



Pahlén – Swedish design and manufacture since 1967

We make the difference!

# Pahlén Electric Heaters





## Compact 3-18kW

Supplied with a thermostat and overheating cut out. A flow switch or pressure switch protects the heating element from damage if the flow to the heater is insufficient.

These electric heaters are available in both titanium/Nic-Tech and acid proof stainless steel AISI 316L/Incoloy 825. All compact electric heaters are delivered with a 2" heating element.

Max. pressure: 4 bar. Suitable for private pools up to 100 m<sup>3</sup>

### Features

- Body and pipework of acid proof stainless steel AISI 316L Heating elements of Incoloy 825
- Selected models with body made of titanium and Nic-Tech treated heating elements
- Equipped with thermostat, overheating cut out and flow switch
- Small and compact
- Adjustable brackets of acid proof stainless steel
- Connection 1 1/2"

Technical data	With flow switch	With pressure switch
Max temperature	60°C	60°C
Max pressure	2.5 bar	4 bar
Min. flow 3-9kW	85 l/min	20 l/min
Min. flow 12-18kW	85 l/min	40 l/min

# Compact 3-18kW

## With pressure switch. Max 4 bar

Unipolar thermostat 0-45°C, pressure switch, tripolar high limit control 60°C

Item no.	Type	kW	Ampere 3-phase		kg
			230V	400V	
13982206	13P60	6.0	15	9	2.8
13982209	13P90	9.0	23	14	3.2

Unipolar thermostat 0-45°C, pressure switch, unipolar high limit control 60°C

13982403	11P30	3.0	8	5	2.8
13982406	11P60	6.0	15	9	2.8
13982409	11P90	9.0	23	14	3.2
13982412	11P120	12.0	31	18	3.2
13982415	11P150	15.0	38	22	3.2
13982418	11P180	18.0	46	27	3.2

## With flow switch. Max 2.5 bar

Unipolar thermostat 0-45°C, flow switch, tripolar high limit control 60°C

Item no.	Type	kW	Ampere 3-phase		kg
			230V	400V	
13981203	13F30	3.0	8	5	3.1
13981206	13F60	6.0	15	9	3.1
13981209	13F60	9.0	23	14	3.1

Unipolar high limit control 60°C, flow switch

13981306	01F60	6.0	15	9	2.9
13981309	01F90	9.0	23	14	3.3
13981312	01F120	12.0	31	18	3.3
13981315	01F150	15.0	38	22	3.3
13981318	01F180	18.0	46	27	3.3

## With flow switch. Max 2.5 bar

Unipolar thermostat 0-45°C, flow switch, unipolar high limit control 60°C

Item no.	Type	kW	Ampere 3-phase		kg
			230V	400V	
13981403*	11F30*	3.0	8	5	2.4
13981406*	11F60*	6.0	15	9	2.4
13981409*	11F90*	9.0	23	14	2.7
13981412*	11F120*	12.0	31	18	2.7
13981415*	11F150*	15.0	38	22	2.7
13981418*	11F180*	18.0	46	27	2.7

Unipolar high limit control 60°C, flow switch

13981506	3F30	6.0	15	9	2.9
13981509	3F90	9.0	23	14	3.3

\*Available with outer jacket made of titanium and Nic-Tech treated heating element. These heaters are designed for pools with very aggressive water, large quantities of chlorides and where there is a high risk for corrosion, e.g. in pools with salt water.



# Aqua compact 3-18kW

Electric heater made of thermoplastic for extra strength. Heating element made of Incoloy 825 or titanium for extra safety in installations where there is a high risk of corrosion, e.g. salt water pools.

Supplied with a thermostat for adjusting pool temperature as well as overheating cut out and flow switch.

Minimum flow 90 l/min. Max. pressure: 2.5 bar. Suitable for private pools up to 100 m<sup>3</sup>

## Features

- Electric heater made of fiberglass reinforced thermoplastic
- Housing of thermoplastic
- Horizontal installation
- Heating elements of Incoloy 825 or titanium
- Equipped with thermostat, overheating cutout and flow switch
- Slip connections for bonding of Ø 50 mm pipes

## Technical data

Heating element Incoloy 825			Heating element titanium			Ampere 3-phase		
Item no.	Type	kg	Item no.	Type	kg	kW	230V 3~	400V 3~
141600	AC30	1.7	141600T	AC30T	1.7	3.0	8	5
141601	AC60	1.7	141601T	AC60T	1.7	6.0	15	9
141602	AC90	1.7	141602T	AC90T	1.7	9.0	23	14
141603	AC120	2.2	141603T	AC120T	2.1	12.0	31	18
141604	AC150	2.2	141604T	AC150T	2.1	15.0	38	22
141605	AC180	2.2	141605T	AC180T	2.1	18.0	46	27

Also available with connections 1 ½" pipe add a "A" after the item no. or 1 ½" threaded add a "B" after the item no.



## Aqua spa 1.5-3.0kW

A small, compact heater for spa pools and small swimming pools. It is available with capacities from 1.5 to 3 kW. The heater is made of thermoplastic and has a heating element made of Incoloy 825. Adjustable thermostat, overheating cut out and flow switch are standard.

Minimum flow 90 l/min. Suitable for spa, hot tubs and smaller pools.

