



# AquaPool

## Swimming pool heating system

### Application

Swimming pool water heating. Simple, strong, compact and highly reliable, the AquaPool is designed to efficiently reheat and maintain temperature of water in swimming pools of all dimensions and capacities from primary heat source such as boiler, solar installation, heat pump etc.

### Standard design

Complete packaged module including:

Stainless steel or titanium plate heat exchanger, for operation with sea water or slightly corrosive water (balneo-therapy, thermal spring water), EPDM clip-on gaskets.

#### Primary circuit:

- Single headed pump, electrically wired 230 V / 1PH/ 50 Hz, with built-in winding overload protector
- Isolation valves on primary inlet and outlet
- Non return valve on primary pump outlet
- Black steel pipe work, epoxy painting coated

#### Secondary circuit:

- PVC pocket for electronic controller temperature sensor
- 2 PVC three-piece connectors for swimming pool circuit piping

#### Electrical panel: IP 55 plastic control box including:

- Electronic controller, with front mounted display
- On/off switch
- Power on light
- Terminal block

AquaPool is fully assembled, electrically wired, pressure tested and calibrated at the factory prior to dispatch.



AquaPool

### Installation and operating principle

Installation is simple and easy, since only a required connection of:

- Primary circuit to heating pipe work, through a circuit separation bottle
- Secondary circuit to swimming pool filtration circuit
- Electrical supply 230V/1Ph/50 Hz + E to control box.

#### Operating principle:

- The electronic thermostat sensor controls the swimming pool inlet water temperature
- The primary pump is switched on and off according to the controller demand
- On/off control

All components are easily accessible and removable, resulting in very low operating costs.

## Technical data

### ELECTRICAL SUPPLY

– Power supply 230 V / 1 Ph / 50 Hz + E

The AquaPool electrical supply must be protected by a circuit breaker or fuses (90 W – 0,4 A) and electrical cable properly sized must be used in compliance with electrical standards.

### OPERATING LIMITS

#### Primary circuit

– Max. working temperature 110°C  
– Max. service pressure 10 bar

#### Swimming pool circuit

– Max. working temperature 60°C  
– Max. service pressure 6 bar

### COMPLIANCE

– PED: 97/23 CE - article 3.3  
– Electrical: 73/23 CE

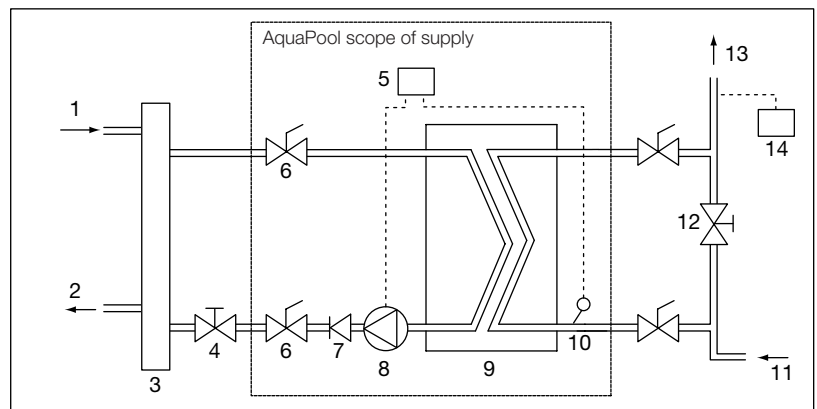
## Performances

The chart below gives the heating capacity and hydraulic features of the AquaPool, depending on the primary inlet temperature.

Model	90°C					80°C					70°C					55°C				
	Heat capacity kW	Primary		Pool		Heat capacity kW	Primary		Pool		Heat capacity kW	Primary		Pool		Heat capacity kW	Primary		Pool	
		P flow rate m³/h	Ext. head kPa	S flow rate m³/h	Pressure drop kPa		P flow rate m³/h	Ext. head kPa	S flow rate m³/h	Pressure drop kPa		P flow rate m³/h	Ext. head kPa	S flow rate m³/h	Pressure drop kPa		P flow rate m³/h	Ext. head kPa	S flow rate m³/h	Pressure drop kPa
AquaPool-7	30	0.5	44	1.3	41	30	0.9	24	1.3	41	30	1.2	6	1.3	41	17	1.2	6	0.7	18
AquaPool-11	52	0.9	41	2.2	43	51	1.4	25	2.2	41	50	1.8	5	2.2	41	30	1.8	6	1.3	19
AquaPool-17	82	1.3	36	3.5	43	79	1.9	19	3.4	40	76	2.5	6	3.3	38	46	2.5	5	2.0	18
AquaPool-23	111	1.7	30	4.8	43	104	2.3	18	4.5	38	96	2.9	6	4.1	33	58	2.9	5	2.5	16
AquaPool-29	140	2.2	26	6.0	43	125	2.7	18	5.4	34	111	3.2	6	4.8	28	69	3.2	6	3.0	14
AquaPool-35	166	2.6	22	7.1	42	144	3.0	15	6.2	32	123	3.5	5	5.3	27	78	3.5	5	3.4	12
AquaPool-41	194	3.1	16	8.3	42	164	3.4	11	7.1	30	134	3.6	6	5.8	21	84	3.6	6	3.6	11
AquaPool-49	222	3.5	11	9.5	41	184	3.6	11	7.9	28	146	3.8	5	6.3	19	96	3.8	5	4.1	9
AquaPool-55	246	3.8	5	10.6	41	199	3.8	5	8.6	27	151	3.8	5	6.5	16					

Secondary conditions: 27 / 47°C ( 20-40°C if Primary at 55°C) Available Pressure Drop at Primary Pump External Head Secondary Pressure Drop at Nominal Flow Rate

- 1 From the primary heat source
- 2 To the primary heat source
- 3 Circuit separation bottle
- 4 Manual flow adjust valve
- 5 Single stage electronic thermostat
- 6 Manual isolation valves
- 7 Non return valve
- 8 Primary pump
- 9 Heat exchanger
- 10 PTC 1000 temperature sensor
- 11 From the swimming pool
- 12 Manual flow adjustment valve
- 13 To the swimming pool
- 14 Water treatment



PCT00048EN 0801

Alfa Laval reserves the right to change specifications without prior notification.

### How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at [www.alfalaval.com](http://www.alfalaval.com)