

HEATING



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Swimming pool heating solutions

Did you know it ?

- Equipping the pool with an isothermal cover allows to divide the power need by 2 !
As a result, if 12kW is needed to heat a pool without cover, 6kW is enough to heat the same pool with a cover.
- Using the heat pump when the outdoor air is the hottest will allow to maximize the performances (hence minimize the electricity consumption). Heating during hot sunny days and covering at night is the optimal solution!
- Covering the pool at night (or when the outdoor air T°C is fresher) with an isothermal cover, will slow down the decrease of pool T°C.

Parameters for choosing a heating system

To define a system suitable for a pool, many parameters need to be considered. The most important parameters (but non-exhaustive) are the ones below:

1. Average outdoor air temperature (°C)
2. Pool water target temperature (in °C)
3. Period of use
4. Pool volume (m³)
5. Presence of an isothermal cover or not
6. Filtration time

To consider all the parameters which impact the sizing of a heating system, online AstralPool configurators are available:

- For professional use, visit our Profluidra website.
- For public use, visit our simplified configurator on AstralPool website.

The choice of heating equipment also depends on the energy source that will be used.

COMPARATIVE TABLE OF RANGES

	Heat pumps	Electric heaters	Heat exchangers
			
Solution	Stand-alone, dedicated to the pool	Stand-alone, dedicated to the pool	Coupled to the domestic heating
Energy used	Electricity	Electricity	Domestic heating source (gas, oil, electricity, renewable, etc.)
Running cost	€ *	€€€	€ to €€€ **
Investment	€€	€	€
Advantages	Energy efficient Low operating cost	Simple installation	Compatible with all heating systems
Uses	All open air or indoor pools	Spas and pools used at weekends or holiday homes	Indoor and outdoor pools close to the boiler in the house

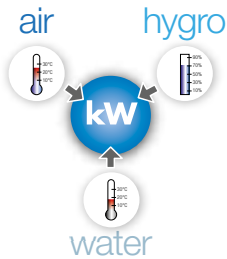
* A heat pump is a very efficient solution which can reconstitute great more power than it consumes thanks to its thermodynamic system.

** The running cost will depend on the heating source. If renewable (e.g solar energy), it will be very low. However, with a gas, oil or electricity heating source, the running costs will be higher.

Heat pumps

Understand the concept of performance

To compare the performance of different heat pumps, it is essential to compare restituted power and performance coefficient.



Two main values characterise the performance of heat pumps: their power and their performance coefficient.

- **Power**, expressed in kW, indicates the quantity of heat transferred to the water. It is expressed in specific climatic conditions to which the heat pump is exposed during use:
 - Temperature of the outside air (in °C)
 - Humidity of the outside air (in %)
 - Temperature of the water in the pool (in °C)

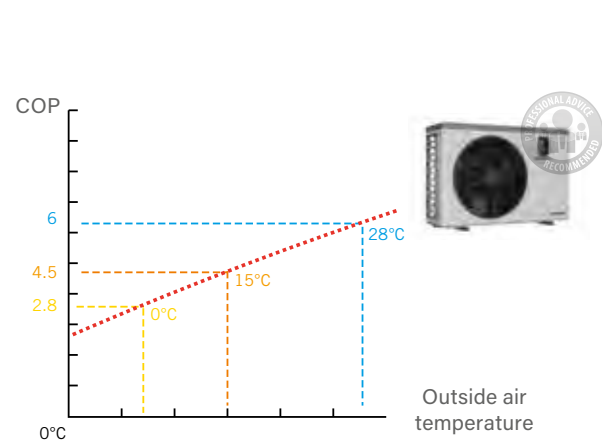
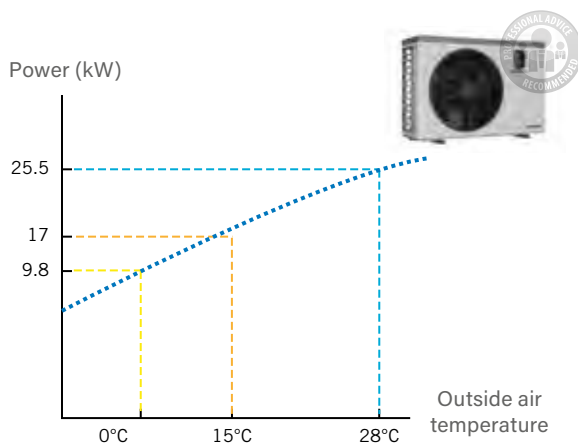
For instance (see graphic below), a Proelyo Touch will restitute 9.8kW @0°C air / 26°C water / 70% humidity, 17kW @15°C air / 26°C water / 70% humidity and 25.5kW @28°C air / 28°C water / 80% humidity.

- **The coefficient of performance (COP)** is the ratio between the restituted power and the power consumption of the heat pump. As a result, it is the ratio at specific climatic conditions too.

As an example, a performance coefficient of 5 means that for 1 kWh consumed at the electricity meter, the heat supplies 5 times more energy to the water in the pool, or 5 kWh.

So the higher the performance coefficient, the more efficient the system.

- **Power and COP for Inverter heat pumps:** It will be indicated as a range (e.g 12 - 3). Indeed, as the purpose of an Inverter heat pump is to adjust its power (=compressor speed) to optimise the efficiency, the power and COP are given at the maximum-minimum speed of the compressor.



Advices for a successful installation

A heat pump system includes 'moving' parts (compressor, fan, etc.), vibrations from which can spread and build up.

To avoid or reduce disturbances, a few installation rules should be followed:

- Favour open spaces (avoid corners or interior courtyards), because sound waves coming from all sides of the system are reflected by the surfaces facing them.
- Do not install the system below or facing a window.
- Relative to neighbouring properties:
 - Install the system as far as possible from property boundaries.
 - The fan should not point towards neighbouring properties.

Understanding the main features of heat pumps

Full Inverter technology

Inverter technology enables a heat pump to change its power mode depending on the temperature of the pool water and the weather conditions.

It therefore runs to achieve the best energy efficiency at the lowest noise level.

3 operating modes:

1. Silent: Ideal to maintain the temperature or at night time

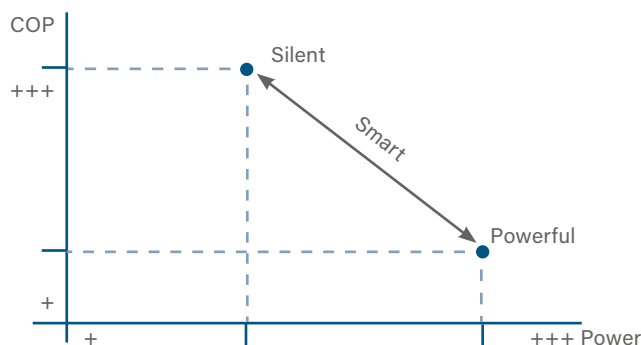
- Heat Pump runs at low power setting
- Compressor operates on low speed ranges to minimize energy consumption
- Lowest noise and highest COP

2. Smart: Automatic power adjustment to maximize comfort and efficiency

- Compressor operates smartly from low to high speed ranges
- Reduced noise and energy consumption

3. Powerful: Ideal to begin the season or to operate in cold conditions

- Heat Pump runs at high power setting
- Compressor operates on high speed ranges to heat the pool faster
- Maximum heating power



Vertical vs Horizontal blowing

Vertical blowing has 2 main advantages:

- It is typically suitable for small spaces as a reduced free area is required around the unit.
- With a same sound level between a horizontal and vertical heat pump, the perceived sound level will be lower for vertical heat pumps because the air is blown upwards.

Active or Passive defrosting

When the outside temperature is low, the evaporator will tend to ice up, which reduces its efficiency: this ice must therefore be removed. There are 2 types of defrosting:

- **Passive defrosting: By ventilation for a seasonal use (Minimum outside air temperature $>+5^{\circ}\text{C}$)**
The heat pump will stand by for a few minutes. Only the fan operates, forcing outside air to defrost naturally. This type of defrosting is only efficient when the outside air temperature is above $+5^{\circ}\text{C}$, for a seasonal use only.
- **Active defrosting: By cycle inversion - for extended or full season (Minimum outside air temperature $<5^{\circ}\text{C}$)**
The refrigerating circuit is reversed, calories from the pool water are used to defrost the evaporator. This type of defrosting allows an extended use as it is able to defrost when the outside temperature is below $+5^{\circ}\text{C}$.

Choosing a heat pump with an automatic cooling mode

It is not recommended to maintain the temperature of the water in the pool at a higher temperature than $+30^{\circ}\text{C}$ to prevent water quality from deteriorating, turning green and damaging the liner. In hot areas, during hot seasons or if the pool is equipped with a shelter, it is common that the pool water temperature can exceed $+30^{\circ}\text{C}$.

A heat pump with an automatic cooling mode will stabilize the pool water temperature at the desired target, below 30°C .

SWIMMING POOL HEATING SOLUTIONS
COMPARATIVE TABLE OF HEAT PUMPS

	Evoline	Bering Inverter	Proelyo Touch	APH3
				

KEY DRIVERS FOR A FAST PRE-SELECTION

Maximum pool size (m ³)*	185	110	205	150
Min Air T°C	+0°C	-7°C	-20°C	-20°C
Seasonality	Extended season	Extended season	All year round	All year round
Technology	ON-OFF	INVERTER	FULL INVERTER	FULL INVERTER
Cooling mode	✓	✓	✓	✓
App control (WiFi)	×	×	×	×
Air blowing type	++ Horizontal	++ Horizontal	++ Horizontal	+++ Vertical
Free area around the heat pump	++	++	++	+++
Electric power supply	Single-phase and three phase	Single-phase	Single-phase and three phase	Single-phase
Can be installed indoor	×	×	×	×

PERFORMANCES

Range of powers (@28°C Air / 28°C Water)	4.7kW to 30.9kW (10 powers)	7kW to 19kW (6 powers)	8.5kW to 35kW (10 powers)	14kW to 26kW (4 powers)
Range of powers (@15°C Air / 26°C Water)	3.2kW to 22.8kW (10 powers)	4.7kW to 13.5kW (6 powers)	6kW to 25kW (10 powers)	9.6kW to 18.5kW (4 powers)
Noise level	+	++	+++	+++
Compressor type	++ ON/OFF	+++ Inverter	+++ Inverter	+++ Inverter
Fan type	+ ON/OFF	+ ON/OFF	+++ Inverter	+++ Inverter
Gas type	R32/R410A	R32	R32/R410A	R32

MODES

Number of modes	1	3 (Automatic or manual)	3 (Automatic or manual)	3 (Automatic or manual)
Silence mode	×	✓ (Automatic if Smart mode or manual, compressor only)	✓ (Automatic if Smart mode or manual, Fan + Compressor)	✓ (Automatic if Smart mode or manual, Fan + Compressor)
Smart mode	✓	✓	✓	✓
Boost/Standard mode	✓	✓ (Automatic if Smart mode or manual)	✓ (Automatic if Smart mode or manual)	✓ (Automatic if Smart mode or manual)

TECHNICAL FEATURES

Defrosting type	+++ Cycle inversion	+++ Cycle inversion	+++ Cycle inversion	+++ Cycle inversion
Casing	ABS	Galvanized steel	ABS	ABS
OTA (over-the-air firmware update)	×	×	×	×

EASE OF USE

Heating priority (filtration control)	✓	✓	✓	✓
Remote HMI	✓	✓	✓	✓
HMI type	LCD LED	LCD	LCD LED	LCD

*For a pool with cover, depth 1.5m, zone 7, 14h filtration time, from May to September.

COMPARATIVE TABLE OF HEAT PUMPS

	Evoline	Bering Inverter	Proelyo Touch	APH3
				

PERFORMANCES COMPARISON AT CLOSE POWERS (@15°C AIR / 26°C WATER)

Power in kW @28°C	14,9 kW	14 kW	15,9 kW	14 kW
COP @28°C	6.3	5.6-8.5**	6-16**	6.7-13**
Power in kW @15°C	10,7 kW	9,5 kW	11 kW	9.6 kW
COP @15°C	4.9	4-5.8**	4.5-8**	5.1-8.5**
Acoustic pressure (dB) @1m	56	47-56**	40-54**	40-54**

WARRANTY

Heat Pump	2 years	2 years	2 years	2 years
Condenser	7 years	7 years	7 years	7 years

INCLUDED ACCESSORIES

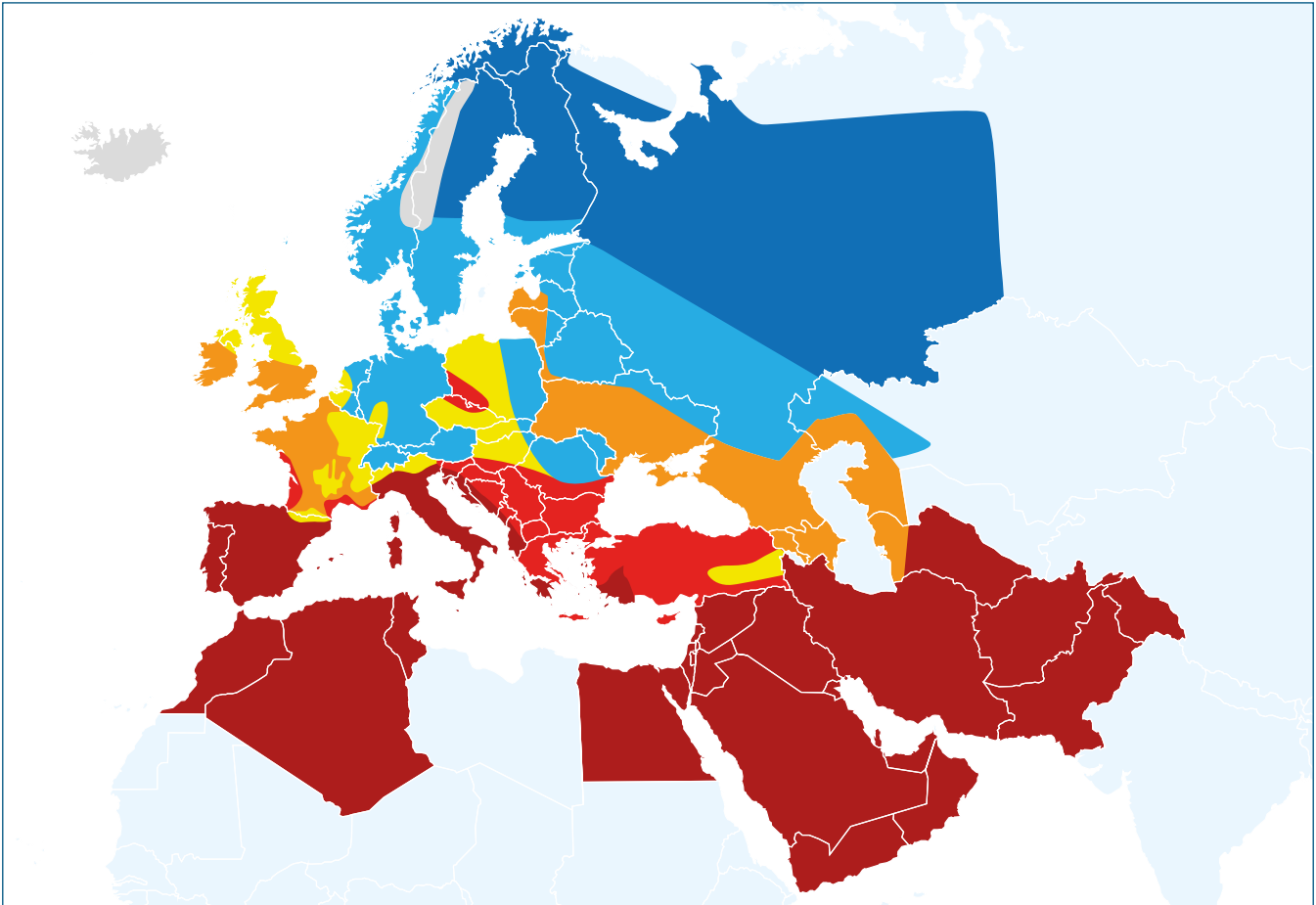
	• 1 x Winter Cover.	• 1 x Winter Cover.	• 1 x Winter Cover.	• 1 x Winter Cover.
	• Condensate drain kit	• Condensate drain kit	• Condensate drain kit	• Condensate drain kit
	• PVC and gaskets, 1/2 unions, Ø 38 (1"1/2)	• PVC and gaskets, 1/2 unions, Ø 50	• PVC and gaskets, 1/2 unions, Ø 50	• PVC and gaskets, 1/2 unions, Ø 50
	• Anti-vibration feet	• Anti-vibration feet	• Anti-vibration feet	• Anti-vibration feet
	• Remote control kit (including 10m extension cable).	• Remote control kit (including 10m extension cable).		• Remote control kit (including 10m extension cable).
			• 1 x 10m Modbus Signal wire (to connect the Heat Pump to the Connect Box).	• 1 x 10m Modbus Signal wire (to connect the Heat Pump to the Connect Box).

OPTIONAL ACCESSORIES

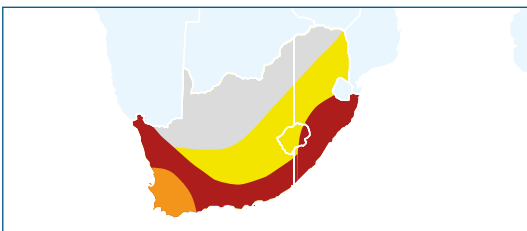
			• 1 x remote display kit (new display + 10m wire).	
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** @max-min speed.

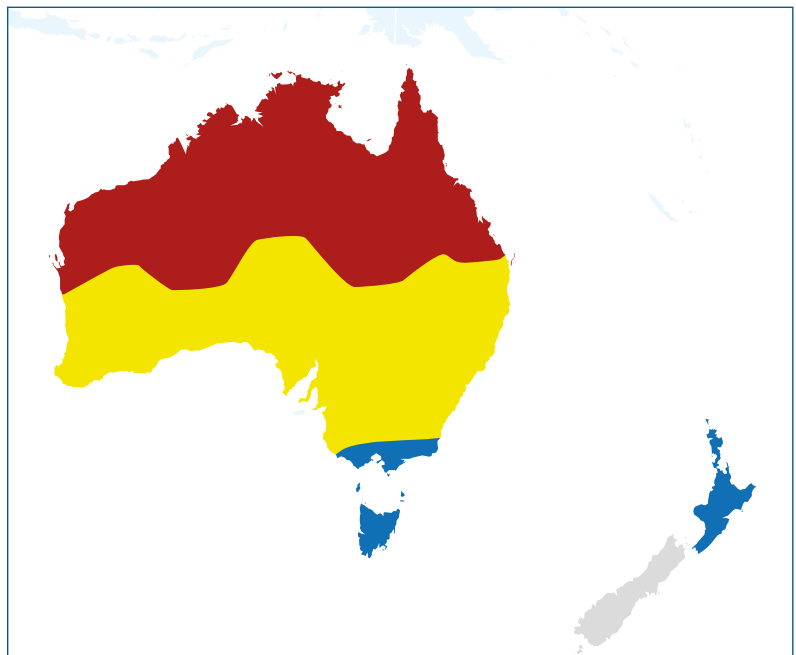
CLIMATE ZONES



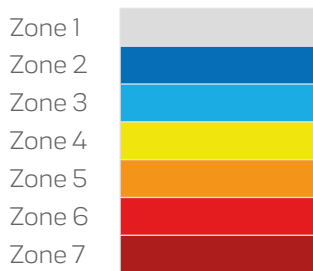
SOUTH AFRICA



AUSTRALIA



Pool location zones



Caribbean Islands, Reunion Island, Canary Islands are part of Zone 7.

AstralPool Heat 3



Fluidra Connect compatible


<150M³

- + Full inverter technology: silent and energy saving.
- + Vertical air blowing for increased comfort.
- + - 20°C lowest outdoor air working temperature.

DESCRIPTION

- Detachable display.
- Digital touchscreen.
- Heating priority mode (filtration pump control).
- ABS plastic housing.
- DC, variable speed fan.
- Automatic cooling mode.
- Titanium water exchanger condenser.
- Inverter Rotary compressor.

ACCESSORIES INCLUDED IN THE PACK

- 1 x Winter Cover.
- 4 x Anti-vibration feet.
- Condensate drainage kit.
- 1 x remote display kit (including 10m extension cable).
- 1 x 10m Modbus Signal wire (to connect the Heat Pump to the Connect Box).
- 2 x PVC fittings ½ union Ø 50.

TECHNICAL FEATURES

Model		APH3-14	APH3-17	APH3-21	APH3-26
Reference		68837	68838	68839	68840
Refrigerant fluid		R32			
Refrigerant fluid quantity	Kg	1.4	1.8		2.6
Recommended water flow	m ³ /h	4	5	6	8
Hydraulic connection	mm	Ø50			
Electric power supply	V/Ph/Hz	220*240V/ 50Hz or 60Hz/ 1PH			
Nominal operating power	A	8.1	9.8	12	16
Maximum operating power	A	11.5	14	17	22.5
Recommended power cable section ⁽¹⁾	mm ²	3 x 2.5		3 x 4	
Acoustic pressure (lp) at 1m (@max-min speed)	dB (A)	40 - 54	41 - 56		42 - 60

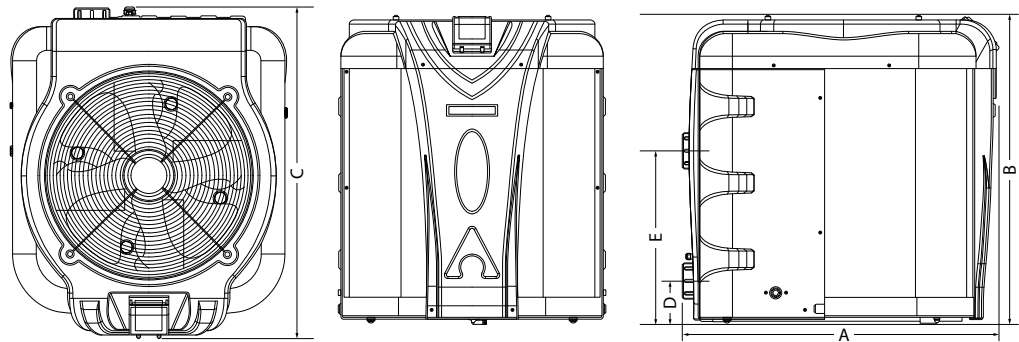
HEATING PERFORMANCE

Model		APH3-14	APH3-17	APH3-21	APH3-26
AIR 28°C / WATER 28°C / HUMID. 80%					
Heating capacity (@max-min speed)	(kW)	14 - 3	17 - 3.6	21 - 4.6	26 - 6
Power consumption (@max-min speed)	(kW)	2.1 - 0.2	2.5 - 0.3	3.1 - 0.4	3.9 - 0.5
COP (@max-min speed)		6.7 - 13			
AIR 15°C / WATER 26°C / HUMID. 70%					
Heating capacity (@max-min speed)	(kW)	9.6 - 2.1	11.5 - 2.5	14.3 - 3.2	18.5 - 4.2
Power consumption (@max-min speed)	(kW)	1.9 - 0.2	2.3 - 0.3	2.9 - 0.4	3.6 - 0.5
COP (@max-min speed)		5.1 - 8.5			

(1) For a maximum length of 20 meters.

WEIGHT AND DIMENSIONS

Model		APH3-14	APH3-17	APH3-21	APH3-26
Weight	kg	70	75	92	111
A	mm		820		950
B	mm		830		1025
C	mm		695		900
D	mm		130		130
E	mm		470		660



For complete technical & dimensional details, refer to the datasheet/user manual.

HEAT PUMPS SELECTION GUIDE

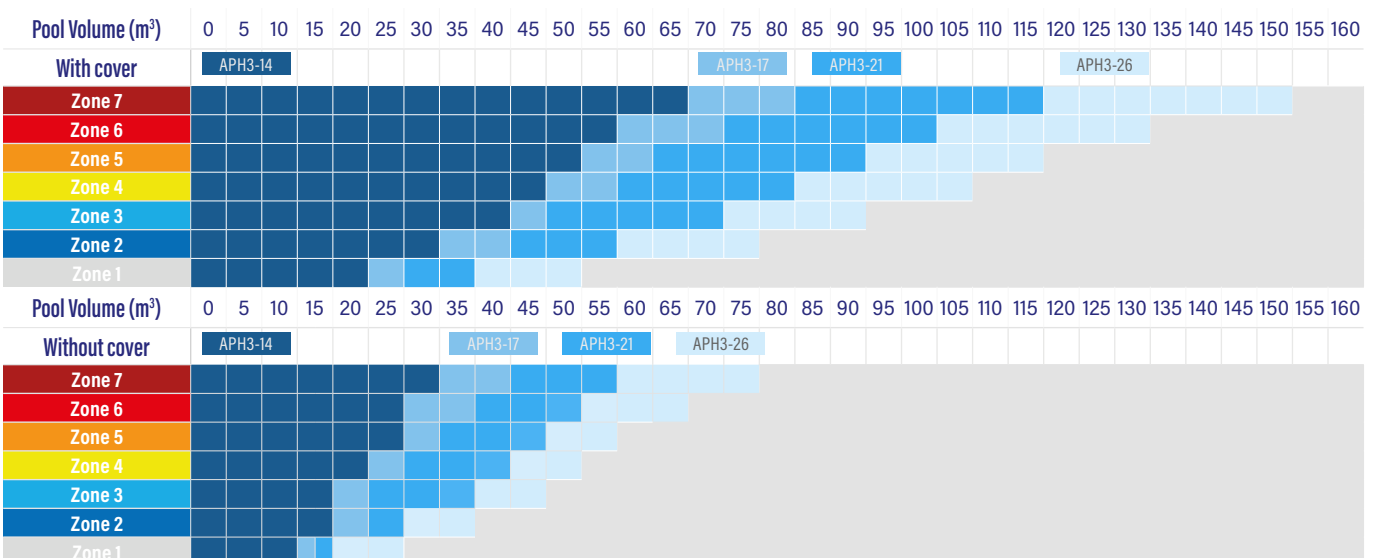
Parameters of the quick selection guide

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

Select the power in less than 1 minute

How to read: For a 35m³ pool, with cover, located in zone 4, an APH3-14 is needed*.

*To find the corresponding pool location zone, consult our climate map in page 669.



AstralPool recommends to use the web configurators to get a more accurate sizing

For professional use, visit our configurator on Profluidra website.
For public use, visit our simplified configurator on AstralPool website.

Pro Elyo Touch



- + Full inverter technology: silent and energy saving.
- + 8 power levels from 8.5 kW to 35 kW*.
- + - 20°C lowest outdoor air working temperature.

*Temperature conditions of 28°C Air / 28°C Water

DESCRIPTION

- New, wide LED touchscreen.
- Heating priority mode (filtration pump control).
- ABS plastic housing with new injected fan grid; galvanized steel protection grid around the evaporator.
- DC, variable speed fan.
- Automatic cooling mode.
- Automatic defrosting.
- Titanium water exchanger.
- Inverter Rotary compressor.



<205M³

ACCESSORIES INCLUDED IN THE PACK

- 1 x Winter Cover.
- 4 x Anti-vibration feet.
- Condensate drainage kit.
- 1 x 10m Modbus Signal wire (to connect the heat pump to the Connect Box).
- 2 x PVC fittings ½ union Ø 50.

OPTIONAL ACCESSORIES

- Remote display kit. Code: 74199.

TECHNICAL FEATURES

Model		PET-08	PET-10	PET-13	PET-15	PET-19	PET-25	PET-30	PET-35	PET-30T	PET-35T
Reference		74166	74167	74168	74169	74170	74171	74172	74173	74174	74175
Refrigerant fluid		R32								R410A	
Refrigerant fluid quantity	Kg	0.65	0.7	1	1.1	1.5	1.9	2	2.6	3.8	4
Recommended water flow	m ³ /h	4	5	6	7	8	10	13			
Hydraulic connection	mm	PVC 1/2 union Ø50									
Electric power supply	V/Ph/Hz	220*240V/ 50Hz or 60Hz/ 1PH								380V/ 50Hz or 60Hz/ 3PH	
Nominal operating power	A	4.6	5.9	7.2	9.2	10.5	13.2	17.0	22.9	7	8.4
Maximum operating power	A	6.4	8.3	10.0	13.0	14.7	18.5	24.0	32.0	9.8	11.8
Recommended power cable section ⁽¹⁾	mm ²	3x1.5		3x2.5			3x4		3x6	5x2.5	5x4
Acoustic pressure (Lp) at 1m (@max-min speed)	dB (A)	38-51	39-52	40-52	40-54	40-54	41-56	42-60	42-60	42-60	42-60
Number of fans	Units	1						2			

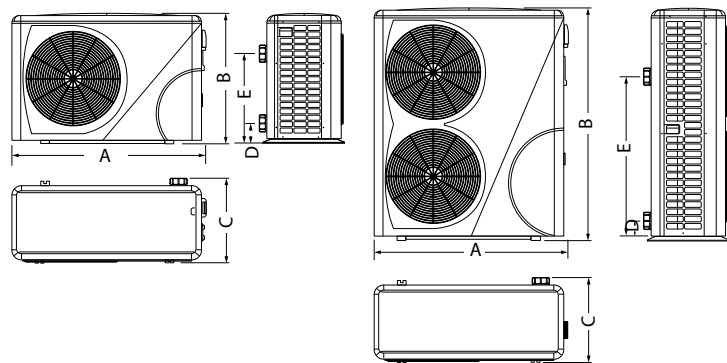
HEATING PERFORMANCE

Model		PET-08	PET-10	PET-13	PET-15	PET-19	PET-25	PET-30	PET-35	PET-30T	PET-35T
AIR 28°C / WATER 28°C / HUMID. 80%											
Heating capacity (@max-min speed)	(kW)	8.50 - 1.9	10.5 - 2.3	13.5 - 3	15.9 - 3	19.8 - 3.8	25.5 - 4.7	30.0 - 6	35 - 8	30.0 - 6	35 - 8
Power consumption (@max-min speed)	(kW)	1.5 - 0.2	1.7 - 0.15	2.2 - 0.2	2.6 - 0.2	3.3 - 0.25	4.2 - 0.3	5 - 0.35	5.9 - 0.5	5 - 0.35	5.9 - 0.5
COP (@max-min speed)		5.8 - 15	6.2 - 16		6 - 16						
AIR 15°C / WATER 26°C / HUMID. 70%											
Heating capacity (@max-min speed)	(kW)	6.0 - 2.5	7.5 - 2	9.0 - 2	11.0 - 2.5	13 - 3	17 - 4	21.0 - 5.5	25.0 - 5.5	21.0 - 5.5	25.0 - 5.5
Power consumption (@max-min speed)	(kW)	1.4 - 0.3	1.75 - 0.25	2.0 - 0.25	2.5 - 0.3	2.9 - 0.4	3.9 - 0.5	4.6 - 0.7	5.4 - 0.7	4.6 - 0.7	5.4 - 0.7
COP (@max-min speed)		4.5 - 8									

(1) For a maximum length of 20 meters.

WEIGHT AND DIMENSIONS

Model		PET-08	PET-10	PET-13	PET-15	PET-19	PET-25	PET-30	PET-35	PET-30T	PET-35T
Weight	kg	56	68	73	78	98	117	128	130	128	130
A	mm	1008		1050			1050			1050	
B	mm	577		709			870			1285	
C	mm	380		440			450			460	
D	mm	111.5		101			111.5			111.5	
E	mm	411.5		491			711.5			911.5	



For complete technical & dimensional details, refer to the datasheet/user manual.

HEAT PUMPS SELECTION GUIDE

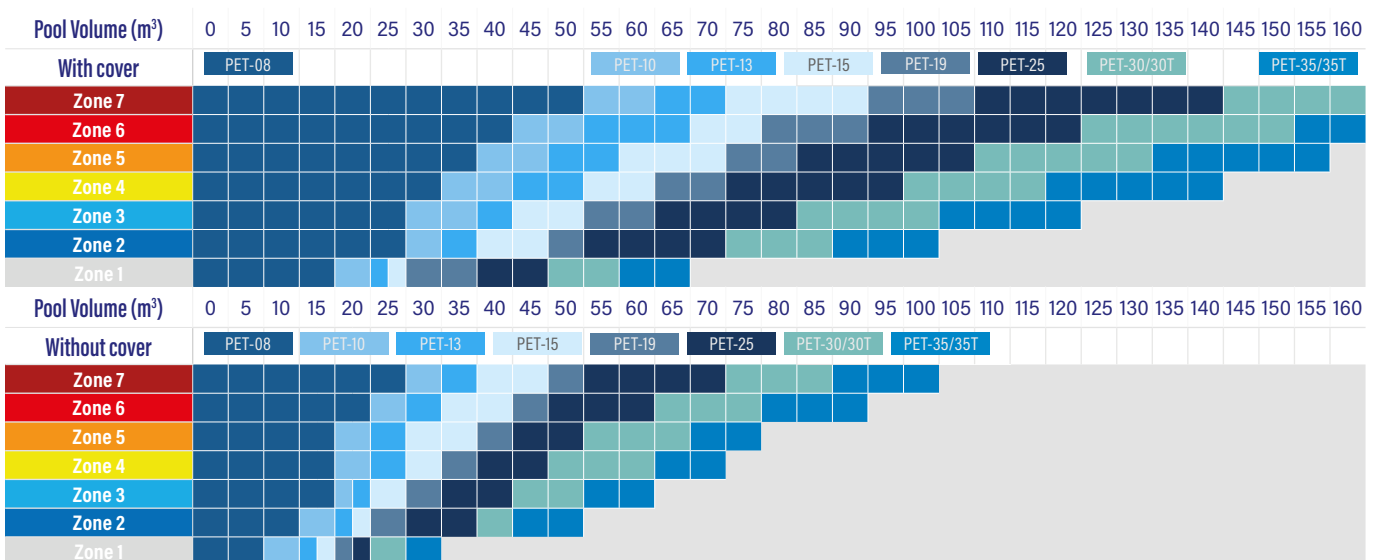
Parameters of the quick selection guide

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

Select my heat pump in less than 1 minute

For a 35m³ pool, with cover, located in zone 4, a PET-10 is needed*.

