

# HEATING COOLING



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# POOL HEATING

## SWIMMING POOL HEATING SOLUTIONS<sup>1</sup>

Different heating solutions

### To inform

"Protecting the pool with an isothermal cover reduces the power requirement for heating by half!"

"In conclusion, if 12kW is required to heat a pool without an isothermal blanket, then 6kW is sufficient to heat the same pool with an isothermal blanket."

"Using the heat pump on the hottest days will allow it to maximize its performance (and thus minimize electricity consumption). Heating your pool on hot, sunny days and covering it with an isothermal blanket at night is the best solution!"

"Covering the pool with an isothermal blanket at night (or when the outside air temperature is lower) will slow down the drop in pool temperature."

### > HEATER SELECTION CRITERIA

Many parameters need to be considered in defining a suitable system for a pool. The most important parameters (but not exhaustive) are as follows:

1. Average air temperature (°C)
  2. Desired pool water temperature 1 (°C)
  3. Usage period
  4. Pool volume (m<sup>3</sup>)
  5. Use or non-use of an isothermal blanket
- Online Zodiac configurators are available to take into account all the parameters that affect the sizing of a heating system:




Visit our website designed for pool professionals: <https://pro.zodiac-poolcare.com/>

"For general use, visit our Zodiac website with a simplified and user-friendly interface: <https://www.zodiac-poolcare.co.uk/> Maximum comfort at a lower cost."

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



### COMPARISON TABLE

	Heat Pumps	Electric Heaters	Heat exchangers
			
<b>Solution</b>	Ba 1ms1z, private use of the pool	Ba 1ms1z, private use of the pool	The house is connected to the heating source.
<b>Energy usage</b>	Electric	Electric	The house's heating source is natural gas, fuel oil, renewable energy, etc.)
<b>Cost of consumption</b>	~*	~	~ ila ~**
<b>Investment cost</b>	~	-	-
<b>Advantages</b>	Economic Productive	Easy assembly	Compatible with all heating systems.
<b>Areas of use</b>	All outdoor or indoor pools	Spas, homes and summer houses	Open or closed near the boiler. in pools

\* The heat pump is a highly efficient solution that, thanks to its thermodynamic system, returns much more than it consumes.

\*\* The operating cost will depend on the heating source. If it is renewable (e.g., solar energy), it will be very low. However, with gas, oil, or electric heating sources, operating costs will be higher.

# HEAT PUMPS

## Economic and ecological solution

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

### HOW DOES IT WORK?

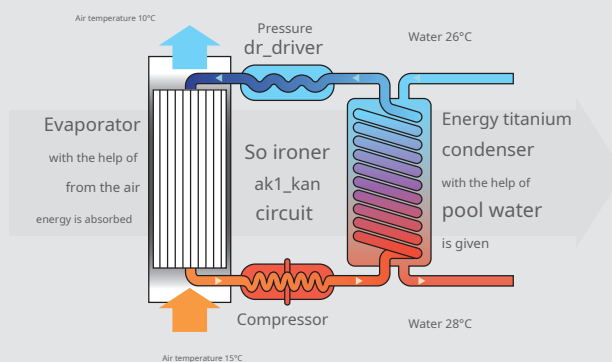
The heat pump is a thermodynamic system. Its working principle is quite simple: The system transfers the calories it takes from the air directly into the pool water.



Air temperature 10°C

80% of energy is obtained from the air.

The remaining 20% is obtained from electrical energy.



The pump obtains its energy from the air.

The pump takes this energy and transfers it to the water through thermodynamic heat transfer.

heat pumps can be easily installed in newly constructed or existing pools with the help of simple electrical and water installation.



## ENVIRONMENTAL STANDARD (EN 17645)

In September 2022, a new Standard was published: EN 17645. It concerns open pools (underground and above-ground pools) intended for permanent application (as defined in EN 16582).

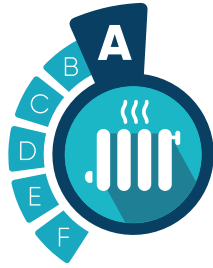
Bu standardın ana hedefleri, konut tipi yüzme havuzları için kullanılan ilkin çevresel de erlendirmeyi a a 1daki yollarla sa lamaktır: " Eysel yüzme havuzları için çevresel performansları ele almak,

" Ürünlerin verimliliği artırılmak ve enerji açışından verimli ve çevre dostu ürünlerin geli tirilmesini te vik etmek, " Enerji tasarrufu açışından iyi uygulamaları te vik etmek.

### > ISI POMPALARINA ETKİSİ NEDİR ?

" heat pompasının performansları SCOP (Mevsimsel Katsayı Performansı) hesaplamasına dayanmaktadır. Piyasadaki tüm ısı pompalarının aynı koşullar altında karşılaştırılmasına imkan veren A'dan F'ye kadar bir sınıfa karşılık gelir.

" <A=, ısı pompasının çok iyi bir verime sahip olduğu, <F= ise çok daha düşük bir verime sahip olduğu anlamına gelir.



## R290 Environment Friendly (PROPAN)

" GWP R290 = 3

" GWP R32 = 675



### > SCOP NASIL HESAPLANIR?

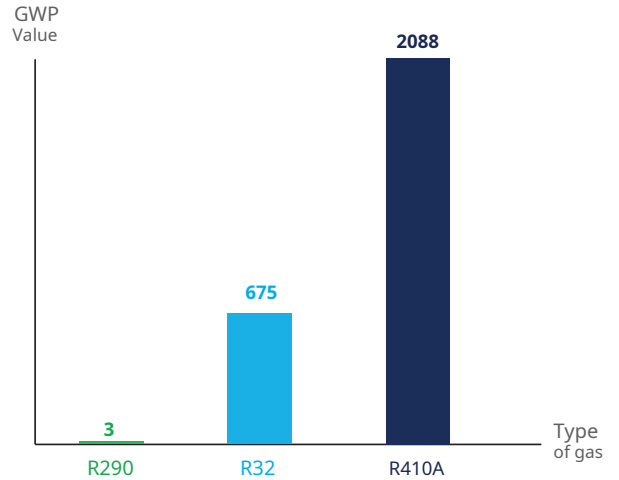
heat pompasının farklı hava sıcaklıklarında ve kompresör hızlarında farklı COP'lerini ölçüyoruz:

" Hava 7°C'de ve %100 kompresör hızında COP

" Hava 15°C'de, %30, %65 ve %100 kompresör hızlarında COP

" Hava 26°C'de %30 kompresör hızında COP

heat sistemi SCOP değerleri	Verimlilik sınıfı
SCOP > 7	A
7 > SCOP > 6	B
6 > SCOP > 4	C
4 > SCOP > 3	D
3 > SCOP > 1	E
SCOP < 1	F



Daha düşük GWP etkisine ek olarak R290 aynı zamanda yüksek enerji verimliliğine sahiptir ve çok iyi performans sağlar.

## > BİLGİLENDİRME

### HIZLI BAŞLANGIÇ KILAVUZU (QSG)

Çevresel ayak izimizi azaltmak amacıyla, kullanım kılavuzunun daha kısa ve basitleştirilmiş bir versiyonu, her ısı pompasıyla birlikte aamalı olarak teslim edilir. Sayfa sayısının %60'a kadar azaltmaya olanak sağlar. Kullanım kılavuzunun tamamı hâlâ markanın web sitelerinde ve Uygulamanın içinde mevcuttur.

# HEAT PUMP

## Understanding Performance

The performance of Heat pumps is characterized by two main values: their power and their performance coefficients.

"kW cinsinden ifade edilen güç, suya aktarılan 1s1 miktarın gösterir."

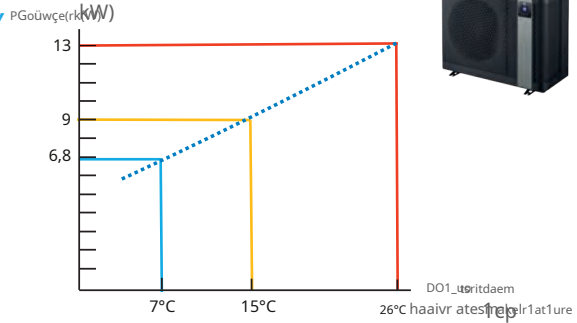
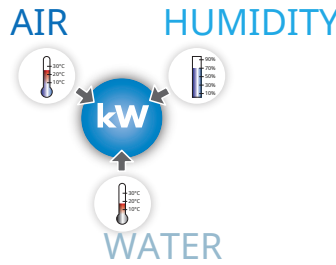
The performance of a heat pump during use is expressed in terms of specific climatic conditions:

"Air temperature"

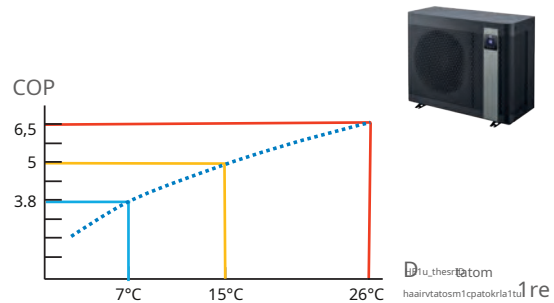
"Air humidity"

"Pool water temperature"

The power of a heat pump will mostly depend on the air temperature. The hotter the air, the higher the power in kW, and therefore the higher the COP.



For example (see graph), a Z250iQ will consume 9 kW of power under 15°C air / 26°C water / 70% humidity conditions. Therefore, it is very important to compare performances under the same conditions! The coefficient of performance (COP) is the ratio of the power transferred to the water to the power consumed by the heat pump. Like power, the coefficient of performance also changes directly depending on the usage conditions. For example, a COP performance coefficient of 5 is used for 1 kWh consumed by the electricity meter. This means that it provides 5 times or 5 kWh more energy to the water in the pool. The higher the coefficient of performance (COP), the more efficient and economical the system will be.



## Silent installation

### > ACCURATE MEASUREMENT OF NOISE LEVEL

The latest technologies used in evaporator, fan and compressor design enable Zodiac® heat pumps.

It makes it extremely quiet.

A certified institution is required to measure noise levels accurately and objectively.

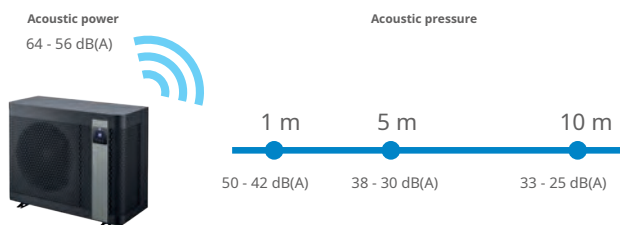
It needs to be evaluated by [the relevant authority]. Noise level is expressed in two ways:

"Acoustic power in dB(A): This is the sound level that does not occur in source 1n.

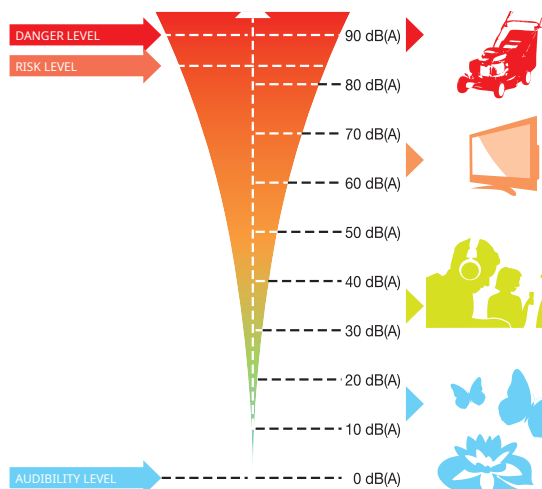
"Acoustic pressure in dB(A): This is the sound level perceived by the human ear.

It depends on the installation environment and the distance from which the measurement is taken. Therefore, the measured distance...

This should always be stated along with the value.



### NOISE SCALE



To compare the noise levels of different products, check which values are specified. Is it acoustic power? Or acoustic pressure? If the given value is acoustic pressure, pay attention to the distance from which it was measured!

# HEAT PUMPS

## MAIN FEATURES



### > CONNECTION

Thanks to the intuitive interface of the Fluidra Pool app, you can easily connect and control your water pump (and other Fluidra products; see the Internet of Pools section) remotely from anywhere, anytime, using a smartphone.

The Fluidra Pool application complies with GDPR (General Data Protection Regulation) to ensure the protection of personal data.



### IQBRIDGE RS 1LE BA LANIN

iQBridge RS is a Play & Play WiFi gateway used to easily connect some heat pumps (see comparison tables) to the user's WiFi network and take advantage of the Fluidra Pool app control experience.



For more information about the advantages of iQBridge RS and the FluidraPool app, see the "Internet of Pools" section.

### > FULL INVERTOR TECHNOLOGY

"Full Inverter technology allows a heat pump to change its power mode depending on the pool heating needs. Therefore, it operates in a way that achieves the best energy efficiency at the lowest noise level."

"Full inverter technology with 3 operating modes: Boost: Maximum

power for quick heating at the start of the season; Smart:

Automatic power adjustment between Ecosilence and Boost."

EcoSilence: Greater energy savings and lower noise levels.

### > VERTICAL BLOWING ADVANTAGES

"Because less empty space is needed around the unit, it is generally suitable for small spaces."

"At the same sound level as with horizontal and vertical heat pumps, the perceived sound level will be lower for vertical heat pumps because air is blown upwards. Thanks to vertical blowing, cold air is not blown towards pool users."

### > AUTOMATIC COOLING MODE

In liner pools, it is not recommended to keep the water temperature above +30°C to prevent water quality deterioration, turning green, and damage to the liner. In hot regions, during hot seasons, or if the pool is sheltered, it is possible for the pool water temperature to exceed +30°C.

An 1s1 pump with automatic cooling mode will maintain the pool water temperature at the desired target temperature.

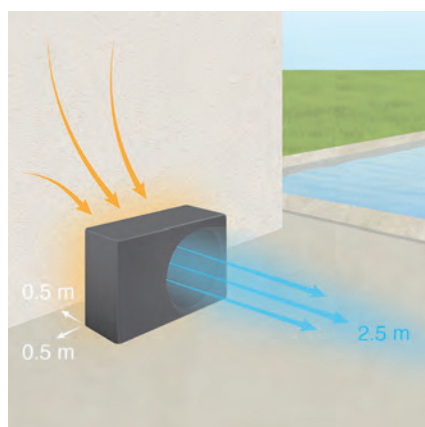
### > DEFROST PRENS1B1

When the temperature is low (D1), the evaporator will tend to ice up, reducing its efficiency: the ice must be removed by DEFROST (reversing the cycle).

The cooling circuit is reversed, and heat is extracted from the water in the reservoir to defrost the evaporator. Defrosting allows for extended/full year-round use.

