

INSTRUCTION MANUAL

IN-GROUND AND SEMI IN-GROUND  
COMPACT HOUSING



**KEOPS**

**KEFREN**

**IMPORTANT:** The instruction manual that you are holding in your hands contains important information about the safety measures to adopt during installation, start-up and maintenance. Thus, it is extremely important that both the installer and the user read the instructions before beginning setup:

For optimum performance of your in-ground/ semi in-ground compact housing unit, follow the instructions below.

## 1. GENERAL CHARACTERISTICS

Compact housing for a pool, to be installed in-ground or semi in-ground, made up of a housing unit with an injected plastic box and two-piece cover. The back is fixed and the front part can be easily lifted.

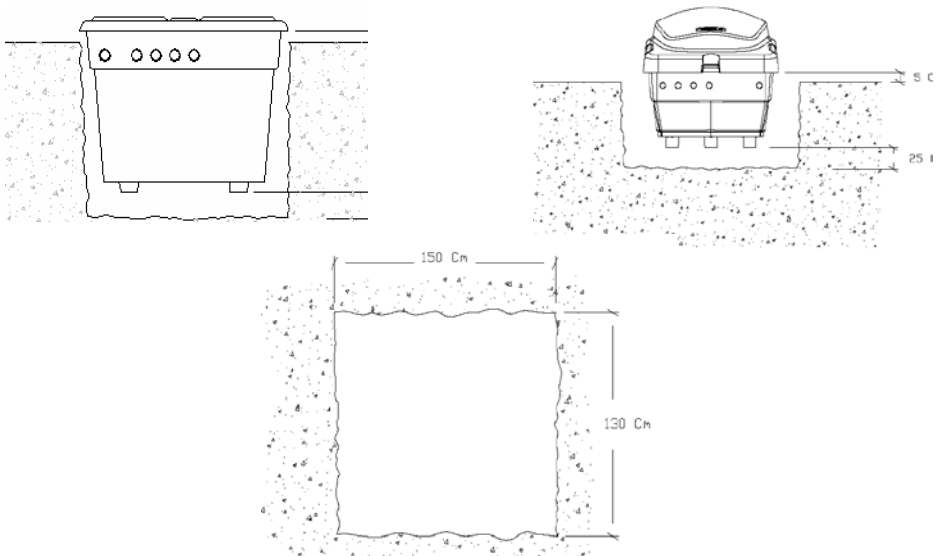
According to the configuration, it houses the equipment for the filtration and recirculation of the water in the pool tank.

## 2. LOCATION

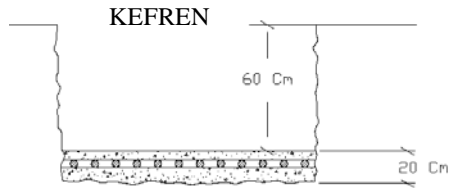
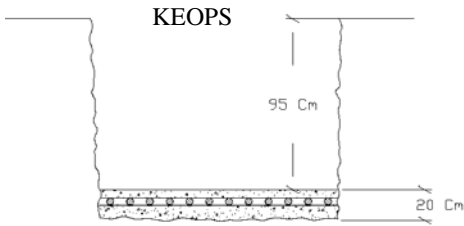
It is advisable to locate the equipment away from the pool, at least 3.5 m. Placing it closer would mean non-compliance with the specific standard RBT ITC-BT-030.

## 3. INSTALLATION

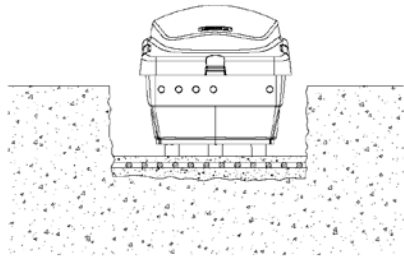
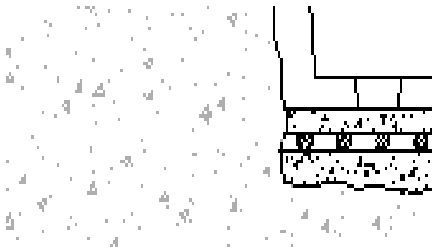
3.1. Do the excavation according to the measurements.