*To find the corresponding pool location zone, consult our climate map in page 669.



AstralPool recommends to use the web configurators to get a more accurate sizing (change pool shape, pool depth, target pool water temperature, period of use...).

For professional use, visit our configurator on Profluidra website.
For public use, visit our simplified configurator on AstralPool website.

Bering Inverter



- + Inverter technology: silent and energy saving.
- + Heating and Cooling regulation.
- + -7°C lowest outdoor air working temperature.

DESCRIPTION

- Detachable display.
- LCD display
- Heating priority mode (filtration pump control).
- Galvanized steel housing.
- AC, variable speed fan.
- Automatic cooling mode.
- Automatic defrosting.
- Titanium water exchanger.
- Inverter Rotary compressor.especially for corrosive environments.
- Control of purifying system.
- Automatic electrical protections.



<110M³

ACCESSORIES INCLUDED IN THE PACK

- 1 x Winter Cover.
- 4 x Anti-vibration feet.
- Condensate drainage kit.
- 1 x remote display kit (including 10m extension cable).
- 2 x PVC fittings Ø 50.

TECHNICAL FEATURES

Model		Bering Inverter 7kW	Bering Inverter 9kW	Bering Inverter 11kW	Bering Inverter 14kW	Bering Inverter 16kW	Bering Inverter 20kW
Reference		BEXP07i	BEXP09i	BEXP11i	BEXP14i	BEXP16i	BEXP20i
Refrigerant fluid		R32					
Refrigerant fluid quantity	Kg	0.5	0.65	0.75	0.95	1.1	1.5
Recommended water flow	m ³ /h	2.5	2.8	3.7	4	4.6	5.6
Hydraulic connection	mm	Ø50					
Electric power supply	V/Ph/Hz	220*240V / 50Hz or 60Hz / 1PH					
Nominal operating power	A	5.9	7.2	8.7	11	12.4	15
Maximum operating power	A	8.5	10	12.5	15.5	17	21
Recommended power cable section ⁽¹⁾	mm ²	3 x 2.5				3 x 4	
Acoustic pressure (Lp) at 1m (@max-min speed)	dB (A)	45 - 52		46 - 54	47 - 56		49 - 58

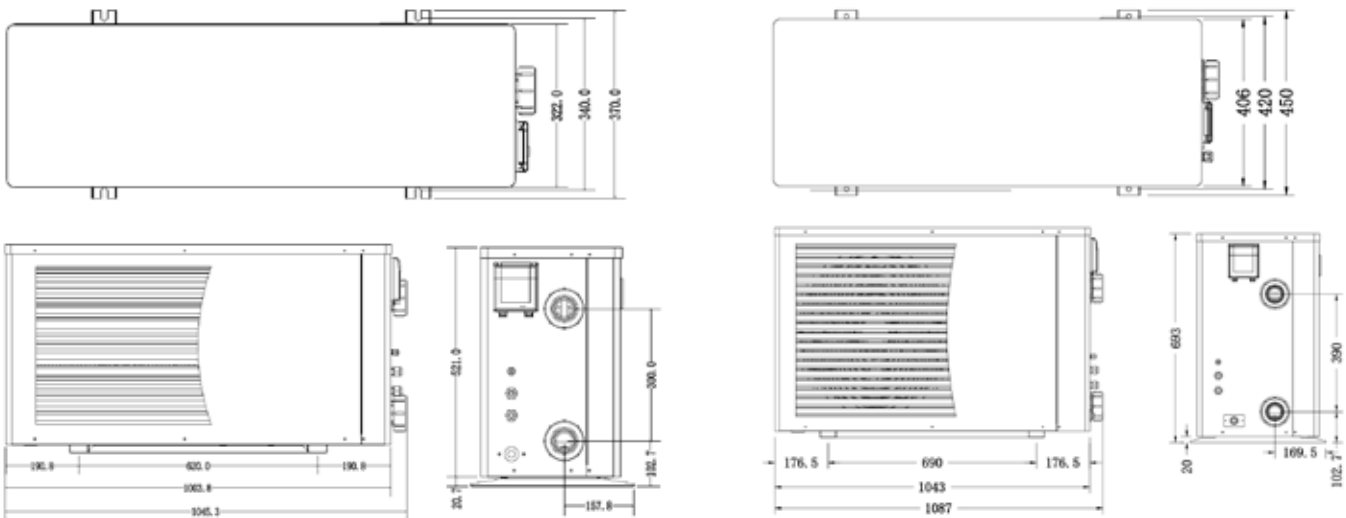
HEATING PERFORMANCE

Model		Bering Inverter 7kW	Bering Inverter 9kW	Bering Inverter 11kW	Bering Inverter 14kW	Bering Inverter 16kW	Bering Inverter 20kW
AIR 28°C / WATER 28°C / HUMIDITY 80%							
Heating capacity	(kW)	7 - 3.3	9 - 3.5	11 - 4.8	14 - 5	16 - 5.3	19 - 5.7
Power consumption	(kW)	1.32 - 0.43	1.61 - 0.43	1.96 - 0.6	2.5 - 0.63	2.85 - 0.66	3.39 - 0.67
CDP		8.0 - 5.3		8.5 - 5.6			
AIR 15°C / WATER 26°C / HUMIDITY 70%							
Heating capacity	(kW)	4.7 - 2.4	6.3 - 2.5	7.8 - 3.4	9.5 - 3.5	11.2 - 3.6	13.5 - 3.9
Power consumption	(kW)	1.18 - 0.41	1.56 - 0.42	1.94 - 0.57	2.38 - 0.59	2.8 - 0.62	3.36 - 0.66
CDP		5.6 - 4		5.8 - 4			

(1) For a maximum length of 20 meters.

STANDARD AND CHILLER MODELS - WEIGHT AND DIMENSIONS

Model		Bering Inverter 7kW	Bering Inverter 9kW	Bering Inverter 11kW	Bering Inverter 14kW	Bering Inverter 16kW	Bering Inverter 20kW
Weight	kg	54	56	68	73	78	98



For complete technical & dimensional details, refer to the datasheet/user manual.

HEAT PUMPS SELECTION GUIDE

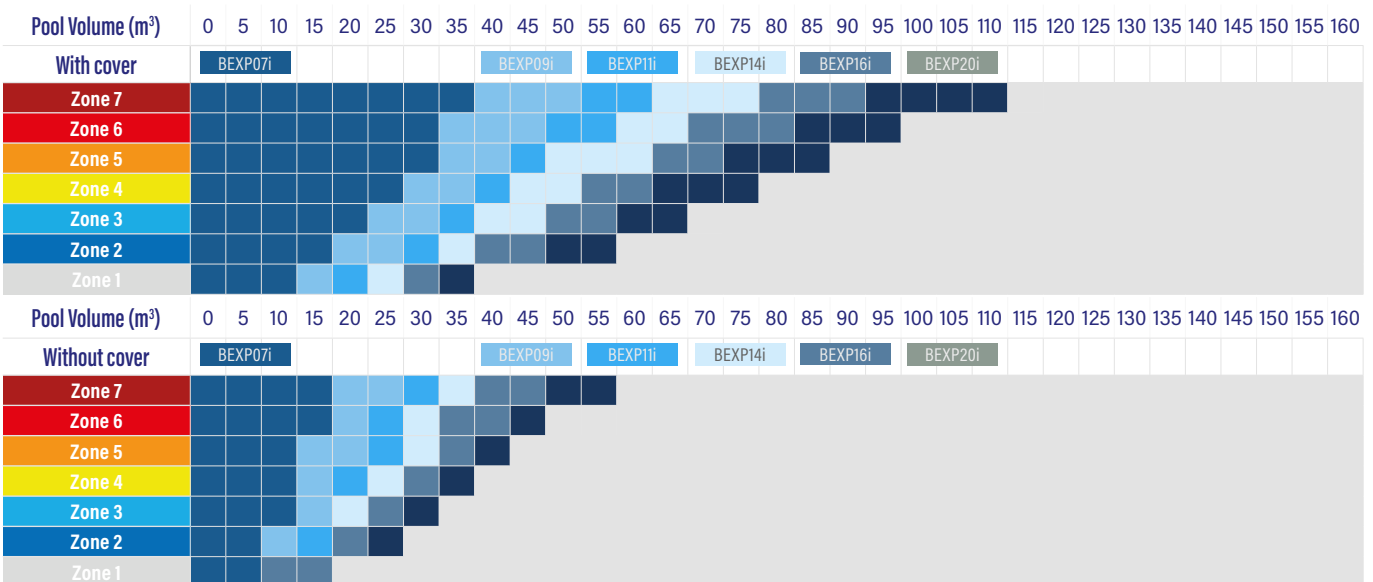
Parameters of the quick selection guide

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

Select my heat pump in less than 1 minute

For a 35m³ pool, with cover, located in zone 4, an BEXP09i is needed*.

*To find the corresponding pool location zone, consult our climate map in page 669.



AstralPool recommends to use the web configurators to get a more accurate sizing (change pool shape, pool depth, target pool water temperature, period of use...).

For professional use, visit our configurator on Profluidra website.
For public use, visit our simplified configurator on AstralPool website.

Evoline



- + 8 power levels from 4.7 kW to 30.9 kW*.**
- + Smooth and quiet performance down to 0°C outdoor air temperature.**
- + Automatic Heating and Cooling regulation.**

*Temperature conditions of 28°C Air / 28°C Water

DESCRIPTION

- LCD (LED) display, detachable.
- Heating priority mode (filtration pump control).
- ABS plastic housing.
- AC fan.
- Automatic cooling mode.
- Automatic defrosting.
- Titanium water exchanger.
- Scroll compressor.



<185M³

ACCESSORIES INCLUDED IN THE PACK

- 1 x Winter Cover.
- 4 x Anti-vibration feet.
- Condensate drainage kit.
- 1 x remote display kit (including 10m extension cable).
- 2 x PVC fittings Ø 38 (1¹/₂).

TECHNICAL FEATURES

Model		Evoline 6	Evoline 10	Evoline 13	Evoline 15	Evoline 17	Evoline 20	Evoline 25	Evoline 20T	Evoline 25T	Evoline 35T	
Reference		66069-R32	66070-R32	66071-R32	66072-R32	67405-R32	66073M-R32	66074M-MOD	66073-R32	66074-R32	66075-R32	
Refrigerant fluid		R32						R410A	R32			
Refrigerant fluid quantity	Kg	0.4	0.75	0.9	1.1	1.15	1.1	2.3	1.1	1.45	2.2	
Recommended water flow	m ³ /h	2.5	4.5	6	7.5	9	11	13	11	13	19	
Hydraulic connection	mm	ø38 (1 ¹ / ₂)										
Electric power supply	V/Ph/Hz	220*240V / 50 / 1PH						380V / 50Hz or 60Hz / 3PH				
Nominal operating power	A	4.1	6.2	8.9	9.7	11	13.5	16.8	5.1	5.6	10.1	
Maximum operating power	A	5.3	8	11.6	12.6	14.2	20.3	25.2	6.7	7.3	13.6	
Recommended power cable section ⁽¹⁾	mm ²	3x1.5	3x2.5			3x4		5x2.5		5x4		
Acoustic pressure (Lp) at 1m	dB (A)	<55	<52		<56	<51	<59	<56	<59	<60		
Number of fans	Units	1									2	

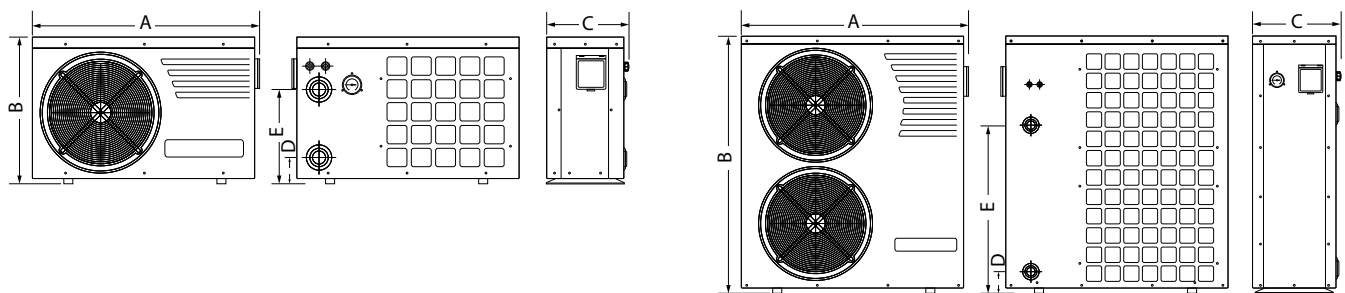
HEATING PERFORMANCE

Model		Evoline 6	Evoline 10	Evoline 13	Evoline 15	Evoline 17	Evoline 20	Evoline 25	Evoline 20T	Evoline 25T	Evoline 35T
AIR 28°C / WATER 28°C / HUMID. 80%											
Heating capacity	(kW)	4.7	7.4	10.4	11.6	14.9	17.4	22.7	18.5	22.3	30.9
Power consumption	(kW)	0.9	1.3	1.9	2.1	2.4	2.9	3.6	3.0	3.2	4.9
COP		5.4	5.6	5.4	5.6	6.3	5.9	6.4	6.3	6.9	6.4
AIR 15°C / WATER 26°C / HUMID. 70%											
Heating capacity	(kW)	3.2	5.5	7.6	8.4	10.7	12.9	16.3	13.4	16.1	22.8
Power consumption	(kW)	0.8	1.2	1.7	1.9	2.2	2.8	3.5	2.9	3.2	4.8
COP		4.0	4.7	4.5		4.9	4.6	4.7		5.0	4.8

(1) For a maximum length of 20 meters.

WEIGHT AND DIMENSIONS

Model		Evoline 6	Evoline 10	Evoline 13	Evoline 15	Evoline 17	Evoline 20	Evoline 25	Evoline 20T	Evoline 25T	Evoline 35T
Weight	kg	33	48	54	60	68	92	99	92	103	120
A	mm	798	958	1015				1080		1080	
B	mm	511	581	621				708		1258	
C	mm	293	360	370				416		446	
D	mm	100	115	111		98.5		99			
E	mm	335	365	411		498.5		499		599	



For complete technical & dimensional details, refer to the datasheet/user manual.

HEAT PUMPS SELECTION GUIDE

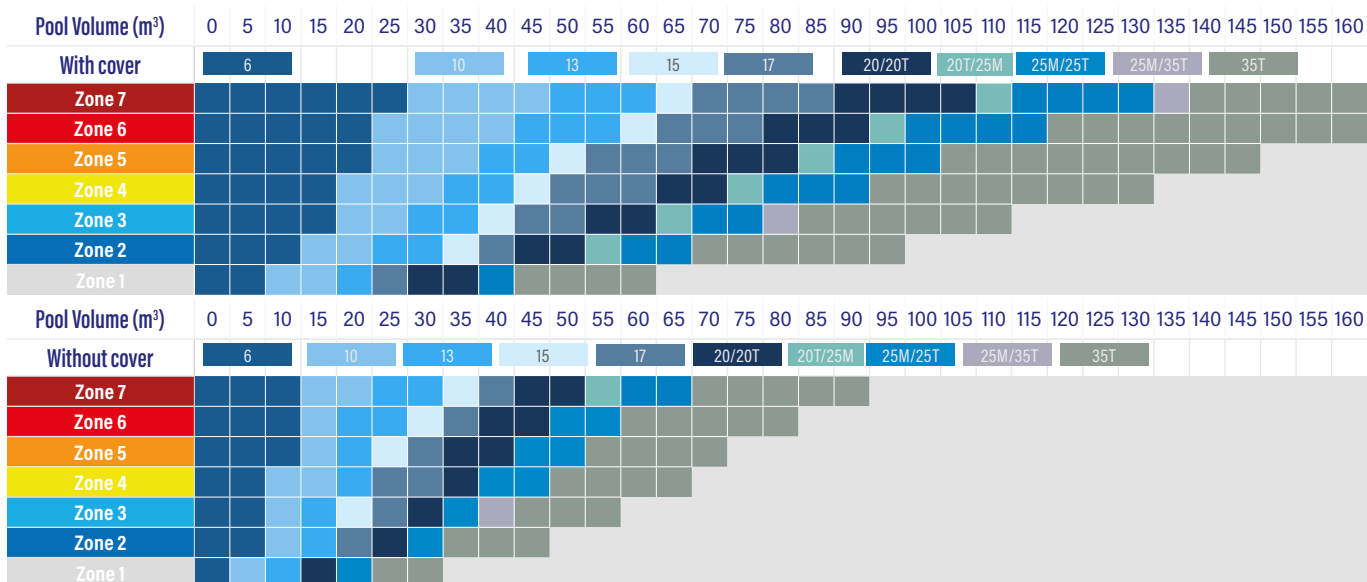
Parameters of the quick selection guide

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

Select my heat pump in less than 1 minute

For a 35m³ pool, with cover, located in zone 4, an EVOLINE 13 is needed*.

*To find the corresponding pool location zone, consult our climate map in page 669.



AstralPool recommends to use the web configurators to get a more accurate sizing (change pool shape, pool depth, target pool water temperature, period of use...).

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For public use, visit our simplified configurator on AstralPool website.

Optima



<130m³

Includes Modbus connection

DESCRIPTION

- +5°C minimum outdoor air temperature.
- Robust, lightweight ABS casing made from magnesium coated aluminium.
- Standard: Operating as a heat pump with reverse cycle defrosting.
- Chiller: Providing heat or cold to maintain the temperature of the pool with reverse cycle defrosting.
- Scroll compressor.
- Titanium condensers made of PVC casing and TITANIUM G2 coil. Guaranteed against corrosion. It includes drainage for care in the winter.

TECHNICAL FEATURES

Model		OPTIMA-7	OPTIMA-15
Reference	CHILLER	45694-MOB	45696-MOB
Water flow	STANDARD	m ³ /h	12
	CHILLER	m ³ /h	16
Electric power supply	V/Ph/Hz	230/1/50	220/1/50

HEATING PERFORMANCE

Model		OPTIMA-7	OPTIMA-15
AIR 15°C / WATER 26°C			
Heating capacity	(kW)	8.9	16
Power consumption	(kW)	1.8	3.5
COP		4.9	4.6

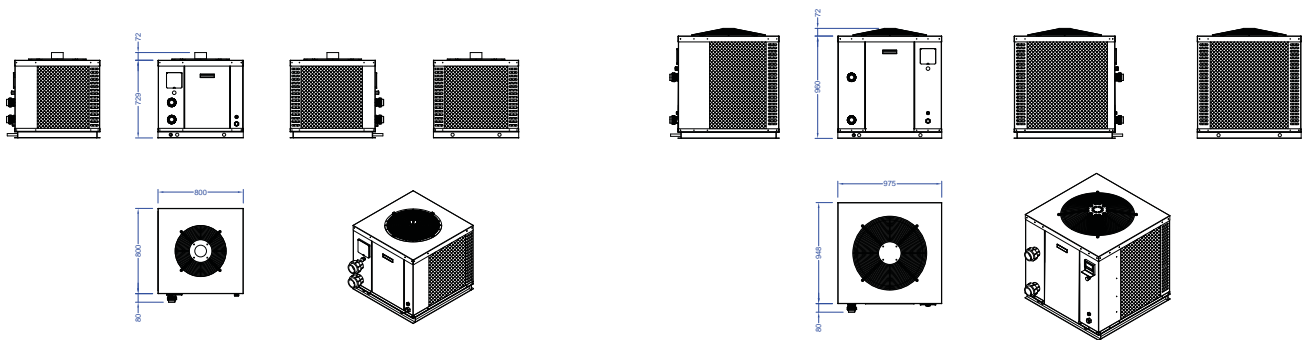
COOLING PERFORMANCE

Chiller models		OPTIMA-7	OPTIMA-15
AIR 30°C / WATER 26°C			
Cooling capacity	(kW)	9.2	15.7
Power consumption	(kW)	2	3.9
EER		4.7	4.1
AIR 35°C / WATER 26°C			
Cooling capacity	(kW)	8.6	14.7
Power consumption	(kW)	2.2	4.3
EER		3.9	3.5

Operating limits and conditions: Maximum water temperature: 40 °C. Maximum water pressure on entering the machine: 3.5 bar.

STANDARD AND CHILLER MODELS - WEIGHT AND DIMENSIONS

Model		OPTIMA-7	OPTIMA-15
Weight	kg	-	-
A	mm	800	975
B	mm	801	1032
C	mm	880	1028
D	mm	173	173
E	mm	333	573



For complete technical & dimensional details, refer to the datasheet/user manual.

HEAT PUMPS SELECTION GUIDE

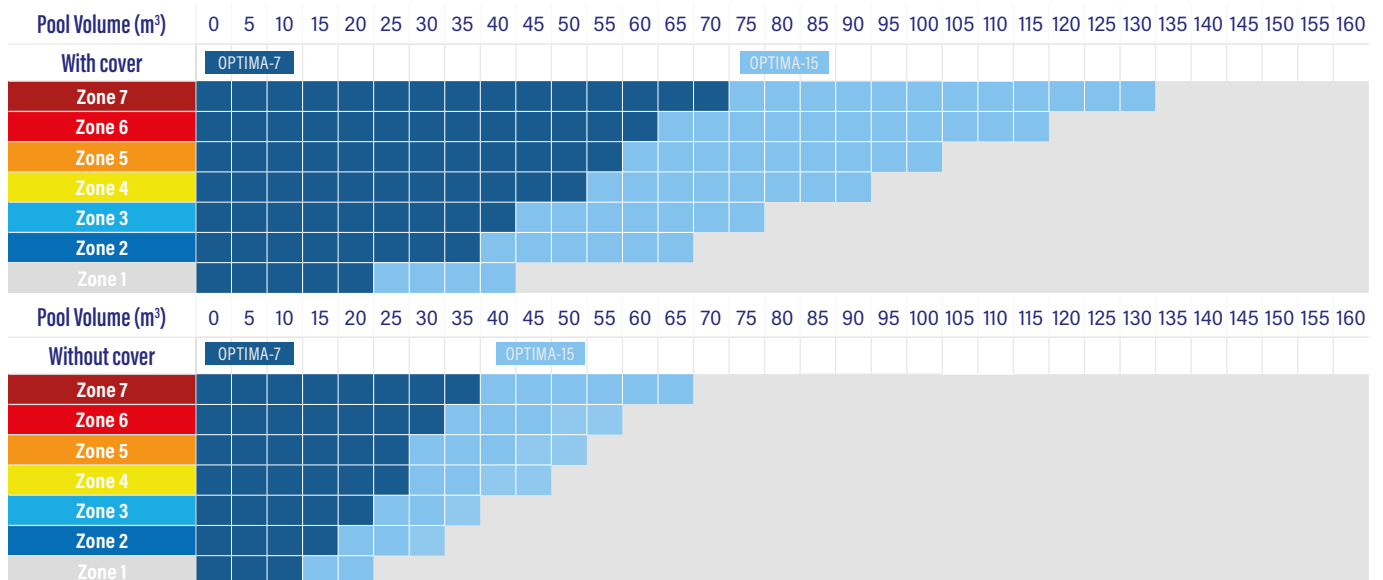
Parameters of the quick selection guide

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

Select my heat pump in less than 1 minute

For a 35m³ pool, with cover, located in zone 2, an OPTIMA-7 is needed*.

*To find the corresponding pool location zone, consult our climate map in page 669.



AstralPool recommends to use the web configurators to get a more accurate sizing (change pool shape, pool depth, target pool water temperature, period of use...).

For professional use, visit our configurator on Profluidra website.
For public use, visit our simplified configurator on AstralPool website.

Maya



<205m³

Includes Modbus connection

DESCRIPTION

- +5°C minimum outdoor air temperature.
- Compact design for installation in a pump room.
- Made of non-corrosive magnesium coated aluminium.
- Direct transmission centrifugal ventilator.
- Scroll compressor.
- Titanium condensers with PVC shells and in G2 titanium coil according to ASTM B 338.99 standard. Guaranteed against corrosion.

TECHNICAL FEATURES

Model		MAYA-15	MAYA-25
Reference		32505-MOB	32506-MOB
Recommended water flow	m ³ /h	7	8
Air flow	m ³ /h	2500	6000
Hydraulic connection	mm	50	
Electric power supply	V/Ph/Hz	400/3/50	
Refrigerant fluid quantity	Kg	2.5	4.5

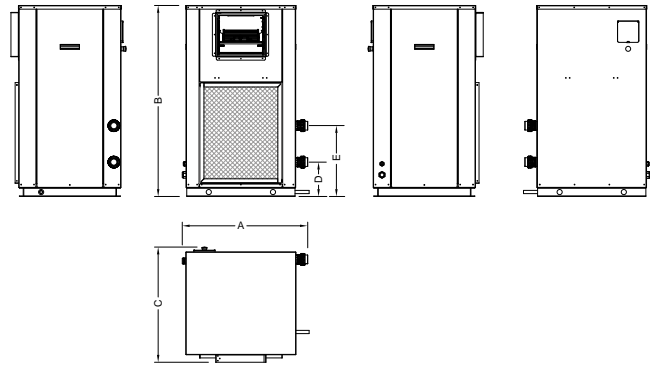
HEATING PERFORMANCE

Model		MAYA-15	MAYA-25
AIR 15°C / WATER 26°C			
Heating capacity	(kW)	16.3	24.8
Power consumption	(kW)	3.6	5.7
COP		4.5	4.3

Operating limits and conditions: Maximum water temperature: 36 °C. Maximum water pressure on entering the machine: 3.5 bar.

STANDARD AND CHILLER MODELS - WEIGHT AND DIMENSIONS

Model			MAYA-15	MAYA-25
Weight	kg			
Dimensions	mm	A	854	1055
		B	1300	1735
		C	784	784
		D	234	234
		E	482	482



For complete technical & dimensional details, refer to the datasheet/user manual.

HEAT PUMPS SELECTION GUIDE

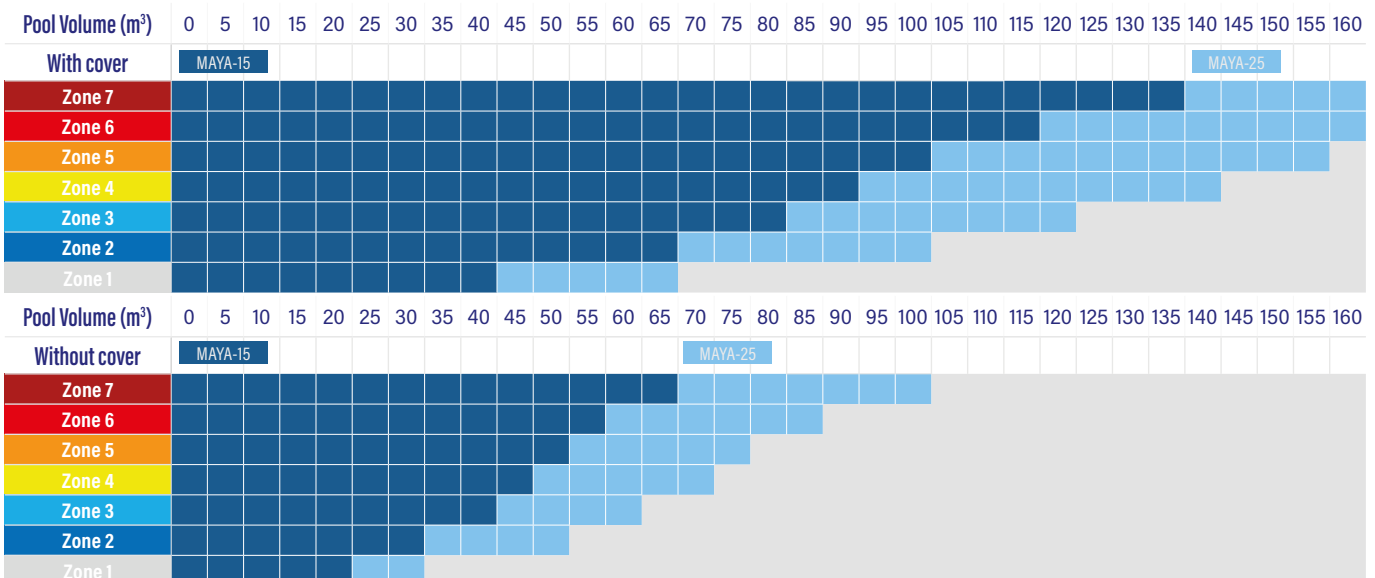
Parameters of the quick selection guide

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

Select my heat pump in less than 1 minute

For a 35m³ pool, with cover, located in zone 4, a Maya-15 is needed*.

*To find the corresponding pool location zone, consult our climate map in page 669.



AstralPool recommends to use the web configurators to get a more accurate sizing (change pool shape, pool depth, target pool water temperature, period of use...).

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For public use, visit our simplified configurator on AstralPool website.

Alaska - Siberia



ALASKA



SIBERIA



Includes Modbus connection

The fan is fitted vertically in the Alaska 10, 15 and 17 models

DESCRIPTION

- +5°C minimum outdoor air temperature.
- 2 compact models: For outdoor (Alaska) or indoor (Siberia) installation.
- Digital display.
- Heating priority (filtration pump control).
- Made of non-corrosive magnesium coated aluminium.
- Helicoidal ventilators with direct coupling motor for the Alaska model, centrifugal for the Siberia model.
- Defrosting thermostat in evaporator for enhanced performance.
- HP & LP safety pressure switch.
- Water flow switch.
- Condensor made of copper pipe with coated aluminium fins (special for corrosive environments).
- Scroll compressor with carter resistance and deoxidized copper.
- Thermostatic expansion valve.
- Titanium evaporator with PVC shell and in G2 titanium coil according to ASTM B 338.99 standard. Guaranteed against corrosion.
- Anti-acid dehydrating filter.

TECHNICAL FEATURES

Model		ALASKA-4	ALASKA-6	ALASKA-8	ALASKA-10	ALASKA-15	ALASKA-17
Reference		32535-MOB	32536-MOB	32537-MOB	32538-MOB	32540-MOB	32541-MOB
Model		SIBERIA-4	SIBERIA-6	SIBERIA-8	SIBERIA-10	SIBERIA-15	SIBERIA-17
Reference		33301-MOB	33302-MOB	33303-MOB	33304-MOB	33306-MOB	33307-MOB
Refrigerant FLUID		R-407C					
Recommended pool volume	m ³	5-9	7-14	10-20	13-26	18-36	25-50
Recommended water flow	m ³ /h	6-10	6-10	7-12	7-12	10-15	10-15
Air flow	m ³ /h	3800	4900	5500	9800	11000	
Hydraulic connection	mm	50					
Electric power supply	V/Ph/Hz	230/1/50			400/3/50		
Refrigerant fluid quantity	Kg	2	4.3	4.8	5.5	6.3	6.6
Number of fans		1				2	

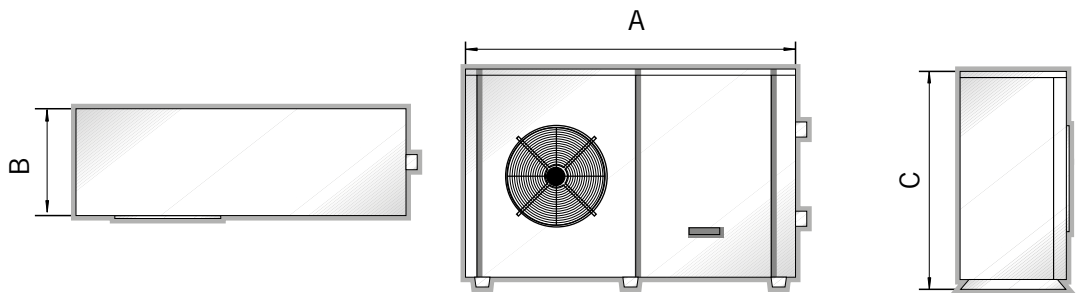
COOLING PERFORMANCE

Alaska models		ALASKA-4	ALASKA-6	ALASKA-8	ALASKA-10	ALASKA-15	ALASKA-17
AIR 27°C / WATER 12°C							
Cooling capacity	(kW)	4.4	5.7	8.9	10.7	16.6	22.7
Power consumption	(kW)	1.3	2.0	2.8	3.6	5.0	6.6
EER		3.3	2.9	3.1	3.0	3.4	3.5
Siberia models		SIBERIA-4	SIBERIA-6	SIBERIA-8	SIBERIA-10	SIBERIA-15	SIBERIA-17
AIR 27°C / WATER 12°C							
Cooling capacity	(kW)	4.4	5.7	8.9	10.7	16.6	22.7
Power consumption	(kW)	1.8	2.3	3.2	4.5	7.7	9.3
EER		2.4	2.5	2.8	2.4	2.2	2.5

Maximum air temperature 40°C, minimum water temperature 10°C. Maximum water pressure 3.5 bar.