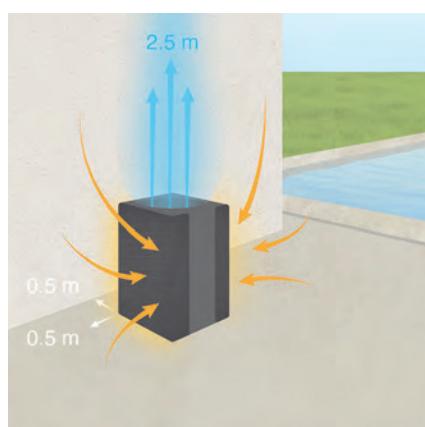
## > DIFFERENT AIR OUTLET BLOWING TYPES

pumps for pools can have different types of blowers, making it possible to adapt their installations to specific requirements.



### > HORIZONTAL

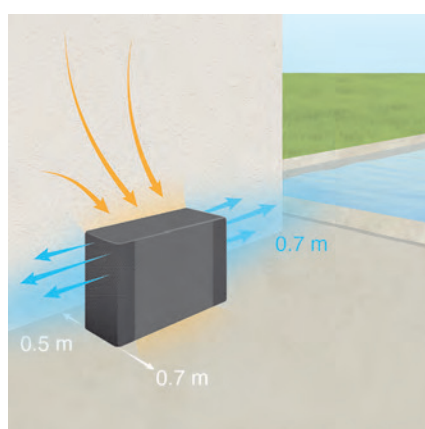
Horizontal blower pumps are the most common pumps on the market and offer the most efficient design in terms of heating performance. However, they have disadvantages such as requiring a large floor footprint and the inconvenience of blowing cold air over legs/feet.



### > VERTICAL

Vertical blower pumps are ideal for confined spaces. With a small floor footprint (approximately half that of a horizontal blower heat pump), they offer the most compact solution. Another advantage is that they reduce the perceived noise of the heat pump by dispersing noise from above, and they don't disturb you by blowing cold air on your feet. On the other hand, more

Due to its low optimization and direct airflow, its performance is not as good as that of a horizontal blow-drying heat pump.



### > SIDE

Side-blowing pumps are also ideal for small spaces; their footprint is slightly larger than a vertical air outlet, but still smaller than a horizontal blower. Their main advantages include reduced noise, but also a design that makes cleaning easier without the fan being visible, a smoother, more discreet front panel, and no air blowing towards your feet. They are also more efficient than vertical blower pumps.

	EFFICIENCY	FOOT 121	PERCEIVED NOISE	GARDEN NOISE
HORIZONTAL	++++	j6/7 m <sup>2</sup>	++	++
VERTICAL	++	j2.5/3 m <sup>2</sup>	++++	+++
SIDE	+++	j4/5 m <sup>2</sup>	++++	++++

## ASSEMBLY SUGGESTIONS

"D1\_ar1da, close to the pool machine air vent, at a sufficient distance from the pool (according to applicable electrical standards).

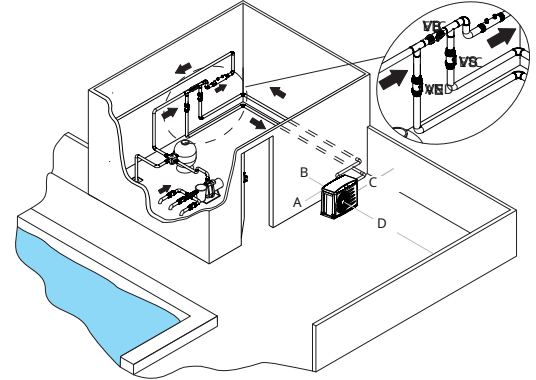
"On a stable, solid, and flat surface.

"Maintain the minimum distances between the pump and its surroundings (walls, plants, etc.) as

shown in section a\_a 1.

### HORIZONTAL FAN OUTLET HEAT PUMPS

A	B	C	D
Minimum vacant area in meters			
0.5	0.5	0.5	2



### D1KAY FAN OUTLET HEAT PUMPS

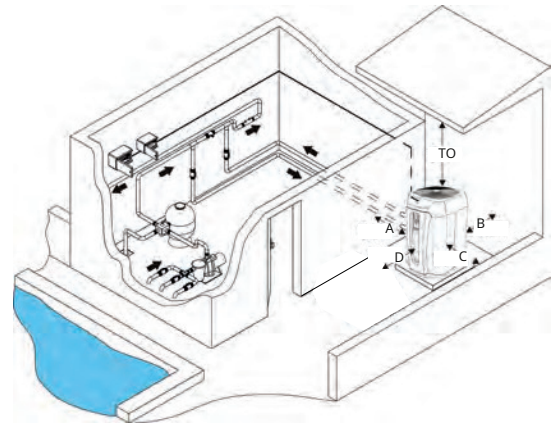
Minimum vacant area in meters

A	B	C	D	TO
0.5	0.5	0.5	0.5	2
0.15*				

\* For Z350iQ only

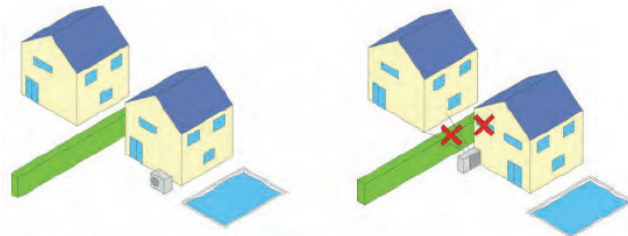
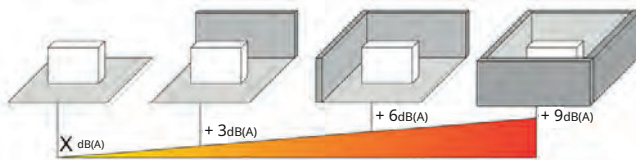
These diagrams show the recommended spacing for maximum efficiency and ease of maintenance. Alternative installation arrangements can be considered, along with their potential impact on performance and serviceability.

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



### > HEAT PUMP INSTALLATION RECOMMENDATIONS1

A pump consists of moving parts that produce noise and vibration, such as a compressor, fan, etc.



### > PREVENTION OF T1TRE\_1M1 FROM THE BASE

"Use vibration damping mounts.

"Replace the wedges1 if necessary to absorb the vibrations, as they lose their effectiveness over time." Use a mounting base. The base weight should be at least twice the weight of the heat pump. "It must be independent of the building.

To prevent or avoid any potential problems, a few assembly rules must be followed:

"Choose open spaces (avoid corners or courtyards), because the sound Since the waves will radiate from all directions of the device, they will reflect back from the surface they strike.





"Do not mount it under or on the window sill.

"Regarding neighborly property:

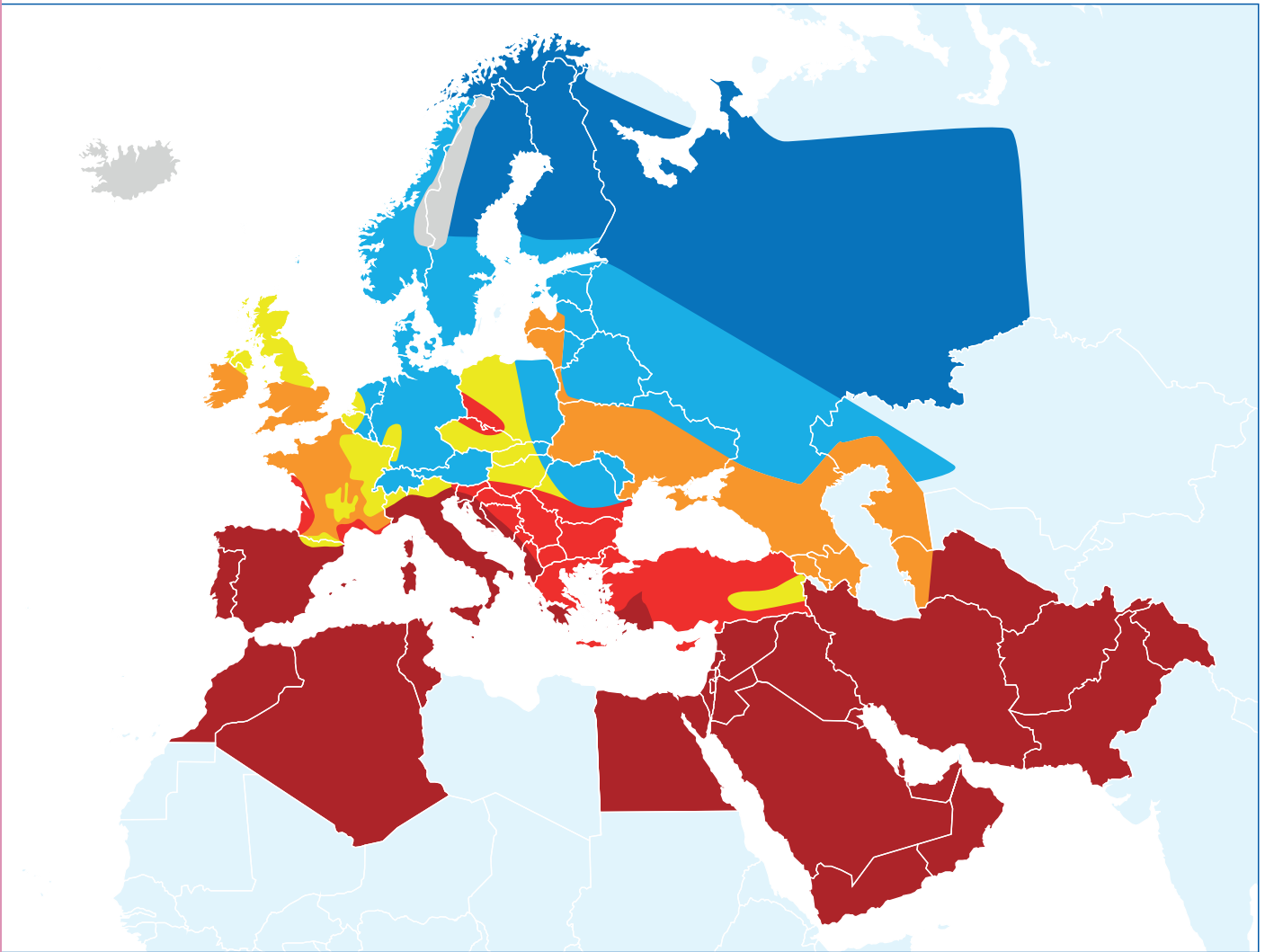
- Install the system as far away from the neighbor's border as possible.
- The device's fan should not face the neighbor's garden.



## > COMPARISON TABLE

					
		Z550iQ	Z400iQ	Z350iQ	PM40
A basis for a quick primary election.	Model	Z550iQ	Z400iQ	Z350iQ	PM40
	Featured feature	Economic and Quiet Election	Elegant and unique.	Optimal integration	Silent On-Off solution
	Professional advice is recommended.	:	:	:	:
Performances	Minimum air temperature 10°C	-15°C	-12°C	-7°C	-8°C
	Usage season	All year use	All year use	Season Extension	Season Extension
	Technology	FULL INVERTER	ON-OFF	FULL INVERTER	ON-OFF
	Cooling mode	:	:	:	:
	Mobile app control (wifi)	:	:	:	:
	Fan blowing type	Vertical	Vertical	Vertical	Horizontal
	Free space requirement	+++	+++	+++	++
	Electrical power supply	Single-phase or three-phase	Single-phase or three-phase	Single-phase	Single-phase or three-phase
	1. Indoor mounting compatibility	:	X	X	X
Performance comparison near forces	Power range 11 (@26°C Air / 26°C Water)	12.5kW to 20kW (5 power options)	9.8 to 22 kW (8 power options)	11, 14, 16kW (3 power options)	4.7 to 32kW (10 power options)
	Power range 11 (@15°C Air/ 26°C Water)	9.5 to 15kW (5 power options)	7.9 to 17.5 kW (8 power options)	8, 10, 12 kW (3 power options)	3.2 to 23kW (10 power options)
	Compressor type	Scroll	Rotary valve	Rotary valve	Rotary valve or scroll valve
	So utucu ak1_kan tipi	R32	R32/R410A	R32	R32/R410A
Modes	Power kW @26°C	12.5 kW	12.5 kW	14 kW	14.7 kW
	COP @26°C	12*	5.2	8.8*	6.2
	Power kW @15°C	9.5 kW	10 kW	10 kW	10.5 kW
	COP @15°C	6.7*	4.4	5.4*	4.8
Technical features	Acoustic power (dB)	64 - 56	Standard: 65 Silent: 63	Boost: 71 Silent: 63	Standard: 69 Silence: 64
	Acoustic pressure (dB) @10m	33 - 25	Standard: 34 Silent: 32	Boost: 40 Silent: 32	Standard: 38 Silence: 33
	Silent mode	:	:	:	:
Easy usage	Ak1111 mod	:	X	:	X
	Boost/Standard mode	:	:	:	:
	Defrost type	Reverse cycle	Reverse cycle	Reverse cycle	Reverse cycle
Guarantee	Till	Polypropylene	Polypropylene + galvanized steel front panel	Top panel polypropylene + other panels are galvanized steel	Galvanized steel
	OTA (Over-the-Air Software Update)	:	:	:	X
	Is1tma priority i (filtration control)	:	:	:	:
Accessories	HMI type	LCD	LCD	LCD	LCD display detachable
	Is1 Pump1	3 years	3 years	3 years	3 years
Accessories	Compressor	5 years	5 years	5 years	5 years
	Condenser (corrosion)	10 years	10 years	10 years	10 years
	K1_cover	:	:	:	:
	Yo u_ma expense kit	:	:	:	:
	Hydraulic connection	2 x PVC 1/2" Fitting Ø 50	2 x PVC 1/2" Fitting Ø 50	" 2 PVC fittings Ø40 " 2 PVC reduction Ø40/50 "2 PVC fittings 45° Ø50"	2 x PVC 1/2 ba lant1 Ø 50
	Vibration-damping mounts	x4	x4	x4	x4
	Detachable control panel	:	:	:	:
Free mobile app	:	:	:	:in option	
Optional	Technical room assembly Yo u_ma tray	X	X		

> CLIMATE



Region 1	
Region 2	
Region 3	
Region 4	
Region 5	
Region 6	
Region 7	

**HEAT PUMP SELECTION GUIDE**

This quick selection guide is configured with the following parameters: private pool, for use from early May to late September, average depth of 1.5 m, 14-hour filtration time, target pool water temperature of 28°C.

**SELECT POWER IN LESS THAN 1 MINUTE.**

How to Read: The Z250iQ MD5 is required for a 35 m<sup>3</sup> covered pool located in Zone 2.

