight	90 Kg 110Kg
Outlet Fittings	DN40 BSP 1 ½ " Female
Noise Level (1m, 4m, 10m)^{*3}	55, 44, 32 dB(A)
Refrigerant	R-410A
IP Rating	Outdoor Rated IPX4
Water Heat Exchanger Material	Titanium
Compressor Type/Band^{*4}	Scroll Sanyo
Controller	Multifunction LCD Controller

*¹ based on ambient air temperature 24°C (DB) / 19°C (WB), inlet water temperature 28°C.

*² Temperature that all relevant values are calculated at, and default heat pump setting.

*³ Noise level standard: Noise from 1, 4 and 10 meters, as per the directions EN ISO 3741 & EN ISO 354.

*⁴ Compressor brand may vary.



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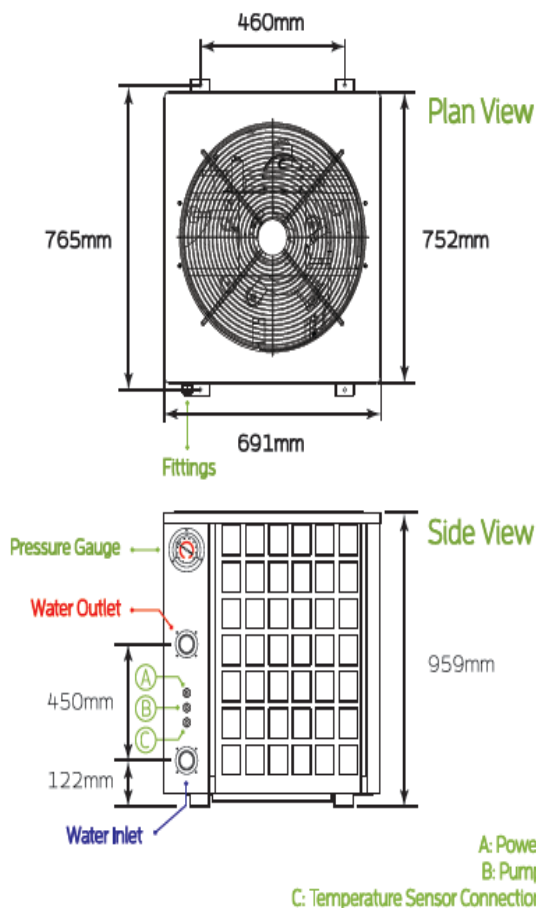
SWIMMING POOL HEAT PUMPS

Air can be used to heat outdoor and indoor swimming pools and considerably extend the swimming season in an economical and environmentally-friendly manner.

- **25 KW Swimming Pool Heat Pump**

HEIZER Swimming Pool Heat Pumps are an energy efficient way to heat and maintain comfortable swimming pool temperatures.

The heat pump heats chlorinated or salt water pools at an efficiency greater than 5 times^{*1} that of conventional electric or gas heaters.



Technical Specifications			
Air Discharge Platform	Top Discharge		
Defined^{*2} / Max. Output Temperature	28°C	43°C	
Working Ambient Temperature Range	-5°C ~ 43°C		
Min./Recommended Water Flow Rate	1.5 m ³ /hour	7 m ³ /hour	
Water Pressure Loss / Max. Water Pressure	37.2 kPa	1 MPag	
Heating Output^{*1} / Power Input^{*1}	25 kW	4.8 kW	
Coefficient of Performance (COP)^{*1}	5.47		
Starting Current / Normal Running Current	39.5 A	22 A	
Maximum Current	34 A		
Input Voltage / Frequency / Phase	220 V	50 Hz	1 phase
Heat Pump Unit Dimensions	752 x 691 x 959 mm		
Net Weight / Gross Weight	124 Kg	146 Kg	
Outlet Fittings	DN40 BSP 1 ½ " Female		
Noise Level (1m, 4m, 10m)^{*3}	54 dB(A)		
Refrigerant	R-410A		
IP Rating	Outdoor Rated IPX4		
Water Heat Exchanger Material	Titanium		
Compressor Type/Band^{*4}	Rotary	Toshiba	
Controller	Multifunction LCD Controller		

*1 based on ambient air temperature 24°C (DB) / 19°C (WB), inlet water temperature 28°C.