STANDARD AND CHILLER MODELS - WEIGHT AND DIMENSIONS

Model			ALASKA-4	ALASKA-6	ALASKA-8	ALASKA-10	ALASKA-15	ALASKA-17
Weight	kg		80	92	102	133	167	197
Dimensions	mm	A	1311 (+80)		1411 (+80)	1372 (+80)	1728 (+80)	
		B	512	540	556	650	708	
		C	746		846	890	866	
Model			SIBERIA-4	SIBERIA-6	SIBERIA-8	SIBERIA-10	SIBERIA-15	SIBERIA-17
Weight	kg		97	112	120	188	219	224
Dimensions	mm	A	1311 (+80)		1411 (+80)	1372 (+80)	1728 (+80)	
		B	550+50	700+50		655+50	655+50	
		C	746		846	890	866	



Compact ElectricHeat



Electronic model



Mechanical model (Eco)



<145M³

- + From 3 to 18kW
- + Electronic models for more comfort
- + Titanium resistances models compatible with salt pools

DESCRIPTION

- Linear configuration that offers ease of installation.
- OLED display for electronic models
- LCD display for mechanical model
- Incoloy or Titanium resistances models
- Single or 3 phase wiring
- Simple and fast electrical connection system.
- Replaceable parts: the internal components are easy to access and replace.

PRODUCT REFERENCES

ELECTRONIC MODELS	COMPACT 3	COMPACT 6	COMPACT 9	COMPACT 12	COMPACT 18
Incoloy version	60170	60171	60172	60173	60174
Titanium version	65321	65322	65323	65324	65325
MECHANICAL MODELS	ECO 3	ECO 6	ECO 9	ECO 12	ECO 18
ECO Incoloy version	69193	69194	69195	69196	69197

HEATING PERFORMANCES & TECHNICAL FEATURES

ELECTRONIC MODELS		COMPACT 3	COMPACT 6	COMPACT 9	COMPACT 12	COMPACT 18
MECHANICAL MODELS		ECO 3	ECO 6	ECO 9	ECO 12	ECO 18
Power	kW	3	6	9	12	18
Electrical supply*	V/Ph/Hz	230 / 1 / 50-60 or 400 / 3 / 50-60				400 / 3 / 50-60
Min. Water flow rate	m ³ /h	2.4				
Max. Water flow rate	m ³ /h	15				
Water connection	mm Ø	50/63				
Maximum operating power (A)	220V/50Hz/1PH	14	27	41	-	-
	400V/50Hz/3PH	5	9	14	18	27

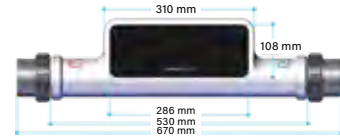
*In the case of 230/1/50-60, check special code.

NB: INCOLOY models do NOT provide protection for salt electrolysis facilities, so this type of facility should use the TITANIUM model to prevent operational problems that would not be covered under warranty.

TECHNICAL FEATURES						
ELECTRONIC MODELS		COMPACT 3	COMPACT 6	COMPACT 9	COMPACT 12	COMPACT 18
MECHANICAL MODELS		ECO 3	ECO 6	ECO 9	ECO 12	ECO 18
Gross weight	kg				4.8	
Net weight	kg				4.2	



Electronic model



Mechanical model (Eco)

ELECTRIC HEATERS SELECTION GUIDE

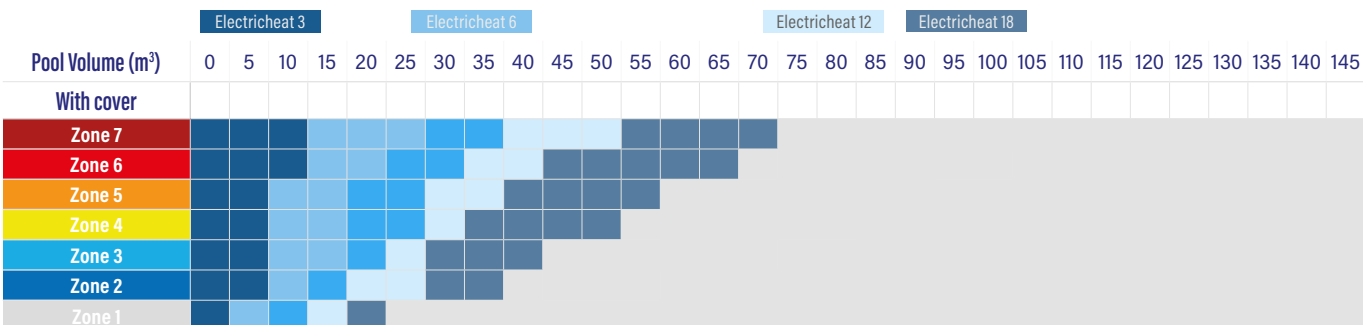
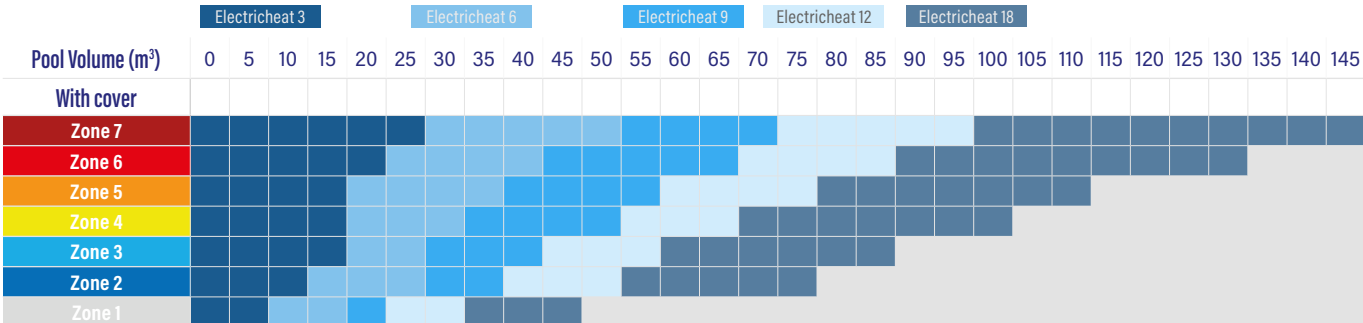
Parameters of the quick selection guide

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

Select my heat pump in less than 1 minute

For a 35m³ pool, with cover, located in zone 2, a Electricheat 9 is needed*.

*To find the corresponding pool location zone, consult our climate map in page 669.



AstralPool recommends to use the web configurators to get a more accurate sizing (change pool shape, pool depth, target pool water temperature, period of use...).

For professional use, visit our configurator on www.pro.fluidra.com
 For public use, visit our simplified configurator on www.astralpool.com

Equipped Waterheat



DESCRIPTION

Heat exchanger suitable for warming the water temperature of pools and SPAS, thanks to the heat exchange between the primary circuit (warm area) and a secondary one (cold area that we want to warm).

- Regulator with secondary pump control, voltage free contact and timer.
- Casing built in Alucoil and ABS plastic.
- Body made in Titanium (secondary, water from pool).
- Coils made in titanium alloy (primary, water from boiler).
- Fully fitted, anti-return valve, primary recirculation pump and control thermostat with immersion probe.
- Primary work pressure 10 bars and secondary work pressure 3 bars.

CONNECTIONS:

- Primary (heating): 1".
- Secondary (pool): D-50 three piece link.

PRODUCT REFERENCES

Model	TIT-20 kW	TIT-40 kW	TIT-60 kW
Reference	43506	43507	43508


TECHNICAL FEATURES

Model		TIT-20 kW	TIT-40 kW	TIT-60 kW
Power	90°C	20	40	60
	60°C	10	20	30
	45°C	5	10	15

HEATING PERFORMANCE

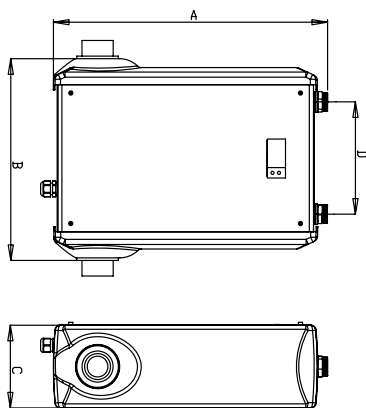
Model		TIT-20 kW	TIT-40 kW	TIT-60 kW
Heater	m ³ /h	1.6	2.7	3.0
Heater load loss	bar	0.12	0.41	0.70
Heater connection	Inch		-	
Pool volume	m ³ /h	10	15	20
Pool head loss	bar	0.14	0.24	0.29
Pool connection	Inch	-	-	-

DIMENSIONS AND WEIGHT

Model		TIT-20 kW	TIT-40 kW	TIT-60 kW
Dimensions 	A (mm)	530	530	530
	B (mm)	450	590	650
	C (mm)	160	160	160
	D (mm)	215	225	305
	E (mm)	1"	1"	1"
Weight	kg	10	11	18

Consult your service engineer about the right selection of unit depending on your installation.

Figures for power settings calculated for pool water at 20°C.



HEAT EXCHANGERS

Waterheat EVO



DESCRIPTION

Heat exchanger suitable for warming the water temperature of pools and SPAS, thanks to the heat exchange between the primary circuit (warm area) and a secondary one (cold area that we want to warm).

- Titanium housing (secondary, pool water).
- Titanium coil (primary, water for boiler).
- Primary working pressure of 10 bar.
- Secondary working pressure of 3 bar.

PRODUCT REFERENCES

Model	TIT-20 kW	TIT-40 kW	TIT-60 kW	TIT-105 kW	TIT-140 kW	TIT-210 kW	TIT-300 kW	TIT-450 kW
Reference	71607	71608	71609	71610	71611	71612	71613	71614


TECHNICAL FEATURES

Model		TIT-20 kW	TIT-40 kW	TIT-60 kW	TIT-105 kW	TIT-140 kW	TIT-210 kW	TIT-300 kW	TIT-450 kW
Power	90°C	20	40	60	105	140	210	300	450
	60°C	10	20	30	40	60	80	120	210
	45°C	5	10	15	20	3	40	60	100

HEATING PERFORMANCE

Model		TIT-20 kW	TIT-40 kW	TIT-60 kW	TIT-105 kW	TIT-140 kW	TIT-210 kW	TIT-300 kW	TIT-450 kW
Heater	m ² /h	1.6	2.7	3.1	6.6	7.0	10.0	11.0	16.0
Heater load loss	bar	0.006	0.024	0.040	0.030	0.040	0.122	0.214	0.470
Heater connection	Inch	G ¾"			G 1½"				
Pool head loss	bar	0.119	0.192	0.418	0.293	0.316	0.633	0.596	0.860
Pool connection	Inch	G 1"		G 1½"					

DIMENSIONS AND WEIGHT

Model		TIT-20 kW	TIT-40 kW	TIT-60 kW	TIT-105 kW	TIT-140 kW	TIT-210 kW	TIT-300 kW	TIT-450 kW	
Dimensions		A (mm)			122			140		
		B (mm)	75	175	225	170	270	420	670	920
		C (mm)	290	390	440	357	457	607	857	1107
		Ø Dz	80			102				
Weight	kg	1.2	1.7	1.9	2.2	2.7	3.8	5.3	6.8	

Consult your service engineer about the right selection of unit depending on your installation.
 Figures for power settings calculated for pool water at 20°C.

Diagram of assembly below the water level:

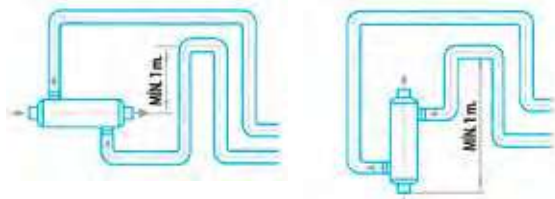
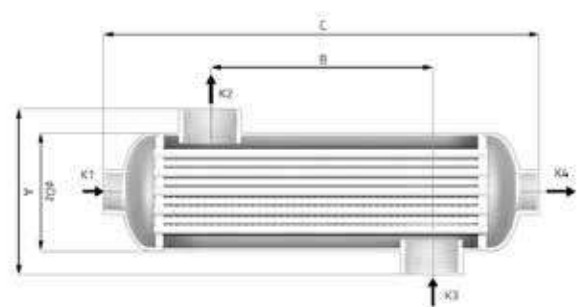


Diagram of assembly below the water level:



Etna



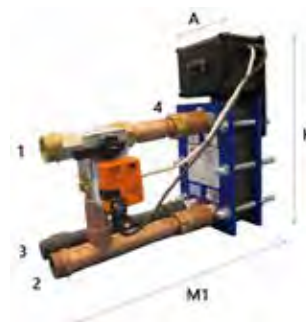
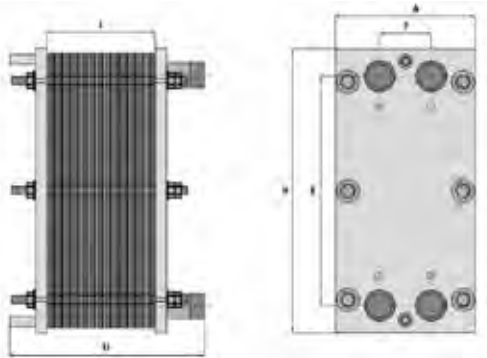
Basic model

- Corrugated plates in AISI-316 or titanium.
- EPDM gaskets.
- Housing in epoxy painted carbon steel.
- In non-equipped heat exchangers, AISI-316 stainless steel connections in ISO G2 direct thread.
- In equipped heat exchangers, primary connections in copper, and secondary in PVC.
- In equipped heat exchangers, full regulation, with control of the filtering pump. Double display (setpoint and current reading).
- Simple recirculating pump in the primary circuit is optional.



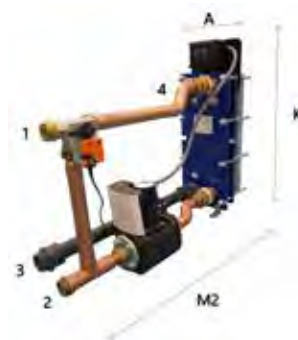
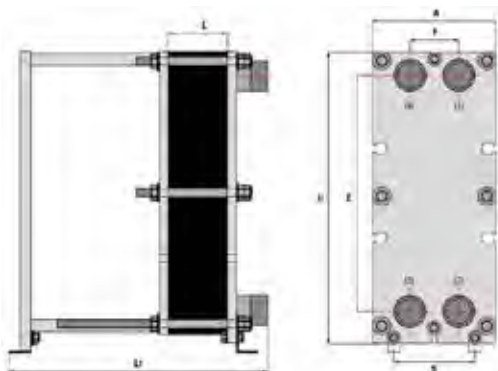
Equipped model

ETNA 15 - ETNA 200



Equipped model + recirculating pump

ETNA 250 - ETNA 580



- | |
|------------------------|
| 1 – Primary, inlet. |
| 2 – Primary, outlet. |
| 3 – Secondary, inlet. |
| 4 – Secondary, outlet. |

PRODUCT REFERENCES

Model	AISI-316 codes			Titanium codes		
	Basic model	Equipped model	Model Eq+B ⁽¹⁾	Basic model	Equipped model	Model Eq+B ⁽¹⁾
	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
ETNA-15	67985	68230	68021	67994	68012	68030
ETNA-35	68223	68004	68022	67995	68013	68031
ETNA-50	68224	68005	68023	67996	68014	68032
ETNA-60	68225	68006	68024	67997	68015	68033
ETNA-90	67989	68007	68025	67998	68016	68034
ETNA-120	67990	68008	68026	68226	68017	68035
ETNA-150	67991	68009	68027	68227	68018	68036
ETNA-180	67992	68010	68028	68228	68019	68037
ETNA-200	67993	68011	68029	68229	68020	68038
ETNA-250	32550	32563	32576	33137	33155	33173
ETNA-300	32552	32565	32578	33139	33157	33175
ETNA-350	32553	32566	32579	33140	33158	33176
ETNA-400	33114	33119	33124	33141	33159	33177
ETNA-460	33115	33120	33125	69796	33160	33178
ETNA-500	32554	32567	32580	69797	33161	33179
ETNA-580	33116	33121	33126	69798	33162	33180

(1) Eq + B: Equipped model + recirculating pump.

TECHNICAL FEATURES

Model	Code		Power		Num. Plates	Primary circuit			Secondary circuit			Dimensions (mm)					
	Basic models AISI-316	Basic models Titanium	KW	(kcal/h)		Flow rate (m³/h)	Head loss (bar)	Connections	Flow rate (m³/h)	Head loss (bar)	Connections	H	A	E	F	Lt	L
ETNA-15	67985	67994	17	15,000	5	0.75	0.3	11/4"	0.74	0.3	11/4"	320	200	235	69	220	16.5
ETNA-35	68223	67995	40	35,000	7	1.55	0.3	11/4"	1.52	0.3	11/4"	320	200	241	69	220	23.1
ETNA-50	68224	67996	58	50,000	9	2.56	0.3	11/4"	2.51	0.3	11/4"	320	200	235	69	220	29.7
ETNA-60	68225	67997	70	60,000	11	3.09	0.3	11/4"	3.03	0.3	11/4"	320	200	235	69	220	36.3
ETNA-90	67989	67998	105	90,000	15	4.64	0.3	11/4"	4.55	0.3	11/4"	320	200	235	69	220	49.5
ETNA-120	67990	68226	140	120,000	19	6.19	0.3	11/4"	6.07	0.3	11/4"	320	200	235	69	220	62.7
ETNA-150	67991	68227	174.4	150,000	23	7.71	0.3	11/4"	7.56	0.3	11/4"	320	200	235	69	220	75.9
ETNA-180	67992	68228	209	180,000	29	9.23	0.3	11/4"	9.06	0.3	11/4"	320	200	235	69	220	95.7
ETNA-200	67993	68229	233	200,000	31	10.3	0.3	11/4"	10.1	0.3	11/4"	320	200	235	69	220	102.3
ETNA-250	32550	33137	291	250,000	15	12.86	0.3	2 1/2"	12.61	0.3	2 1/2"	745	310	603	124	630	49.5
ETNA-300	32552	33139	349	300,000	17	15.42	0.3	2 1/2"	15.13	0.3	2 1/2"	745	310	603	124	630	56.1
ETNA-350	32553	33140	407	350,000	21	17.98	0.3	2 1/2"	17.64	0.3	2 1/2"	745	310	603	124	630	69.3
ETNA-400	33114	33141	465	400,000	23	20.55	0.3	2 1/2"	20.13	0.3	2 1/2"	745	310	603	124	630	75.9
ETNA-460	33115	69796	535	460,000	27	23.64	0.3	2 1/2"	23.19	0.3	2 1/2"	745	310	603	124	630	89.1
ETNA-500	32554	69797	581	500,000	29	25.67	0.3	2 1/2"	25.18	0.3	2 1/2"	745	310	603	124	630	95.7
ETNA-580	33116	69798	675	580,000	33	29.83	0.3	2 1/2"	29.26	0.3	2 1/2"	745	310	603	124	630	108.9

TECHNICAL FEATURES

Model	Code		Code		Power		Num. Plates	Dimensions (mm)				Weight
	Equipped models AISI-316	Equipped models Titanium	Model Eq+B ⁽¹⁾ AISI-316	Model Eq+B ⁽¹⁾ Titanium	KW	(kcal/h)		A	M1	M2	K	kg
ETNA-15	68230	68012	68021	68030	17	15.000	5	200	659	1148	470	38 + 4,5
ETNA-35	68004	68013	68022	68031	40	35.000	7	200	659	1148	470	38 + 4,5
ETNA-50	68005	68014	68023	68032	58	50.000	9	200	659	1148	470	39 + 9
ETNA-60	68006	68015	68024	68033	70	60.000	11	200	659	1148	470	39 + 9
ETNA-90	68007	68016	68025	68034	105	90.000	15	200	659	1148	470	40 + 9
ETNA-120	68008	68017	68026	68035	140	120.000	19	200	659	1148	470	41 + 15
ETNA-150	68009	68018	68027	68036	174,4	150.000	23	200	659	1148	470	42 + 15
ETNA-180	68010	68019	68028	68037	209	180.000	29	200	659	1148	470	43 + 15
ETNA-200	68011	68020	68029	68038	233	200.000	31	200	659	1148	470	44 + 15
ETNA-250	32563	33155	32576	33173	291	250.000	15	310	1070	1558	905	128 + 17
ETNA-300	32565	33157	32578	33175	349	300.000	17	310	1070	1558	905	129 + 17
ETNA-350	32566	33158	32579	33176	407	350.000	21	310	1070	1558	905	133 + 20
ETNA-400	33119	33159	33124	33177	465	400.000	23	310	1070	1558	905	134 + 20
ETNA-460	33120	33160	33125	33178	535	460.000	27	310	1070	1558	905	138 + 22
ETNA-500	32567	33161	32580	33179	581	500.000	29	310	1070	1558	905	139 + 22
ETNA-580	33121	33162	33126	33180	675	580.000	33	310	1070	1558	905	143 + 24

(1) Eq + B: Equipped model + recirculating pump.

HEATING

SWIMMING POOL HEATING SOLUTIONS

why choosing a heating system

Did you know it ?

- Equipping the pool with an isothermal cover allows to divide the power need by 2 !
As a result, if 12kW is needed to heat a pool without isothermal cover, 6kW is enough to heat the same pool with isothermal cover.
- Using the heat pump when the outdoor air is the hottest will allow to maximize the performances (hence minimize the electricity consumption). Heating during hot sunny days and covering at night is the optimal solution!
- Covering the pool at night (or when the outdoor air T°C is fresher) with an isothermal cover, will slow down the decrease of pool T°C.

> PARAMETERS FOR CHOOSING A HEATING SYSTEM

To define a system suitable for a pool, many parameters need to be considered. The most important parameters (but non-exhaustive) are the ones below:

1. Average outdoor air temperature (°C)
2. Desired pool water target temperature (in °C)
3. Period of use
4. Pool volume (m³)
5. Presence of an isothermal cover or not
6. Filtration time




To consider all the parameters which impact the sizing of a heating system, online Zodiac configurators are available:

- For professionals, visit our pro space website: <https://pro.zodiac-poolcare.com/>
- For public use, visit our Zodiac website with a simplified and user-friendly interface: <https://www.zodiac-poolcare.co.uk/> you **maximum comfort at a lower cost.**

The choice of heating equipment also depends on the energy source that will be used.



COMPARATIVE TABLE OF RANGES

	Heat pumps	Electric heaters	Heat exchangers
			
Solution	Stand-alone, dedicated to the pool	Stand-alone, dedicated to the pool	Coupled to the domestic heating
Energy used	Electricity	Electricity	Domestic heating source (gas, oil, electricity, renewable, etc.)
Running cost	€*	€€€	€ to €€€**
Investment	€€	€	€
Advantages	Economical Efficient	Simple installation	Compatible with all heating systems
Uses	All open air or indoor pools	Spas and pools used at weekends or holiday homes	Indoor and outdoor pools close to the boiler in the house

* A heat pump is a very efficient solution which can reconstitute great more power than it consumes thanks to its thermodynamic system.

** The running cost will depend on the heating source. If renewable (e.g solar energy), it will be very low. However, with a gas, oil or electricity heating source, the running costs will be higher.

HEAT PUMPS

The economical and ecological solution

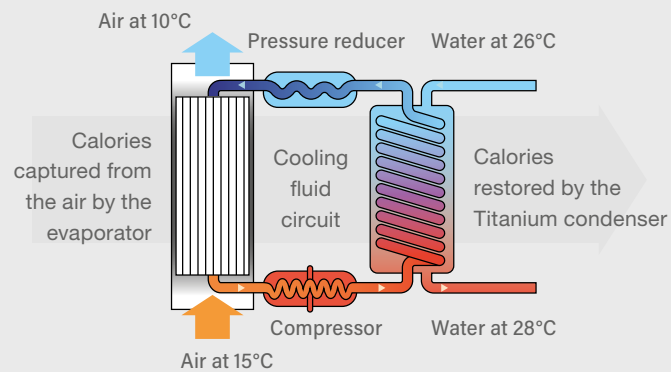
Heat pumps are the ideal solution for heating the pool while also saving energy.

> HOW DOES IT WORK?

The heat pump is a **thermodynamic system**. Its operating principle is very simple: the system takes calories from the air and transfers them directly to the water in the pool.



80% of the energy comes from the air.
20% of the energy comes from your electricity supplier.



The heat pump recovers calories from the outside air.
The heat pump restores calories to the water in the pool by thermodynamic exchange.

Heat pumps can be installed easily on pools under construction and on existing pools, by a simple electrical or hydraulic connection.

> ACTIVE OR PASSIVE DEFROSTING

When the outside temperature is low, the evaporator will tend to ice up, which reduces its efficiency; this ice must therefore be removed. There are 2 types of defrosting:

- **Passive defrosting: By ventilation for a seasonal use (minimum outside air temperature > 5°C)**
Heat pump will stand by for a few minutes. Only the fan operates, forcing outside air to defrost naturally. This type of defrosting is only efficient when the outside air temperature is above +5°C, for a seasonal use only.
- **Active defrosting: By cycle inversion - for extended or full season (minimum outside air temperature < 5°C)**
The refrigerating circuit is reversed, heat from the water in the pool is taken to defrost the evaporator. This allows operation at temperatures down to -12°C. This type of defrosting allows an extended use as it is able to defrost when the outside temperature is below +5.



HEATING

> UNDERSTANDING THE CONCEPT OF PERFORMANCE

Two main values characterise the performance of heat pumps: their power and their performance coefficient.

• **Power, expressed in kW**, indicates the quantity of heat transferred to the water.

It is expressed in specific climatic conditions to which the heat pump is exposed during use:

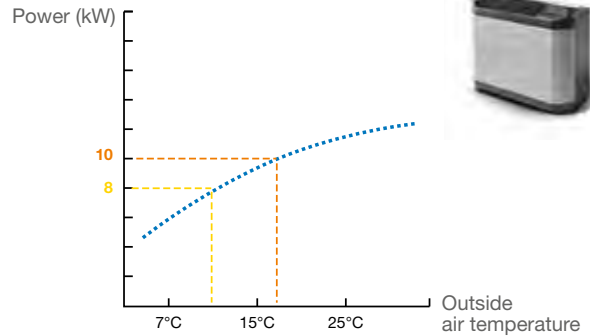
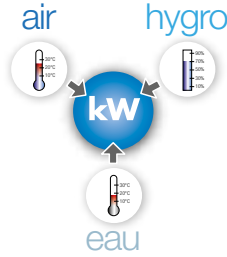
- Temperature of the outside air
- Humidity of the outside air
- Temperature of the water in the pool.

The power of a heat pump will mostly depend on the outside air temperature.

The hotter the air is, the higher the power in kW, hence the higher COP.

For instance (see graphic), a Z400iQ will reconstitute 9,96kW @15°C air / 26°C water / 70% humidity and 12,56kW @28°C air / 28°C water / 80% humidity.

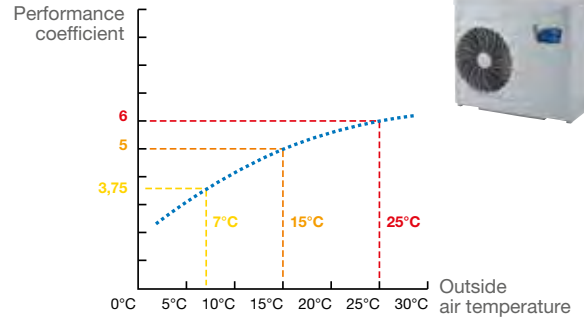
Accordingly, it is very important to compare performances in the same conditions !



• The **coefficient of performance (COP)** is the ratio between the restituted power and the power consumption of the heat pump. As a result, it is the ratio at specific climatic conditions too.

As an example, a performance coefficient of 5 means that for 1 kWh consumed at the electricity meter, the heat supplies 5 times more energy to the water in the pool, or 5 kWh.

So the higher the performance coefficient, the more efficient and economical the system.



> ZODIAC® HEAT PUMPS: NF-CERTIFIED HEAT PUMPS

NF-certification for swimming pool heat pumps means:

- Certified performance (restituted power, consumed power, performance coefficient, noise level) measured in an accredited laboratory by a certification body.
- An annual performance test of products and information given in the catalogue.
- Certification of the manufacturer and annual audit to maintain this certification.
- Service guarantee to customers: appropriate after-sales service organisation, spare parts available for 10 years, etc.

A true measure of performance, quality and service commitment for its customers and the end consumer!

REFERENCE POINT
The NF mark is very well-known by the public: 90% of French people know it and identify it as a sign of quality.



Zodiac® is the first manufacturer to offer NF-certified swimming pool heat pumps.

HEAT PUMPS

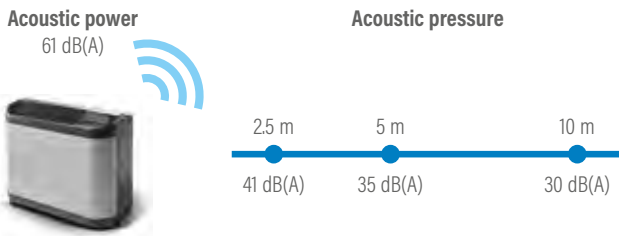
A silent installation

> MEASURING NOISE LEVEL ACCURATELY

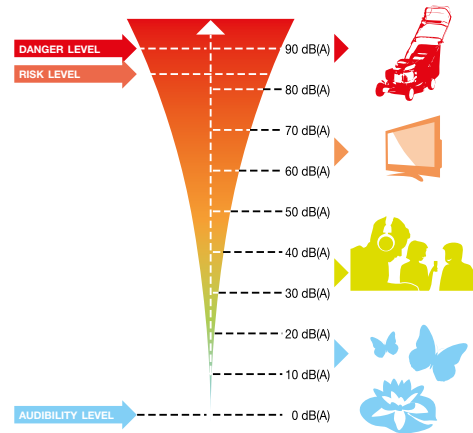
The latest technologies used in the design of evaporators, fans and compressors make Zodiac® heat pumps extremely quiet.

The noise level should be measured by a certified body to obtain a real and objective value. It is expressed:

- Either **as acoustic power dB(A)**: this is the unmodified noise level of the emitting source.
- Or **as acoustic pressure dB(A)**: this is the sound level perceived by the human ear. It depends on the installation environment and distance at which the measurement is made. It must therefore always include a measuring distance.



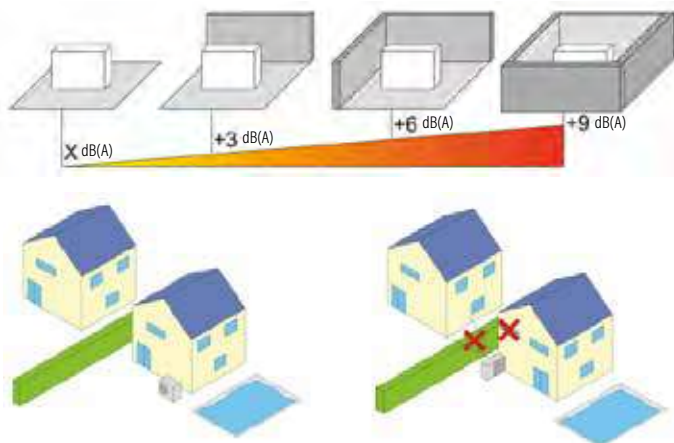
NOISE SCALE



To compare the noise level of several machines, check what type of value you have, power or pressure, and if it is pressure then at what distance it is measured!

> OPTIMIZING THE INSTALLATION OF A HEAT PUMP

A heat pump system includes 'moving' parts (compressor, fan, etc.), vibrations from which can spread and build up.



To avoid or reduce disturbances, a few installation rules should be followed:

- **Favour open spaces** (avoid corners or interior courtyards), because sound waves coming from all sides of the system are reflected by the surfaces facing them.
- **Do not install the system below or facing a window.**
- **Relative to neighbouring properties:**
 - Install the system as far as possible from property boundaries.
 - The fan should not point towards neighbouring properties.

> REDUCE TRANSMISSION OF VIBRATIONS THROUGH THE BASE

- Use suitable anti-vibration blocks.
- Renew them if necessary to absorb vibrations, because they lose effectiveness over time.
- Build a mounting base. It should weigh at least twice as much as the heat pump. It must be independent from a building.