# HEAT PUMP SERIES 1 FOR USE WITH POOL COVER 1.

	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	MAX																
Region 7 Z550iQ R32	MD4												MD5/TD5				MD8/TD8																															
Region 7 Z400iQ	MD4												MD5			MD7/TD7			MD8/TD8			MD9/TD9																										
Region 7 Z350iQ	MD4												MD5			MD6																																
Region 7 Z260iQ / PX26	MD4												MD5			MD6			MD8																													
Region 7 Z250iQ / PX25	MD3						MD4			MD5			MD6			MD8/TD8				MD9/TD9			MD12/TD12		f195 m³																							
Region 7 PX50	MD3						MD4			MD5			MD6			MD7			MD9				MD11/TD11		f195 m³																							
Region 7 POWER FORCE	TD25																												f235 m³ TD25 f305 m³ TD35																			

	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	MAX																		
Region 6 Z550iQ	MD4												MD5/TD5				MD8/TD8																																	
Region 6 Z400iQ	MD4												MD5			MD7/TD7			MD8/TD8			MD9/TD9																												
Region 6 Z350iQ	MD4												MD5			MD6																																		
Region 6 Z260iQ / PX26	MD4												MD5			MD6			MD7																															
Region 6 Z250iQ / PX25	MD3						MD4			MD5			MD6			MD8/TD8				MD9/TD9			MD12/TD12		f170 m³																									
Region 6 PX50	MD3						MD4			MD5			MD6			MD7			MD9				MD11/TD11		f170 m³																									
Region 6 POWER FORCE	TD25																												f205 m³ TD25 f265 m³ TD35																					

	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	MAX																					
Region 5 Z550iQ	MD4												MD5/TD5				MD8/TD8																																				
Region 5 Z400iQ	MD4												MD5			MD7/TD7			MD8/TD8			MD9/TD9																															
Region 5 Z350iQ	MD4												MD5			MD6																																					
Region 5 Z260iQ / PX26	MD4												MD5			MD6			MD7																																		
Region 5 Z250iQ / PX25	MD3						MD4			MD5			MD6			MD8/TD8				MD9/TD9			MD12/TD12																														
Region 5 PX50	MD3						MD4			MD5			MD6			MD7			MD9				MD11/TD11		MD12/TD12		f180m³ TD25 f235 m³ TD35																										
Region 5 POWER FORCE	TD25																												f180m³ TD25 f235 m³ TD35																								

	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	MAX																						
Region 4 Z550iQ	MD4												MD5/TD5				MD8/TD8																																					
Region 4 Z400iQ	MD4												MD5			MD7/TD7			MD8/TD8			MD9/TD9																																
Region 4 Z350iQ	MD4												MD5			MD6																																						
Region 4 Z260iQ / PX26	MD4												MD5			MD6			MD7																																			
Region 4 Z250iQ / PX25	MD3						MD4			MD5			MD6			MD8/TD8				MD9/TD9			MD12/TD12																															
Region 4 PX50	MD3						MD4			MD5			MD6			MD7			MD9				MD11/TD11		MD12/TD12		f160m³ TD25 f210 m³ TD35																											
Region 4 POWER FORCE	TD25																												f160m³ TD25 f210 m³ TD35																									

	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	MAX																						
Region 3 Z550iQ	MD4												MD5/TD5				MD8/TD8																																					
Region 3 Z400iQ	MD4												MD5			MD7/TD7			MD8/TD8			MD9/TD9																																
Region 3 Z350iQ	MD4												MD5			MD6																																						
Region 3 Z260iQ / PX26	MD4												MD5			MD6			MD7																																			
Region 3 Z250iQ / PX25	MD3						MD4			MD5			MD6			MD8/TD8				MD9/TD9			MD12/TD12																															
Region 3 Area 3 PX50	MD3						MD4			MD5			MD6			MD7			MD9				MD11/TD11		MD12/TD12		f180 m³																											
Region 3 POWER FORCE	TD25																												f180 m³																									

	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	MAX																							
Region 2 Z550iQ	MD4												MD5/TD5				MD8/TD8																																						
Region 2 Z400iQ	MD4												MD5			MD7/TD7			MD8/TD8			MD9/TD9																																	
Region 2 Z350iQ	MD4												MD5			MD6																																							
Region 2 Z260iQ / PX26	MD4												MD5			MD6			MD7																																				
Region 2 Z250iQ / PX25	MD3						MD4			MD5			MD6			MD8/TD8				MD9/TD9			MD12/TD12																																
Region 2 PX50	MD3						MD4			MD5			MD6			MD7			MD9				MD11/TD11		MD12/TD12																														
Region 2 POWER FORCE	TD25																												TD35																										

	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	MAX																								
Region 1 Z550iQ	MD4												MD5/TD5				MD8/TD8																																							
Region 1 Z400iQ	MD4												MD5			MD7/TD7			MD8/TD8			MD9/TD9																																		
Region 1 Z350iQ	MD4												MD5			MD6																																								
Region 1 Z260iQ / PX26	MD4												MD5			MD6			MD7																																					
Region 1 Z250iQ / PX25	MD3						MD4			MD5			MD6			MD8/TD8				MD9/TD9			MD12/TD12																																	
Region 1 PX50	MD3						MD4			MD5			MD6			MD7			MD9				MD11/TD11		MD12/TD12																															
Region 1 POWER FORCE	TD25																																																							

# HEAT PUMP SERIES 1 - UNCOVERED USE

		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90																MAX
Region 7	Z550iQ	MD4				MD5/TD5			MD8/TD8																										
Region 7	Z400iQ	MD4				MD5			MD7/TD7		MD8/TD8		MD9/TD9																						
Region 7	Z350iQ	MD4				MD5			MD6																										
Region 7	Z260iQ / PX26	MD4				MD5			MD6		MD7																								
Region 7	Z250iQ / PX25	MD3		MD4		MD5		MD6		MD8/TD8		MD9/TD9		MD12/TD12																					
Region 7	PX50	MD3			MD4		MD5		MD6		MD7		MD9			MD11/D11			MD12/TD12																
Region 7	POWER FORCE	TD25												TD35																					

		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	MAX
Region 6	Z550iQ	MD4				MD5/TD5			MD8/TD8																								
Region 6	Z400iQ	MD4				MD5			MD7/TD7		MD8/TD8		MD9/TD9																				
Region 6	Z350iQ	MD4				MD5			MD6																								
Region 6	Z260iQ / PX26	MD4				MD5			MD6		MD7																						
Region 6	Z250iQ / PX25	MD3		MD4		MD5		MD6		MD8/TD8		MD9/TD9		MD12/TD12																			
Region 6	PX50	MD3		MD4		MD5		MD6		MD7		MD9			MD11/TD11			MD12/TD12															
Region 6	POWER FORCE	TD25												TD35																			

		5	10	15	20	25	30	35	40	45	50	55	60	65	70																MAX
Region 5	Z550iQ	MD4				MD5/TD5			MD8/TD8																						
Region 5	Z400iQ	MD4				MD5			MD7/TD7		MD8/TD8		MD9/TD9																		
Region 5	Z350iQ	MD4				MD5			MD6																						
Region 5	Z260iQ / PX26	MD4				MD5			MD6		MD7																				
Region 5	Z250iQ / PX25	MD3		MD4		MD5		MD6		MD8/TD8		MD9/TD9		MD12/TD12																	
Region 5	PX50	MD3		MD5		MD6		MD7		MD9			MD11/TD11			MD12/TD12															
Region 5	POWER FORCE	TD25												TD35																	

		5	10	15	20	25	30	35	40	45	50	55	60	65	70																MAX
Region 4	Z550iQ	MD4				MD5/TD5			MD8/TD8																						
Region 4	Z400iQ	MD4				MD5			MD7/TD7		MD8/TD8		MD9/TD9																		
Region 4	Z350iQ	MD4				MD5			MD6																						
Region 4	Z260iQ / PX26	MD4				MD5			MD6		MD7																				
Region 4	Z250iQ / PX25	MD3		MD4		MD5		MD6		MD8/TD8		MD9/TD9		MD12/TD12																	
Region 4	PX50	MD3		MD5		MD6		MD7		MD9			MD11/TD11			MD12/TD12															
Region 4	POWER FORCE	TD25												TD35																	

		5	10	15	20	25	30	35	40	45	50	55	60	65	70																MAX
Region 3	Z550iQ	MD4				MD5/TD5			MD8/TD8																						
Region 3	Z400iQ	MD4				MD5			MD7/TD7		MD8/TD8		MD9/TD9																		
Region 3	Z350iQ	MD4				MD5			MD6																						
Region 3	Z260iQ / PX26	MD4				MD5			MD6		MD7																				
Region 3	Z250iQ / PX25	MD3		MD4		MD5		MD6		MD8/TD8		MD9/TD9		MD12/TD12																	
Region 3	PX50	MD3		MD5		MD6		MD7		MD9			MD11/TD11			MD12/TD12															
Region 3	POWER FORCE	TD25												TD35																	

		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	MAX
Region 2	Z550iQ	MD4				MD5/TD5			MD8/TD8																								
Region 2	Z400iQ	MD4				MD5			MD7/TD7		MD8/TD8		MD9/TD9																				
Region 2	Z350iQ	MD4				MD5			MD6																								
Region 2	Z260iQ / PX26	MD4				MD5			MD6		MD7																						
Region 2	Z250iQ / PX25	MD3		MD4		MD5		MD6		MD8/TD8		MD9/TD9		MD12/TD12																			
Region 2	PX50	MD3		MD5		MD6		MD7		MD9			MD11/TD11			MD12/TD12																	
Region 2	POWER FORCE	TD25												TD35																			

		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	MAX
Region 1	Z550iQ	MD4				MD5/TD5			MD8/TD8																								
Region 1	Z400iQ	MD4				MD5			MD7/TD7		MD8/TD8		MD9/TD9																				
Region 1	Z350iQ	MD4				MD5			MD6																								
Region 1	Z260iQ / PX26	MD4				MD5			MD6		MD7																						
Region 1	Z250iQ / PX25	MD3		MD4		MD5		MD6		MD8/TD8		MD9/TD9		MD12/TD12																			
Region 1	PX50	MD3		MD5		MD6		MD7		MD9			MD11/TD11			MD12/TD12																	
Region 1	POWER FORCE	TD25												TD35																			

POWER FORCE

HEATING  
50 УТЯЖИВАНАТА СЪУТЪМ  
ОПРЕДЕЛЯВАЩИ



# Z550iQ

- + Full inverter technology: quiet and economical.
- + Easily fits into small spaces.
- + Internal link 1: Fluidra Pool free mobile app



## EXPLANATION

- Vertical air vent
- Full Inverter Technology with 3 operating modes:
  - Boost: Maximum power for rapid warm-up at the start of the season.
  - Smart: Automatic power adjustment between Ecosilence and Boost.
  - EcoSilence: Greater energy savings and lower noise levels.
- Free mobile application via internal link
- Polypropylene body
- Heating priority mode (filtration pump control)
- Automatic defrost
- Titanium condenser (fully compatible with salt chlorine systems)
- Scroll compressor
- LCD Screen

## ACCESSORIES INCLUDED IN THE PACKAGE

- "K1\_ cover"
- "Yo u\_ma expense kit" \* 2 x PVC
- 1/2" Fitting Ø 50 " 4 x Vibration-damping wedges

## OPTIONAL ACCESSORIES

- "Is1 pump cleaning kit - WMA03491"
- "Z550iQ - Machine air vent installation kit - WH000202
- "Z550iQ - Condensate tray - R07240

## TECHNICAL SPECIFICATIONS

Model	Z550iQ MD4	Z550iQ MD5	Z550iQ MD8	Z550iQ TD8
Product Code	WH000365	WH000366	WH000367	WH000369
Unit Price EURO	6,500	7,200	8,650	10,000
EN 17645 Class 1	A	A	A	A
EN 17645 SCOP	8.1	8.1	7	7
Recommended flow rate (m <sup>3</sup> )/h	4	5	6	6
Electrical power supply	220-240 V / 1 / 50-60 Hz			380-400 V / 3 / 50-60 Hz
Nominal operating power (A)	9 - 1.7	11 - 2.4	17.8 - 3.5	6.1 - 1.4
Maximum operating power (A)	9	11	17.8	6.1
Recommended power cable cross-sectionmm <sup>2</sup> **	3 x 2.5	3 x 2.5	3 x 6	5 x 2.5
So utucu ak1_kan	R32	R32	R32	R32
So utucu ak1_kan miktar1 (kg)	0.88	1,2	2.18	2.18
Acoustic power (max.-min) (dBA)**	64 - 56	65 - 56	68 - 56	68 - 56
Acoustic pressure at 10m (max-min) (dBA)**	33 - 25	34 - 25	37 - 25	37 - 25

## HEATING PERFORMANCE

AIR 26°C / WATER 26°C / HUMIDITY 80%

Power (max-min) (kW)	12.5 - 3.6	15 - 3.6	20 - 7	20 - 6.2
Input power (max-min) (kW)	2 - 0.3	2.5 - 0.3	4.1 - 0.7	4 - 0.6
RUBBISH	6.3 - 12	5.9 - 12	4.9 - 10.3	5 - 10.4

AIR 15°C / WATER 26°C / HUMIDITY 70%

Power (max-min) (kW)	9.5 - 2.6	11.5 - 2.7	15 - 3.8	15 - 2.9
Input power (max-min) (kW)	1.9 - 0.4	2.4 - 0.4	3.7 - 0.8	3.6 - 0.5
RUBBISH	5 - 6,7	4.8 - 6.8	4.1 - 5	4.2 - 5.8

## DIMENSIONS AND WEIGHT

Product Dimensions <sup>1</sup> (Length x Height x Depth)	615 x 997 x 706mm	615 x 997 x 706mm	615 x 997 x 706mm	615 x 997 x 706mm
product weight (kg)	54kg	60kg	70kg	70kg

\* Cable is not included in the package. This is the recommended cross-section for a maximum distance of 20 m.  
\*\* According to EN60704-1:2010+A11:2012 standard



# Z400iQ

- + Unique design
- + Quiet & different
- + Internal link 1: Fluidra Pool free mobile app

## EXPLANATION

- Vertical air vent
- ON/OFF technology with 2 speed fans and 2 operating modes: Standard, Silent (to reduce noise)
- Built-in connectivity with the free mobile app
- Polypropylene and galvanized steel, epoxy painted (body) or pre-painted (front panel)
- Heating priority mode (filtration pump control)
- Automatic defrost
- Titanium condenser (fully compatible with salt chlorine systems)
- Rotary valve compressor
- LCD screen

## ACCESSORIES INCLUDED IN THE PACKAGE

- "K1\_cover"
- "Yo\_u\_ma drain kit" 2 x PVC
- 1/2" Fitting Ø 50" 4 x
- Vibration damping pads

## OPTIONAL ACCESSORIES

- "Is1 pump cleaning kit - WMA03491"

## TECHNICAL SPECIFICATIONS

Model	Z400iQ MD4	Z400iQ MD5	Z400iQ TD7	Z400iQ TD8	Z400iQ TD9
Product Code	WH000382	WH000383	WH000385	WH000387	WH000389
Unit Price EURO	€4,800	5,200 ~	7,750	8,000	8,750
EN 17645 Class 1	C	C	C	C	C
EN 17645 SCOP	5.2	4.6	4.3	4.5	4.2
Recommended flow rate (m³)/h	4	5	6	7	8
Electrical power supply	220-240 V / 1 / 50 Hz			380-400 V / 3 / 50 Hz	
Nominal operating power (A)	6.9	10.1	6.1	7.7	8.5
Maximum operating power (A)	10	15	6.4	9.2	11.4
Recommended power cable cross-sectionmm:**	3 x 2.5	3 x 2.5	5 x 2.5	5 x 2.5	5 x 2.5
So utucu ak1_kan	R32	R32	R32	R32	R32
So utucu ak1_kan miktar1 (kg)	0.87	0.99	1.18	1.59	1.59
Acoustic power (max.-min) (dBA)**	64 / 61	65 / 63	68 / 66	65 / 62	66 / 63
Acoustic pressure at 10m (max-min) (dBA)**	33 / 30	34 / 32	37 / 35	34/31	35 / 32