*2 Temperature that all relevant values are calculated at, and default heat pump setting.

*3 Noise level standard: Noise from 1, 4 and 10 meters, as per the directions EN ISO 3741 & EN ISO 354.

*4 Compressor brand may vary.



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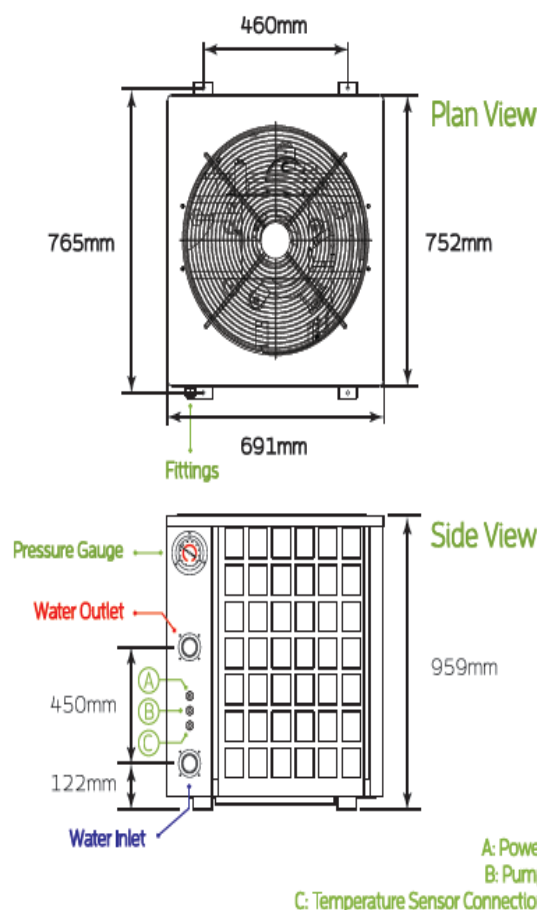
SWIMMING POOL HEAT PUMPS

Air can be used to heat outdoor and indoor swimming pools and considerably extend the swimming season in an economical and environmentally-friendly manner.

- **26 KW Swimming Pool Heat Pump**

HEIZER Swimming Pool Heat Pumps are an energy efficient way to heat and maintain comfortable swimming pool temperatures.

The heat pump heats chlorinated or salt water pools at an efficiency greater than 5 times^{*1} that of conventional electric or gas heaters.



Technical Specifications			
Air Discharge Platform	Top Discharge		
Defined^{*2} / Max. Output Temperature	28°C	43°C	
Working Ambient Temperature Range	-5°C ~ 43°C		
Min./Recommended Water Flow Rate	1.5 m ³ /hour	7 m ³ /hour	
Water Pressure Loss / Max. Water Pressure	37.2 kPa	1 MPag	
Heating Output^{*1} / Power Input^{*1}	26 kW	4.75 kW	
Coefficient of Performance (COP)^{*1}	5.47		
Starting Current / Normal Running Current	39.5 A	8.39 A	
Maximum Current	14 A		
Input Voltage / Frequency / Phase	380 – 415 V	50 Hz	3 phase
Heat Pump Unit Dimensions	752 x 691 x 959 mm		
Net Weight / Gross Weight	124 Kg	146 Kg	
Outlet Fittings	DN40 BSP 1 ½ " Female		
Noise Level (1m, 4m, 10m)^{*3}	55, 44, 34 dB(A)		
Refrigerant	R-410A		
IP Rating	Outdoor Rated IPX4		
Water Heat Exchanger Material	Titanium		
Compressor Type/Band^{*4}	Scroll	Sanyo	
Controller	Multifunction LCD Controller		

*1 based on ambient air temperature 24°C (DB) / 19°C (WB), inlet water temperature 28°C.

*2 Temperature that all relevant values are calculated at, and default heat pump setting.