Anti-vibration blocks
(ref : WAP3064)



Mounting base

> ACOUSTIC POWER & PRESSURE TABLE

	Acoustic Power (Lw) (dB(A))	Acoustic Pressure (Lp) at n metres (dB(A)) (Based on EN60704-1:2010+A11:2012 technical standard)									
		1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Z 200 M2 / MD2	66	52	48	45	42	41	39	38	37	36	35
Z 200 M3 / MD3	67	53	49	46	43	42	40	39	38	37	36
Z 200 M4/ MD4	69	55	50	47	45	43	42	40	39	38	37
Z 200 M5 / MD5	72	58	53	50	48	46	45	43	42	41	41
Z 300 M4	67	53	48	45	43	41	40	39	38	37	36
Z 300 M5	68	54	49	46	44	42	41	40	39	38	37
Z 300 M7	70	56	51	48	46	44	43	42	41	40	39
Z 300 T5	67	53	48	45	43	41	40	39	38	37	36
Z400iQ MD4-Silent mode	61	47	42	39	37	35	34	33	32	31	30
Z400iQ MD4-Standard mode	64	50	45	42	40	38	37	36	35	34	33
Z400iQ MD5-Silent mode	63	49	44	41	39	37	36	35	34	33	32
Z400iQ MD5-Standard mode	65	51	46	43	41	39	38	37	36	35	34
Z400iQ MD7-Silent mode	63	48	44	41	39	37	36	35	34	33	32
Z400iQ MD7-Standard mode	66	51	47	44	42	40	39	38	37	36	35
Z400iQ TD7-Silent mode	66	51	47	44	42	40	39	38	37	36	35
Z400iQ TD7-Standard mode	68	53	49	46	44	42	41	40	39	38	37
Z400iQ MD8-Silent mode	61	46	42	39	37	35	34	33	32	31	30
Z400iQ MD8-Standard mode	64	49	45	42	40	38	37	36	35	34	33
Z400iQ TD8-Silent mode	62	47	43	40	38	36	35	34	33	32	31
Z400iQ TD8-Standard mode	65	50	46	43	41	39	38	37	36	35	34
Z400iQ MD9-Silent mode	62	47	43	40	38	36	35	34	33	32	31
Z400iQ MD9-Standard mode	64	49	45	42	40	38	37	36	35	34	33
Z400iQ TD9-Silent mode	63	48	44	41	39	37	36	35	34	33	32
Z400iQ TD9-Standard mode	66	51	47	44	42	40	39	38	37	36	35
Z550iQ MD4 - 50% capacity	54	40	35	32	30	28	27	26	25	24	23
Z550iQ MD4 - 100% capacity	62	48	43	40	38	36	35	34	33	32	31
Z550iQ MD5 - 50% capacity	57	43	38	35	33	31	30	29	28	27	26
Z550iQ MD5 - 100% capacity	66	52	47	44	42	40	39	38	37	36	35
Z550iQ TD5 - 50% capacity	56	42	37	34	32	30	29	28	27	26	25
Z550iQ TD5 - 100% capacity	66	52	47	44	42	40	39	38	37	36	35
Z550iQ MD8 - 50% capacity	53	39	34	31	29	27	26	25	24	23	22
Z550iQ MD8 - 100% capacity	67	53	48	45	43	41	40	39	38	37	36
Z550iQ TD8 - 50% capacity	57	43	38	35	33	31	30	29	28	27	26
Z550iQ TD8 - 100% capacity	67	53	48	45	43	41	40	39	38	37	36
PM40 MD1 - Silent mode	62	49	44	41	39	37	36	34	33	32	31
PM40 MD1 - Standard mode	63	50	45	42	40	38	37	35	34	33	32
PM40 MD2 - Silent mode	64	50	45	42	40	38	37	36	34	34	33
PM40 MD2 - Standard mode	66	52	47	44	42	40	39	38	36	36	35

	Acoustic Power (Lw) (dB(A))	Acoustic Pressure (Lp) at n metres (dB(A)) (Based on EN60704-1:2010+A11:2012 technical standard)									
		1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
PM40 MD3 - Silent mode	64	50	45	42	40	38	37	36	35	34	33
PM40 MD3 - Standard mode	67	53	48	45	43	41	40	39	38	37	36
PM40 MD4 - Silent mode	64	50	45	42	40	38	37	36	35	34	33
PM40 MD4 - Standard mode	67	53	48	45	43	41	40	39	38	37	36
PM40 MD5 - Silent mode	64	50	46	43	40	39	37	36	35	34	33
PM40 MD5 - Standard mode	69	55	51	48	45	44	42	41	40	39	38
PM40 MD7 - Silent mode	72	58	54	51	48	47	45	44	43	42	41
PM40 MD7 - Standard mode	74	60	56	53	50	49	47	46	45	44	43
PM40 MD8 - Silent mode	76	61	57	54	52	50	49	47	46	45	44
PM40 MD8 - Standard mode	77	62	58	55	53	51	50	48	47	46	45
PM40 TD7 - Silent mode	74	60	56	53	50	49	47	46	45	44	43
PM40 TD7 - Standard mode	75	61	57	54	51	50	48	47	46	45	44
PM40 TD8 - Silent mode	73	58	54	51	49	47	46	44	43	42	41
PM40 TD8 - Standard mode	76	61	57	54	52	50	49	47	46	45	44
PM40 TD12- Silent mode	75	60	56	53	51	49	48	47	46	45	44
PM40 TD12 - Standard mode	76	61	57	54	52	50	49	48	47	46	45
PX50 MD3 - 20% capacity	53	39	34	31	29	27	26	25	23	22	22
PX50 MD3 - 100% capacity	65	52	47	44	42	40	39	37	36	35	34
PX50 MD4 - 20% capacity	54	40	35	32	30	28	27	25	24	23	23
PX50 MD4 - 100% capacity	67	53	48	45	43	41	40	38	37	36	36
PX50 MD5 - 20% capacity	54	40	36	33	31	29	27	26	25	24	23
PX50 MD5 - 100% capacity	71	56	52	49	47	45	44	42	41	40	39
PX50 MD6 - 20% capacity	55	41	36	33	31	29	28	26	25	24	23
PX50 MD6 - 100% capacity	71	57	52	49	47	45	44	43	42	41	40
PX50 MD7 - 20% capacity	56	41	37	34	32	30	28	27	26	25	24
PX50 MD7 - 100% capacity	73	58	54	51	49	47	45	44	43	42	41
PX50 MD9 - 20% capacity	56	42	37	34	32	31	29	28	27	26	25
PX50 MD9 - 100% capacity	73	59	55	52	50	48	46	45	44	43	42
PX50 MD/TD11 - 20% capacity	58	43	38	36	33	32	30	29	28	27	26
PX50 MD/TD11 - 100% capacity	75	60	55	53	51	49	48	46	45	44	43
PX50 MD/TD12 - 20% capacity	58	43	39	36	34	32	31	30	29	28	27
PX50 MD/TD12 - 100% capacity	75	60	56	53	51	49	48	47	46	45	44
Z700 Duo MD5	67	52	48	45	43	42	40	39	38	37	36
Z700 Duo MD8	65	49	45	42	40	39	37	36	35	34	33
Z700 Duo TD5	67	52	48	45	43	42	40	39	38	37	36
Z700 Duo TD8	65	49	45	42	40	39	37	36	35	34	33
Power force 25T	70	52	49	46	45	43	42	41	40	39	38
Power force 35T	71	52	49	47	45	44	42	41	40	39	39

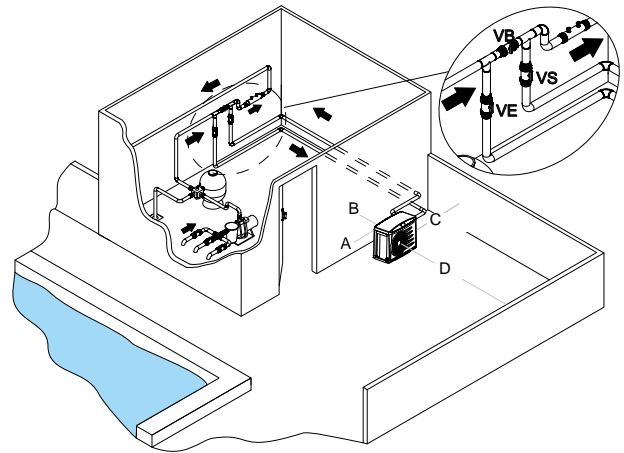
> INSTALLATION RECOMMENDATIONS

- Outside, close to the technical room, at sufficient distance from the pool (according to applicable electrical standards).
- On a stable, solid and level surface.
- Between the heat pump and its surroundings (walls, plants, etc.), maintain minimum distances as shown in the diagram below.

INSTALLATION OF A HORIZONTAL HEAT PUMP

Minimum free area in meter

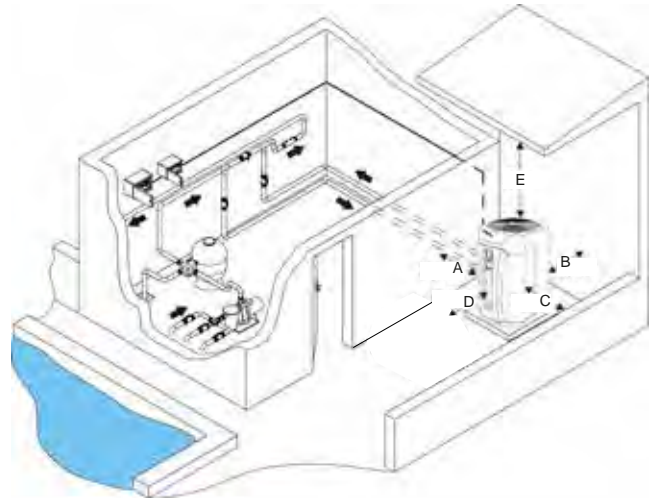
	A	B	C	D
Z200 / Z200D	0.5	0.5	0.8	2.5
PI20 / PI20D	0.5	0.5	0.8	2.5
Z300	0.5	0.5	0.8	2.5
PM40	0.5	0.5	0.8	2.5
PX50	0.5	0.5	0.8	2.5
POWERFORCE	0.5	0.5	0.8	2.5
HPO	0.5	0.5	0.8	2.5



INSTALLATION OF A VERTICAL HEAT PUMP

Minimum free area in meter

	A	B	C	D	E
Z400iQ	0,5	0,5	0,5	0,5	2
Z550iQ	0,5	0,5	0,5	0,5	2



These schemes show the recommended distances for maximum efficiency and ease of maintenance. Alternative installation layout may be considered, with possible impacts on performances and serviceability.

For complete installation instructions, please refer to the user manual.

VERTICAL VS HORIZONTAL BLOWING

Vertical blowing has 2 main advantages:

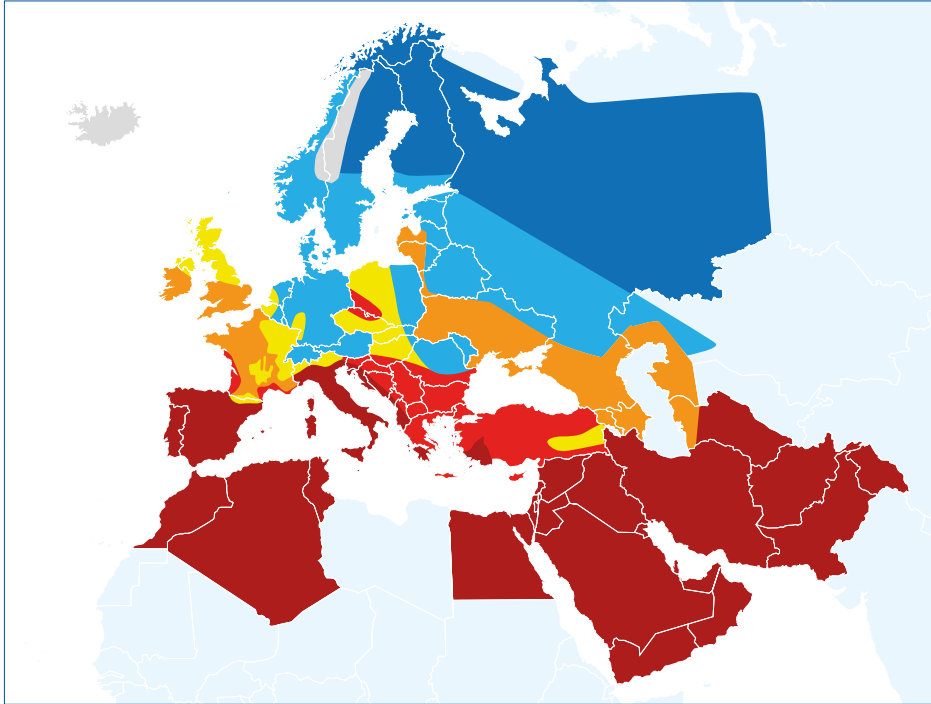
- It is typically suitable for small spaces as a reduced free area is required around the unit.
- With a same sound level between a horizontal and vertical heat pump, the perceived sound level will be lower for vertical heat pumps because the air is blown upwards.


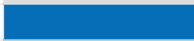





CHOOSING A HEAT PUMP WITH AN AUTOMATIC COOLING MODE

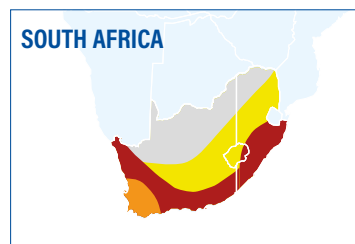
It is not recommended to maintain the temperature of the water in the pool at a higher temperature than +30°C to prevent water quality from deteriorating, turning green and damaging the liner. In hot areas, during hot seasons or if the pool is equipped with a shelter, it is common that the pool water temperature can exceed +30°C.

A heat pump with an automatic cooling mode will stabilize the pool water temperature at the desired target, below 30°C.

> CLIMATE ZONES








Zone 1	
Zone 2	
Zone 3	
Zone 4	
Zone 5	
Zone 6	
Zone 7	



Caribbean Islands, Reunion Island, Canary Islands are part of zone 7.

> HEAT PUMPS

The economical and ecological solution

COMPARATIVE TABLE OF RANGES TECHNICAL SPECIFICATIONS		Z200	Z200D	Z300	PM40
					
Claims		Pool heating made simple	Pool heating made simple	High performance and quiet-certified	The silent On-Off solution
Key drivers for a fast pre-selection	Maximum pool size (m ³) *	80	80	110	190
	Min Air T°C	+5°C	-5°C	+5°C	-8°C
	Seasonality	Season	Extended season	Season	Extended season
	Technology	ON-OFF	ON-OFF	ON-OFF	ON-OFF
	Cooling mode	x	x	x	✓
	App control (wifi)	x	x	x	x
	Air blowing type	++ Horizontal	++ Horizontal	++ Horizontal	++ Horizontal
	Free area around the heat pump	++	++	++	++
	Electric power supply	Single-phase	Single-phase	Single-phase and three phase	Single-phase and three phase
Can be installed indoor	x	x	✓	x	
Performances	Range of powers (@28°C Air / 28°C Water)	6.7 kW to 14.8 kW (4 powers)	6.7 kW to 14.8 kW (4 powers)	9 kW to 16.1 kW (4 powers)	4.7 kW to 32 kW (10 powers)
	Range of powers (@15°C Air / 26°C Water)	4.8 kW to 10.1 kW (4 powers)	4.8 kW to 10.1 kW (4 powers)	7.6 kW to 13.7 kW (4 powers)	3.2 kW to 23 kW (10 powers)
	Noise level	+	+	+	++
	Compressor type	++ ON/OFF	++ ON/OFF	++ ON/OFF	++ ON/OFF
	Fan type	+ ON/OFF	+ ON/OFF	+ ON/OFF	++ ON/OFF (2 speeds)
	Gas type	R32	R32	R410A	R32/R410A
Performances comparison at close powers (@15°C air / 26°C water)	Power in kW @28°C	14,8 kW	14,8 kW	13 kW	14,7 kW
	COP @28°C	4,6	4,6	5,5	6,2
	Power in kW @15°C	10,1 kW	10,1 kW	10,4 kW	10,5 kW
	COP @15°C	4	4	4,7	4,8
	Acoustic power (dB)	72	72	68	Standard: 69 Silence: 64
Acoustic pressure (dB) @10m	41	41	37	Standard: 38 Silence: 33	
Modes	Number of modes	1	1	1	2 (Automatic)
	Silence mode	x	x	x	✓ (Automatic, fan only)
	Smart mode	x	x	x	x
	Boost/Standard mode	✓	✓	✓	✓
Technical features	Defrosting type	++ Forced ventilation	+++ Cycle inversion	++ Forced ventilation	+++ Cycle inversion
	Casing	Polypropylene	Polypropylene	Polypropylene	Galvanized steel
	OTA (over-the-air firmware update)	x	x	x	x
Ease of use	Heating priority (filtration control)	✓	✓	✓	✓
	Remote HMI	✓	✓	✓	✓
	HMI type	LCD	LCD	LCD	LCD LED
Warranty	Heat Pump	3 years	3 years	3 years	2 years (3 years for France)
	Condenser	5 years	5 years	5 years	5 years
Included Accessories	<ul style="list-style-type: none"> • Winter cover • Condensate drain kit • PVC and gaskets, 1/2 unions, Ø 40 & Ø 50 • Anti-vibration pads 	<ul style="list-style-type: none"> • Winter cover • Condensate drain kit • PVC and gaskets, 1/2 unions, Ø 40 & Ø 50 • Anti-vibration pads 	<ul style="list-style-type: none"> • Winter cover • Condensate drain kit • PVC and gaskets, 1/2 unions, Ø 50 • Anti-vibration pads 	<ul style="list-style-type: none"> • Winter cover • Condensate drain kit • PVC and gaskets, 1/2 unions, Ø 50 • Anti-vibration pads • Remote control kit (including 10m extension cable). 	
Optional accessories	<ul style="list-style-type: none"> • Remote control kit (new display + 20m wire) • Wall mounting kit 	<ul style="list-style-type: none"> • Remote control kit (new display + 20m wire) • Wall mounting kit 	<ul style="list-style-type: none"> • Remote control kit (new display + 20m wire) • Wall mounting kit • Technical room kit • Condensate tray 		
NF PAC					

* For a pool with cover, depth 1,5m, zone 7, 14h filtration time, from May to September, target temperature @28°C.

** @ minimum compressor speed

> AN ECOLOGICAL SOLUTION

From the energy in the air and using its compressor, **the heat pump supplies 4 to 5 times more power than it consumes.**



DID YOU KNOW?

80% of the energy used to heat the pool comes from the outside air!

COMPARATIVE TABLE OF RANGES TECHNICAL SPECIFICATIONS		PX50	Z400iQ	Z550iQ	POWER FORCE
Claims		Full Inverter Technology	Elegant and discrete	The eco-silent choice	Small to medium public pool
Key drivers for a fast pre-selection	Maximum pool size (m³) *	195	145	120	305
	Min Air T°C	-12°C	-12°C	-12°C	-12°C
	Seasonality	All year round	All year round	All year round	All year round
	Technology	FULL INVERTER	ON-OFF	FULL INVERTER	ON-OFF
	Cooling mode	✓	✓	✓	✓
	App control (wifi)	x	✓ (embedded)	✓ (embedded)	x
	Air blowing type	++ Horizontal	+++ Vertical	+++ Vertical	++ Horizontal
	Free area around the heat pump	++	+++	+++	++
	Electric power supply	Single-phase and three phase	Single-phase and three phase	Single-phase and three phase	Three phase
	Can be installed indoor	x	x	✓	x
Performances	Range of powers (@28°C Air / 28°C Water)	9 kW to 35 kW (10 powers)	9.83 kW to 22.05 kW (3 powers)	12.5 kW to 20 kW (3 powers)	33 kW and 45,5 kW (2 powers)
	Range of powers (@15°C Air / 26°C Water)	6.3 kW to 24 kW (10 powers)	7.94 kW to 17.5 kW (3 powers)	9,5 kW to 15 kW (3 powers)	28,7 kW and 37 kW (2 powers)
	Noise level	+++	++	+++	++
	Compressor type	+++ Inverter	++ ON/OFF"	+++ Inverter	++ ON/OFF
	Fan type	+++ Inverter	++ ON/OFF (2 speeds)	+++ Inverter	+++ Inverter
	Gas type	R32/R410A	R32/R410A	R410A	R410A
Performances comparison at close powers (@15°C air / 26°C water)	Power in kW @28°C	13,5 kW	12,56 kW	12,5 kW	33 kW
	COP @28°C	16**	5,23	7,6**	5,4
	Power in kW @15°C	9,4 kW	9,96 kW	9,5 kW	28,7 kW
	COP @15°C	8**	4,40	5,7**	5,1
	Acoustic power (dB)	Boost: 71 Silent: 54	Standard: 65 Silent: 63	Boost: 62 Silent: 54	70
	Acoustic pressure (dB) @10m	Boost: 39 Silent: 23	Standard: 34 Silent: 32	Boost: 31 Silent: 23	38
Modes	Number of modes	3 (Automatic or manual)	2 (Automatic or Manual)	3 (Automatic or manual)	2 (Automatic)
	Silence mode	✓ (Automatic or manual, Fan + Compressor)	✓ (Automatic or manual, fan only)	✓ (Automatic or manual, Fan + Compressor)	✓ (Automatic, fan only)
	Smart mode	✓	x	✓	x
	Boost/Standard mode	✓ (Automatic or manual)	✓	✓ (Automatic or manual)	✓
Technical features	Defrosting type	+++ Cycle inversion	+++ Cycle inversion	+++ Cycle inversion	+++ Cycle inversion
	Casing	Galvanized steel + ABS top panel	Polypropylene body + galvanized steel (or stainless steel depending on the version) front panel	Polypropylene	Galvanized steel, epoxy painted body
	OTA (over-the-air firmware update)	x	✓	✓	x
Ease of use	Heating priority (filtration control)	✓	✓	✓	✓
	Remote HMI	✓	App'	App'	✓
Warranty	HMI type	LCD LED	LCD LED	LCD LED	LCD
	Heat Pump	2 years (3 years for France)	3 years	3 years	3 years
Included Accessories	Condenser	5 years	5 years	5 years	5 years
		<ul style="list-style-type: none"> • Winter cover • Condensate drain kit • PVC and gaskets, 1/2 unions, Ø 50 • Anti-vibration pads • Remote control kit (including 10m extension cable). 	<ul style="list-style-type: none"> • Winter cover • Condensate drain kit • PVC and gaskets, 1/2 unions, Ø 50 • Anti-vibration pads • Free mobile app 	<ul style="list-style-type: none"> • Winter cover • Condensate drain kit • PVC and gaskets, 1/2 unions, Ø 50 • Anti-vibration pads • Free mobile app 	<ul style="list-style-type: none"> • Condensate drain kit • PVC and gaskets, 1/2 unions, Ø 50 • Anti-vibration pads
Optional accessories			<ul style="list-style-type: none"> • Technical room kit • Condensate tray 	<ul style="list-style-type: none"> • Remote control kit (new display + 20m wire) • Condensate tray 	
NF PAC		(MD4 and MD5 only)			

* For a pool with cover, depth 1,5m, zone 7, 14h filtration time, from May to September, target temperature @28°C.

** @ minimum compressor speed

Z550iQ



<120M³

3 YEAR
WARRANTY

5 YEAR
CONDENSER
WARRANTY
ANTI-CORROSION



FULL INVERTER



HEAT / COOL



MIN. AIR TEMP



MADE IN EUROPE



OPTIONAL KIT
TECHNICAL ROOM



NF



- + Full inverter technology: silent and economical
- + Fits easily into small spaces
- + Embedded connectivity

DESCRIPTION

- Vertical blowing
- Polypropylene body
- LCD (LED) display
- Embedded wi-fi with dedicated app
- Heating priority mode (filtration pump control)
- Possible On-off control through remote switch or home automation system
- Full inverter Technology (variable speed compressor and fan) - 3 operating modes:
 - Boost: max power for fast heat-up
 - Smart: automatic power adjustment from Ecosilence to Boost depending on the water temperature of the pool and the outside air
 - Ecosilence: reduced power to further energy savings and the lowest noise level
- Automatic cooling mode
- Automatic defrosting (cycle inversion)
- Titanium water exchanger, compatible with salt water treatment
- Inverter, scroll compressor
- DC fan, variable speed (inverter)

ACCESSORIES INCLUDED IN THE PACK

- Winter cover
- Condensate drain kit
- PVC and gaskets, 1/2 unions, Ø 50
- Anti-vibration feet
- Free mobile app

OPTIONAL ACCESSORIES

Cleaning kit HP - WMA03491

TECHNICAL FEATURES

Model	Z550iQ MD4	Z550iQ MD5	Z550iQ TD5	Z550iQ MD8	Z550iQ TD8
Standard Model	WH000365	WH000366	WH000367	WH000368	WH000369
Recommended water flow (m ³ /h)	4		5		6
Hydraulic connection	PVC ½ unions, ø50 , glued				
Electric power supply	220-240V / 1 N~ / 50-60Hz		380-400V / 3N~/ 50-60Hz	220-240V / 1 N~ / 50-60Hz	380-400V / 3N~/ 50-60Hz
Nominal operating power (A)	9,6 - 5	12 - 4,9	5,9 - 1,6	17,6 - 7,5	6 - 3,5
Maximum operating power (A)	12,5	13,8	6	20	8
Recommended Power cable size*	3 x 2,5		5 x 2,5	3 x 6	5 x 2,5
Refrigerant fluid	R410A				
Refrigerant fluid quantity (kg)	1,30		1,50	2,40	2,60
Acoustic Power (dB(A)) @ max-min speed	62 - 54	66 - 57	66 - 56	67 - 53	67 - 57
Acoustic pressure at 10m (dB(A)) @ max-min speed**	31 - 23	35 - 26	35 - 25	36 - 22	36 - 26

HEATING PERFORMANCE

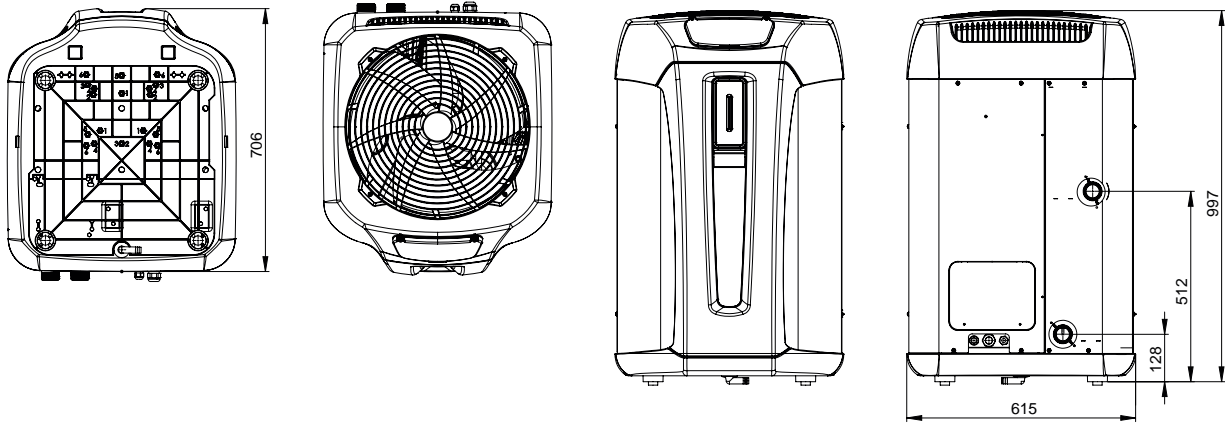
Model	Z550iQ MD4	Z550iQ MD5	Z550iQ TD5	Z550iQ MD8	Z550iQ TD8
AIR 28°C / WATER 28°C / HUMID. 80%					
Operating power (kW @ max-min speed)	12,5 - 7,9	15 - 7,6	15,5 - 7,1	20 - 10,8	20 - 11,2
Consumed power (kW @ max-min speed)	2 - 1,05	2,5 - 1,05	2,4 - 0,65	3,6 - 1,55	3,5 - 1,55
COP @ max-min speed	6,1 - 7,6	5,9 - 7,4	6,6 - 10,9	5,5 - 7	5,8 - 7,7
AIR 15°C / WATER 26°C / HUMID. 70% NF					
Operating power (kW @ max-min speed)	9,5 - 5,5		11,5 - 5,8	15 - 7,8	15 - 8,2
Consumed power (kW @ max-min speed)	1,9 - 0,95	2,5 - 1,1	2,4 - 0,8	3,7 - 1,65	3,1 - 1,4
COP @ max-min speed	4,9 - 5,7	4,6 - 5,4	4,9 - 7,2	4,1 - 4,8	4,9 - 6

*Cable not provided. Recommended section for a maximum length of 20 meters.

**According to EN60704-1:2010+A11:2012 standard

WEIGHT AND DIMENSIONS

Model	Z550iQ MD4	Z550iQ MD5	Z550iQ TD5	Z550iQ MD8	Z550iQ TD8
Weight (kg)	54	60	60	70	70



For complete technical & dimensional details, refer to the datasheet/user manual.

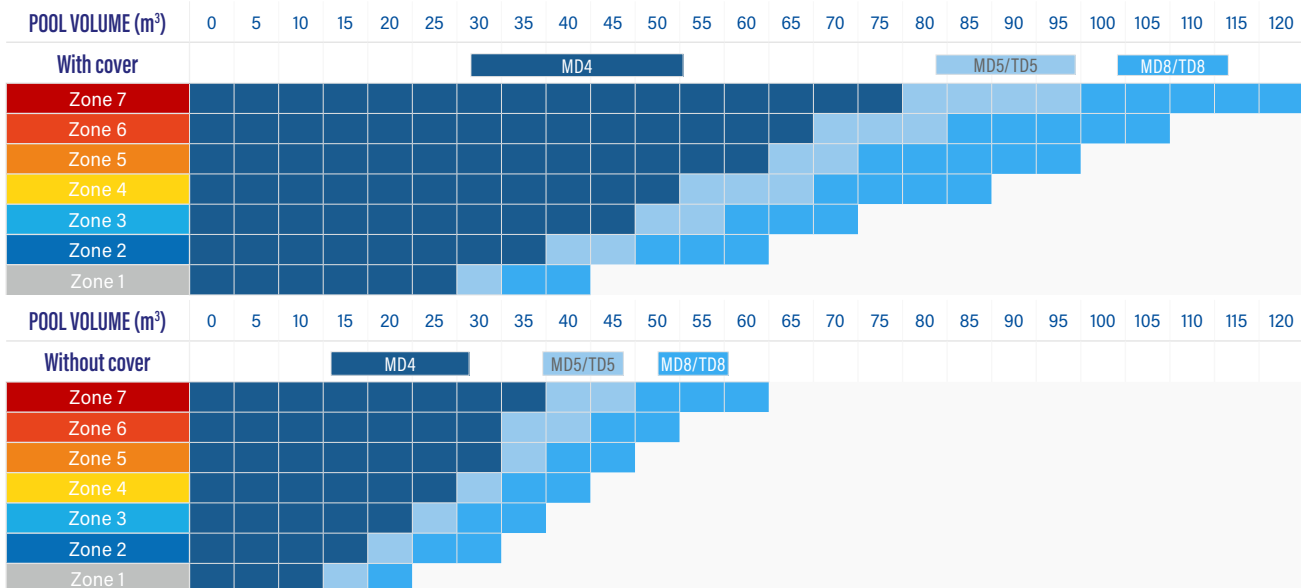
HEAT PUMPS SELECTION GUIDE

PARAMETERS OF THE QUICK SELECTION GUIDE

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

SELECT THE POWER IN LESS THAN 1 MINUTE

How to read: For a 35m³ pool, with cover, located in zone 4, a Z550iQ MD4 is needed*.



*To find the corresponding pool location zone, consult our climate map in page 669.

Zodiac recommends to use the web configurators to get a more accurate sizing

For professional use, visit our configurator on Profluidra website.
For public use, visit our simplified configurator on Zodiac website.

Z400iQ



- + Unique design
- + Quiet & discrete
- + Embedded connectivity

DESCRIPTION

- Vertical air outlet
- Polypropylene and galvanized steel, epoxy painted (body) or pre-painted (front panel)
- LCD (LED) display
- Embedded wi-fi with dedicated app
- Heating priority mode (filtration pump control)
- Possible On-off control through remote switch or home automation system
- 2-speed fan with automatic noise reduction
- Standard / Silence mode selection
- Automatic cooling mode
- Automatic defrosting (forced ventilation and cycle inversion)
- Titanium water exchanger, compatible with salt water treatment
- On-off compressor, Rotary vane



<145M³

3 YEAR
WARRANTY

5 YEAR
CONDENSER
WARRANTY
ANTI-CORROSION



ACCESSORIES INCLUDED IN THE PACK

- Winter cover
- Condensate drain kit
- PVC and gaskets, 1/2 unions, Ø 50
- Anti-vibration feet
- Free mobile app

OPTIONAL ACCESSORIES

Cleaning kit HP - WMA03491

TECHNICAL FEATURES

Model	MD4	MD5	MD7	TD7	MD8	TD8	MD9	TD9
Aluminium Grey (RAL 7006)	WH000382	WH000383	WH000291	WH000385	WH000295	WH000387	WH000299	WH000389
NF pac certification								
Recommended water flow (m ³ /h)	4	5	6	7	8			
Hydraulic connection	PVC ½ unions, ø 50 , glued							
Electric power supply	220-240V / 1 N~ / 50Hz			380-400V / 3N~ / 50Hz	220-240V / 1 N~ / 50Hz	380-400V / 3N~ / 50Hz	220-240V / 1 N~ / 50Hz	380-400V / 3N~ / 50Hz
Nominal operating power (A)	6.9	10.1	13.4	6.1	17	7.7	19.4	8.8
Maximum operating power (A)	10	15	19	7.4	28	9.2	32	11.4
Recommended Power cable size*	3 x 2.5			5 x 2.5	3 x 6	5 x 2.5	3 x 6	5 x 2.5
Refrigerant fluid	R32		R410A	R32	R410A	R32	R410A	R32
Refrigerant fluid quantity (kg)	0,87	0,99	1,45	1,18	1,80	1,59	1,80	1,59
Acoustic Power (dB(A) in Standard / Silence mode)	64 / 61	65 / 63	66 / 63	68 / 66	64 / 61	65 / 62	64 / 62	66 / 63
Acoustic pressure at 10m (dB(A) in Standard / Silence mode)**	33 / 30	34 / 32	35 / 32	37 / 35	33 / 30	34 / 31	33 / 31	35 / 32

HEATING PERFORMANCE

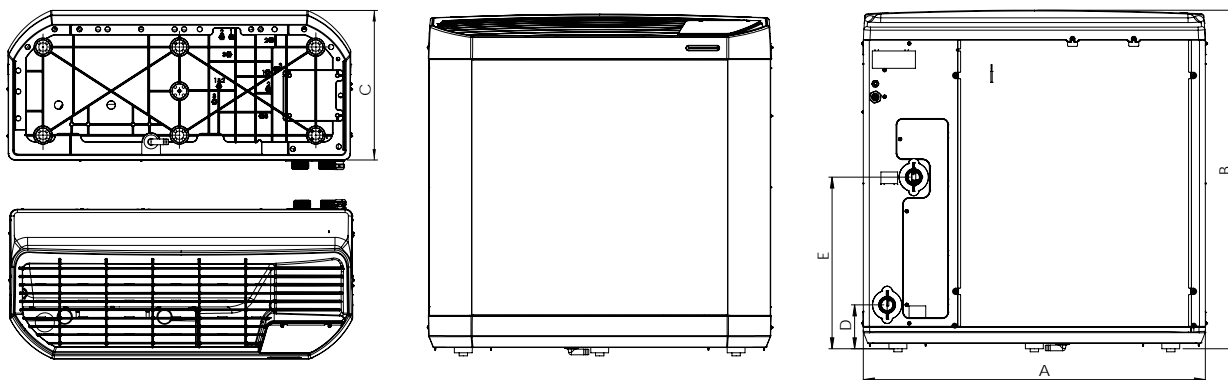
Model	MD4	MD5	MD7	TD7	MD8	TD8	MD9	TD9
AIR 28°C / WATER 28°C / HUMID. 80%								
Operating power (kW)	9,83	12,56	15,62	18,65	22,05			
Consumed power (kW)	1,67	2,34	3,20	2,97	3,82	3,51	4,51	4,25
COP	5,89	5,23	4,89	5,25	4,89	5,32	4,90	5,19
AIR 15°C / WATER 26°C / HUMID. 70% NF								
Operating power (kW)	7,94	9,96	12,40	14,80	17,50			
Consumed power (kW)	1,61	2,26	2,95	2,87	3,52	3,54	4,16	4,07
COP	4,93	4,40	4,20	4,32	4,20	4,18	4,21	4,29

*Cable not provided. Recommended section for a maximum length of 20 meters.