## HEATING PERFORMANCE

AIR 26°C / WATER 26°C / HUMIDITY 80%

Power (max-min) (kW)	9.8	12.5	15.6	18.6	22
Input power (max-min) (kW)	1.7	2,3	3	3.5	4.2
RUBBISH	5.9	5.2	5.2	5.3	5.2

AIR 15°C / WATER 26°C / HUMIDITY 70%

Power (max-min) (kW)	7.9	10	12.4	14.8	17.5
Input power (max-min) (kW)	1.6	2.2	2.9	3.5	4.1
RUBBISH	4.9	4.4	4.3	4.2	4.3

## DIMENSIONS AND WEIGHT

Product Dimensions1 (Length x Height x Depth)	1030 x 872 x 449mm	1030 x 872 x 449mm	1030 x 872 x 449mm	1145 x 1018 x 480mm	1145 x 1018 x 480mm
product weight (kg)	70kg	71kg	94kg	105kg	110kg



# Z350iQ

- + Maximum sophistication
- + Efficiency guaranteed.
- + Internal link 1: Fluidra Pool free mobile app



Swivel top part

## EXPLANATION

- Vertical air vent
- Full Inverter Technology with 3 operating modes:
  - Boost: Maximum power for rapid warm-up at the start of the season.
  - Smart: Automatic power adjustment between Ecosilence and Boost.
  - EcoSilence: Greater energy savings and lower noise levels.
- Built-in connectivity with the free mobile app
- Polypropylene body and galvanized steel body
- Heating priority mode (filtration pump control)
- Automatic defrost
- Titanium condenser (fully compatible with salt chlorine systems)
- Inverter rotary vane compressor
- LCD screen

## ACCESSORIES INCLUDED IN THE PACKAGE

- "K1\_ cover"
- "Yo u\_ma drain kit" 2 x
- PVC Fitting Ø40
- " 2 x PVC reducer Ø40/50 " 2 x
- PVC fitting 45° Ø50

## OPTIONAL ACCESSORIES

- "Is1 pump cleaning kit - WMA03491"

## TECHNICAL SPECIFICATIONS

Model	Z350iQ MD4	Z350iQ MD5	Z350iQ MD6
Product Code	WH000507	WH000508	WH000509
Unit Price EURO	5,100 –	6,000	6,100 –
EN 17645 Class 1	A	B	B
EN 17645 SCOP	7.1	6.1	6.3
Recommended flow rate (m <sup>3</sup> )/h	3,4	4,2	5
Electrical power supply	220-240 V / 1 / 50-60 Hz		
Nominal operating power (A)	8	10.1	12
Maximum operating power (A)	9.1	10.8	13.5
Recommended power cable cross-section m <sup>2</sup> **	3 x 2.5	3 x 2.5	3 x 2.5
So utucu ak1_ kan	R32	R32	R32
So utucu ak1_ kan miktar1 (kg)	0.7	0.85	0.95
Acoustic power (max.-min) (dBA)**	70 - 64	71 - 63	73 - 65
Acoustic pressure at 10m (maxmin) (dBA)**	39 - 33	40 - 32	42 - 34

## HEATING PERFORMANCE

AIR 26°C / WATER 26°C / HUMIDITY 80%

Power (max-min) (kW)	11 - 3.1	14 - 4.4	16 - 4.7
Input power (max-min) (kW)	1.9 - 0.3	2.6 - 0.5	3.2 - 0.5
RUBBISH	5.8 - 10.3	5.4 - 8.8	5 - 9.4

AIR 15°C / WATER 26°C / HUMIDITY 70%

Power (max-min) (kW)	8 - 2.5	10 - 2.7	12 - 3
Input power (max-min) (kW)	1.8 - 0.4	2.3 - 0.5	2.8 - 0.6
RUBBISH	4.4 - 6.3	4.3 - 5.4	4.3 - 5

## DIMENSIONS AND WEIGHT

Product Dimensions1 (Length x Height x Depth)	500 x 883 x 500mm	500 x 883 x 500mm	500 x 883 x 500mm
product weight (kg)	41kg	46kg	47kg

\* Cable is not included in the package. This is the recommended cross-section for a maximum distance of 20 m.

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

# HEAT EXCHANGERS

## Heating the pool with the existing source in the house

Zodiac heat exchangers, which are installed near the hot water source, heat the water using the existing water heating system in the house.

These systems offer significant financial advantages, high efficiency, and rapid heating.(1-2 days)

### > HEAT EXCHANGER SELECTION

Several parameters are considered when selecting a heat exchanger. The appropriate heat exchanger should be selected based on the size of the pool to be heated, the desired usage values (temperature and duration), and the temperature of the primary (primary hot water inlet) circuit.







Zodiac® 1s1 e\_exchangers all existing water heating systems They are compatible with.

With over 17 models, it's suitable for all types of installation.



**INFORMATION**  
All Zodiac® 1s1 e\_exchangers, Titanium It is equipped with plates.

### COMPARISON TABLE

	WATERHEAT		HEAT LINE		URANUS+	
	Equipmentless (naked)	Equipmentless (naked)	Plus, circulation pumpless	Plus, circulation. pump1	Equipmentless (naked)	Plus
						
APPLICATION	All types of heating					
Power at 90°C primary circuit water inlet temperature	105 - 450 kW		20 - 70 kW		35 - 240 kW	
Power at 45°C primary circuit water inlet temperature	20 - 100 kW		4 - 14 kW		13 - 57 kW	
Mounting type	Bypass connection 111, L type		Bypass's 1z ba lant 1, hat üstü		Bypass connection, L type	
Type 1s1 e_exchanger	Multiple titanium pipe		Multiple titanium tubes		Titanium plates	
Ak1 sensor			"	"		"
Regulation			"	"		"
Circulation pump1				"		"
Guarantee	2 years					



HEAT EXCHANGERS1

# Waterheat EVO



Waterheat 1s1 heat exchangers allow heat exchange between the primary circuit (hot boiler water) and the secondary circuit (cold water to be heated), thus ensuring that pool and spa waters are brought to the desired temperature.

EXPLANATION

- "Titanium casing (secondary circuit, pool water)."
- "Titanium alloy serpentine pipes (primary circuit, boiler water). Primary circuit operating pressure 10 bar."
- "Secondary circuit operating pressure 3 bar"

PRODUCT CODE & UNIT PRICE

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
Product code	71607	71608	71609	71610	71611	71612	71613	71614
Unit Price EURO	810.00	980.00	1,200.00	1,900.00	2,650.00	4,350.00	4,450.00	6,150.00

TECHNICAL SPECIFICATIONS

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
Strength	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

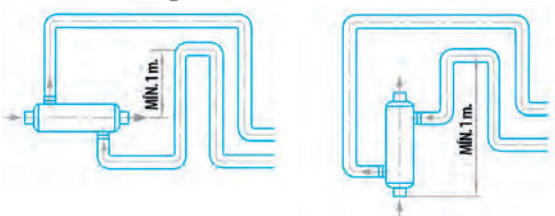
Model		TIT-20 kW	TIT-40 kW	TIT-60 kW	TIT-105 kW	TIT-140 kW	TIT-210 kW	TIT-300 kW	TIT-450 kW
Is1t1c1	m <sup>3</sup> /h	1.6	2.7	3.1	6.6	7.0	10.0	11.0	16.0
Is1t1c1 bas1ç kayb1	bar	0.006	0.024	0.040	0.030	0.040	0.122	0.214	0.470
Is1t1c1 su ba lant1s1	Inch	G ¾"			G 1 ½"				
Pool pressure loss	bar	0.119	0.192	0.418	0.293	0.316	0.633	0.596	0.860
Pool water connection	Inch	G 1"				G 1 ½"			
Pool connection	Inch	G 1"				G 1 ½"			

DIMENSIONS AND WEIGHT

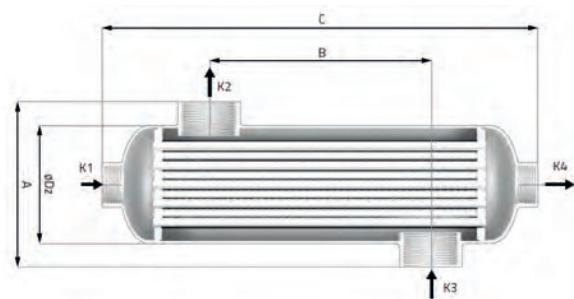
Model		TIT-20 kW	TIT-40 kW	TIT-60 kW	TIT-105 kW	TIT-140 kW	TIT-210 kW	TIT-300 kW	TIT-450 kW
Dimensions	A (mm)	122			140				
	B (mm)	75	175	225	170	270	420	670	920
	C (mm)	290	390	440	357	457	607	857	1107
	Ø Dz	80			102				
	A 1r11k	kg	1.2	1.7	1.9	2.2	2.7	3.8	5.3

For accurate unit selection based on your system, consult your service engineer. The figures are for power settings calculated for pool water at 20°C.

Mounting above water level \_emas1:



Installation diagram below water level:



# Uranus

**Nude and Plus models**

**Uranus PLUS**

**Uranus Naked Model**


- + Compatible with all home heating systems.  
(1s1 pump, boiler, geothermal, solar\_energy)
- + High 1s1 transfer
- + Digital regulation

**EXPLANATION**

"The device is fully assembled and all connections are ready."  
 High-performance plate heat exchanger with titanium plates.  
 "PR1MER circuit (hot water) connection, adjustable 2 1/4 valves,  
 1 valve - d1\_tan threaded. With Ø26/34 and Ø 20/22 connection fittings. Secondary circuit (pool line) connection - PVC Ø 50  
 "Digital display thermostat"  
 Ak1 sensor  
 "230 V single-phase power supply with socket"  
 Drain and discharge plug.

**PRODUCT CODE & UNIT PRICE**

Model	URANUS 35	URANUS 70	URANUS 120	URANUS 240
NakedModel	WJ000001	WJ000003	WJ000005	WJ000007
	2,100	2,700	3,450	5,000
Complete Model	WJ000002	WJ000004	WJ000006	WJ000008
	3,650	4,800	7,000	8,150

**TECHNICAL SPECIFICATIONS**

Model	URANUS 35	URANUS 70	URANUS 120	URANUS 240	
Maximum pressure (pool circuit)	3 bars / 2 bars				
Maximum operating temperature 1	90°C / 40°C				
Connections	Primary circuit 1s1tma (naked model)	Ø20/22		Ø26/28	
	Secondary circuit (pool)	PVC Ø50			
Flow rate (m <sup>3</sup> )/h	Primary circuit 1s1tma	1.6	2.1	2.8	6.3
	Secondary circuit (pool)	2	2.9	4.3	8.7
Load loss1 (MMCE)	Primary circuit 1s1tma	1500	1200	1000	2000
	Secondary circuit (pool)	2400	2300	2500	3800

**HEATING PERFORMANCE**

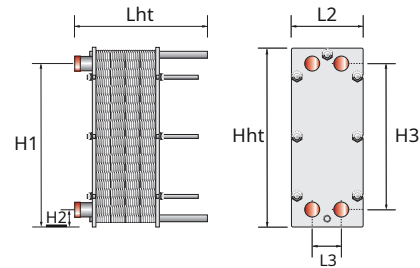
Model	URANUS 35	URANUS 70	URANUS 120	URANUS 240
Power (kW) at 90°C primary circuit water inlet temperature	55	80	120	240
Power (kW) at 60°C primary circuit water inlet temperature	27	38	63	123
Power (kW) at 45°C primary circuit water inlet temperature	15	21	34	68

DIMENSIONS (MM) AND WEIGHT

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

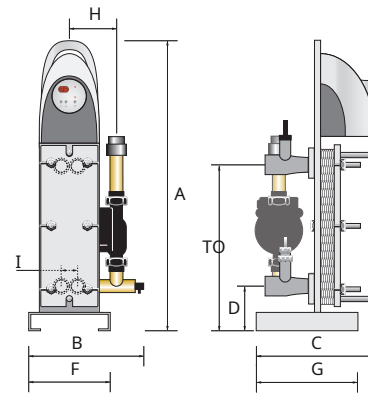
DIMENSIONS (MM) EK1PMANSIZ MODEL

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



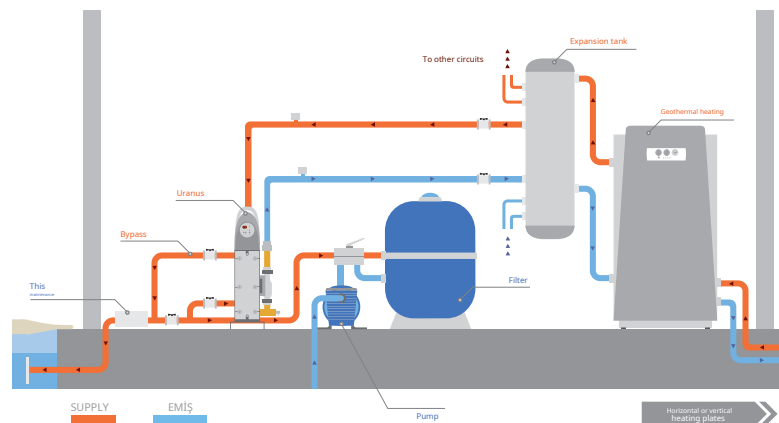
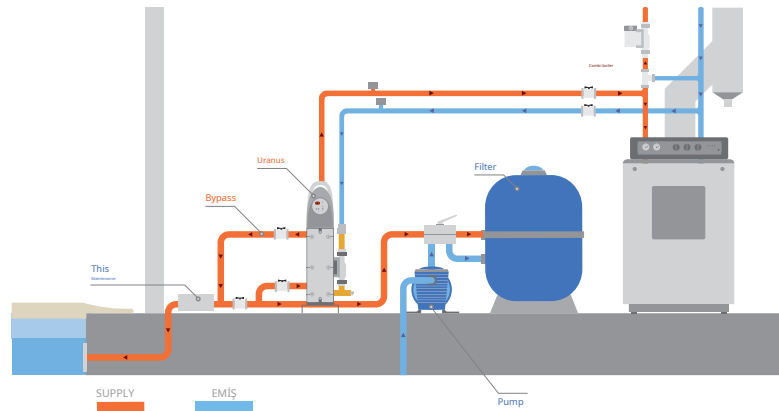
DIMENSIONS (MM) PLUS MODEL

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



ASSEMBLY

"The hot water should be located near the source."  
 The secondary circuit is installed via a bypass after the pool filtration.  
 "230V single-phase power supply."  
 "Special case: 1s1 e\_exchanger primary (hot water) circuit"  
 It can be supplied via geothermal and 1s1 pump.  
 "E\_anger; pool heating needs, 45°C or 60°C  
 The primary circuit should be sized taking into account the conditions (see specifications table) and the power of the geothermal system. For the geothermal system to function correctly, we recommend installing an expansion tank as shown in the diagram below.