3.2. Make a properly levelled concrete slab.



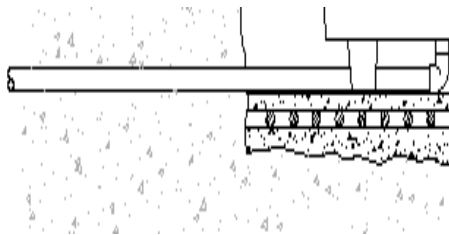
3.3. Position the unit.



3.4. Do the excavation to prepare for laying the intake and output pipes to the pool and the electrical supply.

The intake and output pipes must rest on a bed of sand.

Connect the sump to a general drain with a slight slope.

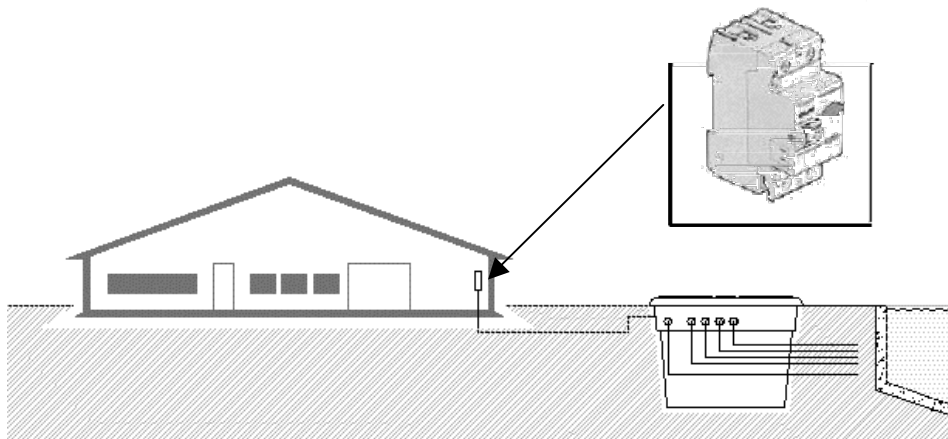


3.5. Perforate the unit on the side where the electrical supply is to enter, with a diameter that matches the cable to be installed. Determine the section of the cable depending on power consumption and drops in voltage.

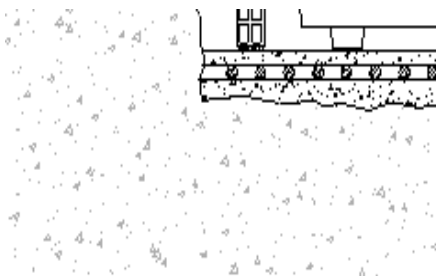
Install a cable gland of the appropriate size for the cable section at the entry.

## IMPORTANT:

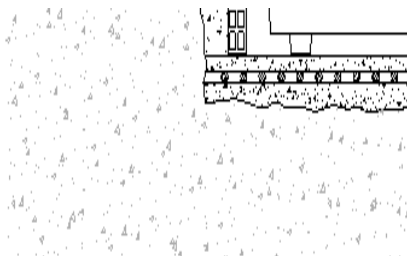
The installation must include a highly sensitive 2 pole differential on the general panel (conforming to RBT ITC-BT-017). The differential is not supplied with the compact housing.



Fill the side of the housing with gravel. In the case of very soft ground, build retaining walls or, in the KEOPS housing, install the inner metal reinforcement (ref. 31105R1000).



Fill with earth, making a slight incline to prevent flooding.