*3 Noise level standard: Noise from 1, 4 and 10 meters, as per the directions EN ISO 3741 & EN ISO 354.

*4 Compressor brand may vary.



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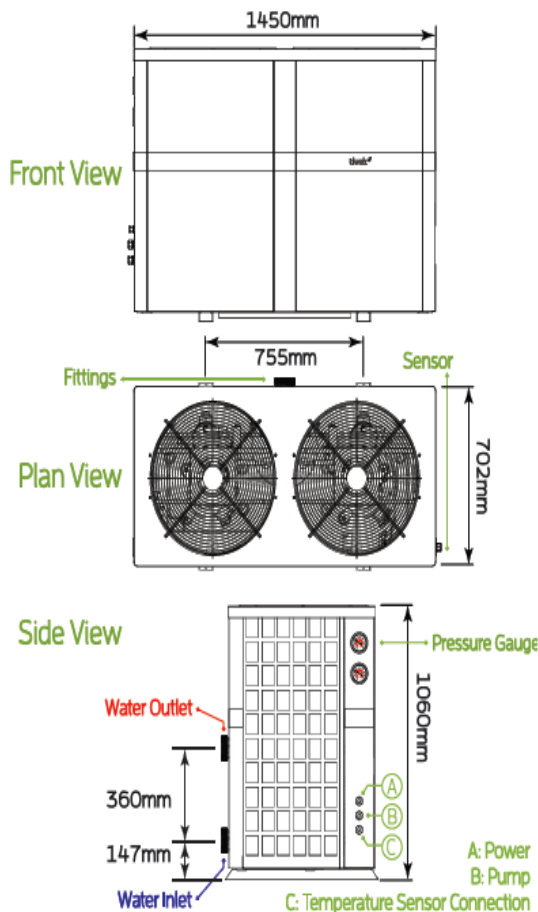
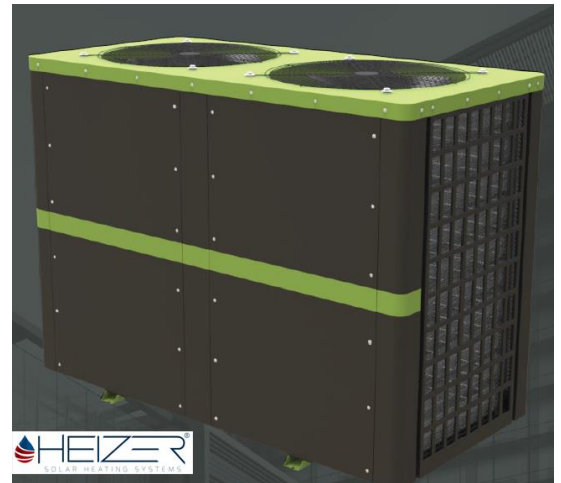
SWIMMING POOL HEAT PUMPS

Air can be used to heat outdoor and indoor swimming pools and considerably extend the swimming season in an economical and environmentally-friendly manner.

- **45 KW Swimming Pool Heat Pump**

HEIZER Swimming Pool Heat Pumps are an energy efficient way to heat and maintain comfortable swimming pool temperatures.

The heat pump heats chlorinated or salt water pools at an efficiency greater than 5 times*¹ that of conventional electric or gas heaters.



Technical Specifications			
Air Discharge Platform	Top Discharge		
Defined*² / Max. Output Temperature	28°C	43°C	
Working Ambient Temperature Range	-5°C ~ 43°C		
Min./Recommended Water Flow Rate	1.5 m ³ /hour	14 m ³ /hour	
Water Pressure Loss / Max. Water Pressure	20 kPa	1 MPag	
Heating Output*¹ / Power Input*¹	45 kW	7.56 kW	
Coefficient of Performance (COP)*¹	5.53		
Starting Current / Normal Running Current	88.0 A	13.6 A	
Maximum Current	21.8 A		
Input Voltage / Frequency / Phase	380 – 415 V	50 Hz	3 phase
Heat Pump Unit Dimensions	1450 x 702 x 1060 mm		
Net Weight / Gross Weight	249 Kg	293 Kg	
Outlet Fittings	DN50 BSP 2" Female		
Noise Level (1m, 4m, 10m)*³	55, 44, 34 dB(A)		
Refrigerant	R-410A		
IP Rating	Outdoor Rated IPX4		
Water Heat Exchanger Material	Titanium		
Compressor Type/Band*⁴	Scroll x 2	Sanyo	
Controller	Multifunction LCD Controller		

*¹ based on ambient air temperature 24°C (DB) / 19°C (WB), inlet water temperature 28°C.