**According to EN60704-1:2010+A11:2012 standard

WEIGHT AND DIMENSIONS

Model	MD4	MD5	MD7	TD7	MD8	TD8	MD9	TD9
Weight (kg)	70	71	90	94	105		110	
Dimensions (mm)								
A			1030				1145	
B	872				1018			
C			449				480	
D			132				125	
E			516				510	



For complete technical & dimensional details, refer to the datasheet/user manual.

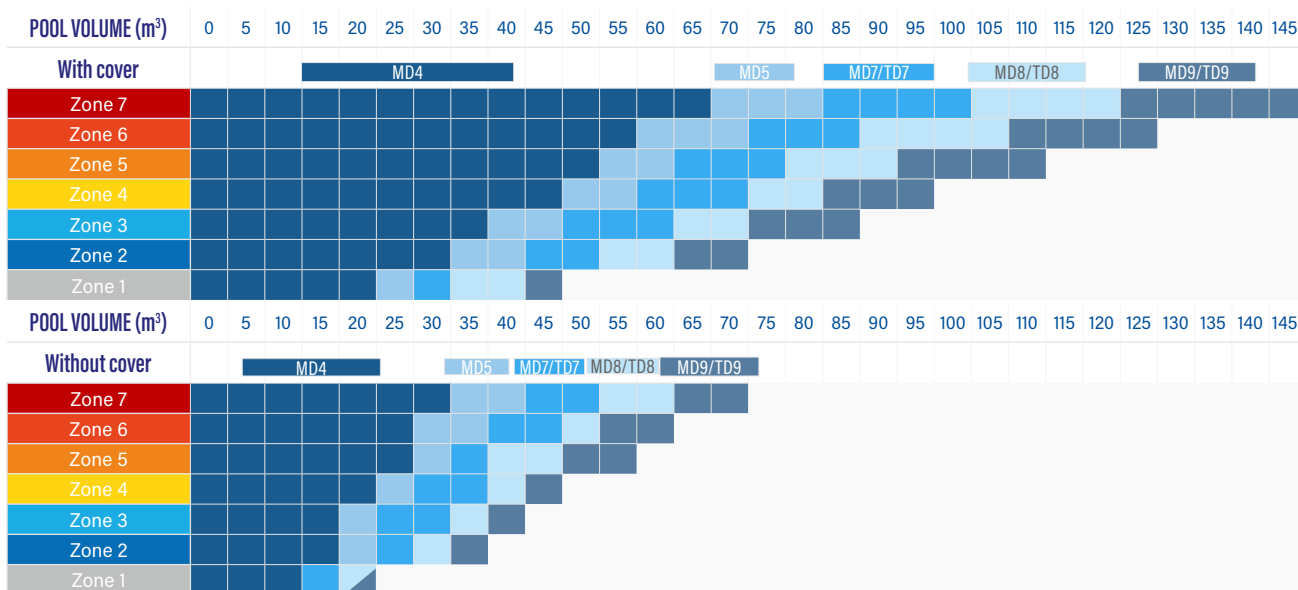
HEAT PUMPS SELECTION GUIDE

PARAMETERS OF THE QUICK SELECTION GUIDE

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

SELECT THE POWER IN LESS THAN 1 MINUTE

How to read: For a 35m³ pool, with cover, located in zone 4, a Z400iQ MD4 is needed*.



*To find the corresponding pool location zone, consult our climate map in page 669

Zodiac recommends to use the web configurators to get a more accurate sizing

For professional use, visit our configurator on Profluidra website.
For public use, visit our simplified configurator on Zodiac website.

Z400iQ Stainless



- + Unique design
- + Quiet & discrete
- + Embedded connectivity

DESCRIPTION

- Vertical air outlet
- Polypropylene and galvanized steel, epoxy painted (body). 316L Stainless Steel front panel
- LCD (LED) display
- Embedded wi-fi with dedicated app
- Heating priority mode (filtration pump control)
- 2-speed fan with automatic noise reduction
- Standard / Silence mode selection
- Automatic cooling mode
- Automatic defrosting (cycle inversion and forced ventilation)
- Titanium water exchanger, compatible with salt water treatment
- On-off compressor, Rotary vane



<145M³

3 YEAR
WARRANTY

5 YEAR
CONDENSER
WARRANTY
ANTI-CORROSION



ACCESSORIES INCLUDED IN THE PACK

- Winter cover
- Condensate drain kit
- PVC and gaskets, 1/2 unions, Ø 50
- Anti-vibration feet
- Free mobile app

OPTIONAL ACCESSORIES

Cleaning kit HP - WMA03491

TECHNICAL FEATURES

Model	MD4 S	MD5 S	MD7 S	TD7 S	MD8 S	TD8 S	MD9 S	TD9 S
Standard Model	WH000398	WH000399	WH000357	WH000401	WH000359	WH000403	WH000351	WH000405
NF pac certification								
Recommended water flow (m ³ /h)	4	5	6	7	8			
Hydraulic connection	PVC ½ unions, ø 50 , glued							
Electric power supply	220-240V / 1 N~ / 50Hz			380-400V / 3N~ / 50Hz	220-240V / 1 N~ / 50Hz	380-400V / 3N~ / 50Hz	220-240V / 1 N~ / 50Hz	380-400V / 3N~ / 50Hz
Nominal operating power (A)	6,9	10,1	13,4	6,1	17	7,7	19,4	8,8
Maximum operating power (A)	10,1	15	19	7,4	28	9,2	32	11,4
Recommended Power cable size*	3 x 2.5			5 x 2.5	3 x 6	5 x 2.5	3 x 6	5 x 2.5
Refrigerant fluid	R32		R410A	R32	R410A	R32	R410A	R32
Refrigerant fluid quantity (kg)	0,87	0,99	1,45					
Acoustic Power (dB(A) in Standard / Silence mode)	64 / 61	65 / 63	66 / 63	68 / 66	64 / 61	65 / 62	64 / 62	66 / 63
Acoustic pressure at 10m (dB(A) in Standard / Silence mode)**	33 / 30	34 / 32	35 / 32	37 / 35	33 / 30	34 / 31	33 / 31	35 / 32

HEATING PERFORMANCE

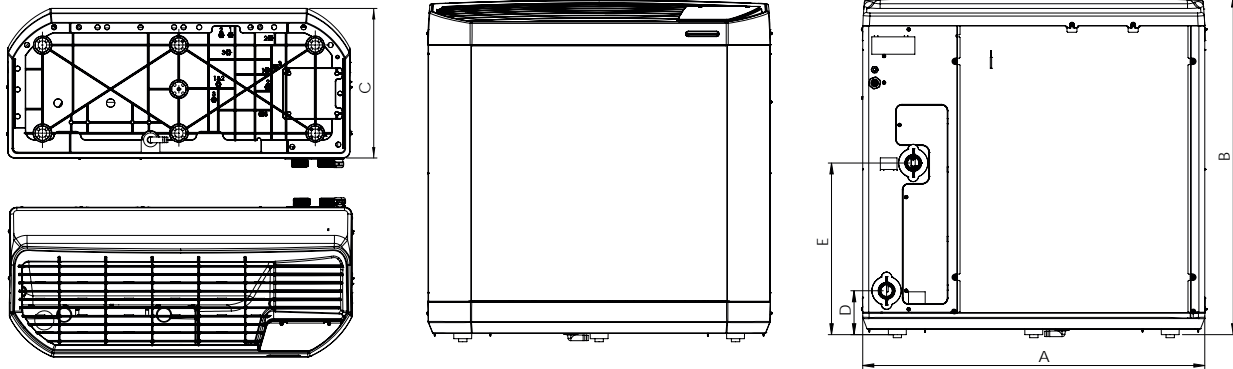
Model	MD4 S	MD5 S	MD7 S	TD7 S	MD8 S	TD8 S	MD9 S	TD9 S
AIR 28°C / WATER 28°C / HUMID. 80%								
Operating power (kW)	9,83	12,56	15,62		18,65		22,05	
Consumed power (kW)	1,67	2,34	3,20	2,97	3,82	3,51	4,51	4,25
COP	5,89	5,23	4,89	5,25	4,89	5,32	4,90	5,19
AIR 15°C / WATER 26°C / HUMID. 70% NF								
Operating power (kW)	7,94	9,96	12,40		14,80		17,50	
Consumed power (kW)	1,61	2,26	2,95	2,87	3,52	3,54	4,16	4,07
COP	4,93	4,40	4,20	4,32	4,20	4,18	4,21	4,29

*Cable not provided. Recommended section for a maximum length of 20 meters.

**According to EN60704-1:2010+A11:2012 standard

WEIGHT AND DIMENSIONS

Model	MD4 S	MD5 S	MD7 S	TD7 S	MD8 S	TD8 S	MD9 S	TD9 S
Weight (kg)	70	71	90	94	105		110	
Dimensions (mm)								
A			1030				1145	
B	872				1018			
C			449				480	
D			132				125	
E			516				510	



For complete technical & dimensional details, refer to the datasheet/user manual.

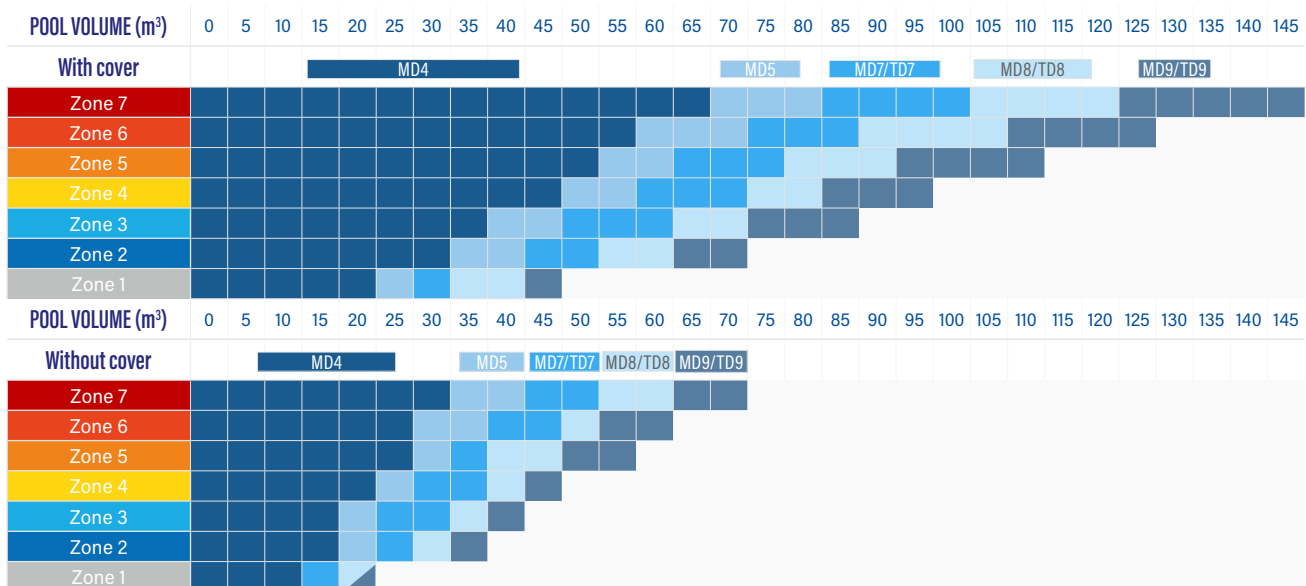
HEAT PUMPS SELECTION GUIDE

PARAMETERS OF THE QUICK SELECTION GUIDE

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

SELECT THE POWER IN LESS THAN 1 MINUTE

How to read: For a 35m³ pool, with cover, located in zone 4, a Z400iQ MD4 is needed*.



*To find the corresponding pool location zone, consult our climate map in page 669

Zodiac recommends to use the web configurators to get a more accurate sizing

For professional use, visit our configurator on Profluidra website.
For public use, visit our simplified configurator on Zodiac website.



- + Full Inverter Technology: silent and economical
- + Intelligent heating regulation with power mode selection
- + Wide range of powers

DESCRIPTION

- Horizontal blowing
- Galvanized, epoxy painted body and ABS covering
- LCD (LED) display, detachable
- Heating priority mode (filtration pump control)
- Timed mode
- Full inverter technology (variable speed compressor and fan) featuring 3 operating modes:
 - Boost: max power for fast heat-up
 - Smart: automatic power adjustment from Ecosilence to Boost depending on the water temperature of the pool and the outside air
 - Ecosilence: reduced power to further energy savings and the lowest noise level
- Automatic defrosting
- Automatic cooling mode (cycle inversion)
- Titanium water exchanger, compatible with salt water treatment
- Inverter, rotary vane compressor
- DC fan, variable speed (inverter)



<195m³

2 YEAR
WARRANTY

5 YEAR
CONDENSER
WARRANTY
ANTI-CORROSION



FULL INVERTER



HEAT / COOL



MIN. AIR TEMP



CO₂-CONSCIOUS

ACCESSORIES INCLUDED IN THE PACK

- Winter cover
- Condensate drain kit
- PVC and gaskets, 1/2 unions, Ø 50
- Anti-vibration feet
- Remote control kit (with 10m cable)

OPTIONAL ACCESSORIES

Cleaning kit HP - WMA03491

TECHNICAL FEATURES

Model	MD3	MD4	MD5	MD6	MD7	MD9	MD11	MD12	TD11	TD12
Standard Model	WH000428	WH000429	WH000430	WH000431	WH000432	WH000433	WH000434	WH000436	WH000435	WH000437
Recommended water flow (m ³ /h)	4	5	6	7	8	10	13			
Hydraulic connection	PVC ½ unions, ø50 , glued									
Electric power supply	220-240 V / 1 / 50-60 Hz								380-400V / 3N~/50-60Hz	
Nominal operating power (A)	4,6	5,9	7,2	9,2	10,5	13,2	17	22,9	7	8,4
Maximum operating power (A)	6,4	8,3	10	13	14,7	18,5	24	32	9,8	11,8
Recommended Power cable size*	3 x 1,5		3 x 2,5			3 x 4		3 x 6	5 x 2,5	5 x 4
Refrigerant fluid	R32								R410A	
Refrigerant fluid quantity (kg)	0,72	0,55	0,80	0,81	1,50	1,70	2,40		3,00	4,00
Acoustic Power (dB(A)) @ max-min speed	65 - 53	67 - 54	71 - 54	71 - 55	73 - 56		75 - 58			
Acoustic pressure at 10m (dB(A)) @ max-min speed**	34 - 22	36 - 23	39 - 23	40 - 23	41 - 24	42 - 25	43 - 26	44 - 27	44 - 26	44 - 27

HEATING PERFORMANCE

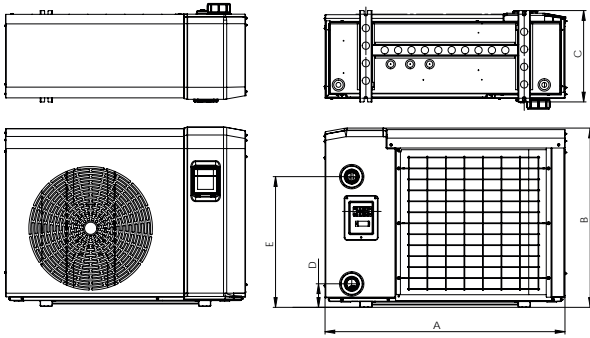
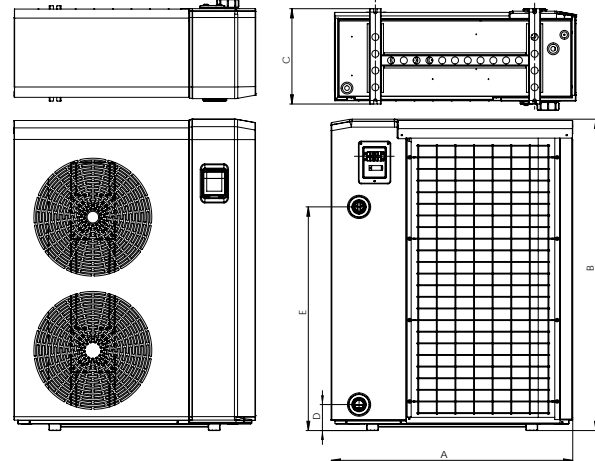
Model	MD3	MD4	MD5	MD6	MD7	MD9	MD11	MD12	TD11	TD12
AIR 28°C / WATER 28°C / HUMID. 80%										
Operating power (kW @ max-min speed)	9 - 1,9	10,5 - 2,1	13,5 - 2,5	16,5 - 3	19,5 - 3,5	25 - 4,5	31 - 5,6	35 - 7,6	31 - 5,6	35 - 7,6
Consumed power (kW @ max-min speed)	1,6 - 0,2	1,8 - 0,2	2,2 - 0,2	2,8 - 0,2	3,3 - 0,3	4,2 - 0,3	5,3 - 0,4	5,9 - 0,5	5,3 - 0,4	5,9 - 0,5
COP @ max-min speed	5,8 - 16									
AIR 15°C / WATER 26°C / HUMID. 70%										
Operating power (kW @ max-min speed)	6,3 - 1,9	7,6 - 2	9,4 - 2	11,2 - 2,5	13,7 - 3	17,7 - 4	22,1 - 5,4	24 - 5,6	22,1 - 5,4	24 - 5,6
Consumed power (kW @ max-min speed)	1,4 - 0,3	1,8 - 0,3	2,1 - 0,3	2,5 - 0,3	3,1 - 0,4	4 - 0,5	5 - 0,7	5,4 - 0,7	5 - 0,7	5,4 - 0,7
COP @ max-min speed	4,5 - 8									

*Cable not provided. Recommended section for a maximum length of 20 meters.

** According to EN60704-1:2010+A11:2012 standard

DIMENSIONS (MM) AND WEIGHT

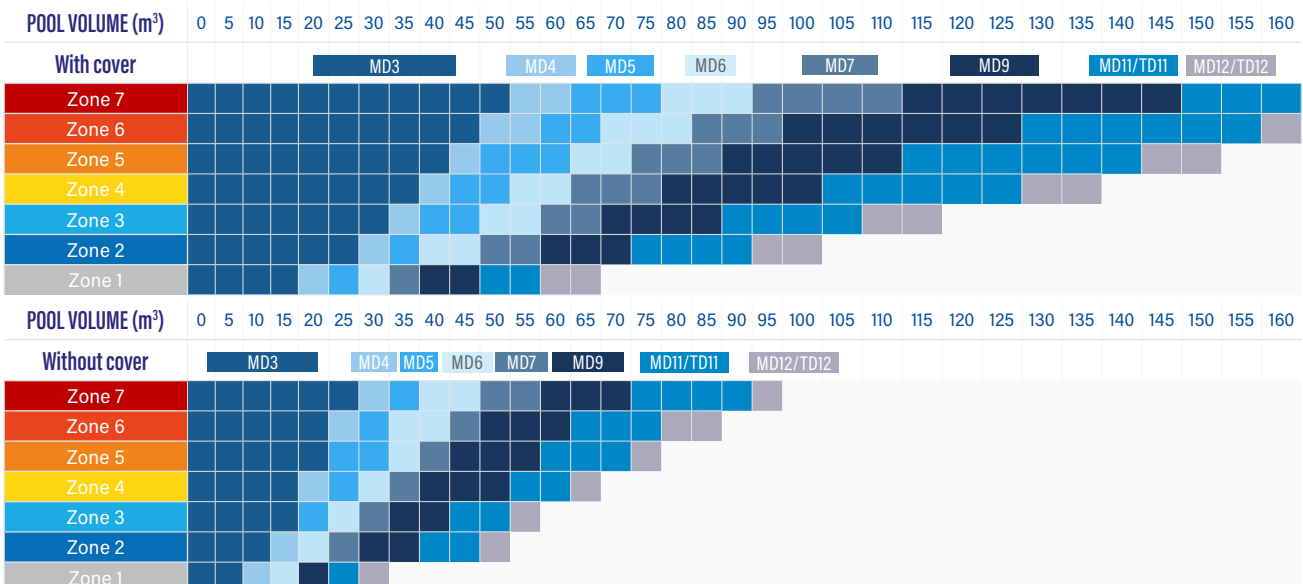
Model	MD3	MD4	MD5	MD6	MD7	MD9	MD11	MD12	TD11	TD12
Weight (kg)	52	58	61	62	89	92	120	126	123	128
A	859		985				1074		1039	
B	641		736				941		1339	
C	357		375				395		410	
D	97		97				107		112	
E	446,5		537				707		962	

PX50 MD3, MD4, MD5, MD6, MD7, MD9

PX50 MD11, TD11, MD12, TD12

HEAT PUMPS SELECTION GUIDE
PARAMETERS OF THE QUICK SELECTION GUIDE

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

SELECT THE POWER IN LESS THAN 1 MINUTE

How to read: For a 35m³ pool, with cover, located in zone 4, a PX50 MD3 is needed*.



*To find the corresponding pool location zone, consult our climate map in page 669

Zodiac recommends to use the web configurators to get a more accurate sizing

For professional use, visit our configurator on Profluidra website.
For public use, visit our simplified configurator on Zodiac website.


<190M³
2 YEAR
WARRANTY

5 YEAR
CONDENSER
WARRANTY
ANTI-CORROSION


- + Reversible operation down to -8°C outdoor air temperature
- + 2-speed ventilation with automatic silent mode
- + Wide range of powers

DESCRIPTION

- Horizontal blowing
- Galvanized, epoxy painted body
- LCD (LED) display, detachable
- Heating priority mode (filtration pump control)
- Timed mode
- 2-speed fan with automatic noise reduction
- Automatic defrosting (cycle inversion)
- Minimum operating temperature: -8°C
- Titanium water exchanger, compatible with salt water treatment
- On-off compressor, Rotary vane or Scroll

ACCESSORIES INCLUDED IN THE PACK

- Winter cover
- Condensate drain kit
- PVC and gaskets, unions, Ø 50
- Anti-vibration feets
- Remote control kit (with 10m cable)

OPTIONAL ACCESSORIES

- Cleaning kit HP - WMA03491
- Technical Room Kit - WH000202
- Condensate tray, Z550iQ - R07240

TECHNICAL FEATURES

Model	MD1	MD2	MD3	MD4	MD5	MD7	MD8	TD7	TD8	TD12
Standard Model	WH000418	WH000419	WH000420	WH000421	WH000422	WH000488	WH000426	WH000423	WH000425	WH000489
Recommended water flow (m ³ /h)	2,5	3	5	6	7	9	12	9	12	16
Hydraulic connection	PVC unions, ø38 (1"1/2), glued									
Electric power supply	220-240V / 1 N~ / 50Hz						380-400V / 3N~/ 50-60Hz			
Nominal operating power (A)	4,1	6,2	8,9	9,7	11	13,5	16,8	5,1	5,62	10,1
Maximum operating power (A)	5,2	8,8	10,7	12,3	13,1	20,3	23	7,9	9,8	13,6
Recommended Power cable size*	3 x 1,5	3 x 2,5			3 x 4		5 x 2,5		5 x 4	
Refrigerant fluid	R32						R410A		R32	
Refrigerant fluid quantity (kg)	0,40	0,75	0,90	1,10	1,15	1,10	2,30	1,10	1,45	2,20
Acoustic Power (dB(A) in Standard / Silence mode)	63 / 62	66 / 64	67 / 64		69 / 64	74 / 72	77 / 76	75 / 74	76 / 73	76 / 75
Acoustic pressure at 10m (dB(A) in Standard / Silence mode)**	32 / 31	35 / 33	36 / 33		38 / 33	43 / 41	45 / 44	44 / 43	44 / 41	45 / 44

HEATING PERFORMANCE

Model	MD1	MD2	MD3	MD4	MD5	MD7	MD8	TD7	TD8	TD12
AIR 28°C / WATER 28°C / HUMID. 80%										
Operating power (kW)	4,7	7,5	10,5	11,7	14,7	17,5	22,5	18,5	22,1	31
Consumed power (kW)	0,9	1,3	1,9	2,1	2,4	3	3,6	3	3,2	4,9
COP	5,4	5,7	5,5	5,6	6,2	5,8	6,3		6,8	6,4
AIR 15°C / WATER 26°C / HUMID. 70%										
Operating power (kW)	3,2	5,5	7,5	8,5	10,5	12,9	16	13,5	16	23
Consumed power (kW)	0,8	1,2	1,7	1,9	2,2	2,8	3,5	3,1	3,7	4,8
COP	4	4,8	4,4	4,6	4,8	4,6		4,4		4,8

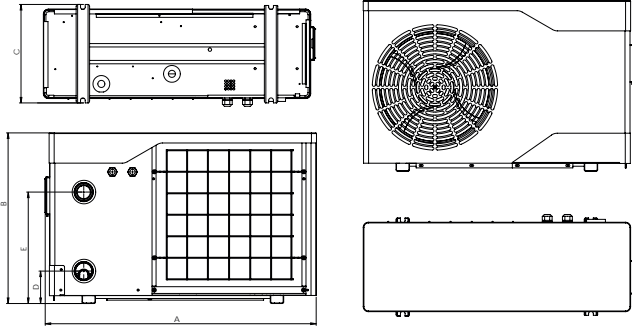
*Cable not provided. Recommended section for a maximum length of 20 meters.

**According to EN60704-1:2010+A11:2012 standard

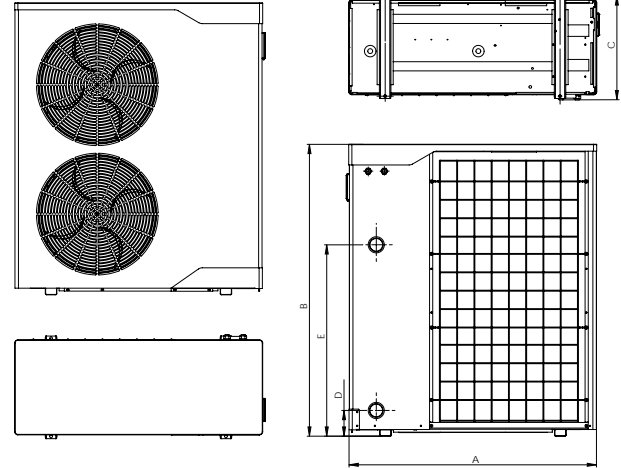
WEIGHT AND DIMENSIONS

Model	MD1	MD2	MD3	MD4	MD5	MD7	MD8	TD7	TD8	TD12
Weight (kg)	38	54	64	70	81	102	119	95	111	147

PM40 MD1, MD2, MD3, MD4, MD5, MD7, TD7, MD8, TD8



PM40 TD12



For complete technical & dimensional details, refer to the datasheet/user manual.

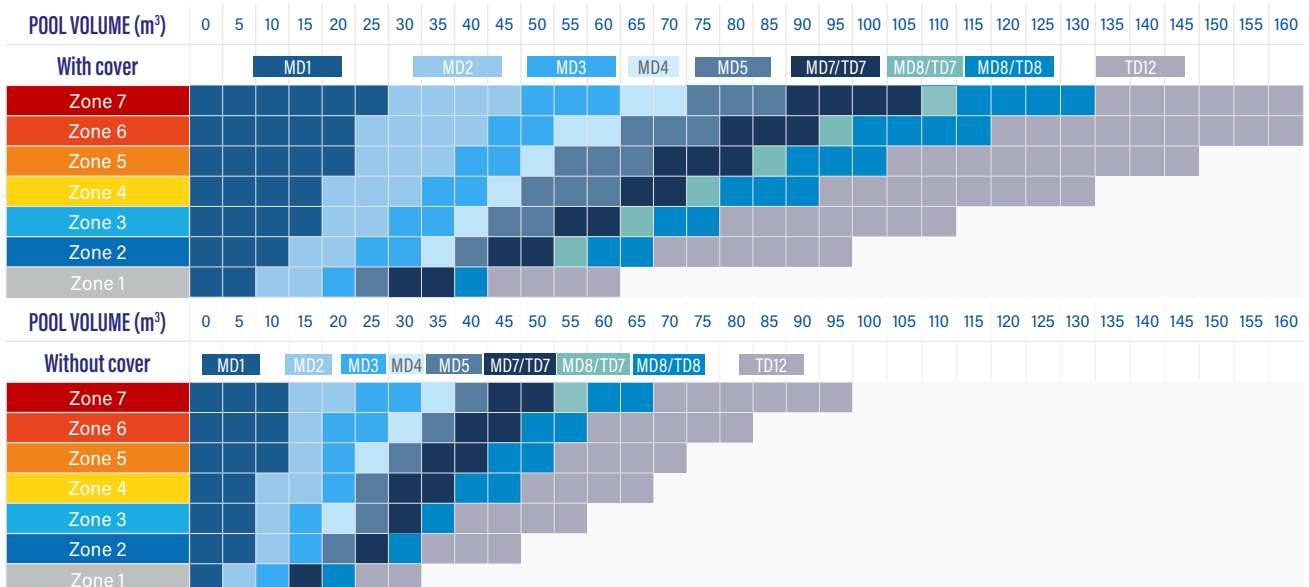
HEAT PUMPS SELECTION GUIDE

PARAMETERS OF THE QUICK SELECTION GUIDE

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

SELECT THE POWER IN LESS THAN 1 MINUTE

How to read: For a 35m³ pool, with cover, located in zone 4, a PM40 MD3 is needed*.



*To find the corresponding pool location zone, consult our climate map in page 669

Zodiac recommends to use the web configurators to get a more accurate sizing

For professional use, visit our configurator on Profluidra website.
For public use, visit our simplified configurator on Zodiac website.


<110M³
3 YEAR
WARRANTY

5 YEAR
CONDENSER
WARRANTY
ANTI-CORROSION

 ON/OFF
+


HEAT ONLY



MIN. AIR TEMP



MADE IN EUROPE


 OPTIONAL
KIT
TECHNICAL
ROOM


- + Certified performances
- + Guaranteed heating thanks to heating priority
- + Can also be installed in a technical room

DESCRIPTION

- Horizontal blowing
- Polypropylene body
- LCD display
- Heating priority mode (filtration pump control)
- Possible On-off control through remote switch or home automation system
- Automatic defrosting (forced ventilation)
- Titanium water exchanger, compatible with salt water treatment
- On-off compressor, Rotary vane

ACCESSORIES INCLUDED IN THE PACK

- Winter cover
- Condensate drain kit
- PVC and gaskets, 1/2 unions, Ø 50
- Anti-vibration pads

OPTIONAL ACCESSORIES

- Cleaning kit HP - WMA03491
- Remote control - WTC04004
- Technical Room Kit - W20KITPFPREMLT
- Condensate tray - R07242
- Wall mounting kit - R07339

TECHNICAL FEATURES

Model	Z300 M4	Z300 M5	Z300 T5	Z300 M7
Standard Model	WH000014	WH000015	WH000016	WH000019
Recommended water flow (m ³ /h)	4	5	6	6
Hydraulic connection	PVC ½ unions, ø 50 , glued			
Electric power supply	220-240V / 1 N~ / 50Hz		380-400V / 3N~ / 50Hz	220-240V / 1 N~ / 50Hz
Nominal operating power (A)	7,9	10,3	4,3	13
Maximum operating power (A)	10	14,5	5,3	16,4
Recommended Power cable size*	3 x 2,5		5 x 2,5	3 x 4
Refrigerant fluid	R410A			
Refrigerant fluid quantity (kg)	0,92	1,55	1,40	1,40
Acoustic power	67	68	70	67
Acoustic pressure at 10m (dB(A)**)	36	37	39	36

HEATING PERFORMANCE

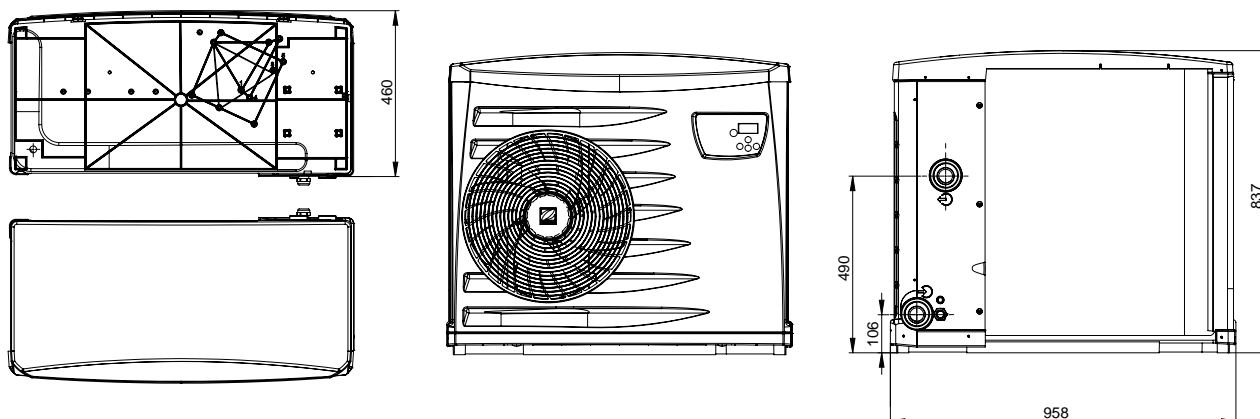
Model	Z300 M4	Z300 M5	Z300 T5	Z300 M7
AIR 28°C / WATER 28°C / HUMID. 80% - NF				
Operating power (kW)	9	13	13,1	16,1
Consumed power (kW)	1,6	2,4	2,3	2,9
COP	5,6	5,5	5,6	5,6
AIR 15°C / WATER 26°C / HUMID. 70%				
Operating power (kW)	7,6	10,4	10,5	13,7
Consumed power (kW)	1,7	2,2	2,2	2,9
COP	4,5	4,7	4,7	4,7

*Cable not provided. Recommended section for a maximum length of 20 meters.

