

# KRS - RAINWATER HARVESTING SYSTEM SUPERIOR

## Rainharvesting system, boosting, water lifting, distribution of rainwater to the users

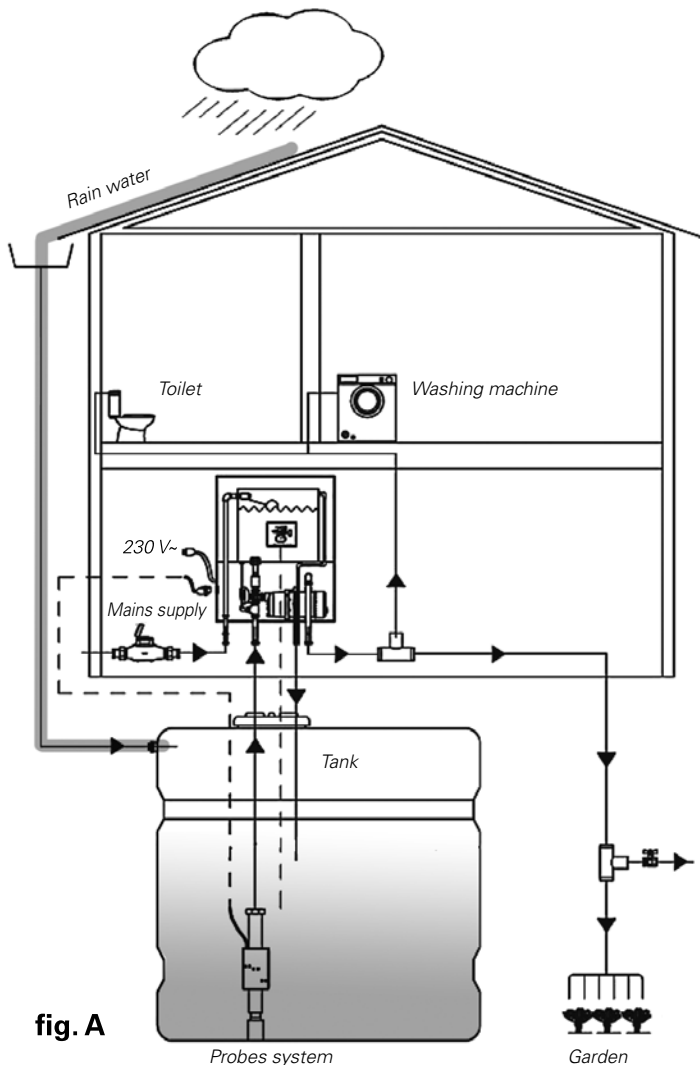


fig. A

Probes system

Garden

When a rain water storage tank is installed, it is wise to have a submersible pump installed to pressurize reclaimed water, and feed all home appliances... (toilets, washing machine, water taps outside the home, domestic garden irrigation ...).

If there is prolonged absence of rain, reclaimed water will run out so it is necessary to install a rain water harvesting system directly from the aqueduct to feed the domestic appliances.

The KRS system is the best solution to have a storage promptly available and without waiting to be refilled the tank.

The user will have a quick application continuity, In accordance to the European law it is prohibited to allow reclaimed rainwater to come into contact with the mains water system in order to exclude any possibility of contamination or infection to the public network.

It is therefore necessary to install a special kit to avoid any contamination and it must be clearly visible for any examination by authorities. **(Fig. C)**

This special system, called 'refeeding Kit', does not allow in any circumstances the possibility of contact between mains pipes and reclaimed rainwater.

In addition to the tank valve that is checked by the float, there is another electric valve that prevents contacts between main pipes and rainwater. The float has a spring-lock. This allows to go through a full flow to a stop flow, avoiding middle passages that could damage the system.

This system separates the water flow of the mains from the domestic installations and helps prevent harmful

"hammerings" to the mains system avoid damages to the water system, specifically to the household appliances.