HEAT EXCHANGERS

# Heat Line

## Naked, Plus circulation pump & circulation pump



Donan1ms1z



Plus regulated and circulation pump

- + Compatible with all home heating systems.  
(1s1 pump, boiler, geothermal, solar\_energy)
- + Versatile mounting concept
- + Digital regulation

EXPLANATION

"Noril polyamide injection casing"  
 T1TANIUM pipes  
 Check valve  
 "Class A, low consumption circulation pump"<sup>(1)</sup>  
 "Reversible interface (allows water inlet to the right or left of the pool)"  
 Ak1 sensor<sup>(2)</sup>  
 "230 V plug-in electrical panel" Digital regulation<sup>(2)</sup>  
 "Reversible installation"  
 (1) In the "Plus" models with circulation pump (2) In the "Plus" models without circulation pump

PRODUCT CODE & UNIT PRICE

Model	HEATLINE 20	HEATLINE 40	HEATLINE 70
Naked model	W49NT20	W49NT40	W49NT70
	900.00	1000.00	1,200.00
Plus, circulation pump-less model	W49KT20W	W49KT40W	W49KT70W
	1,700.00	1,800.00	1,950.00
Plus, circulation pump model	W49KT20	W49KT40	W49KT70
	1,900.00	2,050.00	2,250.00



TECHNICAL SPECIFICATIONS

Model	HEATLINE 20	HEATLINE 40	HEATLINE 70
Maximum pressure (pool circuit)	2 bars		
Maximum operating temperature 1	90 °C		
Connections	Ø26/34 internal thread / Ø26/34 d1_thread		
	PVC Ø63 or 50		
Flow rate (m <sup>3</sup> )/h)	Primary circuit 1s1tma	0.9	1.7
	Secondary circuit (pool)	10	15
Load loss1 (MMCE)	Primary circuit 1s1tma	150	200
	Secondary circuit (pool)	500	800

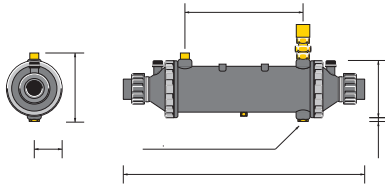
\* For private outdoor swimming pools with a pool cover and a primary water temperature of 90°C, between May 15th and September 15th.

HEATING PERFORMANCE

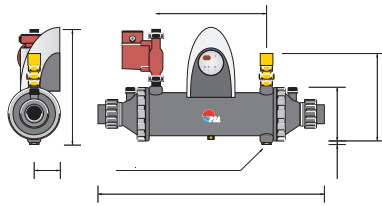
Model	HEATLINE 20	HEATLINE 40	HEATLINE 70
Power (kW) at 90°C primary circuit water inlet temperature	20	40	70
Power (kW) at 60°C primary circuit water inlet temperature	8.5	17	30
Power (kW) at 45°C primary circuit water inlet temperature	4	8	14

DIMENSIONS (MM) AND WEIGHT

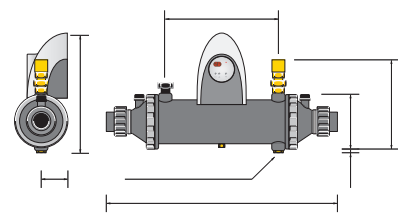
Model	HEATLINE 20	HEATLINE 40	HEATLINE 70
Naked model	3 kg	3 kg	4 kg
Plus, circulation pump-less model	4 kg	4 kg	5 kg
Plus, circulation pump model	6.5 kg	7 kg	12 kg



Heat Line Naked



Heat Line Plus circulation pumps



Heat Line Plus without circulation pump

ASSEMBLY

"In a location close to the hot water boiling point." It should be. The secondary circuit is installed after the pool filtration (without bypass). Horizontal connection on the line. Primary circuit inlets from above.

"230V single-phase power supply"

"The axle directions of the primary and secondary circuits, heat exchanger" It can be reversed by rotating it.

"Special cases: Using solar panels"

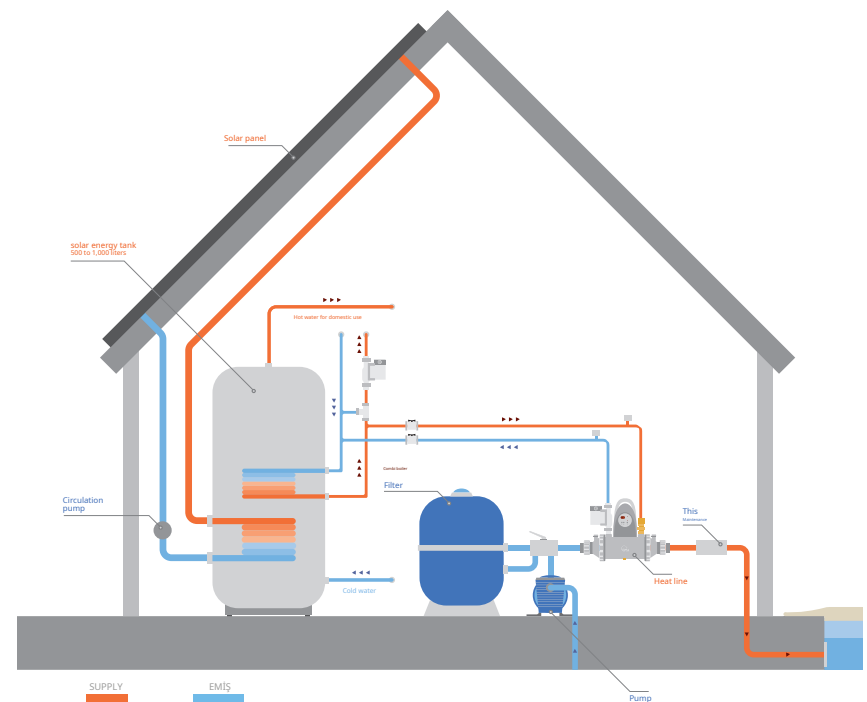
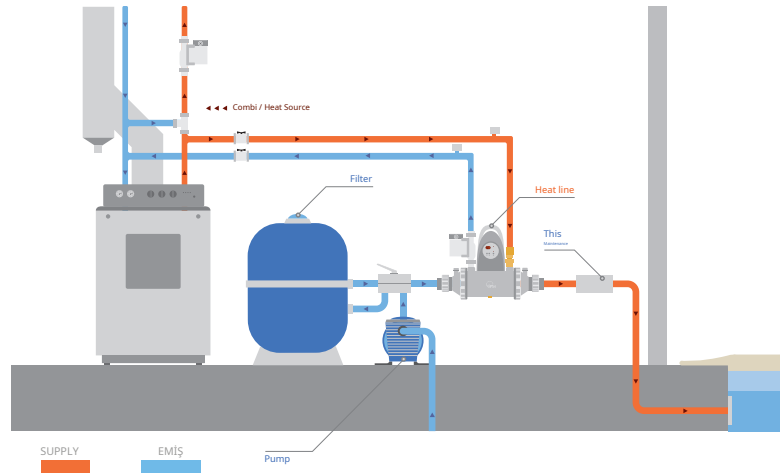
The heat exchanger that was stolen.

"E\_exchanger; for pool heating needs, 45 °C or 60 °C"

The heat exchanger should be selected according to the primary circuit conditions (see specifications table) and the power of the solar panels. In all cases, the heat exchanger should be supplied from a solar energy tank mounted between the panels and the heat exchanger.

"Heat Line heat exchangers connect directly to solar panels." connection1 is not compatible.

"Caution: Maximum primary circuit water temperature = 90 °C" Maximum pressure = 2 bar. The heat exchanger can be used with existing combi boilers or combi boilers with regulators.



# ELECTRIC HEATERS

The simplest solution against rapid temperature increase

Easy to install and use, Zodiac® electric heaters quickly heat your pool and keep the water at your desired temperature. Compact, freestanding. **These units are connected to the filtration system. Start filtration to increase the temperature by 1.**

## > ELECTRIC HEATER SELECTION

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

Depending on the size of the pool to be heated and the desired usage purpose (temperature and duration), the system power will be adjusted accordingly.

Adjustable between 3 kW and 120 kW.

In a small technical room, install the system in an 'L' configuration. In-line installation limits pressure drops. Two types of thermostats are available to control the desired temperature: mechanical and digital.

It is also possible to control the timer settings using a fully digital regulator.



REFERENCE POINT  
ALL ZODIAC® ELECTRIC  
HEATER MODELS WITH  
TITANIUM HEATING ELEMENTS.  
IT IS EQUIPPED AND THEREFORE IT  
IS QUITE...It is durable.

### MODELS1N COMPARISON TABLE

	RE/L	RED LINE	RE/U
			
Pool size*	< 95 m <sup>3</sup>	< 95 m <sup>3</sup>	195 m <sup>3</sup> from
Power level	From 3 to 12 kW	From 3 to 12 kW	From 12 to 24 kW
Mounting type	L type	online	online
Modular type	-	-	"
Thermostat type	Mechanical	Digital	Digital
Guarantee		2 Years	





## ELECTRIC HEATERS

# RE/U

- + Fully digital adjustment
- + power management
- + Maximum sa lam1k

### EXPLANATION

- "± 0.5 °C precision thermostat control panel"
- Digital display and timer
- "Positive safety high temperature protection limit"
- EPDM sealed leakproof pin
- "Hypalon electrical connections"
- sensor
- Power contactor
- control buttons
- + indicators
- "Model ba l1 as single-phase 230V-50/60Hz or three-phase 400V"
- LCD screen



### TECHNICAL SPECIFICATIONS

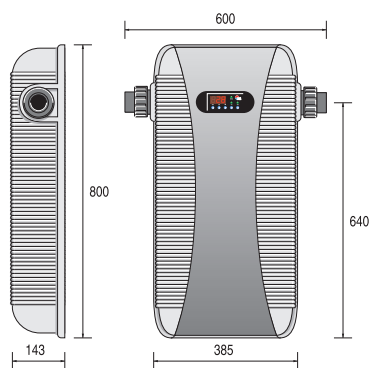
Model	RE/U 12M	RE/U 15T	RE/U 15M	RE/U 18T
Product Code	W40TIT12M	W40TIT15	W40TIT15M	W40TIT18
Unit Price EURO	3,150	3,200	3,300	3,400
Recommended flow rate (m3/h)	5 - 22	5 - 22	5 - 22	5 - 22
Electrical power supply	220-240 V / 1 / 50-60 Hz	380-400 V / 3 / 50-60 Hz	220-240 V / 1 / 50-60 Hz	380-400 V / 3 / 50-60 Hz
Maximum operating power (A)	53	22	66	26
Recommended power cable cross-sectionmm2*	3 x 16	5 x 6	3 x 16	5 x 6

### HEATING PERFORMANCE

Power (max-min) (kW)	6 + 6	9 + 9	6 + 9	9 + 9
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### DIMENSIONS AND WEIGHT

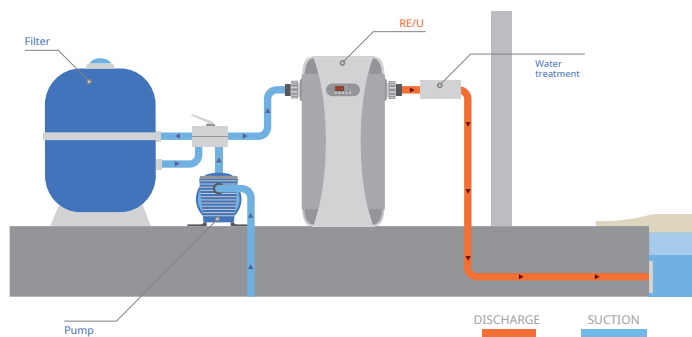
Product Dimensions <sup>1</sup> (Length x Height x Depth)	600 x 80 x 143mm	600 x 80 x 143mm	600 x 80 x 143mm	600 x 80 x 143mm
product weight (kg)	12kg	12kg	12kg	12kg



### ASSEMBLY

In-line PVC water connection, Ø63 (d1\_) or Ø50 (inside).

"Supports any ak1\_ aspect:"  
Simply reverse the ak1\_ sensor and the control and safety sensors.



## ELECTRIC HEATERS

# Red Line

- + In-line mounting, low pressure loss.
- + Single-phase or three-phase connection (on-site configuration)
- + Fully digital regulation



### EXPLANATION

"± 0.5 °C precision thermostat control panel"  
 "Digital display and timer"  
 "Positive safety high temperature protection limit"  
 "Waterproof EPDM sleeve resistors"  
 "Hypalon molded electrical connections"  
 "Ak1\_sensor"  
 Power contactor  
 "On/Off switch + warning indicators"  
 "REDLINE 3, 6 and 9: Simplified single-phase 230V-50/60Hz"  
 Three-phase 1 400V-50/60Hz (three-phase 1 230V on request)  
 "REDLINE 12: three-phase 400V-50/60Hz only"  
 LCD screen



### TECHNICAL SPECIFICATIONS

Model	REDLINE 3	REDLINE 6	REDLINE 9	REDLINE 12
Product Code	W40RDE3	W40RDE6	W40RDE9	W40RDE12
Unit Price EURO	1,450	1,550	1,650	1,800
Recommended flow rate (m <sup>3</sup> /h)	5 - 30	5 - 30	5 - 30	5 - 30
Electrical power supply	220-240 V / 1 / 50-60 Hz & 380-400V / 3 / 50-60 Hz			380-400 V / 3 / 50-60 Hz
Maximum operating power (A)	14 (Mono) 5 (Three-phase)	27 (Mono) 9 (Three-phase)	40 (Single) 13 (Three-phase)	18 (Three-phase)
Recommended power cable cross-section in m <sup>2</sup> *	3 x 4 (Single) 5 x 2.5 (Three-phase)	3 x 6 (Single) 5 x 2.5 (Three-phase)	3 x 10 (Single) 5 x 4 (Three-phase)	5 x 4 (Three-phase)

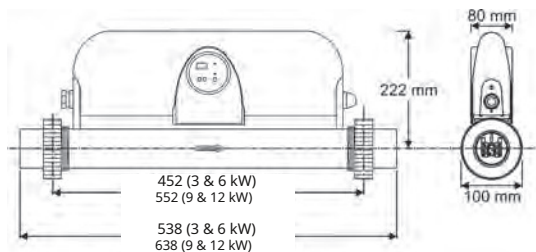
220-240V / 1 / 50-60 Hz  
 380-400V / 3 / 50-60 Hz

### HEATING PERFORMANCE

Power (max-min) (kW)	3	6	9	12

### DIMENSIONS AND WEIGHT

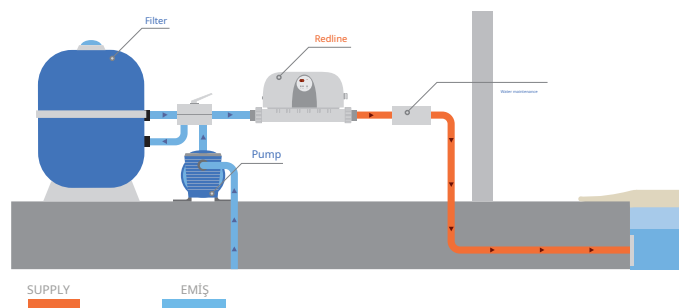
Product Dimensions <sup>1</sup> (Length x Height x Depth)	538 x 222 x 100mm	538 x 222 x 100mm	638 x 222 x 100mm	638 x 222 x 100mm
product weight (kg)	4kg	4kg	4kg	4kg



### INSTALLATION

"2 pieces of Ø63 PVC fittings and Ø63-50 reductions and on-line connection1."

