

Electric heater

Item no 141650, 141651, 141652

Suitable for small pools and spas.

The heater body is made of plastic and the heating element is made of Incoloy 825, a high-alloy steel with excellent characteristics against aggressive water.

Connections are of PVC, inside solvent socket $\varnothing 50\text{mm}$.

Minimum flow is 90 l/min. and maximum flow 300 l/min. Power: 230V single phase.

Pipe connections

The heater may be connected to either the pressure or the suction side of the pool pump and can also be installed directly onto the pump.

Important! The connection box on the heater must always point upwards.

A water level control must be installed in the pool so that the heater can be automatically disconnected at low water level. Max pressure 1 bar.

Install the heater so that it is positioned 200 mm below the normal water level in the pool. Do not install gate valves in the circuit so that the water flow to the heater can be interrupted.

If valves are required, install a check valve on the return side.

Electrical installation

The heater is supplied with an adjustable thermostat in the range 0-45°C, overheating protection to max. 60°C and a flow switch. Connect the heater so that it is controlled over the supply to the pool pump or by a separate contactor, but whichever method is chosen the heater must be controlled via the pool pump. It should not be possible to operate the heater if there is no water circulation.

The heater body should be connected to the earthing system of the pool.

Operation

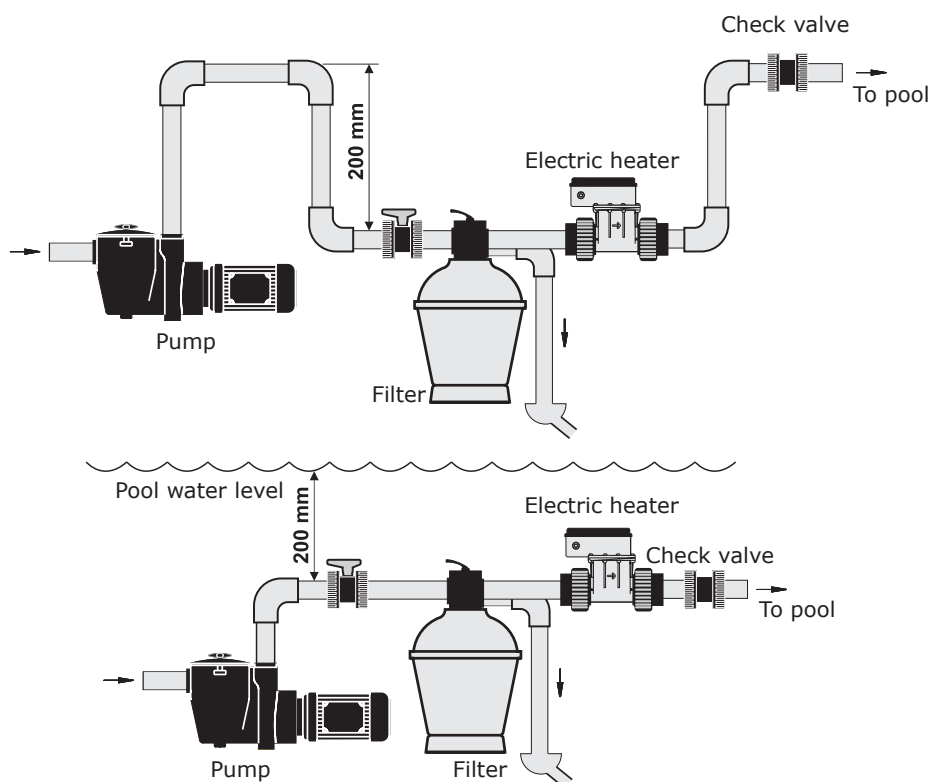
1. Fill the pool to the correct level
2. Start the pool pump
3. When the system is completely empty of air, start the heater and set the thermostat.

The water will now be heated to the desired temperature. If at any time there is a lack of water or poor water circulation, the overheating protection may operate. If this occurs, ascertain and rectify the reason for the occurrence and then reset the circuit by undoing the red nut and then pressing the red button on the heater.

The heater **must not** be used in salt water or in pools where a salt chlorinator is used:

Follow the instructions stated below:

Chlorine content:	max 3 mg/l (ppm)
Chloride (salt) content:	max 150 mg/l
pH-value:	7,2 - 7,8
Alkalinity:	60-120 mg/l (ppm)
Calcium hardness:	200-1000 mg/l (ppm)
Max temperature:	45°C
Max pressure:	1 bar



Diagram

