

Aqua HL line

Pahlén digital electric heater 3-15kW for fast and flexible heating of swimming pools



- **Digital control**
- **Easy to install**
- **Overheating protection**
- **Flow switch**
- **Two contactors**
- **Heating elements of Incoloy 825 or titanium**
- **L flow and 50 mm (1½") pipe**
- **Certified to meet safety standards**

Pahlén®
swimming pool equipment

Aqua HL

Pahlén have developed a series of electric heaters with digital control, where the desired pool temperature can easily be set and the current pool temperature is shown in the LED display.

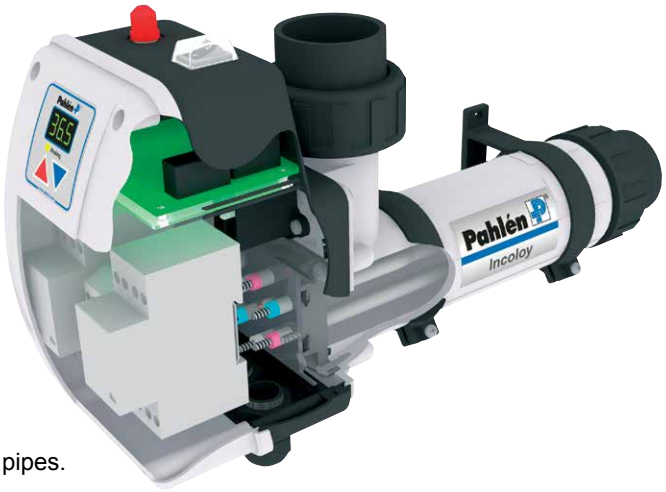
In addition to an overheating protection and a flow switch, the heater has built-in contactors, that simplifies the connection of the heater.

The heating element is made of Incoloy 825 or titanium ASTM grade 1 and the casing of the heater is made of glassfibre reinforced polypropylene.

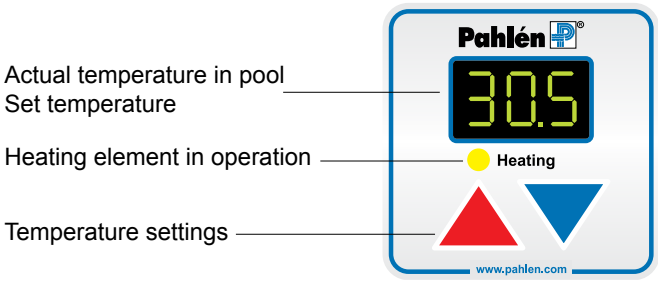
The Aqua HL line 400/415V 3-phase are available with output sizes from 3-15kW. 230V 1-phase 3 and 6kW. 230V 3, 6 and 9kW. (see table below.)

All heaters are supplied with union couplings for bonding to Ø 50 mm pipes.

The minimun flow is 90 l/min. Max. pressure: 2 bar.

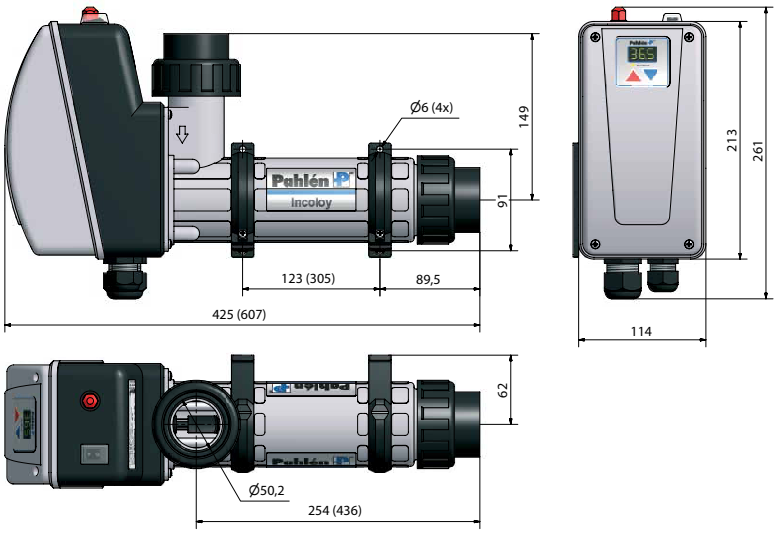






Technical data

Item no.	400V 3-phase	415V 3-phase
141800	3kW 5A	3.5kW 5A
141801	6kW 9A	6.5kW 9A
141802	9kW 13A	10kW 14A
141803	12kW 18A	13kW 18A
141804	15kW 22A	16.2kW 23A
	230V 1-phase	**230V 3-phase**
141820	3kW 13A	-
141821	6kW 26A	-
141830	-	3kW 8A
141831	-	6kW 15A
141832	-	9kW 23A