"Supports any ak1\_ aspect:"  
 Simply rotate the device so that it aligns with the water flow direction.



## ELECTRIC HEATERS

# RE/L



YEAR  
GUARANT1



EASY  
ASSEMBLY

### EXPLANATION

- + L-shaped, space-saving.
- + 1 or 3-phase connection (on-site configuration)
- + Mechanical thermostat

" Control Panel  
 Mechanical 16-40 °C rotary thermostat  
 "Positive safety high temperature protection limit"  
 "Waterproof EPDM sleeve resistors"  
 "Hypalon electrical connections"  
 "Ak1\_ sensor"  
 Power contactor  
 "Single or three-phase electrical connection (on-site configuration)"  
 RE/L 3, 6 and 9: simplified single-phase 230V-50/60Hz three-phase  
 400V-50/60Hz (three-phase 230V on request)  
 "RE/L 12: three-phase 400V-50/60Hz only"

### TECHNICAL SPECIFICATIONS

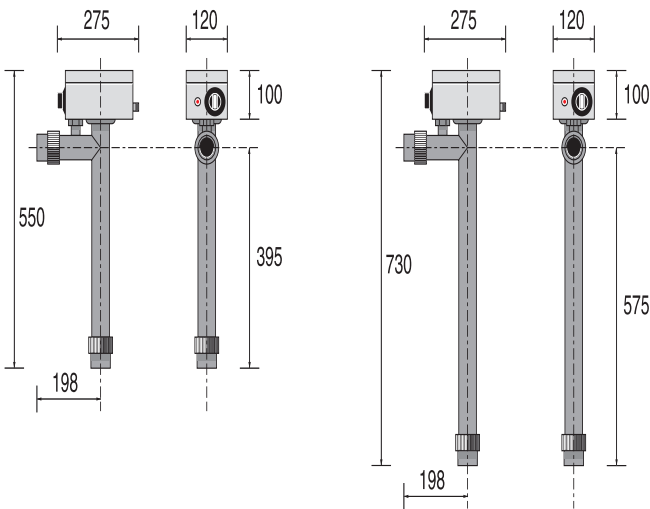
Model	RE/L 3	RE/L 6	RE/L 9	RE/L 12
Product Code	W40LE03	W40LE06	W40LE09	W40LE12
Unit Price EURO	1,300	1,400	1,500	1,600
Recommended flow rate (m3/h)	5 - 22	5 - 22	5 - 22	5 - 22
Electrical power supply	220-240 V / 1 / 50-60 Hz & 380-400V / 3 / 50-60 Hz			380-400 V / 3 / 50-60 Hz
Maximum operating power (A)	14 (Single-phase) 5 (Three-phase)	27 (Single-phase) 9 (Three-phase)	40 (Single-phase) 13 (Three-phase)	18 (Three-phase)
Recommended power cable cross-section m <sup>2</sup> *	3 x 4 (Single-phase) 5 x 2.5 (Three-phase)	3 x 6 (Single-phase) 5 x 2.5 (Three-phase)	3 x 10 (Single-phase) 5 x 4 (Three-phase)	5 x 4 (Three-phase)

### HEATING PERFORMANCE

Power (max-min) (kW)	3	6	9	12

### DIMENSIONS AND WEIGHT

Product Dimensions <sup>1</sup> (Length x Height x Depth)	275 x 550 x 120mm	275 x 550 x 120mm	275 x 730 x 120mm	275 x 730 x 120mm
product weight (kg)	4kg	4kg	5kg	5kg



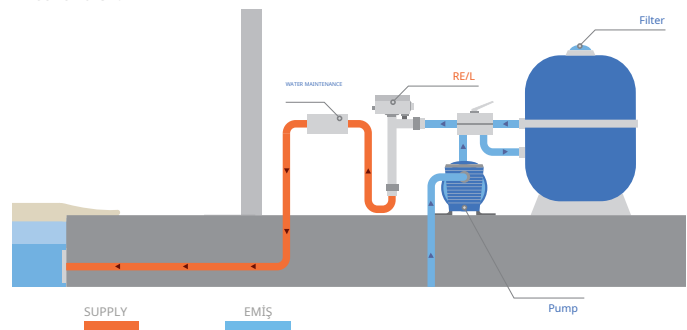
### ASSEMBLY

Shipped with wall mounting clamp.

It is done.  
 " Ø50 or Ø63 inline PVC piping  
 ba lant1s1.

"Supports any ak1\_ aspect:"

Simply rotate the device so that it aligns with the water flow direction.



# ETNA



Naked model



Equipment Model

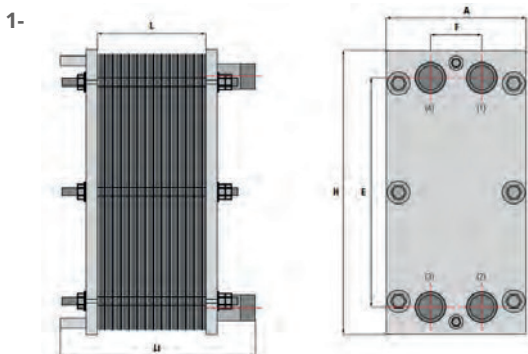


Equipment model + Circulation pump1

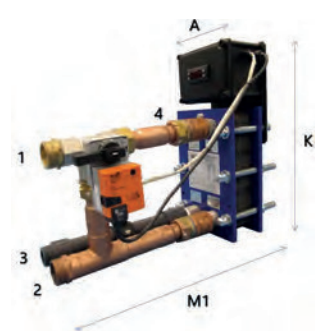
- 1-Primer Input\_
- 2-Primary Return\_
- 3-Secondary Input\_
- 4-Secondary Turn\_

- Corrugated sheets made of AISI-316 or titanium.
- EPDM gaskets.
- Epoxy painted carbon steel frame.
- In equipment-free heat exchangers, ISO G2 direct threaded AISI-316 stainless steel connections.
- In the heat exchangers of the equipment, the primary connections are copper and the secondary connections are PVC.
- In the heat exchangers of the equipment, full regulation is achieved through the control of the filter pump.
- Dual display (setting point 1 and current reading).
- The simple circulation pump in the primary circuit is optional.

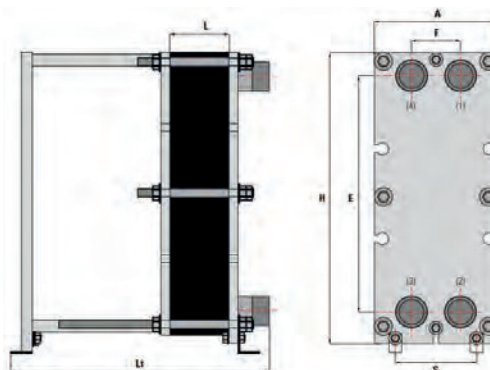
ETNA 15 - ETNA 200



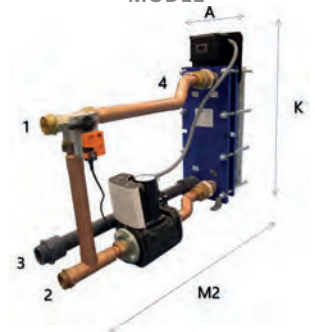
ETNA EQUIPMENT MODEL



ETNA 250 - ETNA 580



ETNA EQUIPPED + PUMPED MODEL






PRODUCT CODE & UNIT PRICE

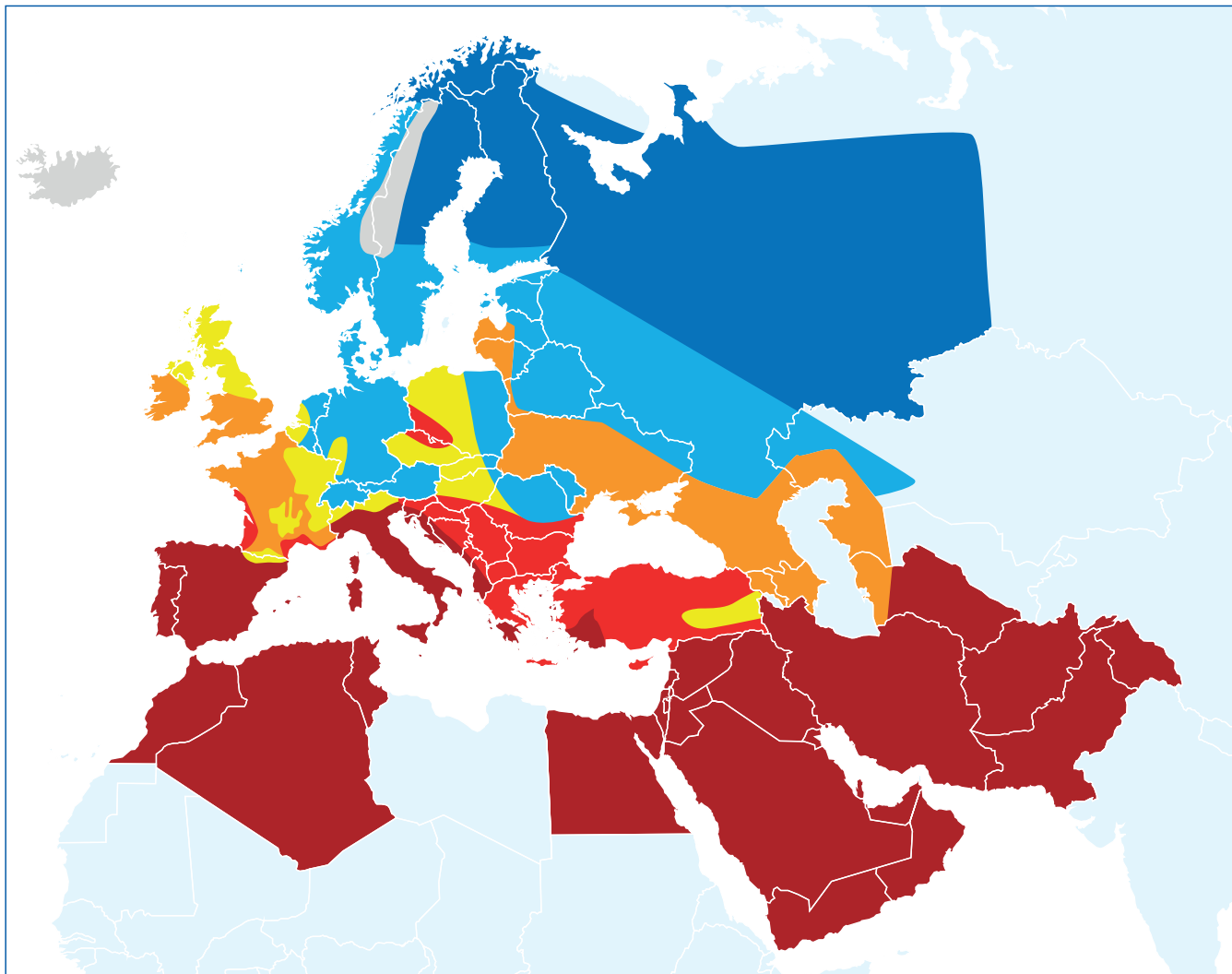
Model	Titanium					
	Naked model		Equipment Model		Complete Model(1)	
	Code	Unit Price EURO	Code	Unit Price EURO	Code	Unit Price EURO
ETNA-15	67994	1,800	68012	3,400	68030	5,000
ETNA-35	67995	2,000	68013	3,850	68031	5,800 -
ETNA-50	67996	3,400	68014	4,600	68032	6,100 -
ETNA-60	67997	3,400	68015	5,200	68033	7,600
ETNA-90	67998	4,600	68016	5,700	68034	8,600
ETNA-120	68226	5,300	68017	7,100	68035	9,900 -
ETNA-150	68227	6,600	68018	8,100	68036	11,900 -
ETNA-180	68228	8,250	68019	10,300	68037	12,900 -
ETNA-200	68229	8,400	68020	10,900	68038	13,500 €
ETNA-250	33137	8,900	33155	11,900	33173	18,000
ETNA-300	33139	9,350	33157	13,000	33175	19,300
ETNA-350	33140	10,500	33158	13,800	33176	20,500
ETNA-400	33141	11,200	33159	15,000	33177	22,200 -
ETNA-460	69796	12,400	33160	15,700	33178	22,500 -
ETNA-500	69797	13,000	33161	16,300	33179	23,500 €
ETNA-580	69798	16,000	33162	20,500	33180	27,900 -

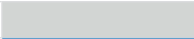






(1) Complete equipment includes a model primary circuit circulation pump.