*² Temperature that all relevant values are calculated at, and default heat pump setting.

*³ Noise level standard: Noise from 1, 4 and 10 meters, as per the directions EN ISO 3741 & EN ISO 354.

*⁴ Compressor brand may vary.



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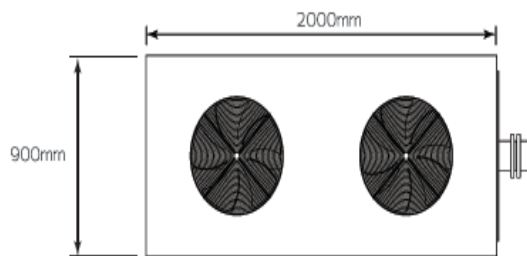
SWIMMING POOL HEAT PUMPS

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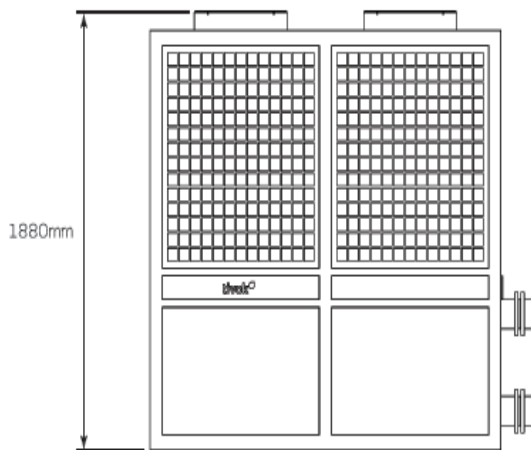
- **100 KW Swimming Pool Heat Pump**

HEIZER Swimming Pool Heat Pumps are an energy efficient way to heat and maintain comfortable swimming pool temperatures.

The heat pump heats chlorinated or salt water pools at an efficiency greater than 5 times^{*1} that of conventional electric or gas heaters.



Plan View



Front View

Technical Specifications		
Air Discharge Platform	Top Discharge	
Defined^{*2} / Max. Output Temperature	28°C	43°C
Working Ambient Temperature Range	-5°C ~ 43°C	
Min./Recommended Water Flow Rate	25 m ³ /hour	35 m ³ /hour
Water Pressure Loss / Max. Water Pressure	30 kPa	1 MPag
Heating Output^{*1} / Power Input^{*1}	100 kW	20.6 kW
Coefficient of Performance (COP)^{*1}	4.85	
Starting Current / Normal Running Current	160 A	40.6 A
Maximum Current	54 A	
Input Voltage / Frequency / Phase	380 – 415 V	50 Hz 3 phase
Heat Pump Unit Dimensions	2000 x 900 x 1880 mm	
Net Weight / Gross Weight	530 Kg	620 Kg
Outlet Fittings	DN50 BSP 2" Female	
Noise Level (1m, 4m, 10m)^{*3}	57 dB(A)	
Refrigerant	R-410A	
IP Rating	Outdoor Rated IPX4	
Water Heat Exchanger Material	Titanium	
Compressor Type/Band^{*4}	Scroll x 2	Sanyo
Controller	Multifunction LCD Controller	

*1 based on ambient air temperature 24°C (DB) / 19°C (WB), inlet water temperature 28°C.

*2 Temperature that all relevant values are calculated at, and default heat pump setting.

*3 Noise level standard: Noise from 1, 4 and 10 meters, as per the directions EN ISO 3741 & EN ISO 354.

*4 Compressor brand may vary.