



# INSTALLATION INSTRUCTIONS



*Change your garden  
into a paradise!*



## 1. AN EXCAVATION

First construct an excavation pit in order to house the swimming pool taking into consideration the depth of the foundation slab. The size of the excavation pit constitutes the diameter of the swimming pool framework increased by 60-80 cm from each side – in order to ensure the proper conveyance of installation and piping works.

The process of swimming pool foundation shall take place on the original ground not on backfill soil. The soil congestion coefficient shall amount to the swimming pool load, which amounts to 1600 kg/m<sup>2</sup>. In case of existence of ground or layer waters in non permissible soils (clay, loam) the bottom layer should be supported, by a well congested thick grain soil of the thickness 20cm as well as additional drainage belt.



## 2. FOUNDATION SLAB

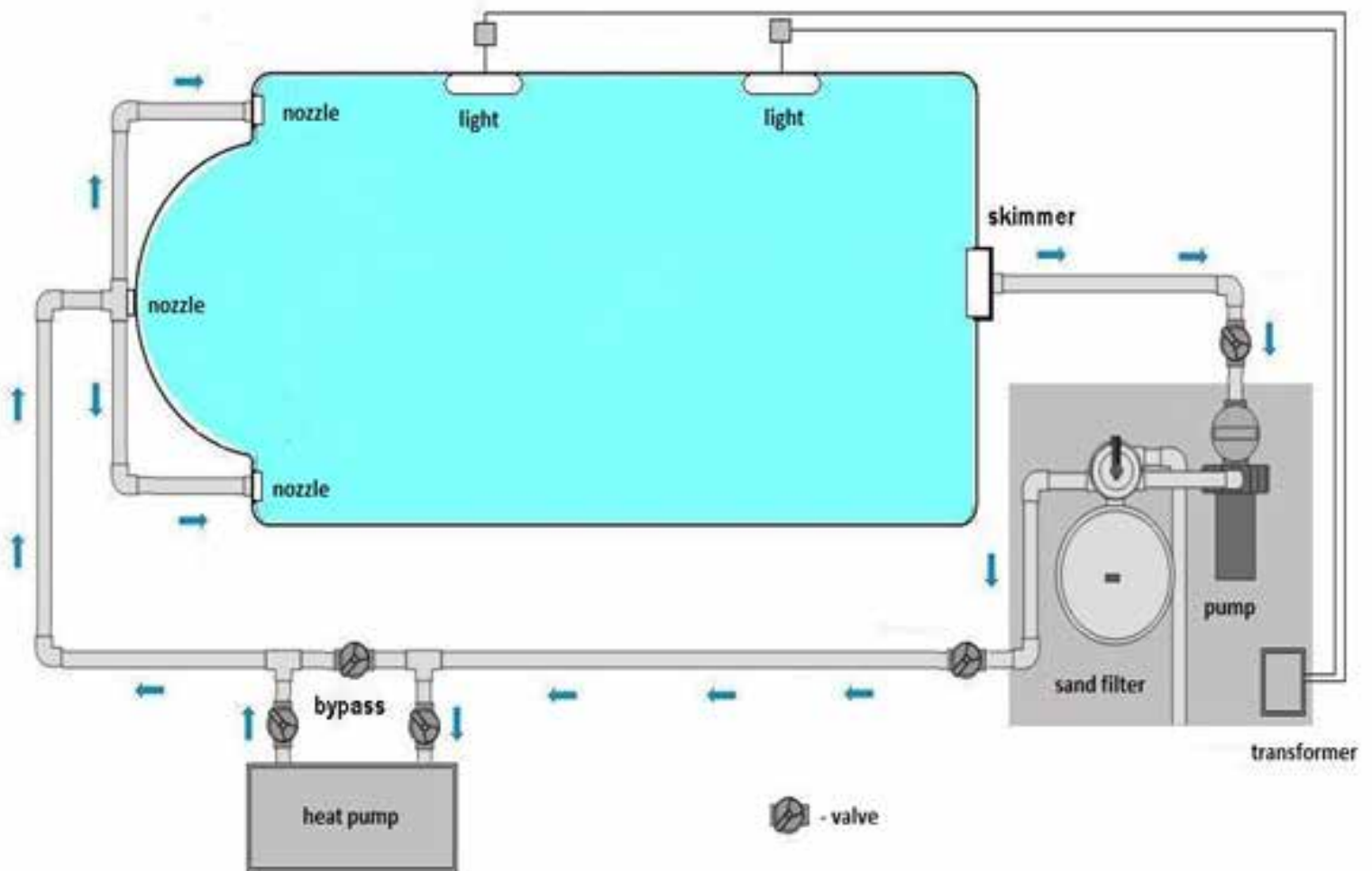
It is recommended to manufacture a bottom layer below the level of ground and surface water deposits/streams. The hardened soil foundation has been engineered to house the reinforced concrete foundation slab of its total thickness amounting to  $h=12\text{cm}$ . The size of the slab is equal to the external upper edge of each swimming pool. Reinforced concrete class B20. The reinforcement is done with application of 8mm diameter ribbed steel bar mesh of the opening size every 20cm. Remember that layer have to be leveled perfectly .



### 3. STYROFOAM LAYER



The foundation slab is a smooth mortar surface, any surface slopes shall not amount to more than 0,5%. All works should be consulted with a construction specialist well acquainted to local ground conditions. The swimming pool is to be placed upon the foundation slab, should it still possesses slight unevenness, the slab should be levelled with a styrofoam layer.



#### 4. THE SCHEMA OF POOL INSTALLATION



## 5. SUPPORT THE STEPS

The steps should be supported with concrete blocks, properly checked for the correctness of their level. The fissure between the steps and concrete blocks should be filled with soft foam or it should be salienated all around. On the performed base plate we put the pool and make final checks on the level and the settings. After that we install the water system.



## 6. DRY CONCRETE FILLING

Pour into the pool about 20cm of water and sprinkle the pool walls with dry concrete proportion 1:4, the thickness about 15-20cm. As shuttering works may be used: fiber boards, gypsum boards, or other available material, which we treat as a lost shuttering work, which remains in the ground. Strew should be dry because wet will cause curvature of the walls. During the strewing, when the strew layer will reach the water level in the pool about 20cm, glaze the strew with water, which will become hard and stiff a wreath around the pool. It is necessary, while strewing the walls, in the middle height of the pool to beat down a strew under pool shelf.

The cycle should be numerously repeated (at the same time controlling the sides of the swimming pool walls making sure that there has been not cleansing) until the whole swimming pool pit is levelled.

**THE CONCRETE MUST NOT BE CONGESTED MECHANICALLY!**

The whole filling as well as a backfill process has the final influence upon its final shape.



## 7. TECHNICAL ROOM SPECIFICATION

### Equipment:

- Ventilation
- vertical discharge into the floor
- Floor painted or covered with ceramic
- Electric Lighting
- Power supply 400V or 230V

### Required:

- Supply of water from the network Issued
- Supply of heating medium
- Waste water from washing of filters for waste water
- Waste water discharges from the pool.