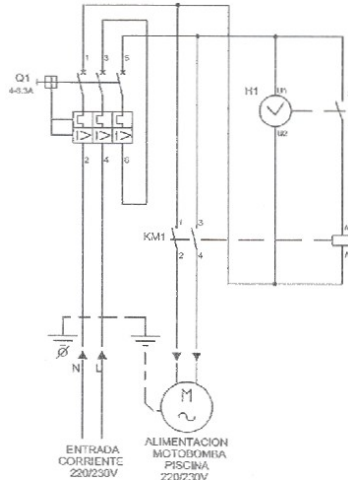


ATTENTION – VERY IMPORTANT

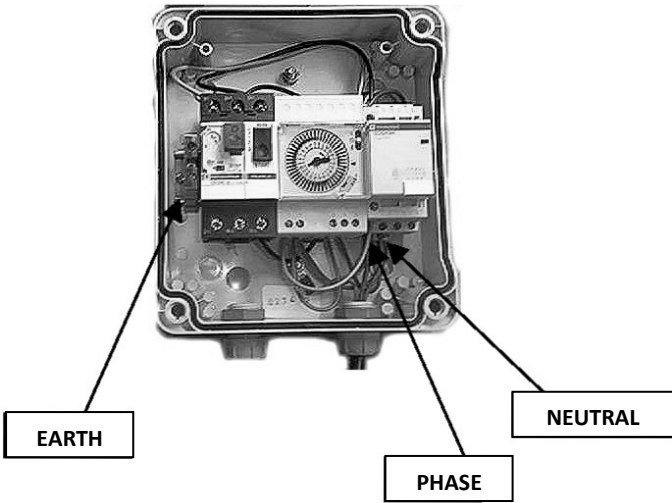
- This equipment cannot be connected to a regular plug.
- This equipment requires proper electrical installation. This must be done by a specialist, following all the standards on electrical safety in force in each country.
- The supply to the unit must always be protected by a highly-sensitive differential.
- An earth connection is required.
- Use a section cable with the appropriate power for the unit and for the distance to the control panel.

# ELECTRICAL CONNECTION (ONLY FOR MODELS WITH ELECTRICAL CONTROL BOX)

For safety reasons, place terminals that are appropriate to the section of the cables on the ends of the cables to be connected. Use cable H07RNF.

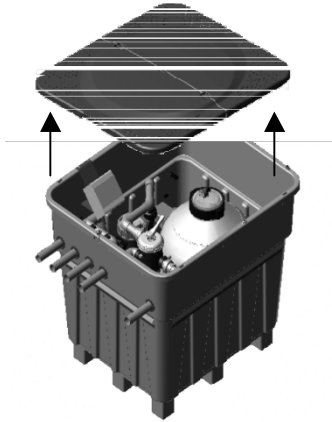


**ATTENTION!**  
CONNECT THE EARTH LEAD-IN WIRE WITH THE MOTOR PUMP EARTH WIRE



## 4. START-UP

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1. Only in the KEOPS housing. Remove the two covers from the housing to begin start-up. Unscrew the screws that attach the cover to the housing, before lifting it.
  2. Open the filter and fill it halfway with water. Protect the diffuser in the interior of the filter so sand does not get into it.
  3. Fill the filter with the appropriate quantity (indicated on the specifications label, or up to 2/3 of the total filter height) of silex sand with a grain size of 0.4 - 0.8.
  4. Assemble the T manometer, the seal, the manometer and the air purge cover. Teflon tape is not necessary, as this point is sealed by the seal. Do not tighten the T of the manometer with any tools; it is enough to do this with the hand.
  5. Clean the remnants of silex from the mouth, cover and casket housing, and close the filter. For more information, please consult the filter manual.
- If the unit is below the water level, you will only need to open the input and output valves and the air vent until the filter and the pump are full of water.
6. Put the valves in the following positions:

|                  |      |
|------------------|------|
| - SKIMMER        | OPEN |
| - SUMP           | OPEN |
| - POOL CLEANER   | OPEN |
| - RETURN         | OPEN |
| - SELECTOR VALVE | WASH |

7. Start up the pump and do a filter wash.

Perform the washing operation until the water comes out clean and clear in the window of the selector valve.