**According to EN60704-1:2010+A11:2012 standard

WEIGHT AND DIMENSIONS

Model	Z300 M4	Z300 M5	Z300 T5	Z300 M7
Weight (kg)	52	63	63	68



For complete technical & dimensional details, refer to the datasheet/user manual.

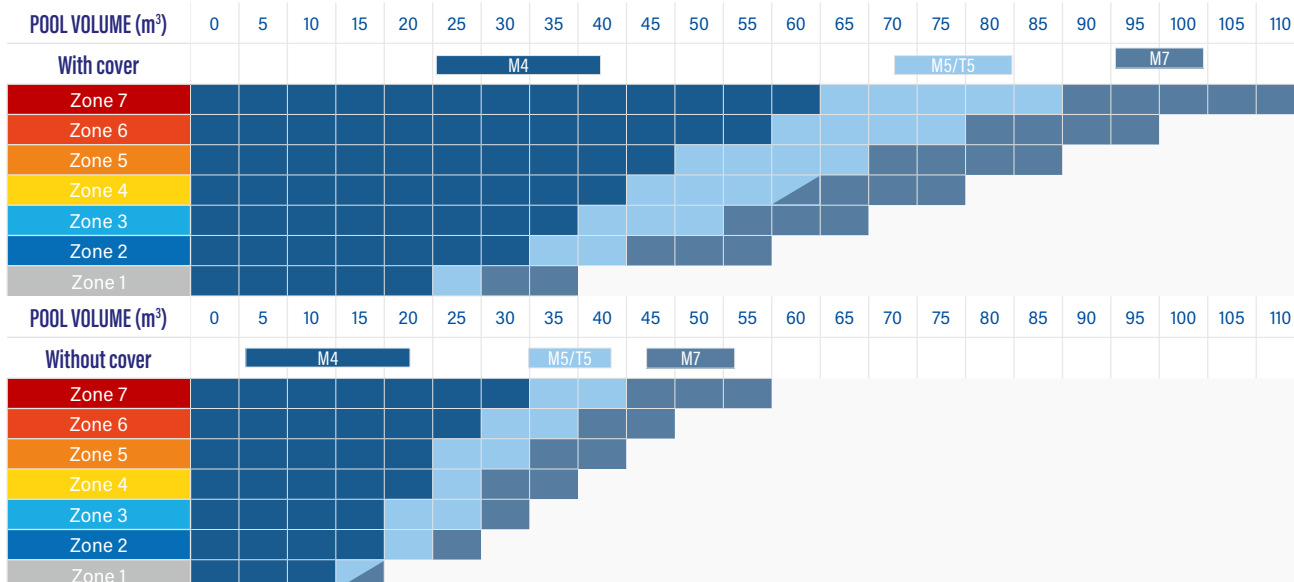
HEAT PUMPS SELECTION GUIDE

PARAMETERS OF THE QUICK SELECTION GUIDE

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

SELECT THE POWER IN LESS THAN 1 MINUTE

How to read: For a 35m³ pool, with cover, located in zone 4, a Z300 M4 is needed*.



*To find the corresponding pool location zone, consult our climate map in page 669

Zodiac recommends to use the web configurators to get a more accurate sizing

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For public use, visit our simplified configurator on Zodiac website.

Z200 defrost


<80M³
3 YEAR WARRANTY
5 YEAR CONDENSER WARRANTY ANTI-CORROSION


ON/OFF



HEAT ONLY


-5°C
MIN. AIR TEMP

- + The most compact
- + Operating down to -5°C outdoor temperature
- + Suits most pools

DESCRIPTION

- Horizontal blowing
- Polypropylene body
- LCD display
- Heating priority mode (filtration pump control)
- Possible On-off control through remote switch or home automation system
- Automatic defrosting (cycle inversion)
- Titanium water exchanger, compatible with salt water treatment
- On-off compressor, Rotary vane

ACCESSORIES INCLUDED IN THE PACK

- Winter cover
- Condensate drain kit
- PVC and gaskets, 1/2 unions, Ø 40 & Ø 50
- Anti-vibration pads

OPTIONAL ACCESSORIES

- Cleaning kit HP - WMA03491
- Remote control Z200 Defrost - WH000476
- Wall mounting kit - R07338

TECHNICAL FEATURES

Model	Z200 MD2	Z200 MD3	Z200 MD4	Z200 MD5
Standard Model	WH000407	WH000408	WH000409	WH000410
Recommended water flow (m ³ /h)	4		5	
Hydraulic connection	PVC ½ unions, ø 40 or ø 50 , glued			
Electric power supply	220-240V / 1 N~ / 50Hz			
Nominal operating power (A)	4,5	6,3	7,9	11,2
Maximum operating power (A)	5,2	7,6	10,2	13,4
Recommended Power cable size*	3 x 2.5			
Refrigerant fluid	R32			
Refrigerant fluid quantity (kg)	0,68	0,8	1	1,10
Acoustic power	66	67	69	72
Acoustic pressure at 10m (dB(A)**)	35	36	37	41

HEATING PERFORMANCE

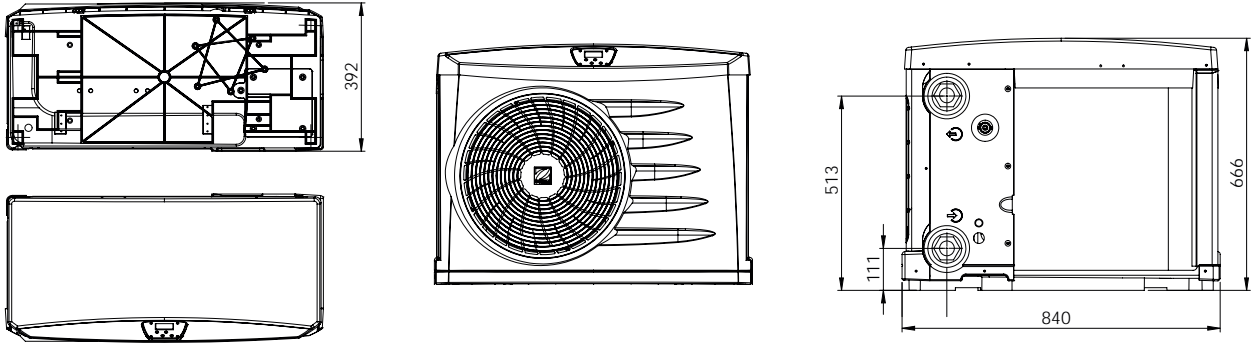
Model	Z200 MD2	Z200 MD3	Z200 MD4	Z200 MD5
AIR 28°C / WATER 28°C / HUMID. 80%				
Operating power (kW)	6,7	9,3	11,5	14,8
Consumed power (kW)	1,2	1,8	2,3	3,2
COP	5,5	5	5,1	4,6
AIR 15°C / WATER 26°C / HUMID. 70%				
Operating power (kW)	4,8	7	8,1	10,1
Consumed power (kW)	1	1,6	2	2,5
COP	4,8	4,4	4	

*Cable not provided. Recommended section for a maximum length of 20 meters.

**According to EN60704-1:2010+A11:2012 standard

WEIGHT AND DIMENSIONS

Model	Z200 MD2	Z200 MD3	Z200 MD4	Z200 MD5
Weight (kg)	51	35	40	46



For complete technical & dimensional details, refer to the datasheet/user manual.

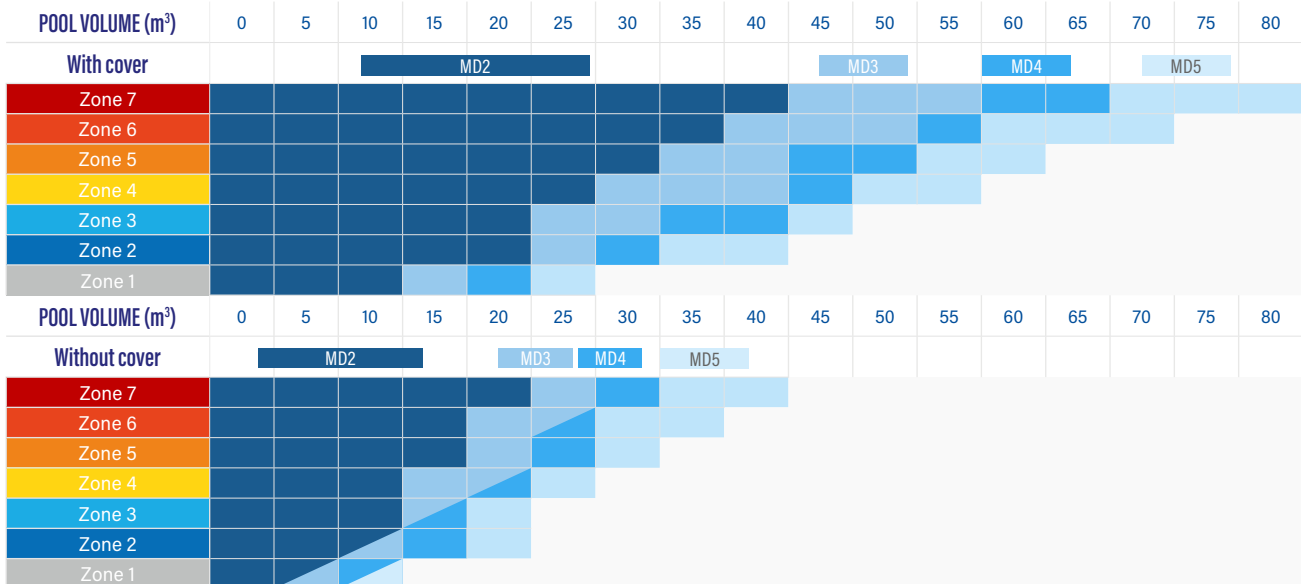
HEAT PUMPS SELECTION GUIDE

PARAMETERS OF THE QUICK SELECTION GUIDE

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

SELECT THE POWER IN LESS THAN 1 MINUTE

How to read: For a 35m³ pool, with cover, located in zone 4, a Z200 MD3 is needed*.



*To find the corresponding pool location zone, consult our climate map in page 669

Zodiac recommends to use the web configurators to get a more accurate sizing

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For public use, visit our simplified configurator on Zodiac website.


<80M³
3 YEAR WARRANTY
5 YEAR CONDENSER WARRANTY ANTI-CORROSION


ON/OFF



HEAT ONLY



MIN. AIR TEMP

- + The most compact
- + Guaranteed heating thanks to heating priority
- + Suits most pools

DESCRIPTION

- Horizontal blowing
- Polypropylene body
- LCD display
- Heating priority mode (filtration pump control)
- Possible On-off control through remote switch or home automation system
- Automatic defrosting (forced ventilation)
- Titanium water exchanger, compatible with salt water treatment
- On-off compressor, Rotary vane

ACCESSORIES INCLUDED IN THE PACK

- Winter cover
- Condensate drain kit
- PVC and gaskets, 1/2 unions, Ø 40 & Ø 50
- Anti-vibration pads

OPTIONAL ACCESSORIES

- Cleaning kit HP - WMA03491
- Remote control Z200 - WH000200
- Wall mounting kit - R07338

TECHNICAL FEATURES

Model	Z200 M2	Z200 M3	Z200 M4	Z200 M5
Standard Model	WH000307	WH000308	WH000309	WH000310
Recommended water flow (m ³ /h)	4	4	5	5
Hydraulic connection	PVC ½ unions, ø 40 or ø 50 , glued			
Electric power supply	220-240V / 1 N~ / 50Hz			
Nominal operating power (A)	4,5	6,3	7,9	11,2
Maximum operating power (A)	5,2	7,6	10,2	13,4
Recommended Power cable size*	3 x 2,5			
Refrigerant fluid	R32			
Refrigerant fluid quantity (kg)	0,68	0,8	1	1,10
Acoustic power	66	67	69	72
Acoustic pressure at 10m (dB(A)**)	35	36	37	41

HEATING PERFORMANCE

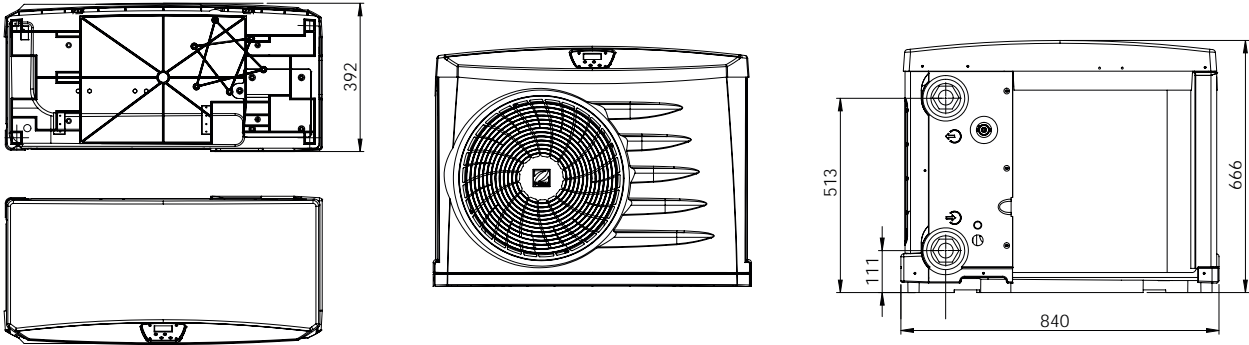
Model	Z200 M2	Z200 M3	Z200 M4	Z200 M5
AIR 28°C / WATER 28°C / HUMID. 80%				
Operating power (kW)	6,7	9,3	11,5	14,8
Consumed power (kW)	1,2	1,8	2,3	3,2
COP	5,5	5	5,1	4,6
AIR 15°C / WATER 26°C / HUMID. 70%				
Operating power (kW)	4,8	7	8,1	10,1
Consumed power (kW)	1	1,6	2	2,5
COP	4,8	4,4	4	4

*Cable not provided. Recommended section for a maximum length of 20 meters.

**According to EN60704-1:2010+A11:2012 standard

WEIGHT AND DIMENSIONS

Model	Z200 M2	Z200 M3	Z200 M4	Z200 M5
Weight (kg)	40	35	40	46



For complete technical & dimensional details, refer to the datasheet/user manual.

HEAT PUMPS SELECTION GUIDE

PARAMETERS OF THE QUICK SELECTION GUIDE

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

SELECT THE POWER IN LESS THAN 1 MINUTE

How to read: For a 35m³ pool, with cover, located in zone 4, a Z200 M3 is needed*.

POOL VOLUME (m ³)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
With cover				M2							M3		M4				M5	
Zone 7																		
Zone 6																		
Zone 5																		
Zone 4																		
Zone 3																		
Zone 2																		
Zone 1																		
POOL VOLUME (m ³)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
Without cover			M2				M3	M4	M5									
Zone 7																		
Zone 6																		
Zone 5																		
Zone 4																		
Zone 3																		
Zone 2																		
Zone 1																		

*To find the corresponding pool location zone, consult our climate map in page 669

Zodiac recommends to use the web configurators to get a more accurate sizing

For professional use, visit our configurator on Profluidra website.
For public use, visit our simplified configurator on Zodiac website.

Power Force


<305M³
2 YEAR WARRANTY
5 YEAR CONDENSER WARRANTY ANTI-CORROSION

 ON/OFF
+


HEAT / COOL



MIN. AIR TEMP



MADE IN EUROPE



- + Certified performances
- + Variable speed fan, quiet and energy-saving
- + Year-round operation down to -12°C

DESCRIPTION

- Horizontal blowing
- Galvanized steel, epoxy painted body
- LCD display
- Heating priority mode (filtration pump control)
- Possible On-off control through remote switch or home automation system
- Variable speed (DC) fan with automatic noise reduction
- Automatic cooling mode
- Automatic defrosting (cycle inversion)
- Titanium water exchanger, compatible with salt water treatment
- On-off compressor, scroll
- DC fan, variable speed (inverter)

ACCESSORIES INCLUDED IN THE PACK

- Condensate drain kit
- PVC and gaskets, unions, Ø 63
- Anti-vibration pads

OPTIONAL ACCESSORIES

Cleaning kit HP - WMA03491

TECHNICAL FEATURES

Model	TD25	TD35
Standard Model	W20PFORCE25TD	W20PFORCE35TD
Recommended water flow (m ³ /h)	10	
Hydraulic connection	PVC unions, ø63 , glued	
Electric power supply	380-400V / 3N~ / 50Hz	
Nominal operating power (A)	10,6	12,9
Maximum operating power (A)	14,2	18,1
Recommended Power cable size*	5 x 4	
Refrigerant fluid	R410A	
Refrigerant fluid quantity (kg)	6,40	6,30
Acoustic power	70	71
Acoustic pressure at 10m (dB(A))**	38,00	39,00

HEATING PERFORMANCE

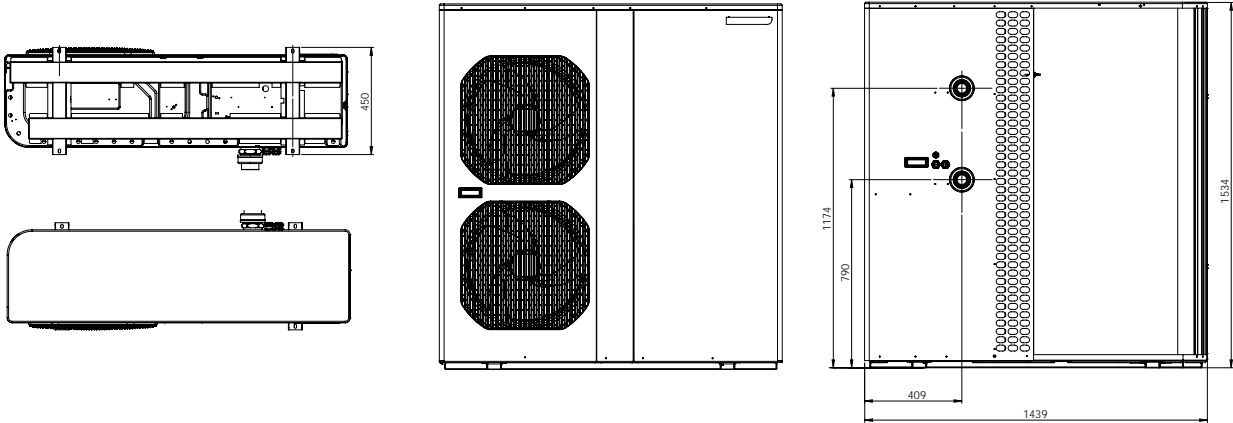
Model	TD25	TD35
AIR 28°C / WATER 28°C / HUMID. 80%		
Operating power (kW)	33	45,5
Consumed power (kW)	6,1	8,6
COP	5,4	5,3
AIR 15°C / WATER 26°C / HUMID. 70% NF		
Operating power (kW)	28,7	37
Consumed power (kW)	5,6	7,6
COP	5,1	4,9

*Cable not provided. Recommended section for a maximum length of 20 meters.

** According to EN60704-1:2010+A11:2012 standard

WEIGHT AND DIMENSIONS

Model	TD25	TD35
Weight (kg)	205	205



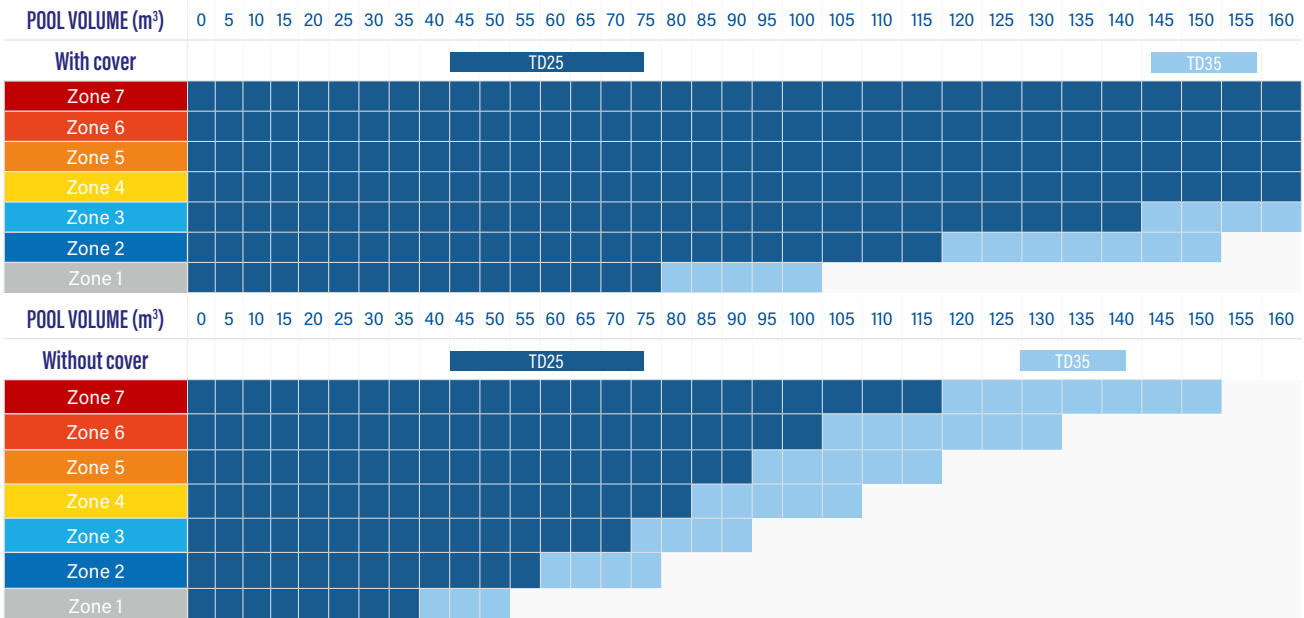
HEAT PUMPS SELECTION GUIDE

PARAMETERS OF THE QUICK SELECTION GUIDE

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

SELECT THE POWER IN LESS THAN 1 MINUTE

How to read: For a 135m³ pool, with cover, located in zone 4, a POWERFORCE TD25 is needed*.



*To find the corresponding pool location zone, consult our climate map in page 669

Zodiac recommends to use the web configurators to get a more accurate sizing

For professional use, visit our configurator on Profluidra website.
For public use, visit our simplified configurator on Zodiac website.

Z700 Duo



- + A single device to heat both your pool and pool room
- + Substantial energy savings
- + Compact installation

DESCRIPTION

- Dual Purpose heat pump, water heating / air heating, combined with Zodiac dehumidifiers featuring a hot water coil
- Horizontal blowing
- Electroplated steel, polyester powder coated body
- LCD display
- Automatic defrosting (cycle inversion)
- Pool water heating circuit: Water flow switch, Titanium condenser (compatible with salt water treatment)
- Hot water coil feeding: circulating pump, stainless steel water exchanger condenser, 6kW extra electrical heating
- On-off compressor, scroll



<125M³

2 YEAR
WARRANTY

5 YEAR
CONDENSER
WARRANTY
ANTI-CORROSION



ON/OFF



HEAT ONLY



MIN. AIR TEMP



MADE IN FRANCE

ACCESSORIES INCLUDED IN THE PACK

- Condensate drain kit
- Anti-vibration pads
- PVC and gaskets
- Hydraulic kit
- Copper fittings and gaskets

OPTIONAL ACCESSORIES

Cleaning kit HP - WMA03491

TECHNICAL FEATURES

Model	MD5	TD5	MD8	TD8
Standard Model	WH000266	WH000267	WH000268	WH000269
Maximum recommended room volume (m ³)	250		300	
Recommended water flow (m ³ /h)	6			
Hydraulic connection	PVC unions, ø 50 , glued			
Electric power supply	220-240V / 1 N~ / 50Hz	380-400V / 3N~ / 50Hz	220-240V / 1 N~ / 50Hz	380-400V / 3N~ / 50Hz
Nominal operating power (A)	13,6	6,1	16,2	7,2
Maximum operating power (A)	18	8,2	21,5	9,5
Maximum operating power with electric heating option (A)	48	18	57	20,5
Recommended Power cable size*	3 x 10	5 x 4	3 x 16	5 x 6
Refrigerant fluid	R410A			
Refrigerant fluid quantity (kg)	4,64		4,75	
Acoustic power	67		65	
Acoustic pressure at 10m (dB(A))**	36,00	33,1	36,00	33,1

HEATING PERFORMANCE

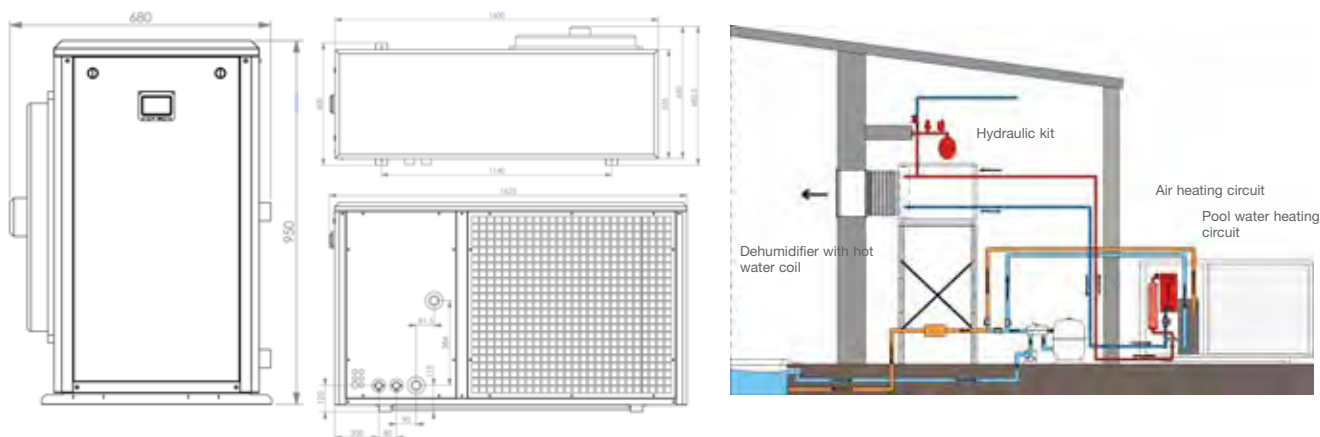
Model	MD5	TD5	MD8	TD8
AIR HEATING PERFORMANCE: 15°C AIR / HOT WATER COIL 42°C/49°C				
Operating power (kW)	9,7		12	
Consumed power (kW)	3,5		4,2	
COP	2,8		2,9	
POOL WATER HEATING PERFORMANCE : AIR 15°C / WATER 26°C / HUMID. 70%				
Operating power (kW)	12,5		15,2	
Consumed power (kW)	2,6		3,1	
COP	4,8		4,9	

*Cable not provided. Recommended section for a maximum length of 20 meters.

** According to EN60704-1:2010+A11:2012 standard

WEIGHT AND DIMENSIONS

Model	MD5	TD5	MD8	TD8
Weight (kg)	192	192	205	205



For complete technical & dimensional details, refer to the datasheet/user manual.

HEAT PUMPS SELECTION GUIDE

PARAMETERS OF THE QUICK SELECTION GUIDE

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

SELECT THE POWER IN LESS THAN 1 MINUTE

How to read: For a 35m³ pool, with cover, located in zone 4, a Z700 MD5/TD5 is needed*.

POOL VOLUME (m ³)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	
With cover																											
Zone 7																											
Zone 6																											
Zone 5																											
Zone 4																											
Zone 3																											
Zone 2																											
Zone 1																											
Without cover																											
Zone 7																											
Zone 6																											
Zone 5																											
Zone 4																											
Zone 3																											
Zone 2																											
Zone 1																											

*To find the corresponding pool location zone, consult our climate map in page 669

Zodiac recommends to use the web configurators to get a more accurate sizing

For professional use, visit our configurator on Profluidra website.
For public use, visit our simplified configurator on Zodiac website.

ELECTRIC HEATERS

The simplest solution for a fast rise in temperature

Easy to install and to use, Zodiac® electric heaters heat your pool rapidly and keep the water at the desired temperature, for a very competitive purchase ex VAT Price. Compact, stand-alone units, they are fitted to the filtration system. Start filtration to raise the temperature (in 2 to 5 days).

> CHOOSING AN ELECTRIC HEATER

Several parameters should be considered when choosing a suitable electric heater.

Depending on the size of the pool to be heated and the desired use (temperature and period), the power of the system should be adapted, from 3 kW to 120 kW.

In a small technical room, **install the system in 'L' configuration.** In-line installation limits pressure drops.

To control the desired temperature, **there are two types of thermostat: mechanical and digital.** Using a complete digital regulator, it is also possible to control timer settings.

To limit electricity consumption, **a modular heater can be fitted with 2 heating elements.**

The advantage is that it can use just one heating element when the outside temperature is relatively high (summer).



REFERENCE POINT

All Zodiac® electric heater models are equipped with titanium heating elements, making them very robust.

COMPARATIVE TABLE OF RANGES

	RE/L	RED LINE	RE/U
			
Pool size	< 95 m ³	< 95 m ³	From 195 m ³
Power rating	From 3 to 12 kW	From 3 to 12 kW	From 12 to 24 kW
Assembly type	L	In line	In line
Modular type	-	-	•
Thermostat type	Mechanical	Digital	Digital



ELECTRIC HEATER

RE/U



- + Full digital regulation
- + 2-stage power management
- + Maximum robustness

DESCRIPTION

- Control box with precision thermostat $\pm 0.5^{\circ}\text{C}$
- Digital display and timer
- Positive safety high temperature limiter
- Pin water tightness using EPDM collars
- HYPALON electric connections
- Flow switch
- Power contactors
- Luminous control switches + indicators
- Pin water tightness using EPDM collars
- Single-phase 230V-50/60Hz or three-phase 400 V depending on model

2 YEAR WARRANTY **<195M³**



EASY INSTALLATION



SERVICES

Ti²²
TITANE INSIDE



MADE IN FRANCE

PRODUCT REFERENCES

Model	RE/U 12M	RE/U 15M	RE/U 15T	RE/U 18T	RE/U 21T	RE/U 24T
Standard Model	W40TIT12M	W40TIT15M	W40TIT15	W40TIT18	W40TIT21	W40TIT24

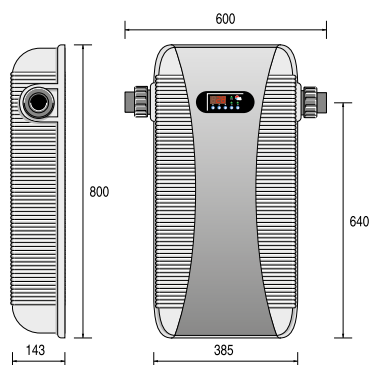
HEATING PERFORMANCE & TECHNICAL FEATURES

Model	RE/U 12M	RE/U 15M	RE/U 15T	RE/U 18T	RE/U 21T	RE/U 24T
Operating power (kW)**	6 + 6	6 + 9		9 + 9	9 + 12	12 + 12
Maximum operating power Tri 400 V (A)***	53	66	22	26	31	35
Power cable size for tri 400 V (mm ²)****	3 x 16		5 x 6		5 x 10	
Min. flow (m ³ /h)				5		
Max. flow (m ³ /h)				22		
Hydraulic connection	PVC Ø 50 ou Ø 63					

* Private open-air pool, temperate climate with an isothermal cover from May 15th to September 15th. ** Manufacturing tolerance of + or -5%. *** Tolerance operating voltage +6 -10%. Grid power supply. **** For a maximum length of 20 metres.

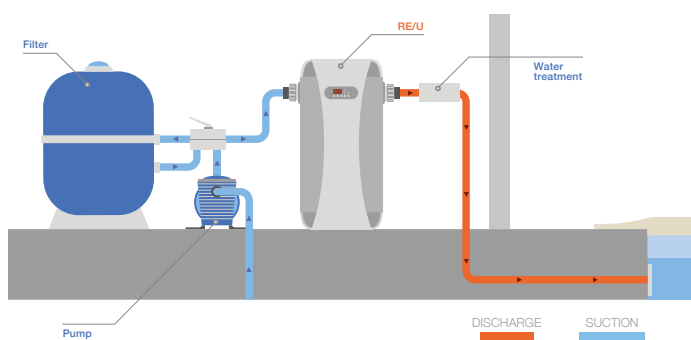
WEIGHT AND DIMENSIONS

Weight (kg)	12
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INSTALLATION

- In-line PVC hydraulic connection, Ø63 (exterior) or Ø50 (interior).
- Supports any flow direction: just turn the flow switch and reverse the control and safety sensors.