## > HEAT PUMPS COMPARISON TABLE

			
	PROELYO TOUCH	ECO ELYO	EVOLINE
MODEL			
Professional advice recommended	✓	✓	✓
Minimum working temperature (T°C)	-20°C	-5°C	+ 0°C
Season	All Year	Season Extension	Season Extension
Technology	FULL INVERTER	FULL INVERTER	ON-OFF
Cooling mode	✓	✓	✓
App Control (wifi)	✓ Fluidra Pool (with optional iQBridge RS)	✓ Fluidra Pool	✓
Air outlet <sup>1</sup>	Horizontal	Horizontal	Horizontal
Is1 pump1 location requirement	++	++	++
Electric power supply <sup>1</sup>	Single phase and 3 phase <sup>1</sup>	Single phase and 3 phase <sup>1</sup>	single-phase and three-phase
suitability for interior use	✗	✗	✗
Performance			
Power range 1 1 (@26°C Air / 26°C Water)	8.5 kW to 35 kW (10 powers)	5.5 kW to 31 kW (11 powers)	4.7 kW to 30.9 kW (10 powers)
Power range 1 1 (@15°C Air / 26°C Water)	6 kW to 25 kW (10 powers)	3.5 kW to 24 kW (11 powers)	3.2 kW to 22.8 kW (10 powers)
Compressor details	Rotary duct compressor	Rotary duct compressor	Rotary duct compressor
Gas type	R32/R410A	R32	R32/R410A
Performance at near power levels comparison			
Power kW @26°C	15.9 kW	15 kW	14.9 kW
COP @26°C	16*	16.3*	6.3
Power @15°C	11 kW	11 kW	10.7 kW
COP @15°C	8*	7.7*	4.9
Sound (dB)	Height: 68 Silent: 54	Height: 67 Silent: 55	56
Sound at 10m (dB) @10m	Height: 37 Silent: 23	Height: 36 Silent: 24	25
Mod			
Silent mode	✓	✓	✗
Ak1111 Mod	✓	✓	✗
Boost/Standard mode	✓	✓	✓
Technical specifications			
Defrosting type	Loop reversal	Loop reversal	Loop reversal
Till	ABS	TOP in ABS + Galvanized steel	ABS
OTA (over-the-air) hardware software (update)	✗	✗	✗
Usage easy <sup>1</sup>			
Is1tma priority i (filtration control)	✓	✓	
HMI type	LCD LED	LCD	LCD
Guarantee			
Is1 Pump warranty	2 years	2 years	2 years
Compressor warranty	2 years	2 years	2 years
Condenser warranty (corrosion protection, 1)	2 years	2 years	2 years
Accessories			
K1_ Cover	✓	✓	✓
Yo_u_ma evacuation kit	✓	✓	✓
Water connections	PVC and gaskets, 1/2ba lant111, Ø 50	PVC and gaskets, 1/2ba lant111, Ø 50	2 x PVC 1/2ba lant1Ø 50
Vibration snow_1t1 foot	x 4	x 4	x 4
Remote Control Kit		✓ (10m cable)	✓ (10m)
10m Modbus Signal cable	✓		
Free mobile	✓	✓	✓
APPLICATION			
Optional	"Remote viewing kit (screen) (+ 10 m cable) " iQ Bridge RS (Ba lant1)	" iQ Bridge RS (Ba lant1)	

> CLIMATE



Region 1	
Region 2	
Region 3	
Region 4	
Region 5	
Region 6	
Region 7	

HEAT PUMP SELECTION GUIDE

A private pool, 1.5 meters deep with a 14-hour filtration period, is provided for use from May 15th to September 15th, with a maximum temperature of 15°C to 28°C every 4 days.

SELECT POWER IN LESS THAN 1 MINUTE.

How to Read: Eco Elyo 13 is required for a 35 m<sup>3</sup> pool with a cover located in Zone 2.



# ProElyo Touch



- + Full inverter technology: quiet and energy-efficient.
- + 8 power options ranging from 8.5 kW to 35 kW\*.
- + - Ability to operate in very low air temperatures of -20°C.

## EXPLANATION

- Horizontal air vent
- Full Inverter Technology with 3 operating modes:
  - Boost: Maximum power for rapid heating at the start of the season.
  - Smart: Automatic power adjustment between Ecosilence and Boost.
  - EcoSilence: Greater energy savings and lower noise levels.
- Connectivity via free mobile app thanks to iQBridge RS accessory (optional)
- ABS plastic casing • Heating priority mode (filtration pump control)
- Timer mode • Automatic defrost
- Titanium electro-exchanger (fully compatible with salt-chlorine systems)
- Scroll compressor
- LCD screen and touch buttons

**2**  
YEAR  
WARRANTY

**FULL**  
INVERTER

**-20°C**  
MIN. TEMP.  
AIR

HEATING &  
COOLING HEATING &  
SO UTMA

ENERGY  
EFFICIENT ENERGY  
VERIML1L1 1

FLUIDRA  
POOL

## ACCESSORIES INCLUDED IN THE PACKAGE

"K1\_cover"  
"Condensate drainage kit" 2  
x PVC 1/2" fitting Ø 50" 4 x  
vibration damping blocks"  
Modbus connection cable  
10m

## OPTIONAL ACCESSORIES

"Control panel - 74199"  
iQBridge RS - 75042



## TECHNICAL SPECIFICATIONS

Name	Pro Elyo Touch 13	Pro Elyo Touch 15	Pro Elyo Touch 19	Pro Elyo Touch 25	Pro Elyo Touch 30	Pro Elyo Touch 35	Pro Elyo Touch 30T	Pro Elyo Touch 35T
Product Code	74168	74169	74170	74171	74172	74173	74174	74175
Unit Price EURO	€3,975	€5,050	€5,600	€7,100	€8,400	€10,000	€10,200	€10,500
EN 17645 Rating	A	A	A	A	A	A	A	A
EN 17645 SCOP	7.6	7.7	7.6	7.6	7.6	7.5	7.2	7.1
Recommended flow rate (m3/h)	6	7	8	10	13	13	13	13
Electrical power supply	220-240 V / 1 / 50-60 Hz						380-400 V / 3 / 50-60 Hz	
Nominal operating power (A)	7.2	9.2	10.5	13.2	17	22.9	7	8.4
Maximum operating power (A)	10	13	14.7	18.5	24	32	9.8	11.8
Recommended power cable cross-section m m2**	3 x 2.5	3 x 2.5	3 x 2.5	3 x 4	3 x 4	3 x 6	5 x 2.5	5 x 4
So utucu ak1_kan	R32	R32	R32	R32	R32	R32	R410A	R410A
So utucu ak1_kan miktar1 (kg)	1	1.1	1.5	1.9	2	2.6	3.8	4
Acoustic power (max.-min) (dBA)**	66 - 44	66 - 44	68 - 54	70 - 65	74 - 56	74 - 56	74 - 56	74 - 56
Acoustic pressure 10m (max.-min) (dBA)**	35 - 23	37 - 23	37 - 23	39 - 24	43 - 25	43 - 25	43 - 25	43 - 25

## HEATING PERFORMANCE

AIR 26°C / WATER 26°C / HUMIDITY 80%

Power (max-min) (kW)	13.5 - 3	15.9 - 3	19 - 8	25.5 - 6.7	30 - 6	35 - 8	30 - 6	35 - 8
Input power (max-min) (kW)	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
RUBBISH	6.2 - 16	6-16	6-16	6-16	6-16	6-16	6-16	6-16

AIR 15°C / WATER 26°C / HUMIDITY 70%

Power (max-min) (kW)	9 - 2	11 - 2.5	13 - 3	17 - 4	21 - 5.5	25 - 5.5	21 - 5.5	25 - 5.5
Input power (max-min) (kW)	2 - 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
RUBBISH	4.5 - 8	4.5 - 8	4.5 - 8	4.5 - 8	4.5 - 8	4.5 - 8	4.5 - 8	4.5 - 8

## DIMENSIONS AND WEIGHT

Product Dimensions1 (Length x Height x Depth)	1074 x 706 x 448mm	1074 x 706 x 448mm	1103 x 873 x 454mm	1103 x 873 x 454mm	1079 x 1286 x 472mm	1079 x 1286 x 472mm	1079 x 1286 x 472mm	1079 x 1286 x 472mm
product weight (kg)	73kg	78kg	98kg	117kg	128kg	130kg	128kg	130kg

\* Cable is not included in the package. This is the recommended cross-section for a maximum distance of 20 m.

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

## HEAT PUMPS

# ECO ELYO

- + Full inverter technology: quiet and energy-efficient.
- + 120m<sup>3</sup> for pools up to
- + Internal link: Fluidra Pool free mobile app.


**EXPLANATION**

- Horizontal air vent
- Full inverter technology with 3 operating modes:
  - Boost: Maximum power for rapid warm-up at the start of the season.
  - Smart: Automatic power adjustment between Ecosilence and Boost.
  - EcoSilence: Greater energy savings and lower noise levels.
- Top panel: ABS, body: galvanized steel
- Heating priority mode (filtration pump control)
- Timer mode
- Automatic defrost
- Titanium electro-exchanger (fully compatible with salt-chlorine systems)
- Scroll valve compressor
- LCD screen

**ACCESSORIES INCLUDED IN THE PACKAGE**

"K1\_cover" kit" preventive wedge  
 " 2 x PVC 1/2" Fitting

Ø 5 " 4 x Vibration\_im


**TECHNICAL SPECIFICATIONS**

Name	ECO ELYO-13	ECO ELYO-15	ECO ELYO-20	ECO ELYO-20T	ECO ELYO-24	ECO ELYO-24T	ECO ELYO-30	ECO ELYO-30T
Product Code	76660	76661	76662	77251	77252	77253	77254	77255
Unit Price EURO	€2,300	€2,750	€3,500	€4,600	€5,000	€5,500	€5,150	€5,600
EN 17645 Rating	A	A	A	A	A	A	A	A
EN 17645 SCOP	9.6	7.7	8.5	8.1	8.8	8.8	8.6	8.6
Recommended flow rate (m <sup>3</sup> /h)	5	6	7	7	8	8	11	11
Electrical power supply	220-240 V / 1 / 50-60 Hz	220-240 V / 1 / 50-60 Hz	220-240 V / 1 / 50-60 Hz	380-400 V / 3 / 50-60 Hz	220-240 V / 1 / 50-60 Hz	380-400 V / 3 / 50-60 Hz	220-240 V / 1 / 50-60 Hz	380-400 V / 3 / 50-60 Hz
Nominal operating power (A)	8.4	10.7	14	6	17	7.4	23	10
Maximum operating power (A)	13	16	18.25	7.9	21.7	9.4	30	13
Recommended power cable cross-sectionmm <sup>2</sup> **	3 x 2.5	3 x 4	3 x 4	5x2.5	3 x 4	5 x 2.5	3 x 6	5 x 4
So utucu ak1_kan	R32	R32	R32	R32	R32	R32	R32	R32
So utucu ak1_kan miktar1 (kg)	0.6	0.7	1	1	1,2	1,2	1.5	1.5
Acoustic power (max.-min.) (dBA)**	64 - 51	68 - 55	70 - 57	70-57	71-59	71-59	75-63	75-63
Acoustic pressure 10m (max.-min) (dBA)**	33 - 20	36 - 24	39 - 26	39-26	40-29	40-29	42-33	42-33

**HEATING PERFORMANCE**

AIR 26°C / WATER 26°C / HUMIDITY 80%

Power (max-min) (kW)	13 - 2.4	15 - 2.5	20 - 7.6	20 - 7.6	24 - 6.8	24 - 6.8	31 - 9.3	31 - 9.3
Input power (max-min) (kW)	2 - 0.1	2.5 - 0.1	3.6 - 0.6	3.6 - 0.6	4.4 - 0.5	4.4 - 0.5	5.6 - 0.7	5.6 - 0.7
RUBBISH	6.5 - 16.4	6 - 16.3	5.5 - 12.3	5.5 - 12.3	5.4 - 13.7	5.4 - 13.7	5.5 - 13.3	5.5 - 13.3

AIR 15°C / WATER 26°C / HUMIDITY 70%

Power (max-min) (kW)	9 - 1.7	11 - 1.9	15 - 5.4	15 - 5.4	18 - 5	18 - 5	24 - 6.3	24 - 6.3
Input power (max-min) (kW)	1.9 - 0.2	2.3 - 0.2	3.2 - 0.7	3.2 - 0.7	4 - 0.6	4 - 0.63	5.3 - 0.8	5.3 - 0.82
RUBBISH	4.8 - 7.8	4.8 - 7.7	4.6 - 7.5	4.6 - 7.5	4.5 - 7.9	4.5 - 7.9	4.5 - 7.7	4.5 - 7.7

**DIMENSIONS AND WEIGHT**

Product Dimension <sup>1</sup> (Length x Height x Depth)	831 x 654 x 393mm	914 x 654 x 393mm	1111 x 754 x 413mm	1111 x 754 x 413mm	1141 x 854 x 545mm	1141 x 854 x 545mm	1141 x 854 x 545mm	1141 x 854 x 545mm
product weight (kg)	46kg	52.5 kg	66kg	70.5 kg	86kg	86.5 kg	100.5 kg	99kg

# EXCELLIUM INVERTER

Energy saving and efficiency for all types of pools.



**5 YEAR**  
COMPRESSOR  
GUARANTEE

**7 YEAR**  
TITANIUM  
EXCHANGER  
GARANTII151

### Sustainability

Aerothermal heating is a technology that uses heat from the environment, a renewable energy source. It is the most efficient system for heating pool water and reducing emissions. When combined with green electricity, it becomes a clean energy source.

### Increased efficiency in temperature control.

Inverter technology maintains temperature with minimal fluctuations. There is no need to restart the entire system at full power, which creates extra startup costs.

### Energy efficiency

This 1s1 pump can deliver a COP (coefficient of performance) of 4.8 by using the heat of the natural air at 15 degrees outside temperature; this means that it produces 4.8 kW of energy heat for every unit of energy consumed.

### Silence and Endurance

The Excellium pool pump 1s1 reduces noise to 41 dB(A) thanks to Inverter technology in the compressor and fans. Furthermore, because it doesn't need to operate at full speed, there is less wear and tear on the parts, extending their service life.

### Plug and Play Solution

Its compact size and ease of installation offer a wide range of areas and applications into which it can be integrated. Furthermore, because it contains a titanium heat exchanger, it is compatible with all types of water treatment processes.

### Cost effectiveness and savings.

The consumption system adapts to your needs. Inverter technology provides the right amount of energy needed at any given time. Electricity consumption is significantly reduced, which is reflected in your bills.

### Year 1, 365 days of swimming season

It is a heat pump that can be used all year round. It can heat water in winter even when the outside air temperature is -15°C, and because it is reversible, it can also cool water in summer if needed.

### D1\_ for space or interior

Its elegant design with neutral shapes and concealed screws ensures a perfect fit for any space. Furthermore, the fans are designed to be connected to ventilation ducts if installed in a room or interior space.



"LCD control screen1."

"Multifunctional: Turbo, Smart, and Silent."

"Intuitive control panel: easy to use and understand." Modes: Heating, cooling, and automatic.

exhaust air duct1 vertical axial fan for ba lant1

Automatic defrosting by reversing the cycle.

Tam Inverboost Inverter Technology

Vibration dampers, pipettes, drainage pipes, and water connections for stability.

high within 1

high-performance compressor  
It is located.



Intuitive and programming1 Easy control panel

Easy to carry and for optimum installation easy-to-grip holes



D1\_ location high pressure indicators

Compact and elegant design, a wide range area with a surface ventilation

## EXCELLIUM INVERTER

Energy saving and efficiency for all types of pools.