8. Turn off the pump.

Position the selector valve to rinse and run the pump for about 15 seconds.

Stop the pump again and put the selector valve in the filter position.

9. Close the selector valve of the pool cleaner.

10. Connect the pump.

**Note: Any changing of the position of the selector valve must be done with the pump stopped. Otherwise, the filter or the installation could be damaged.**

Replace the cover of the unit, affixing the rear part with the corresponding screws.



#### ATTENTION

IT IS RECOMMENDED THAT YOU USE A LOCK OR PADLOCK SO THAT CHILDREN OR OTHER UNAUTHORISED PERSONS CANNOT ACCESS THE INTERIOR OF THE UNIT

PROGRAMMING THE FILTER. See instructions for the programmer in the interior of the control panel.

ONLY FOR MODELS WITH AN ELECTRICAL CONTROL PANEL.



## 5. USER MANUAL

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### ATTENTION

ALWAYS STOP THE PUMP BEFORE CHANGING THE POSITION OF THE SELECTOR VALVE.

### 5.1. FILTRATION

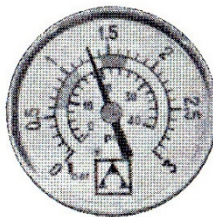
With the pump stopped, put the selector valve handle on FILTER. Start up the pump. Periodically check the manometer during operation, which will indicate the degree of saturation of the filter.

### 5.2. WASH

The solid particles in the pool that are collected by the sump and the skimmers remain in the sand in the filter, which constantly decreases the water flow. Due to this, the pressure increases progressively. When the pressure reaches  $1.3 \text{ kg/cm}^2$ , a WASH will be done (this is an approximation; it depends on the distance between the unit and the pool, its location, etc.).

Proceed as follows:

Put the selector valve in the WASH position and start the pump. Run this for 2 minutes. Always check the window of the selector valve to ensure that this is the correct time, since it depends on the amount of dirt accumulated in the filter.



1.3 kg/cm<sup>2</sup> - 18.5 PSI: This pressure indicates when it is necessary to proceed with a WASH

### 5.3. RINSE

After doing a WASH of the filter and before returning the equipment to filtration, it is advisable to run a RINSE to prevent the first quantity of water that is still cloudy from going directly into the pool. To do this, with the pump stopped, put the selector valve on RINSE. Start up the pump and run it for about a minute. Always check the window of the selector valve to ensure that this is the correct time, since it depends on the amount of dirt accumulated in the filter.

### 5.4. CIRCULATION

When you put the selector valve in this position, the water from the pump will circulate directly to the pool without passing through the filter.

### 5.5. DRAIN

If the pool does not have a drain in the bottom, it can be emptied using the filter pump by putting the valve on DRAIN. To do this, open the valves of the sump and close those of the skimmers and pool cleaner.

### 5.6. LOCKED

This position blocks the entry of water into the filter.

## WARRANTY

All of our products come with a TWO YEAR warranty from the date of delivery. Our warranty includes in-factory repair and replacement or on the after-sale service of defective pieces. The parts replaced or repaired under this warranty will not extend the warranty of the original product, but they will have their own warranty.

For the warranty to be valid, the buyer must have proof of the date of sale and receipt of the product.

For the warranty to be valid, the buyer must strictly follow the manufacturer's instructions included in the documentation that comes with the product, whenever applicable according to the range and model of the product. No warranty covers normal wear and tear due to use of the products.

As for the parts, components and/or disposable materials, it will follow that given in the documentation that comes with the product, where applicable.

The warranty does not cover the following: 1. The product has been misused; 2. The product has been repaired, maintained or handled by an unauthorised person; 3. The product has been repaired or maintained with non-original parts, or 4. The product has been installed or set up incorrectly.

Except where prohibited by legislation, the shipping and return costs of defective materials shall be paid by the buyer. The present warranty does not limit or infringe upon the rights that correspond to consumers as covered by imperative national regulations.

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