### Features

- Three capacities: 1.5kW, 2kW and 3kW
- Housing of thermoplastic
- Minimal dimensions
- Heating element of Incoloy 825
- Equipped with thermostat 0-45°C
- Overheating cut out and flow switch
- Slip connections for bonding of Ø 50 mm pipes

### Technical data Spa heater 1-phase 230V

Item no.	Type	kW	Length mm	Pipe connection	Amp.	kg
141650	AS15	1.5	200	Ø 50 mm	7	1.0
141651	AS20	2.0	200	Ø 50 mm	9	1.0
141652	AS30	3.0	200	Ø 50 mm	13	1.0

Also available with connections 1 ½" pipe add a "A" after the item no.  
or 1 ½" threaded add a "B" after the item no.



## Aqua HL 3-15kW

Aqua HL has a digital control, where the desired pool temperature can easily be set and the current pool temperature is shown in the LED display. In addition to an overheating protection and a flow switch, the heater has built-in contactors, that simplifies the connection of the heater.

Made of thermoplastic with heating element made of Incoloy 825 or titanium.

Suitable for private pools up to 100 m<sup>3</sup>. Minimum flow 90 l/min.

### Features

- Capacity range 3-15kW
- Aqua HL comes with contactors and electronics
- Digital control and display
- Made of reinforced thermoplastic
- Horizontal installation
- Heating elements of Incoloy 825 or titanium
- Equipped with overheating limit control and flow switch
- Dual built-in contactors as per electrical safety standards
- Slip connections for bonding of Ø 50 mm pipes

### Technical data Spa heater 1-phase 230V

Item no.	Type	kW	Length mm	Pipe connection	Amp.	kg
141650	AS15	1.5	200	Ø 50 mm	7	1.0
141651	AS20	2.0	200	Ø 50 mm	9	1.0
141652	AS30	3.0	200	Ø 50 mm	13	1.0

Also available with connections 1 ½" pipe add a "A" after the item no.  
or 1 ½" threaded add a "B" after the item no.



## Aqua HL 3-15kW

Air heater is for instance used for air massage in spa pools. The incoming air is heated and mixed with the water. The heater has a power output of 1.5 kW and is made of acid proof stainless steel EN 1.4404.

Supplied as standard with a thermostat and overheating cut out.

1-phase 230V. Suitable for all types of hot tubs and spas.

### Features

- Made of acid proof stainless steel EN 1.4404
- Minimal dimensions
- Adjustable thermostat 30-80°C
- Heating element acid proof stainless steel EN 1.4404
- Overheating cut out
- Ø 51 mm pipes

### Tekniska data

Item no.	kW	Length mm	Pipe connection	Amp.	kg
12700	1.5	360	Ø 51 mm	7	2.5





# MidiHeat 18-72kW

MidiHeat is manufactured from materials of the highest quality. The casing made of powder coated zinc sheet not only gives the product a very stable construction, it also makes the product highly resistant against corrosion.

MidiHeat has a temperature range of 8-45°C. Heating elements of titanium do not only make the heating highly effective, it also makes the heating element fully corrosion free.

Technical data for MidiHeat Digital EHD 380-415V/230V

Capacity	Item no.	3~400V	3~415V	Capacity	3~230V	Min. flow 170 l/min	Max. flow 300 l/min	Max press. 2 bar	Max. tryck 2 bar
18kW = 2x9kW	1511018T	18kW 26A	19,5kW 27A	1511218T	18kW 45A	•	•	•	•
24kW = 2x12kW	1511024T	24kW 35A	26kW 36A	1511224T	24kW 61A	•	•	•	•
30kW = 2x15kW	1511030T	30kW 43A	32kW 45A	1511230T	30kW 74A	•	•	•	•
36kW = 3x12kW	1511036T	36kW 52A	39kW 54A	1511236T	36kW 90A	•	•	•	•
45kW = 3x15kW	1511045T	45kW 66A	49kW 69A	1511245T	45kW 114A	•	•	•	•
60kW = 4x15kW	1511060T	60kW 87A	65kW 90A	1511260T	60kW 151A	•	•	•	•
72kW = 4x18kW	1511072T	72kW 104A	78kW 108A	-	-	•	•	•	•

Technical data MidiHeat Analog EHA 380 - 415V/230V

Capacity	Item no.	3~400V	3~415V	Capacity	3~230V	Min. flow 170 l/min	Max. flow 300 l/min	Max press. 2 bar	Max. tryck 2 bar
18kW = 2x9kW	1512018T	18kW 26A	19,5kW 27A	1512218T	18kW 45A	•	•	•	•
24kW = 2x12kW	1512024T	24kW 35A	26kW 36A	1512224T	24kW 61A	•	•	•	•
30kW = 2x15kW	1512030T	30kW 43A	32kW 45A	1512230T	30kW 74A	•	•	•	•
36kW = 3x12kW	1512036T	36kW 52A	39kW 54A	1512236T	36kW 90A	•	•	•	•
45kW = 3x15kW	1512045T	45kW 66A	49kW 69A	1512245T	45kW 114A	•	•	•	•
60kW = 4x15kW	1512060T	60kW 87A	65kW 90A	1512260T	60kW 151A	•	•	•	•
72kW = 4x18kW	1512072T	72kW 104A	78kW 108A	-	-	•	•	•	•

## Features

- MidiHeat has two built-in contactors for each element
- Capacity 18-72kW
- Connect up to nine heaters and control them with a master unit
- MidiHeat is made of powder coated zinc sheet. Heat barrel in glass-fiber reinforced polypropylene
- Heating elements of titanium
- Equipped with overheating limit control and flow switch
- Third-party tested and certified