RED LINE



- + In-line, low pressure drop layout
- + 1 or 3 phase wiring (on-site configuration)
- + Full digital regulation

DESCRIPTION

- Control box with precision thermostat $\pm 0.5^{\circ}\text{C}$
- Digital display and timer
- Positive safety high temperature limiter
- Watertightness of electrical resistances with an EPDM collar
- Hypalon electric connections
- Flow switch
- Power contactors
- On/Off switch + Indicators
- REDLINE 3, 6 and 9: simplified single-phase 230V-50/60Hz / three phase 400V-50/60Hz power (three-phase 230V on request)
- REDLINE 12: three-phase 400V-50/60Hz only

2 YEAR WARRANTY **<95M³**



Ti²²
TITANE INSIDE



PRODUCT REFERENCES

Model	REDLINE 3	REDLINE 6	REDLINE 9	REDLINE 12
Standard Model	W40RDE3	W40RDE6	W40RDE9	W40RDE12

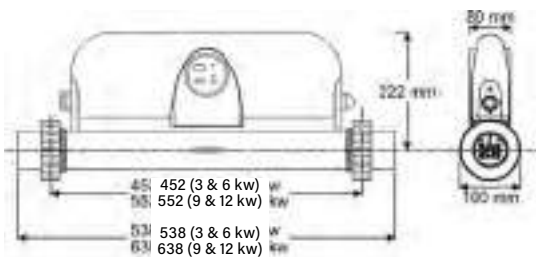
HEATING PERFORMANCE & TECHNICAL FEATURES

Model	REDLINE 3	REDLINE 6	REDLINE 9	REDLINE 12
Operating power (kW)**	3	6	9	12
Maximum operating power Tri 400 V (A)***	5	9	13	18
Power cable size for tri 400 V (mm ²)****	5 x 2,5		5 x 4	
Maximum operating power Mono 230 V (A)***	14	27	40	
Power cable size for Mono 230 V (mm ²)****	3 x 4	3 x 6	3 x 10	
Min. flow (m ³ /h)	5			
Max. flow (m ³ /h)	30			
Hydraulic connection	PVC Ø 50 ou Ø 63		1/2 PVC Ø 63 + reduction Ø 50	

* Private open-air pool, temperate climate with an isothermal cover from May 15th to September 15th. ** Manufacturing tolerance of + or -5%. *** Tolerance operating voltage +6 -10%. Grid power supply. **** For a maximum length of 20 metres.

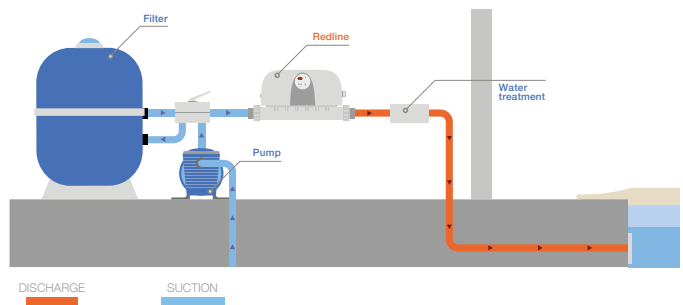
WEIGHT AND DIMENSIONS

Weight (kg) 4



INSTALLATION

- In-line connection with two PVC unions, Ø63, and reducers, Ø63-50.
- Supports any flow direction: just turn the device to match the water flow direction.



ELECTRIC HEATER

RE/L



2 YEAR WARRANTY **<95M³**



EASY INSTALLATION



SERVICES

Ti²²
TITANE INSIDE

MADE IN FRANCE

- + L-shape, space-saving
- + 1 or 3 phase wiring (on-site configuration)
- + Mechanical thermostat

DESCRIPTION

- Control box
- Rotating mechanical 16-40°C thermostat
- Positive safety high temperature limiters
- Watertightness of electrical resistances with an EPDM collar
- Hypalon moulded electric connections
- Flow switch
- Power contactor
- Single or 3 phase wiring (on-site configuration)
- RE/L 3, 6 and 9: simplified single-phase 230V -50/60Hz / three-phase 400V-50/60Hz power (three-phase 230V on request)
- RE/L 12: 400V-50/60Hz only

PRODUCT REFERENCES

Model	RE/L 3	RE/L 6	RE/L 9	RE/L 12
Standard Model	W40LE03	W40LE06	W40LE09	W40LE12

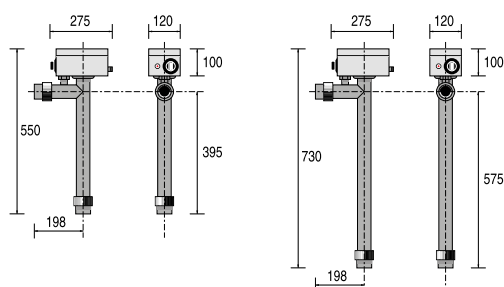
HEATING PERFORMANCE & TECHNICAL FEATURES

Model	RE/L 3	RE/L 6	RE/L 9	RE/L 12
Operating power (kW)**	3	6	9	12
Maximum operating power Tri 400 V (A)***	5	9	13	18
Power cable size for tri 400 V (mm ²)****	5 x 2,5		5 x 4	
Maximum operating power Mono 230 V (A)***	14	27	40	
Power cable size for Mono 230 V (mm ²)****	3 x 4	3 x 6	3 x 10	
Min. flow (m ³ /h)	5			
Max. flow (m ³ /h)	22			
Hydraulic connection	PVC Ø 50 ou Ø 63			

* Private open-air pool, temperate climate with an isothermal cover from May 15th to September 15th. ** Manufacturing tolerance of + or -5%. *** Tolerance operating voltage +6 -10%. Grid power supply. **** For a maximum length of 20 metres.

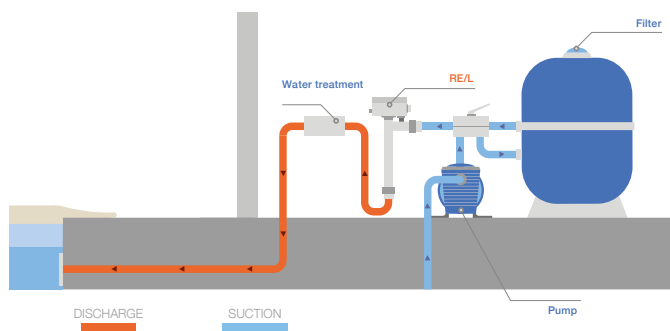
WEIGHT AND DIMENSIONS

Model	RE/L 3	RE/L 6	RE/L 9	RE/L 12
Weight (kg)	4		5	



INSTALLATION

- Shipped with wall-mount bracket.
- Supports any flow direction: just turn the device to match the water flow direction.
- In-line PVC hydraulic connection, Ø50 or 63.



HEAT EXCHANGERS

Heating the pool using the domestic heating


Installed close to the boiler, Zodiac® heat exchangers use the heating circuit in the house to heat the water in the swimming pool.

Very financially advantageous, they are also very efficient and provide a **rapid temperature rise** (1 to 2 days).

> CHOOSING A HEAT EXCHANGER






Several parameters are considered when choosing a heat exchanger. Depending on the size of the pool to be heated, the desired use (temperature and period) and temperature of the primary heating circuit, the appropriate heat exchanger should be selected.

Zodiac® heat exchangers are **compatible with all domestic heating systems**. With more than 17 models, they are suitable for all installations.



REFERENCE POINT
All Zodiac® heat exchangers are fitted with titanium pipes and plates making them very robust.

COMPARATIVE TABLE OF RANGES

	HEAT LINE			URANUS+	
	Unequipped	Plus, without circulating pump	Plus, with circulating pump	Unequipped	Plus
					
Application	All heating types			All heating types	
Power with primary at 90°C	From 20 to 70 kW			From 35 to 240 kW	
Power with primary at 45°C	From 4 to 14 kW			From 13 to 57 kW	
Assembly type	In line without bypass			L with bypass	
Heat exchanger type	Titanium multi-tube			Titanium plates	
Power pack		•	•		•
Flow switch		•	•		•
Regulation		•	•		•
Circulating pump			•		•



EXCHANGERS

Uranus



Unequipped and Plus



Uranus PLUS



Uranus Unequipped

- + Compatible with all types of home heating systems (Heat Pump, Boiler, Geothermal, Solar)
- + High heat exchange
- + Digital regulation

DESCRIPTION

- Appliance completely assembled and wired
- High performance plate exchanger TITANIUM plates
- PRIMARY with adjustable accelerator 2 1/4 turn valves, 1 valve - male thread. Ø 26/34 with Ø 20/22 soldering cartridges
- SECONDARY - PVC Ø 50
- Digital display thermostat
- Flow switch
- Mono 230 V wiring from a mains outlet
- Purge or emptying cap

PRODUCT REFERENCES

Model	URANUS 35	URANUS 70	URANUS 120	URANUS 240
Unequipped	WJ000001	WJ000003	WJ000005	WJ000007
Plus	WJ000002	WJ000004	WJ000006	WJ000008



TECHNICAL FEATURES

Model	URANUS 35	URANUS 70	URANUS 120	URANUS 240	
Max. pressure (pool circuit)	3 bar / 2 bar				
Max. permitted temperature	90 °C / 40°C				
Connections	PRIMARY Heating (Unequipped model)	Ø20/22		Ø26/28	
	SECONDARY Pool	PVC Ø50			
Flow (M ³ /H)	PRIMARY Heating	1,6	2,1	2,8	6,3
	SECONDARY Pool	2	2,9	4,3	8,7
Load Loss (MMCE)	PRIMARY Heating	1500	1200	1000	2000
	SECONDARY Pool	2400	2300	2500	3800

HEATING PERFORMANCE

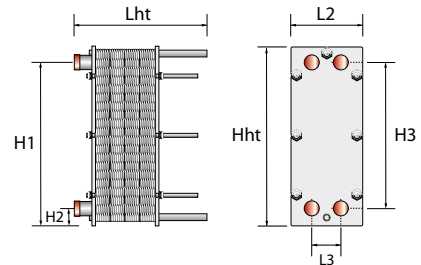
Model	URANUS 35	URANUS 70	URANUS 120	URANUS 240
Power with primary at 90°C (kW)	55	80	120	240
Power with primary at 60°C (kW)	27	38	63	123
Power with primary at 45°C (kW)	15	21	34	68

DIMENSIONS (MM) AND WEIGHT

Model	URANUS 35	URANUS 70	URANUS 120	URANUS 240
Unequipped	14 kg	15 kg	17 kg	31 kg
Plus	29 kg	30 kg	31 kg	50 kg

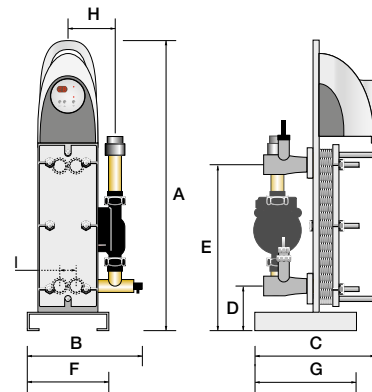
DIMENSIONS (MM) UNEQUIPPED MODEL

Model	URANUS 35-70-120	URANUS 240
Lht	255	407
L2	140	200
L3	50	60
Hht	380	500
H1	339	429
H2	41	75
H3	298	357



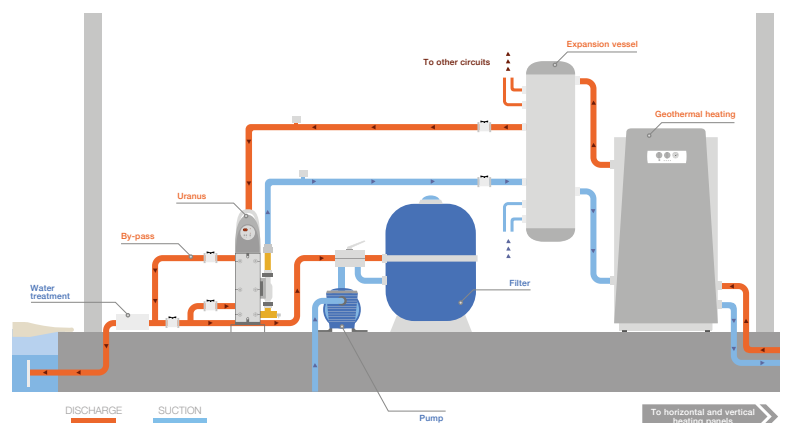
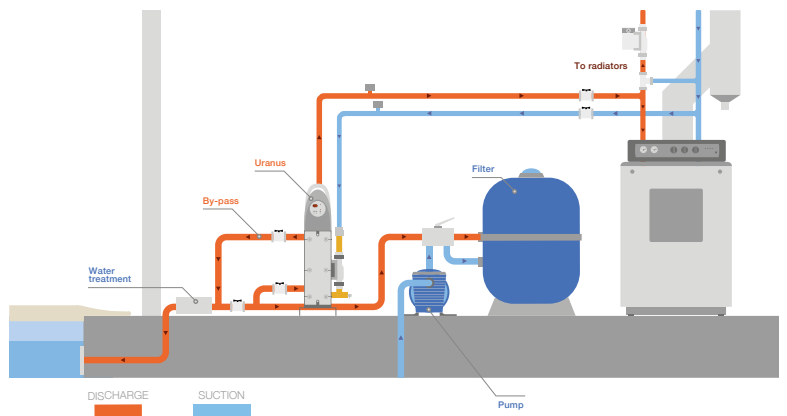
DIMENSIONS (MM) PLUS MODEL

Model	URANUS 35-70-120	URANUS 240
A	758	840
B	334	347
C	415	480
D	116	137
E	414	494
F	250	250
G	200	450
H	127	148
I	50	60



INSTALLATION

- In the technical facility nearby the boiler at the filtering system output (plan a by-pass).
- Single-phase electric power supply 230V
- In special cases: exchanger supplied from a geothermal or heat pump.
- The exchanger must be sized taking into account the heating needs of the pool, the specifications of the exchangers with primary at 45°C or 60°C (see specifications table) and the power of the geothermal. For correct operation of the geothermal we recommend installing a buffer tank as shown in the diagram below.



COMMERCIAL POOLS

HEATING



970 SWIMMING POOL HEATING SOLUTIONS

972 HEAT PUMPS

972 ProHeat II

974 ProHeat II Indoor

976 ELECTRIC HEATERS

978 WATER-WATER EXCHANGERS

978 Waterheat EVO

979 Equipped Waterheat

980 WATER-WATER PLATE HEAT EXCHANGER

980 Etna



982 HEAT PUMPS

982 Z950

984 ELECTRIC HEATERS

984 RE/I

Commercial pool heating solutions

Parameters for choosing a heating system

To define a system suitable for a pool, many parameters need to be considered. The most important parameters (but non-exhaustive) are the ones below:

1. Average outdoor air temperature (°C)
2. Pool water target temperature (in °C)
3. Period of use
4. Pool volume (m³)
5. Presence of an isothermal cover or not
6. Filtration time

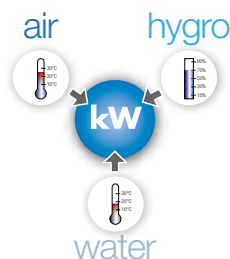
To consider all the parameters which impact the sizing of a heating system, online AstralPool configurators are available:

- For professional use, visit our Profluidra website.
- For public use, visit our simplified configurator on AstralPool website.

The choice of heating equipment also depends on the energy source that will be used.

Understand the concept of performance

To compare the performance of different heat pumps, it is essential to compare restituted power and performance coefficient.



Two main values characterise the performance of heat pumps: their power and their performance coefficient.

- **Power**, expressed in kW, indicates the quantity of heat transferred to the water. It is expressed in specific climatic conditions to which the heat pump is exposed during use:
 - Temperature of the outside air (in °C)
 - Humidity of the outside air (in %)
 - Temperature of the water in the pool (in °C)

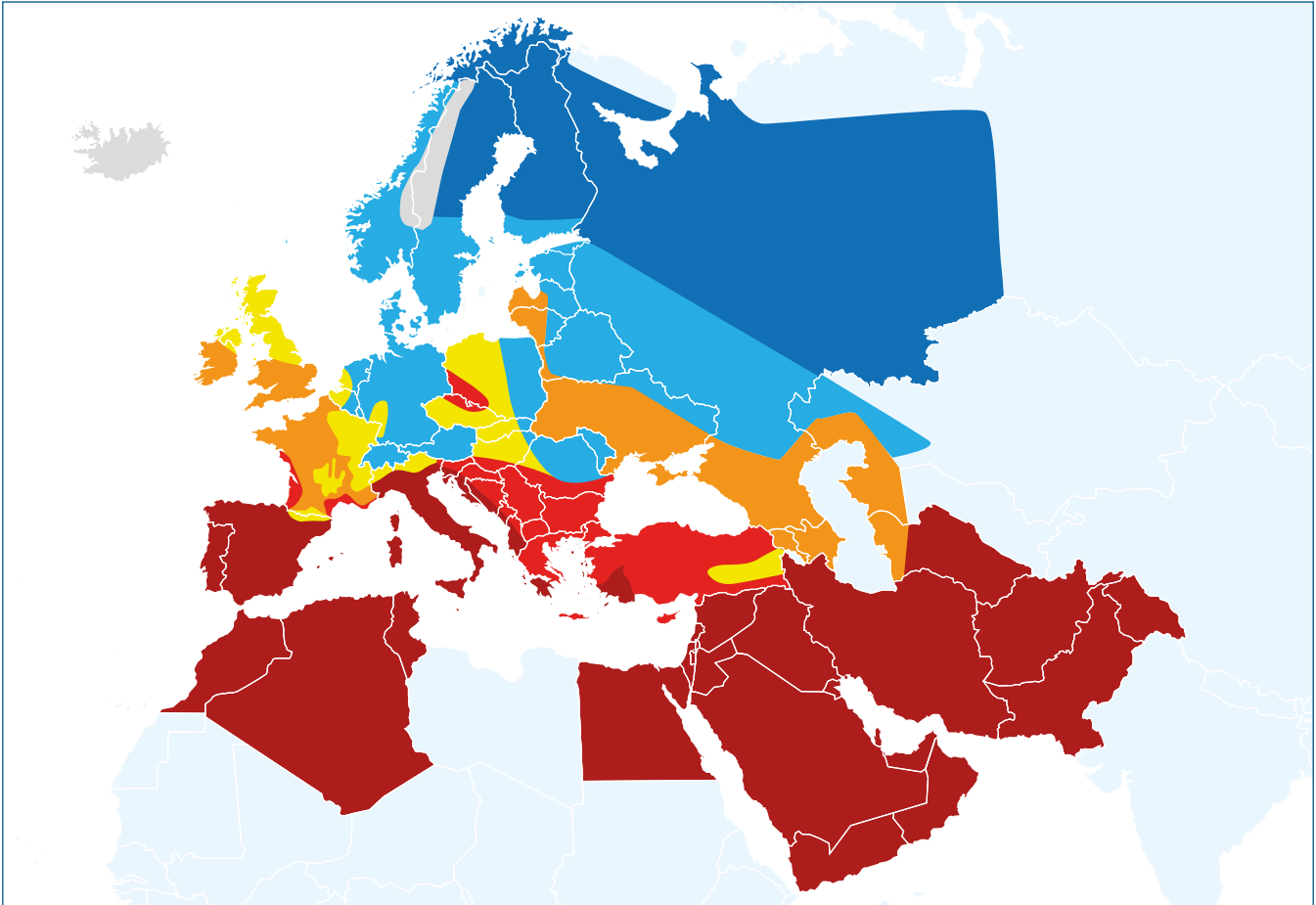
- **The coefficient of performance (COP)** is the ratio between the restituted power and the power consumption of the heat pump. As a result, it is the ratio at specific climatic conditions too.

As an example, a performance coefficient of 5 means that for 1 kWh consumed at the electricity meter, the heat supplies 5 times more energy to the water in the pool, or 5 kWh.

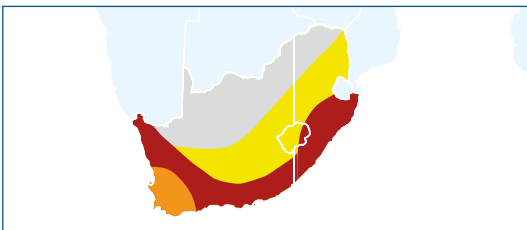
So the higher the performance coefficient, the more efficient the system.



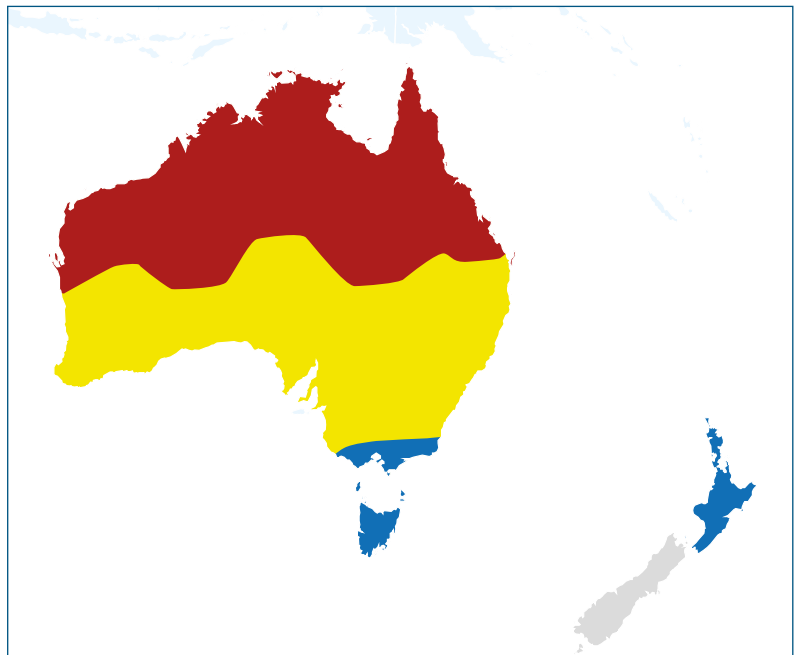
CLIMATE ZONES



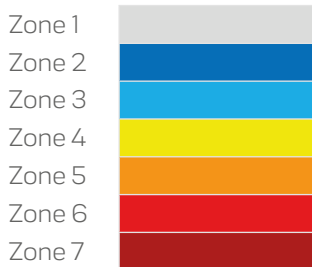
SOUTH AFRICA



AUSTRALIA



Pool location zones



Caribbean Islands, Reunion Island, Canary Islands are part of Zone 7.

ProHeat II



Fluidra Connect compatible


Web

 Heat pump configurator:
www.astralpool.com ->
 Calculation tools

DESCRIPTION

- 0°C minimum outdoor air temperature.
- 2 models: Standard and Chiller.
- Digital display.
- Heating priority mode (filtration pump control).
- Robust, lightweight casing made from corrosion-resistant magnesium coated aluminium.
- Axial ventilator.
- Automatic cooling mode for chiller model.
- Automatic defrosting.
- HP & LP safety pressure switch.
- Water flow switch.
- G2 Titanium water exchanger condensers. Guaranteed against corrosion.
- Scroll compressor.
- Thermostatic expansion valve, with external balancing unit.
- High performance evaporator battery in an inner corrugated copper tube with lacquered aluminium fins, especially for corrosive environments.
- Control of purifying system.
- Automatic electrical protections.

TECHNICAL FEATURES

Model		PROHEAT II 35	PROHEAT II 45	PROHEAT II 60	PROHEAT II 90	PROHEAT II 120
Reference	STANDARD	65542-MOB	65543-MOB	65544-MOB	65545-MOB	65546-MOB
	CHILLER	68245-MOB	68246-MOB	68247-MOB	68248-MOB	68249-MOB
Refrigerant FLUID		R-410A				
Recommended water flow	m ³ /h	12-15	15-25	25-35	30-50	50-70
Hydraulic connection	mm	63		75		
Electric power supply	V/Ph/Hz	400/3/50				
Refrigerant fluid quantity	Kg	4	6	9	2 x 6.5	2 x 9
Number of fans		1			2	
Sound level	dB(A) (d*)	66.2	66.2	72.5	71.1	71.1
	dB(A) (5m)	60.9	60.9	68.4	69.4	69.4

HEATING PERFORMANCE


Standard models		PROHEAT II 35	PROHEAT II 45	PROHEAT II 60	PROHEAT II 90	PROHEAT II 120
AIR 25°C / WATER 26°C						
Heating capacity	(kW)	36.2	44.4	63.5	91.3	125.5
Power consumption	(kW)	6.4	8.2	11.9	17.0	24.3
COP		5.7	5.4	5.3	5.4	5.2
AIR 15°C / WATER 26°C						
Heating capacity	(kW)	30.5	39.7	56.8	80.2	110.5
Power consumption	(kW)	6.2	8.1	11.5	16.8	23.9
COP		4.9	4.9	4.9	4.8	4.6
AIR 5°C / WATER 26°C						
Heating capacity	(kW)	23.2	30.0	41.3	61.0	80.1
Power consumption	(kW)	6.0	7.9	10.7	16.2	22.7
COP		3.9	3.8	3.9	3.8	3.5

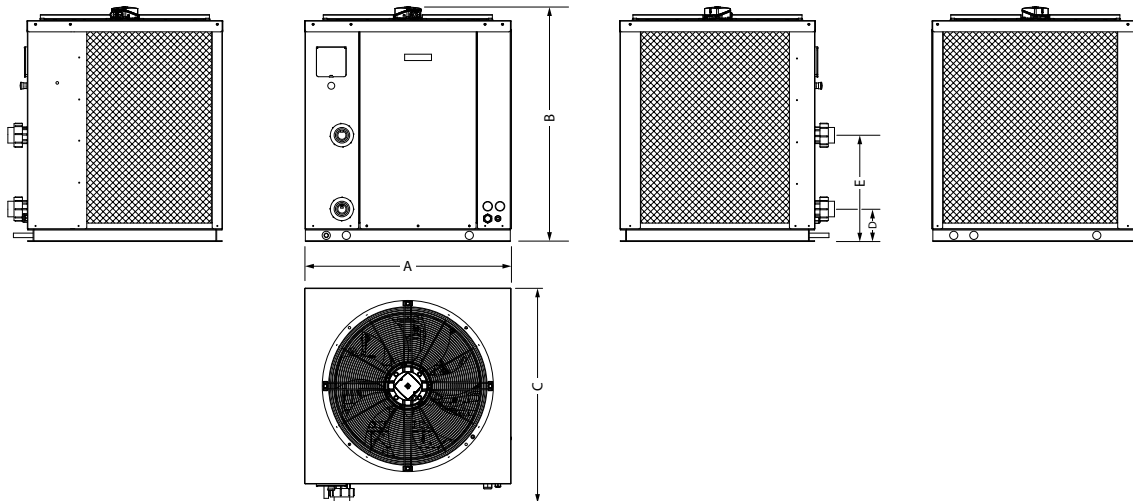
COOLING PERFORMANCE

Chiller models		PROHEAT II 35	PROHEAT II 45	PROHEAT II 60	PROHEAT II 90	PROHEAT II 120
AIR 30°C / WATER 26°C						
Cooling capacity	(kW)	42.3	51.0	72.0	104.0	140.0
Power consumption	(kW)	7.0	8.4	12.0	17.3	24.4
EER		6.0	6.1	6.0	6.0	5.7
AIR 43°C / WATER 32°C						
Cooling capacity	(kW)	29.1	37.0	49.5	74.0	99.0
Power consumption	(kW)	9.4	11.9	15.6	24.5	31.2
EER		3.1	3.1	3.2	3.0	3.2

NOTE: d* = As per UNE-EN 12102/ISO 3744:2010.

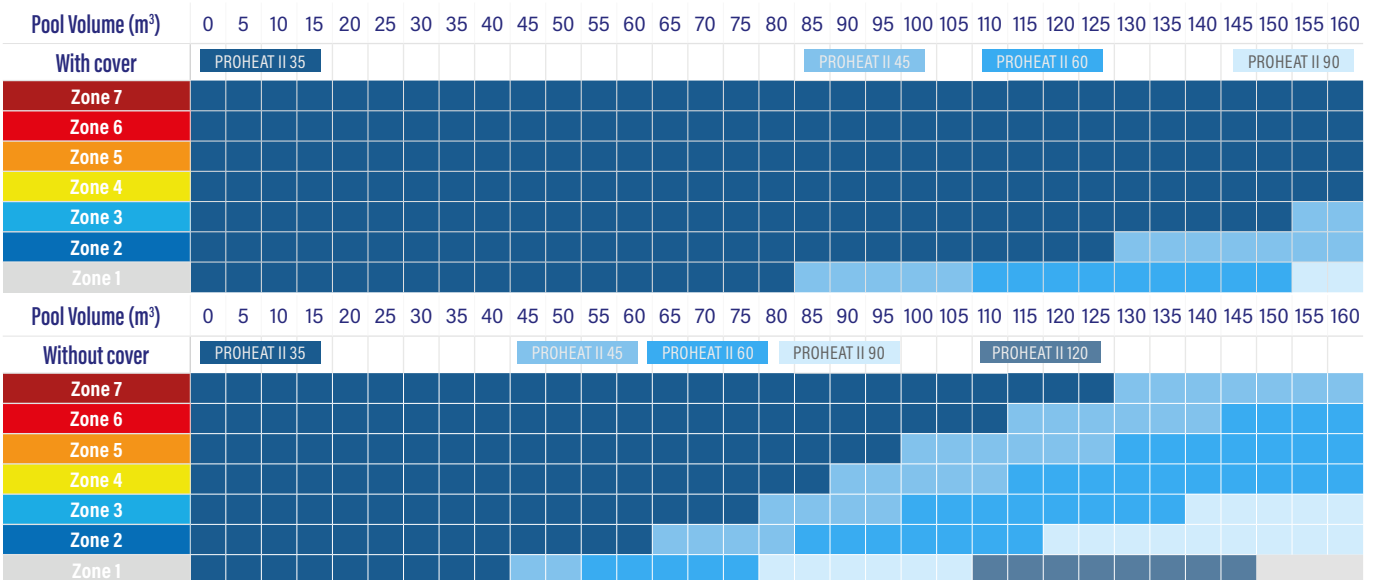
STANDARD AND CHILLER MODELS - WEIGHT AND DIMENSIONS

Model			PROHEAT II 35	PROHEAT II 45	PROHEAT II 60	PROHEAT II 90	PROHEAT II 120
Weight	kg		185	210	287	447	500
Dimensions 	mm	A	1000		1700	2100	2400
		B	950		1200		
		C	1140		1200	1500	1700



CLIMATE ZONES

This table is a sizing help tool. It is given for a private pool, from 15th May to 15th September, depth 1.5m, with a maximum temperature rise time of 4 days to heat the pool from 15°C to 28°C, 14h filtration time. Climatic zones details can be found in the introduction pages of the Heating chapter p. 971 To get a customized sizing, please consult the web configurators:
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 For public use, visit our simplified configurator on www.astralpool.com



ProHeat II Indoor



Fluidra Connect compatible


Web

Heat pump configurator:
www.astralpool.com ->
 Calculation tools

DESCRIPTION

- 0°C minimum outdoor air temperature.
- Digital display, easy-to-use control panel, with display of current temperature, setpoint and alarm messages.
- Heating priority mode (filtration pump control).
- Robust, lightweight casing made from corrosion-resistant magnesium coated aluminium.
- Axial ventilator.
- Automatic cooling mode (chiller model).
- Automatic defrosting.
- HP & LP safety pressure switch.
- Water flow switch.
- G2 Titanium water exchanger condensers. Guaranteed against corrosion.
- Scroll compressor.
- Thermostatic expansion valve, with external balancing unit.
- High performance evaporator battery in an inner corrugated copper tube with lacquered aluminium fins, especially for corrosive environments.
- Control of purifying system.
- Automatic electrical protections.
- Centrifugal fans so the unit will be installed in a technical room, using air ducting.

TECHNICAL FEATURES


Model		PROHEAT II IND-35	PROHEAT II IND-45	PROHEAT II IND-60	PROHEAT II IND-90	PROHEAT II IND-120
Reference		69649-MOB	69650-MOB	69651-MOB	69652-MOB	69653-MOB
Refrigerant FLUID		R-410A				
Recommended water flow	m ³ /h	12-15	15-25	25-35	30-50	50-70
Hydraulic connection	mm	63		75		
Electric power supply	V/Ph/Hz	400/3/50				
Refrigerant fluid quantity	Kg	6	9	12	2 x 7	2 x 9
Number of fans		1			2	
Sound level	dB(A) (d*)	59.2	59.6	60.0	61.1	61.5
	dB(A) (5m)	55.4	55.8	56.1	56.5	56.6

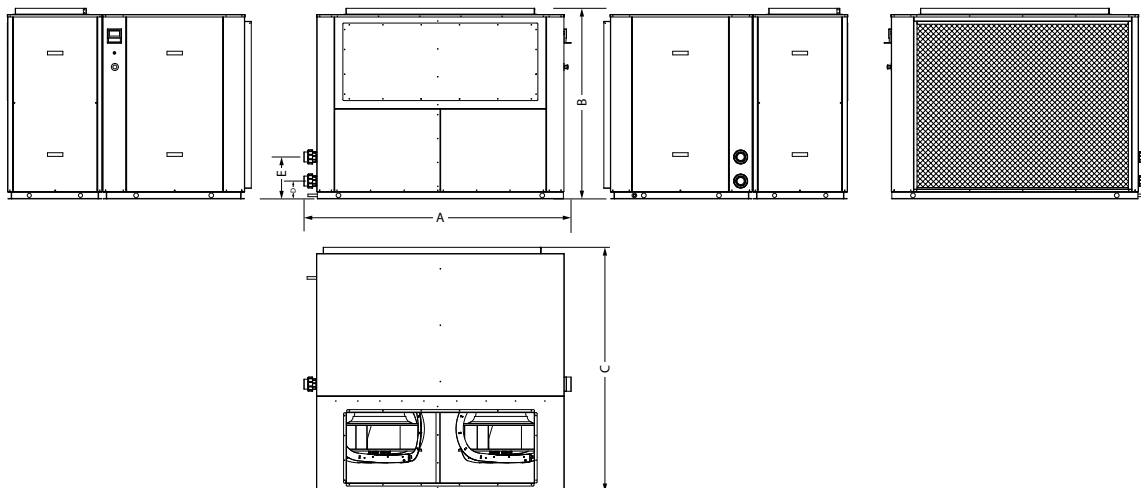
HEATING PERFORMANCE

Model		PROHEAT II IND-35	PROHEAT II IND-45	PROHEAT II IND-60	PROHEAT II IND-90	PROHEAT II IND-120
AIR 25°C / WATER 26°C						
Heating capacity	(kW)	43.6	44.4	63.5	91.3	125.5
Power consumption	(kW)	6.7	9.4	11.8	18.7	23.6
COP		6.5	6.0	6.0	6.0	6.0
AIR 15°C / WATER 26°C						
Heating capacity	(kW)	34.9	45.0	57.5	90.1	114.9
Power consumption	(kW)	6.4	8.6	11.0	17.1	22.1
COP		5.4	5.3	5.2	5.3	5.2
AIR 5°C / WATER 26°C						
Heating capacity	(kW)	27.4	35.2	45.2	70.5	90.3
Power consumption	(kW)	6.5	8.5	11.2	16.9	22.3
COP		4.2	4.2	4.1	4.2	4.1

NOTE: d* = As per UNE-EN 12102/ISO 3744:2010.