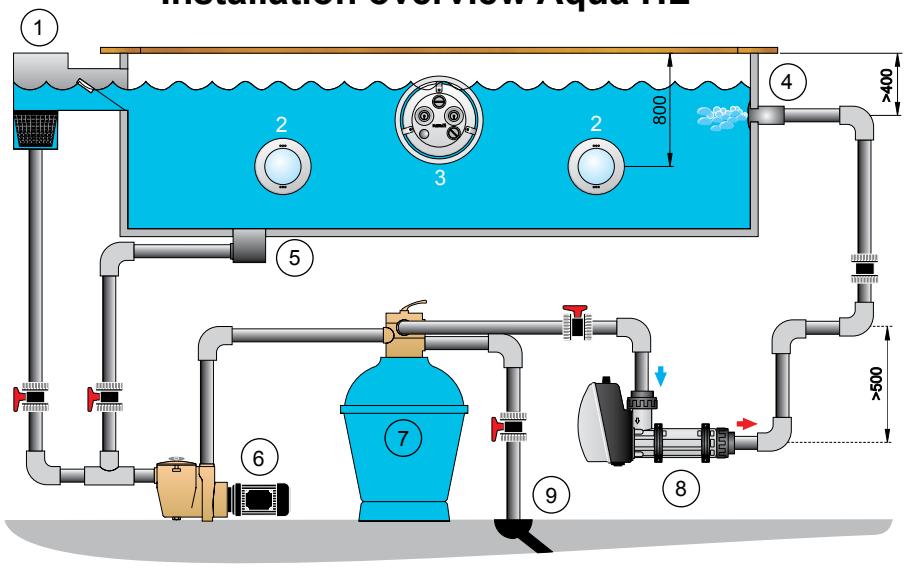
For heaters with titanium coil add T after the item no. Example: Item no. 141800T.

Aqua HL - features

- **Aqua HL is complete with contactors and electronics -** Easy to install, just connect the main cable.
- **Capacity range 3-15kW -** Fast and flexible heating of swimming pools.
- **Digital control and display -** Easy to set and operate.
- **New modern design and material. Aqua HL is made of glassfibre reinforced polypropylene with a high percentage of glass ad mixture (15-30%) -** Strong and corrosion resistant.
- **To avoid air pockets Aqua HL is constructed to be installed in a horizontal position -** Eliminates air pockets and burnt elements.
- **As a standard the heater is equipped with a heating element of Incoloy 825. Heating elements made of titanium are available as an option -** For increased corrosion protection.
- **Equipped with overheating limit control and flow switch -** Double safety if no water flow. Prevents damaging of the heating element.
- **Aqua HL is certified by Semko and follows the electric safety standard EN 60335-1:2002+A11+A1+A12+A2.**
- **The heater meets future electric safety standards -** The heating element has two contactors 40 Amp.
- **IP44 (International Protection Rating)**

1. Skimmer
2. Light
3. Jet Swim
4. Inlet
5. Main drain
6. Pump
7. Filter
8. Aqua HL
9. Drain

Installation overview Aqua HL



ΔT=18 (10°C - 28°C)

Volume / Hours	25 m³	45 m³	70 m³	100 m³
24	22kW	39kW	61kW	87kW
48	11kW	20kW	30kW	44kW
72	7kW	13kW	20kW	29kW
96	5kW	10kW	15kW	22kW
110	5kW	8kW	13kW	19kW

Volume= length x width x depth of your pool e.g. 3 x 6 x 1,4m = 25m³

Example of heat requirement

The amount of kW it takes to heat up your pool from 10 to 28°C based on volume and time.

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swimming pool equipment



Pahlén AB
Box 728, SE-194 27 Upplands Väsby, Sweden
e-mail: info@pahlen.se, www.pahlen.com

www.pahlen.com

Art.nr. 99985059 201409

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