### TECHNICAL SPECIFICATIONS

Model		EXC INV 30	EXC INV 45	EXC INV 60	EXC INV 90	EXC INV 130
Product Code		75397	75398	75399	75400	75401
Unit Price EURO		16,000.00	19,000.00	30,000.00	38,500.00	65,000.00
Power supply	V/Ph/Hz	380-415/3/50				
Nominal operating power	A	14.4	16.5	28.0	34.5	53
Recommended water flow rate	m <sup>3</sup> /h	20-28	26-35	37-45	56-70	80-95
Hydraulic connection	mm	63	63	90	90	90
Pressure loss	kpa	30	32	35	38	46
Compressor say1s1		2	2	2	2	2
Compressor brand1		Mitsubishi				
So utucu ak1_kan		R410A				
Sa utucu ak1_kan miktar1	kg	5.3	6	11	14	19
Noise level 10m	dB(A)	40	42	43	44	48
Sound level 1m	dB(A)	41-58	43-62	44-62	46-65	50-68

### HEATING PERFORMANCE

Weather 28 <sup>o</sup> C / Water 28 <sup>o</sup> C / Humidity 80%						
C1k1_power	kW	45	60	85	130	185
RUBBISH		5,6	5,6	5.8	5.9	5.9
SMART power	kW	36	52	68	105	150
SMART POPS		10.3	10.4	10.5	10.5	10.5
Input power	kW	1.63-8.03	2.62-10.71	2.85-14.66	5.24-22	6.27-33.1
Air 15 <sup>o</sup> C / Water 26 <sup>o</sup> C / Humidity 70%						
C1k1_power	kW	30	45	60	95	130
RUBBISH		4.5	4.5	4.8	4.8	4.7
SMART power	kW	24	36	48	75	104
SMART POPS		7.4	7.5	7.9	7.9	7.8
Input power	kW	1.25-6.67	2.47-10.47	2.38-12.5	5.49-23.26	5.25-27.65
Air temperature -10 <sup>o</sup> C / Water 26 <sup>o</sup> C / Humidity 78%						
C1k1_power	kW	19	25	35	55	75
Input power	kW	6.6	8.7	12.1	19	26.7
RUBBISH		2.9	w2,9	2.9	2.9	2.8

### Cooling PERFORMANCE

Air 30 <sup>o</sup> C / Water 26 <sup>o</sup> C						
C1k1_power	kW	23	30	43	64	92
Input power	kW	6.8	8.8	12.7	18.9	27.9
EER		3,4	3,4	3,4	3,4	3,4
Air 43 <sup>o</sup> C / Water 26 <sup>o</sup> C						
C1k1_power	kW	15	20	28	41	60
Input power	kW	5,6	7.41	10.4	15.2	23.1
EER		2.7	2.7	2.7	2.7	2.6

### DIMENSIONS

Net a 1r11k	kg	290	294	560	590	810
Length	mm	866	866	1958	1958	2080
Height	mm	1604	1604	1699	1699	1830
Width	mm	850	850	968	968	1172


**CHILLER SOLUTIONS**

# Alaska

+ D1\_ compact model for on-site installation.

+ +5°C minimum outdoor air temperature


**EXPLANATION**

- Horizontal air vent
- For outdoor installation
- +5°C minimum outdoor temperature.
- LCD screen.
- Heating priority (filtration pump control).
- Includes Modbus connectivity.
- Made of corrosion-resistant magnesium-coated aluminum.
- Helical fans with directly coupled motors.
- Defrost thermostat in the evaporator for improved performance.
- HP and LP safety pressure switches.
- Water flow switch.
- Capacitor made of copper tube with coated aluminum fins (designed for corrosive environments).
- Sliding compressor with crankcase resistance and deoxidized copper.
- Thermostatic expansion valve.
- Titanium evaporator with PVC shell and G2 titanium coil, conforming to ASTM B 338.99 standard.
- Guaranteed against corrosion.
- Antacid dehydration filter.
- The fan for Alaska 10/15/17 has a vertical air outlet.

**TECHNICAL SPECIFICATIONS**

Name	ALASKA-4	ALASKA-6	ALASKA-8	ALASKA-10	ALASKA-15	ALASKA-17
Product Code	32535-MOB	32536-MOB	32537-MOB	32538-MOB	32540-MOB	32541-MOB
Unit Price EURO	14,000.00	15,500.00	17,500.00	21,000.00	28,000.00	31,300.00
Recommended flow rate (m <sup>3</sup> /h)	6 - 10	6 - 10	7 - 12	7 - 12	10 - 15	10 - 15
Electrical power supply	220-240 V / 1 / 50 Hz	220-240 V / 1 / 50 Hz	380-400 V / 3 / 50 Hz	380-400 V / 3 / 50 Hz	380-400 V / 3 / 50 Hz	380-400 V / 3 / 50 Hz
Air flow rate (m <sup>3</sup> )/h)	3800	4900	5500	9800	11000	11000
refrigerant	R407C	R407C	R407C	R407C	R407C	R407C
Refrigerant Quantity (kg)	2	4.3	4.8	5.5	6.3	6.6

**Cooling PERFORMANCE**
**AIR 27°C / WATER 12°C**

Cooling capacity (kW)	4.4kW	5.7kW	8.9kW	10.7kW	16.6kW	22.7kW
Input power (kW)	1.3kW	2kW	2.8kW	3.6kW	5kW	6.6kW
coolingEER	3.3	2.9	3.1	3	3,4	3.5

**DIMENSIONS AND WEIGHT**

Product Dimensions <sup>1</sup> (Length x Height x Depth)	1311 (+80) x 746 x 512mm	L 1311 (+80) x 746 x 540mm	L 1411 (+80) x 846 x 556mm	L 1372 (+80) x 890 x 650mm	L 1728 (+80) x 866 x 708mm	
product weight (kg)	80kg	92kg	102kg	133kg	167kg	197kg

\* Cable is not included in the package. This is the recommended cross-section for a maximum distance of 20 m.  
 \*\* According to EN60704-1:2010+A11:2012 standard

## CHILLER SOLUTIONS

# Siberia

+ 1. Compact model for indoor installation.

+ +5°C minimum outdoor air temperature


**EXPLANATION**

- Horizontal air vent
- For indoor installation
- +5°C minimum outdoor temperature.
- LCD screen.
- Heating priority (filtration pump control).
- Includes Modbus connectivity.
- Made of aluminum coated with non-corrosive magnesium.
- Centrifugal fan
- Defrost thermostat in the evaporator for improved performance.
- HP and LP safety pressure switches.
- Water flow switch.
- Capacitor made of copper tube with coated aluminum fins (designed for corrosive environments).
- Sliding compressor with crankcase resistance and deoxidized copper.
- Thermostatic expansion valve.
- Titanium evaporator with PVC shell and G2 titanium coil, conforming to ASTM B 338.99 standard.
- Guaranteed against corrosion.
- Acid-preventing dehydration filter

**TECHNICAL SPECIFICATIONS**

Model	SIBERIA-4	SIBERIA-6	SIBERIA-8	SIBERIA-10	SIBERIA-15	SIBERIA-17
Product Code	33301-MOB	33302-MOB	33303-MOB	33304-MOB	33306-MOB	33307-MOB
Unit Price EURO	13,500.00	17,000.00	18,750.00	23,000.00	27,250.00	32,000.00
Recommended flow rate (m <sup>3</sup> /h)	6-10	6-10	7-12	7-12	10-15	10-15
Electrical power supply	220-240 V / 1 / 50 Hz	220-240 V / 1 / 50 Hz	380-400 V / 3 / 50 Hz	380-400 V / 3 / 50 Hz	380-400 V / 3 / 50 Hz	380-400 V / 3 / 50 Hz
Air flow rate (m <sup>3</sup> /h)	3800	4900	5500	9800	11000	11000
COOLING	R407C	R407C	R407C	R407C	R407C	R407C
COOLING	2	4.3	4.8	5.5	6.3	6.6

**COOLING PERFORMANCE**

AIR 27°C / WATER 12°C

	SIBERIA-4	SIBERIA-6	SIBERIA-8	SIBERIA-10	SIBERIA-15	SIBERIA-17
Cooling capacity (kW)	4.4kW	5.7kW	8.9kW	10.7kW	16.6kW	22.7kW
Input power (kW)	1.8kW	2.3kW	3.2kW	4.5kW	7.7kW	9.3kW
Cooling EER	2.4	2.5	2.8	2.4	2.2	2.5

**DIMENSIONS AND WEIGHT**

Product Dimensions <sup>1</sup> (Length x Height x Depth)	L 1311 (+80) x 746 x 550 (+50)mm	L 1311 (+80) x 746 x 700 (+50)mm	L 1411 (+80) x 846 x 750 (+50)mm	L 1372 (+80) x 890 x 655 (+50)mm	L 1728 (+80) x 866 x 655 (+50)mm	
product weight (kg)	97kg	112kg	120kg	188kg	219kg	224kg

<sup>1</sup> Cable is not included in the package. This is the recommended cross-section for a maximum distance of 20 m.

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

# Proheat II Indoor



- "Ability to operate at 0°C minimum outdoor temperature.
- "Digital display, easy-to-use control panel, showing current temperature and setpoint, and alarm messages."
- "Heating priority mode (filter pump control)."
- "Robust, lightweight casing made of corrosion-resistant magnesium-coated aluminum.
- Axial fan."
- "Automatic cooling mode (chiller model)."
- Automatic defrosting.
- "HP & LP safety pressure switch. "
- Water flow switch.
- "G2 Titanium water heat exchanger condensers. Corrosion resistant. Scroll compressor."
- "Thermostatic expansion valve with external balancing unit."
- "High performance in lacquered aluminum fins and inner grooved copper tube, especially for corrosive environments." evaporator coil1.
- "Control of the water purification system."
- Automatic electrical protections.
- "Centrifugal fans can thus be installed in a technical room using unit air duct1. It can be supplied with a power frequency of 60 Hz depending on the request."

## TECHNICAL SPECIFICATIONS

Model		PROHEAT II IND-35	PROHEAT II IND-45	PROHEAT II IND-60	PROHEAT II IND-90	PROHEAT II IND-120
Product code		69649-MOB	69650-MOB	69651-MOB	69652-MOB	69653-MOB
		<b>€31,500</b>	<b>€35,000</b>	<b>€39,000</b>	<b>€45,000</b>	<b>€56,000</b>
Recommended water flow rate	<b>m³/h</b>	12-15	15-25	25-35	30-50	50-70
Hydraulic connection	<b>mm</b>	63		75		
Power supply	<b>V/Ph/Hz</b>	400/3/50				
Nominal operating power	<b>A</b>	14.6	18.6	25.1	29.1	45.6
Maximum operating power	<b>A</b>	23.9	31.4	40.7	62.8	81.4
Recommended cable cross-section*		4	6	10	16	25
Refrigerant		R-410A				
Refrigerant QUANTITY	<b>kg</b>	6	9	12	2 x 7	2 x 9
Fan say1s1		1			2	
Sound level	<b>dBA (d*)</b>	59.2	59.6	60.0	61.1	61.5
	<b>dBA (5m)</b>	55.4	55.8	56.1	56.5	56.6



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## HEATING PERFORMANCE

Model		PROHEAT II IND-35	PROHEAT II IND-45	PROHEAT II IND-60	PROHEAT II IND-90	PROHEAT II IND-120
<b>AIR 25°C / WATER 26°C</b>						
C1k1_ power	<b>(kW)</b>	43.6	44.4	63.5	91.3	125.5
Input power	<b>(kW)</b>	6.7	9.4	11.8	18.7	23.6
RUBBISH		6.5	6.0	6.0	6.0	6.0
<b>AIR 15°C / WATER 26°C</b>						
C1k1_ power	<b>(kW)</b>	34.9	45.0	57.5	90.1	114.9
Input power	<b>(kW)</b>	6.4	8.6	11.0	17.1	22.1
RUBBISH		5.4	5.3	5.2	5.3	5.2
<b>AIR 5°C / WATER 26°C</b>						
C1k1_ power	<b>(kW)</b>	27.4	35.2	45.2	70.5	90.3
Input power	<b>(kW)</b>	6.5	8.5	11.2	16.9	22.3
RUBBISH		4.2	4.2	4.1	4.2	4.1

\* Recommended cross-section for a maximum length of 20 meters. Cable is not included in the package contents. NOTE: d\* = according to UNE-EN 12102/ISO 3744:2010.

HEAT PUMPS

# Proheat II

- Operation at a minimum air temperature of 0°C.
- 2 models: Standard and Chiller.
- Digital display.
- Heating priority mode (filtration pump control).
- A robust, lightweight case made of corrosion-resistant magnesium-coated aluminum.
- Axial fan.
- Automatic cooling mode for chiller models.
- Automatic defrost.
- HP & LP safety pressure switch.
- Water flow1\_key1.
- G2 Titanium water heat exchanger condensers. Corrosion resistant (guaranteed).
- Scroll compressor.
- Thermostatic expansion valve with external balancing unit.
- High-performance evaporator coil with lacquered aluminum fins and inner grooved copper tube, especially suitable for corrosive environments.
- Automatic electrical protection systems1.

FOR THE ELECTION  
CONSULT OUR TECHNICAL TEAM



**TECHNICAL SPECIFICATIONS**

Model		PROHEAT II 35	PROHEAT II 45	PROHEAT II 60	PROHEAT II 90	PROHEAT II 120
Code	STANDARD	65542-MOB €21,000	65543-MOB €26,500	65544-MOB €32,000	65545-MOB €52,000	65546-MOB €53,000
	CHILLER	68245-MOB €31,000	68246-MOB €33,000	68247-MOB €39,000	68248-MOB €58,000	68249-MOB €70,000
So utucu ak1_kan	m <sup>3</sup> /h mm	12-15	15-25	25-35	30-50	50-70
Recommended water flow rate		63			75	
Hydraulic connection	V/Ph/Hz	400/3/50				
Power supply		R-410A				
So utucu ak1_kan miktar1	kg	4	6	9	2 x 6.5	2 x 9
Fan s		1			2	
Sound level	dBA (d*)	66.2	66.2	72.5	71.1	71.1
	dBA (5m)	60.9	60.9	68.4	69.4	69.4

STANDARD						
Nominal operating power	A	13.75	17.1	25.1	33	45.4
Maximum operating power	A	23.4	29.8	39.8	63.6	79.6
Recommended cable cross-section*	mm <sup>2</sup>	4	6	10	16	25

CHILLER						
Nominal operating power	A	13.14	17.1	24.2	31.5	43.7
Maximum operating power	A	23.4	29.8	39.8	63.6	79.6
Recommended cable cross-section*	mm <sup>2</sup>	4	6	10	16	25

**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						
Power of C1k1 (kW)	(kW)	36.2	44.4	63.5	91.3	125.5
Input power (kW)	(kW)	6.4	8.2	11.9	17.0	24.3
RUBBISH		5.7	5.4	5.3	5.4	5.2
AIR 15°C / WATER 26°C						
Power of C1k1 (kW)	(kW)	30.5	39.7	56.8	80.2	110.5
Input power (kW)	(kW)	6.2	8.1	11.5	16.8	23.9
RUBBISH		4.9	4.9	4.9	4.8	4.6
AIR 5°C / WATER 26°C						
Power of C1k1 (kW)	(kW)	23.2	30.0	41.3	61.0	80.1
Input power (kW)	(kW)	6.0	7.9	10.7	16.2	22.7
RUBBISH		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 / WATER 26°C						
Power of C1k1 (kW)	(kW)	42.3	51.0	72.0	104.0	140.0
Input power (kW)	(kW)	7.0	8.4	12.0	17.3	24.4
		6.0	6.1	6.0	6.0	5.7
AIR 43°C / WATER 32°C						
Power of C1k1 (kW)	(kW)	29.1	37.0	49.5	74.0	99.0
Input power (kW)	(kW)	9.4	11.9	15.6	24.5	31.2
		3.1	3.1	3.2	3.0	3.2

\* Recommended cross-section for a maximum length of 20 meters. Cable is not included in the package contents. NOTE: d\* = according to UNE-EN 12102/ISO 3744:2010.