STANDARD AND CHILLER MODELS - WEIGHT AND DIMENSIONS

Model			PROHEAT II IND-35	PROHEAT II IND-45	PROHEAT II IND-60	PROHEAT II IND-90	PROHEAT II IND-120
Weight	kg		315	391	437	648	757
Dimensions 	mm	A	1610	1910		1922+50	2400-100
		B	1160+100	1197+100		2110+100	2024+50
		C	1347+50	1497+50		1590+50	1670+50



CLIMATE ZONES

This table is a sizing help tool. It is given for a private pool, from 15th May to 15th September, depth 1.5m, with a maximum temperature rise time of 4 days to heat the pool from 15°C to 28°C, 14h filtration time. Climatic zones details can be found in the introduction pages of the Heating chapter p. 971 To get a customized sizing, please consult the web configurators:
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Pool Volume (m ³)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160			
With cover	PROHEAT 2 35																				PROHEAT 2 45					PROHEAT 2 60					PROHEAT 2 90					
Zone 7	[Blue grid]																																			
Zone 6	[Red grid]																																			
Zone 5	[Orange grid]																																			
Zone 4	[Yellow grid]																																			
Zone 3	[Light blue grid]																																			
Zone 2	[Dark blue grid]																																			
Zone 1	[Lightest blue grid]																																			
Without cover	PROHEAT 2 35					PROHEAT 2 45					PROHEAT 2 60					PROHEAT 2 90					PROHEAT 2 120															
Zone 7	[Blue grid]																																			
Zone 6	[Red grid]																																			
Zone 5	[Orange grid]																																			
Zone 4	[Yellow grid]																																			
Zone 3	[Light blue grid]																																			
Zone 2	[Dark blue grid]																																			
Zone 1	[Lightest blue grid]																																			

Commercial electric heat

(incoloy version)



DESCRIPTION

Commercial electric heat is suitable to heat the water temperature from small to large collective pools.

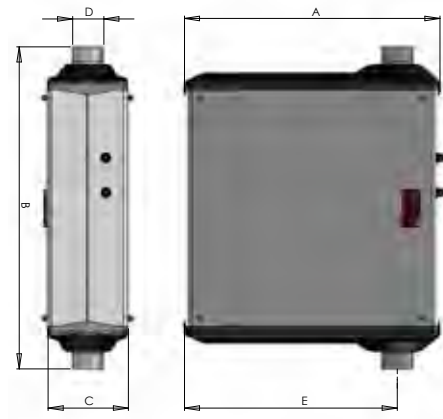
- Positive safety high temperature limiter (60°C).
- Digital display.
- Flow switch.
- Power contactors.
- Temperature control thermostat from 0 to 40°C.
- Precision thermostat: 0.1°C.

TECHNICAL FEATURES

Model		Electric heat 24	Electric heat 30	Electric heat 36	Electric heat 42	Electric heat 48	Electric heat 54	Electric heat 60	Electric heat 72	Electric heat 84	Electric heat 96	Electric heat 108	
Reference		51845	51846	51847	44741	44742	44743	44744	44745	44746	44747	44748	
Power 90°C	kW	24	30	36	42	48	54	60	72	84	96	108	
Electrical supply	V/Ph/Hz	400V/50Hz/3Ph											
Min. water flow rate	m³/h	15											
Max. water flow rate	m³/h	30											
Service pressure		2											
Max. pressure	Kg	3											
Hydraulic water connection	dB (A)	50									65		
Max. absorbed intensity	Units	36	45	54	65	74	82	91	109	127	146	165	

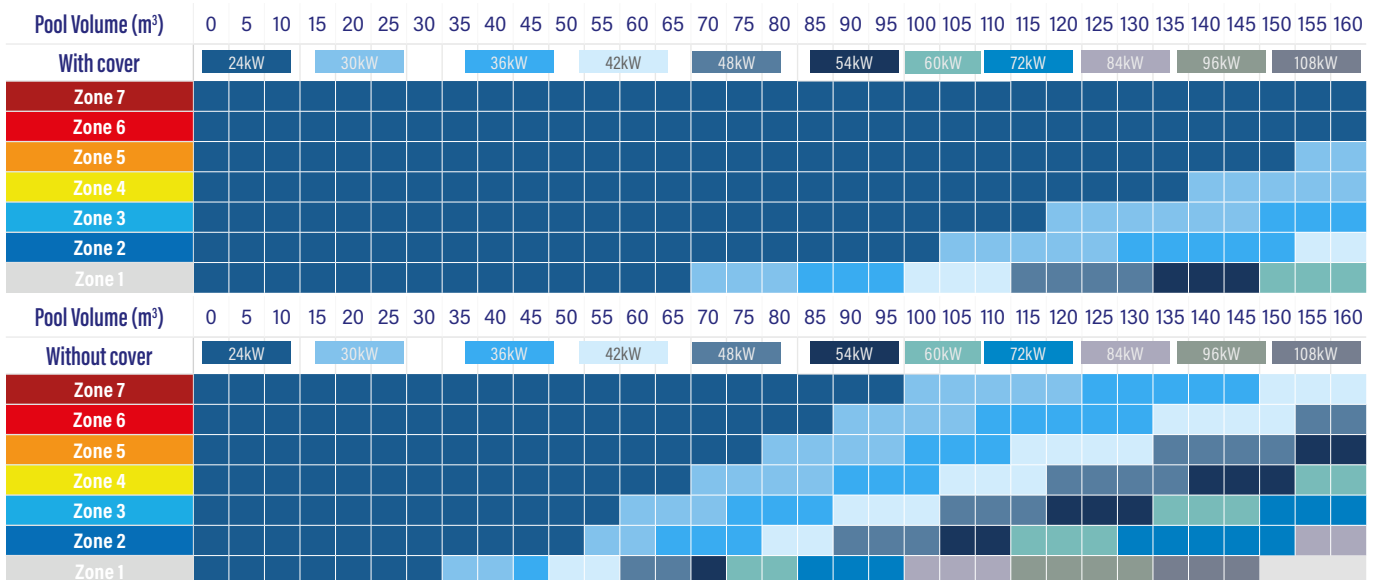
DIMENSIONS AND WEIGHT

Model		Electric heat 24	Electric heat 30	Electric heat 36	Electric heat 42	Electric heat 48	Electric heat 54	Electric heat 60	Electric heat 72	Electric heat 84	Electric heat 96	Electric heat 108
Dimensions	A (mm)	510										
	B (mm)	640										
	C (mm)	160										
	D (mm)	2"										
	E (mm)	435										
Gross weight	kg	24	26	28	32	34	36	38	44	46	48	50
Net weight	kg	18	20	22	26	28	30	32	36	38	40	42



CLIMATE ZONES

This table is a sizing help tool. It is given for a private pool, from 15th May to 15th September, depth 1.5m, with a maximum temperature rise time of 4 days to heat the pool from 15°C to 28°C, 14h filtration time. Climatic zones details can be found in the introduction pages of the Heating chapter p. 971 To get a customized sizing, please consult the web configurators:
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Waterheat EVO



DESCRIPTION

Heat exchanger suitable for warming the water temperature of pools and SPAS, thanks to the heat exchange between the primary circuit (warm area) and a secondary one (cold area that we want to warm).

- Titanium housing (secondary, pool water).
- Titanium coil (primary, water for boiler).
- Primary working pressure of 10 bar.
- Secondary working pressure of 3 bar.

PRODUCT REFERENCES

Model	TIT-20 kW	TIT-40 kW	TIT-60 kW	TIT-105 kW	TIT-140 kW	TIT-210 kW	TIT-300 kW	TIT-450 kW
Reference	71607	71608	71609	71610	71611	71612	71613	71614


TECHNICAL FEATURES

Model		TIT-20 kW	TIT-40 kW	TIT-60 kW	TIT-105 kW	TIT-140 kW	TIT-210 kW	TIT-300 kW	TIT-450 kW
Power	90°C	20	40	60	105	140	210	300	450
	60°C	10	20	30	40	60	80	120	210
	45°C	5	10	15	20	3	40	60	100

HEATING PERFORMANCE

Model		TIT-20 kW	TIT-40 kW	TIT-60 kW	TIT-105 kW	TIT-140 kW	TIT-210 kW	TIT-300 kW	TIT-450 kW
Heater	m ³ /h	1.6	2.7	3.1	6.6	7.0	10.0	11.0	16.0
Heater load loss	bar	0.006	0.024	0.040	0.030	0.040	0.122	0.214	0.470
Heater connection	Inch	G ¾"			G 1½"				
Pool volume	m ³ /h	11	15	20	23	20	25	20	21
Pool head loss	bar	0.119	0.192	0.418	0.293	0.316	0.633	0.596	0.860
Pool connection	Inch	G 1"			G 1½"				

DIMENSIONS AND WEIGHT

Model		TIT-20 kW	TIT-40 kW	TIT-60 kW	TIT-105 kW	TIT-140 kW	TIT-210 kW	TIT-300 kW	TIT-450 kW
Dimensions	 A (mm)	122			140				
	B (mm)	75	175	225	170	270	420	670	920
	C (mm)	290	390	440	357	457	607	857	1107
	ØDz	80			102				
Weight	kg	1.2	1.7	1.9	2.2	2.7	3.8	5.3	6.8

Consult your service engineer about the right selection of unit depending on your installation.
 Figures for power settings calculated for pool water at 20°C.

Diagram of assembly below the water level:

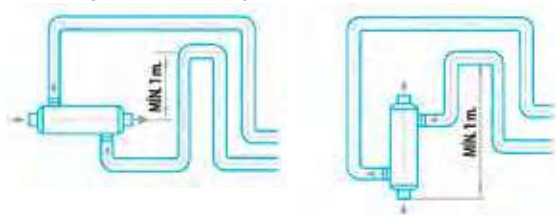
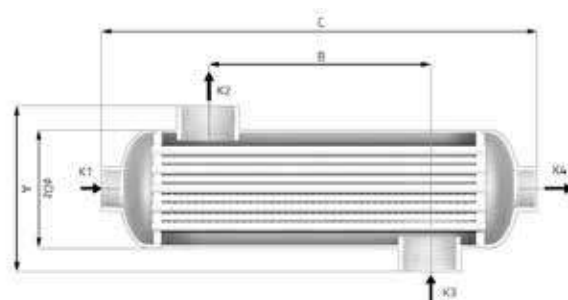
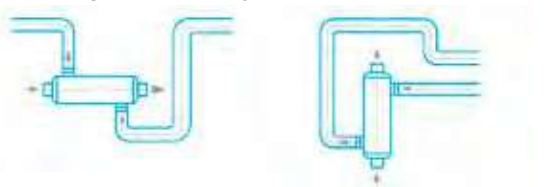


Diagram of assembly below the water level:



Equipped Waterheat



DESCRIPTION

Heat exchanger suitable for warming the water temperature of pools and SPAS, thanks to the heat exchange between the primary circuit (warm area) and a secondary one (cold area that we want to warm).

- Regulator with secondary pump control, voltage free contact and timer.
- Casing built in Alucoil and ABS plastic.
- Body made in Titanium (secondary, water from pool).
- Coils made in titanium alloy (primary, water from boiler).
- Fully fitted, anti-return valve, primary recirculation pump and control thermostat with immersion probe.
- Primary work pressure 10 bars and secondary work pressure 3 bars.

CONNECTIONS:

- Primary (heating): 1".
- Secondary (pool): D-50 three piece link.

PRODUCT REFERENCES

Model	TIT-20 kW	TIT-40 kW	TIT-60 kW
Reference	43506	43507	43508


TECHNICAL FEATURES

Model		TIT-20 kW	TIT-40 kW	TIT-60 kW
Power	90°C	20	40	60
	60°C	10	20	30
	45°C	5	10	15

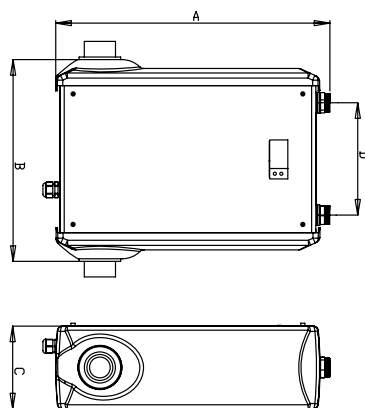
HEATING PERFORMANCE

Model		TIT-20 kW	TIT-40 kW	TIT-60 kW
Heater	m³/h	1.6	2.7	3.0
Heater load loss	bar	0.12	0.41	0.70
Heater connection	Inch	-	-	-
Pool volume	m³/h	10	15	20
Pool head loss	bar	0.14	0.24	0.29
Pool connection	Inch	-	-	-

DIMENSIONS AND WEIGHT

Model		TIT-20 kW	TIT-40 kW	TIT-60 kW
Dimensions 	A (mm)	530	530	530
	B (mm)	450	590	650
	C (mm)	160	160	160
	D (mm)	215	225	305
	E (mm)	1"	1"	1"
Weight	kg	10	11	18

Consult your service engineer about the right selection of unit depending on your installation.
 Figures for power settings calculated for pool water at 20°C.



Etna



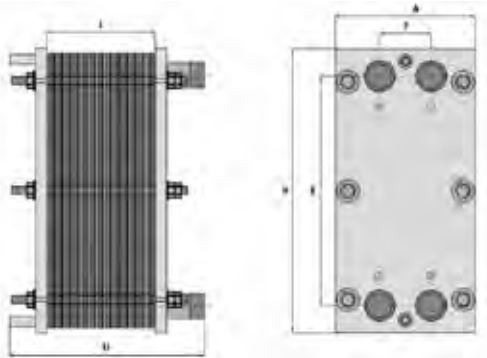
Basic model

- Corrugated plates in AISI-316 or titanium.
- EPDM gaskets.
- Housing in epoxy painted carbon steel.
- In non-equipped heat exchangers, AISI-316 stainless steel connections in ISO G2 direct thread.
- In equipped heat exchangers, primary connections in copper, and secondary in PVC.
- In equipped heat exchangers, full regulation, with control of the filtering pump. Double display (setpoint and current reading).
- Simple recirculating pump in the primary circuit is optional.

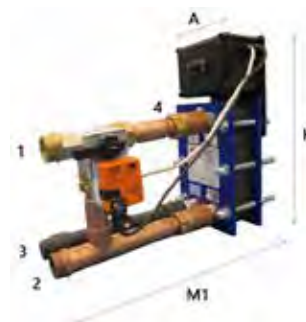


Equipped model

ETNA 15 - ETNA 200

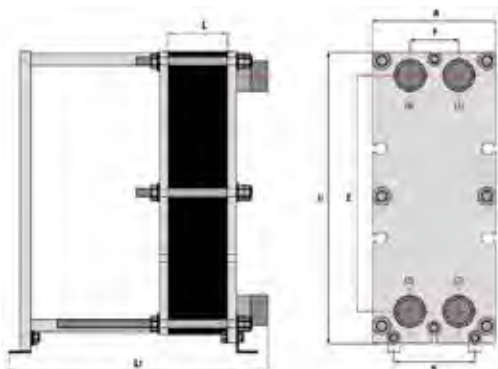


ETNA EQUIPPED

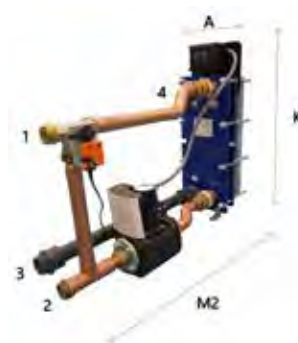


Equipped model + recirculating pump

ETNA 250 - ETNA 580



ETNA EQUIPPED + PUMP



- 1 – Primary, inlet.
- 2 – Primary, outlet.
- 3 – Secondary, inlet.
- 4 – Secondary, outlet.

PRODUCT REFERENCES

Model	AISI-316 codes			Titanium codes		
	Basic model	Equipped model	Model Eq+B ⁽¹⁾	Basic model	Equipped model	Model Eq+B ⁽¹⁾
	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
ETNA-15	67985	68230	68021	67994	68012	68030
ETNA-35	68223	68004	68022	67995	68013	68031
ETNA-50	68224	68005	68023	67996	68014	68032
ETNA-60	68225	68006	68024	67997	68015	68033
ETNA-90	67989	68007	68025	67998	68016	68034
ETNA-120	67990	68008	68026	68226	68017	68035
ETNA-150	67991	68009	68027	68227	68018	68036
ETNA-180	67992	68010	68028	68228	68019	68037
ETNA-200	67993	68011	68029	68229	68020	68038
ETNA-250	32550	32563	32576	33137	33155	33173
ETNA-300	32552	32565	32578	33139	33157	33175
ETNA-350	32553	32566	32579	33140	33158	33176
ETNA-400	33114	33119	33124	33141	33159	33177
ETNA-460	33115	33120	33125	69796	33160	33178
ETNA-500	32554	32567	32580	69797	33161	33179
ETNA-580	33116	33121	33126	69798	33162	33180

(1) Eq + B: Equipped model + recirculating pump.

TECHNICAL FEATURES

Model	Code		Power		Num. Plates	Primary circuit			Secondary circuit			Dimensions (mm)					
	AISI-316	Titanium	KW	(kcal/h)		Flow rate (m³/h)	Head loss (bar)	Connections	Flow rate (m³/h)	Head loss (bar)	Connections	H	A	E	F	Lt	L
ETNA-15	67985	67994	17	15,000	5	0.75	0.3	11/4"	0.74	0.3	11/4"	320	200	235	69	220	16.5
ETNA-35	68223	67995	40	35,000	7	1.55	0.3	11/4"	1.52	0.3	11/4"	320	200	241	69	220	23.1
ETNA-50	68224	67996	58	50,000	9	2.56	0.3	11/4"	2.51	0.3	11/4"	320	200	235	69	220	29.7
ETNA-60	68225	67997	70	60,000	11	3.09	0.3	11/4"	3.03	0.3	11/4"	320	200	235	69	220	36.3
ETNA-90	67989	67998	105	90,000	15	4.64	0.3	11/4"	4.55	0.3	11/4"	320	200	235	69	220	49.5
ETNA-120	67990	68226	140	120,000	19	6.19	0.3	11/4"	6.07	0.3	11/4"	320	200	235	69	220	62.7
ETNA-150	67991	68227	174.4	150,000	23	7.71	0.3	11/4"	7.56	0.3	11/4"	320	200	235	69	220	75.9
ETNA-180	67992	68228	209	180,000	29	9.23	0.3	11/4"	9.06	0.3	11/4"	320	200	235	69	220	95.7
ETNA-200	67993	68229	233	200,000	31	10.3	0.3	11/4"	10.1	0.3	11/4"	320	200	235	69	220	102.3
ETNA-250	32550	33137	291	250,000	15	12.86	0.3	2 1/2"	12.61	0.3	2 1/2"	745	310	603	124	630	49.5
ETNA-300	32552	33139	349	300,000	17	15.42	0.3	2 1/2"	15.13	0.3	2 1/2"	745	310	603	124	630	56.1
ETNA-350	32553	33140	407	350,000	21	17.98	0.3	2 1/2"	17.64	0.3	2 1/2"	745	310	603	124	630	69.3
ETNA-400	33114	33141	465	400,000	23	20.55	0.3	2 1/2"	20.13	0.3	2 1/2"	745	310	603	124	630	75.9
ETNA-460	33115	69796	535	460,000	27	23.64	0.3	2 1/2"	23.19	0.3	2 1/2"	745	310	603	124	630	89.1
ETNA-500	32554	69797	581	500,000	29	25.67	0.3	2 1/2"	25.18	0.3	2 1/2"	745	310	603	124	630	95.7
ETNA-580	33116	69798	675	580,000	33	29.83	0.3	2 1/2"	29.26	0.3	2 1/2"	745	310	603	124	630	108.9

TECHNICAL FEATURES

Model	Code		Code		Power		Num. Plates	Dimensions (mm)				Weight
	AISI-316	Titanium	AISI-316	Titanium	KW	(kcal/h)		A	M1	M2	K	kg
ETNA-15	68230	68012	68021	68030	17	15.000	5	200	659	1148	470	38 + 4,5
ETNA-35	68004	68013	68022	68031	40	35.000	7	200	659	1148	470	38 + 4,5
ETNA-50	68005	68014	68023	68032	58	50.000	9	200	659	1148	470	39 + 9
ETNA-60	68006	68015	68024	68033	70	60.000	11	200	659	1148	470	39 + 9
ETNA-90	68007	68016	68025	68034	105	90.000	15	200	659	1148	470	40 + 9
ETNA-120	68008	68017	68026	68035	140	120.000	19	200	659	1148	470	41 + 15
ETNA-150	68009	68018	68027	68036	174,4	150.000	23	200	659	1148	470	42 + 15
ETNA-180	68010	68019	68028	68037	209	180.000	29	200	659	1148	470	43 + 15
ETNA-200	68011	68020	68029	68038	233	200.000	31	200	659	1148	470	44 + 15
ETNA-250	32563	33155	32576	33173	291	250.000	15	310	1070	1558	905	128 + 17
ETNA-300	32565	33157	32578	33175	349	300.000	17	310	1070	1558	905	129 + 17
ETNA-350	32566	33158	32579	33176	407	350.000	21	310	1070	1558	905	133 + 20
ETNA-400	33119	33159	33124	33177	465	400.000	23	310	1070	1558	905	134 + 20
ETNA-460	33120	33160	33125	33178	535	460.000	27	310	1070	1558	905	138 + 22
ETNA-500	32567	33161	32580	33179	581	500.000	29	310	1070	1558	905	139 + 22
ETNA-580	33121	33162	33126	33180	675	580.000	33	310	1070	1558	905	143 + 24

HEAT PUMPS

Z950



- + Vertical blowing
- + Aluminum body
- + Year-round operation down to -12°C

DESCRIPTION

- Vertical blowing
- Anodized aluminum body
- LCD display, detachable
- Fluidra Connect compatible (automation and wi-fi control, with optional Connect Box)
- Heating priority mode (filtration pump control)
- Possible On-off control through remote switch or home automation system
- Emergency stop
- Automatic cooling mode
- Automatic defrosting (cycle inversion)
- Anti-freeze thermostat
- HP & LP safety pressure switch
- Water flow switch
- Titanium water exchanger, compatible with salt water treatment
- On-off compressor, scroll
- Thermostatic expansion valve



2 YEAR
WARRANTY

5 YEAR
CONDENSER
WARRANTY
ANTI-CORROSION



ACCESSORIES INCLUDED IN THE PACK

- Condensate drain kit
- PVC and gaskets, unions, Ø 63 or 75
- Anti-vibration pads

OPTIONAL ACCESSORIES

Cleaning kit HP - WMA03491

TECHNICAL FEATURES

Model	Z950 35	Z950 45	Z950 60	Z950 90	Z950 120
Standard Model	WH000456	WH000458	WH000460	WH000462	WH000464
Recommended water flow (m³/h)	13	20	30	42	60
Hydraulic connection	PVC unions, ø63 , glued		PVC unions, ø75 , glued		
Electric power supply	380-400V / 3N~ / 50Hz				
Recommended Power cable size*	5 x 4	5 x 6	5 x 10	5 x 16	5 x 25
Refrigerant fluid	R410A				
Refrigerant fluid quantity (kg)	6	7,5	9	18 (2x9)	22 (2x11)
Acoustic power	83		90		
Acoustic pressure at 10m (dB(A)**)	52		58		

HEATING PERFORMANCE

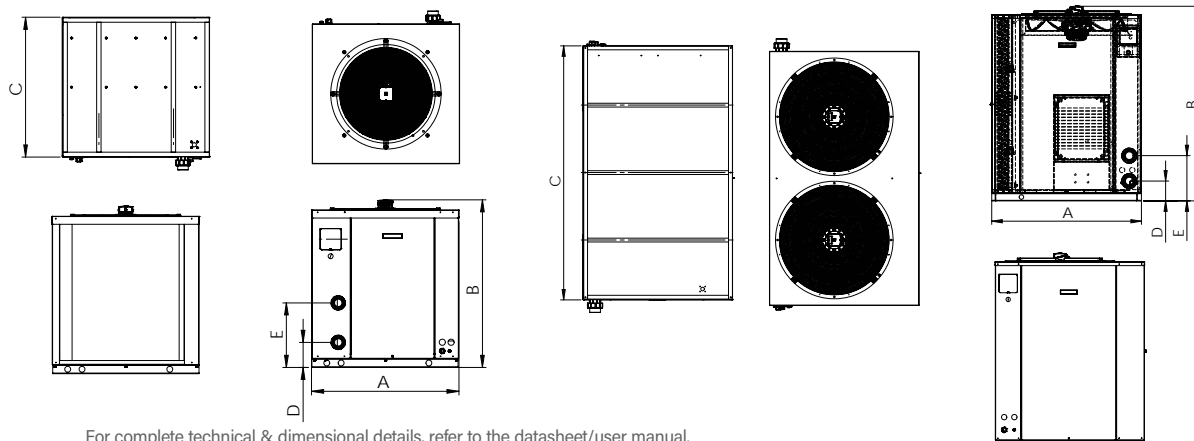
Model	Z950 35	Z950 45	Z950 60	Z950 90	Z950 120
AIR 28°C / WATER 28°C / HUMID. 80%					
Operating power (kW)	39,5	48	68	98	133
Consumed power (kW)	6,93	8,53	12,25	17,6	24,97
COP	5,7	5,6	5,5	5,6	5,3
AIR 15°C / WATER 26°C / HUMID. 70%					
Operating power (kW)	30	40	57	80	110
Consumed power (kW)	6,2	8,1	11,5	16,8	23,9
COP		4,9		4,8	4,6

*Cable not provided. Recommended section for a maximum length of 20 meters.

**According to EN60704-1:2010+A11:2012 standard

WEIGHT AND DIMENSIONS

Model	Z950 35	Z950 45	Z950 60	Z950 90	Z950 120
Weight (kg)	185	210	287	447	500
A	1008			1178	1213
B	1146		1192	1532	1652
C	956		1600	2000	2358
D			165		
E	441	359	489	356	489



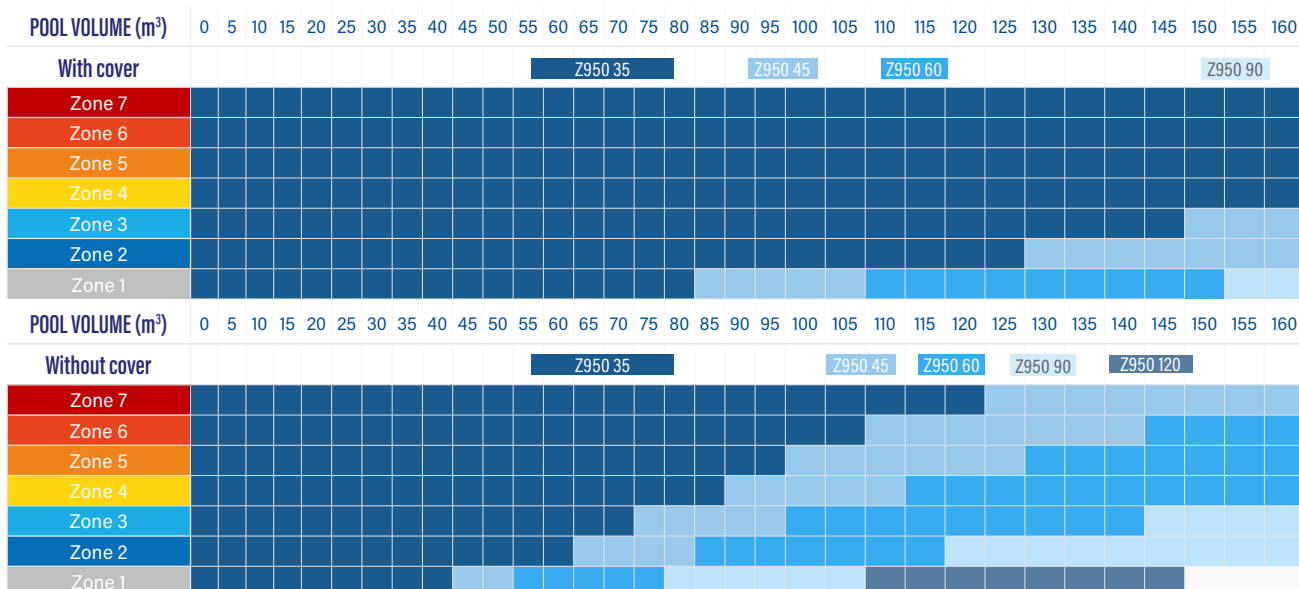
For complete technical & dimensional details, refer to the datasheet/user manual.

CLIMATE ZONES

PARAMETERS OF THE QUICK SELECTION GUIDE

This quick selection guide has been configured with the following parameters: private pool, for a use from beginning of may to end of september, average depth 1.5m, 14h filtration time, target pool water temperature 28°C.

This table is a sizing help tool. It is given for a private pool, from 15th May to 15th September, depth 1.5m, with a maximum temperature rise time of 4 days to heat the pool from 15°C to 28°C, 14h filtration time. Climatic zones details can be found in the introduction pages of the Heating chapter p. 971 To get a customized sizing, please consult BILPI configurator: <https://pro.zodiac-poolcare.com/bilpi>



ELECTRIC HEATER

RE/I



- + Full digital regulation
- + 2-stage power management
- + Maximum robustness

DESCRIPTION

- Control box with precision thermostat $\pm 0.5^{\circ}\text{C}$
 - Digital display and timer
 - Positive safety high temperature limiters
 - Watertightness of electrical resistances with an EPDM collar
 - HYPALON electric connection
 - Flow switch
 - Power contactors
 - Luminous control switches
- U format allowing an easy assembly and water retention
- Factory installed power modulation (2 manual stages)
- Three-phase wiring 400V-50/60Hz only

2 YEAR
WARRANTY

EASY
INSTALLATION

SERVICES
+

Ti²²
TITANE
INSIDE

MADE IN
FRANCE

PRODUCT REFERENCES

Model	RE/I 30T	RE/I 36T	RE/I 42T	RE/I 48T	RE/I 60T	RE/I 84T	RE/I 96T	RE/I 120T
Standard Model	W40TIT30	W40TIT36	W40TIT42	W40TIT48	W40TIT60	W40TIT84	W40TIT96	W40TIT120

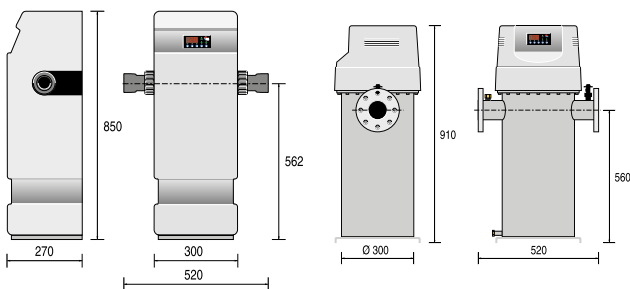
HEATING PERFORMANCE & TECHNICAL FEATURES

Model	RE/I 30T	RE/I 36T	RE/I 42T	RE/I 48T	RE/I 60T	RE/I 84T	RE/I 96T	RE/I 120T
Voltage	400 V / 3N / 50 Hz							
Operating power (kW)*	12+18	12+24	18+24	24+24	24+36	36+48	48+48	60+60
Absorbed intensity (A)**	44	52	61	70	87	122	139	174
Water flow (m ³ /h)	20 to 30				30 to 50			
Hydraulic connection	PVC half-unions, \varnothing 63, glued				2 flanges, DN 80, with glued PVC fitting, \varnothing 90			

* Tolerance operating voltage +6 -10%. Grid power supply. ** Manufacturing tolerance of + or -5%.

WEIGHT AND DIMENSIONS

Model	RE/I 30T	RE/I 36T	RE/I 42T	RE/I 48T
Weight (kg)	30	30	33	33
Model	RE/I 60T	RE/I 84T	RE/I 96T	RE/I 120T
Weight (kg)	49	51	53	58



RE/I medium power (RE/I 30 to 48)

RE/I high power (RE/I 60 to 120)

INSTALLATION

- In-line hydraulic connection with two PVC unions, \varnothing 63 (RE/I 30 à 48), or two flanges, DN80 (RE/I 60 à 120).
- Supports any flow direction: just turn the flow switch and reverse the control and safety sensors.
- Plan on installing a by-pass if the filter pump flow is greater than 50m³