The presence of a probe system ensures a fine and continuous check of the minimum rainwater level to

prevent the pump going into dry-run alarm function due to lack of water. In the case of lack of water a signal will be given to the control panel to open the electric valve of the 'refeeding kit'.

This type of probe system is installed on a calibrated pipe with a foot valve, granting always a minimum water level into the tank. It is only necessary to fix the probe system in vertical position on the ground of tank without calibrating or setting or work testing.

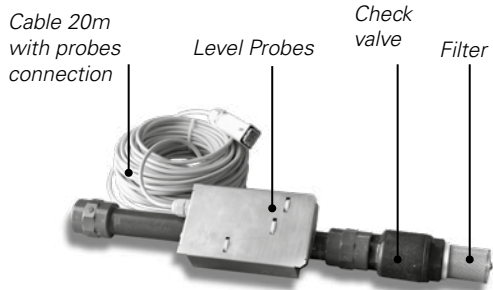
The pump turns on automatically in the case of water demand. It includes an anti-blocking system which checks the pump status every 72 hours and turns the pump on for 1 sec. in order to keep the rotor from the diffuser unlocked and to lubricate the two seals.

At the first start the pump is primed easily through the priming valve control 1 and 2 **(fig. C)** (open the valves, when water goes out from the pipe the pump is primed).

The technical condition of system can be seen by the customer on the control panel **(Fig. B)**, where the pump activity is shown.

The customer will never have problems due to lack of rainwater when using this high-technical solution.

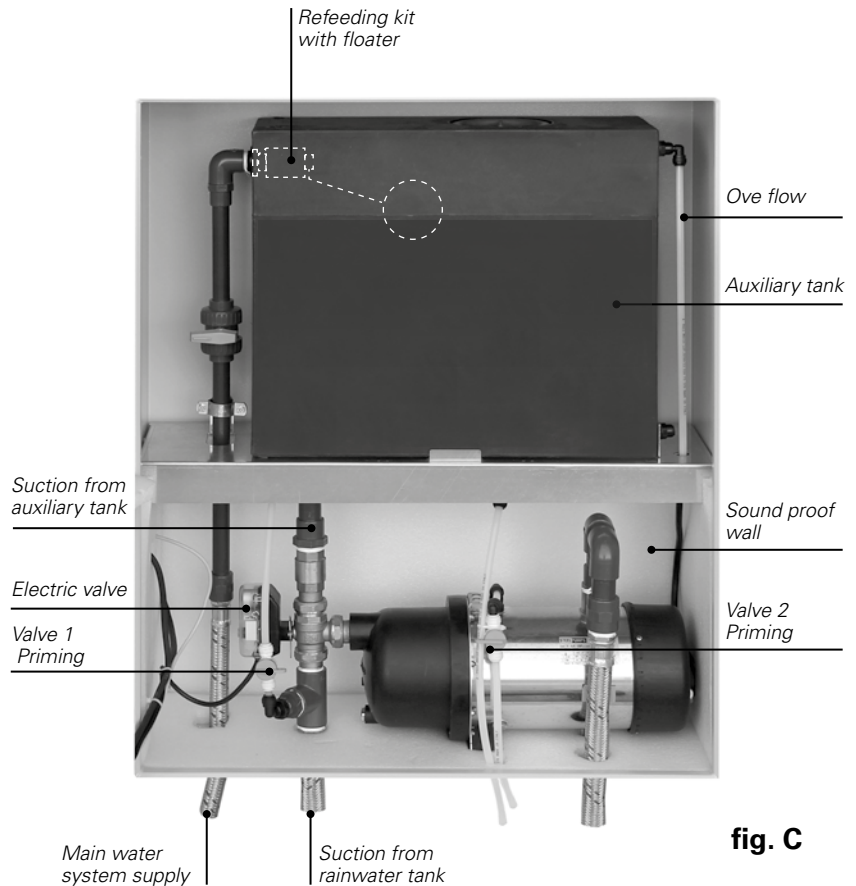
Having the pump installed inside the box avoids any annoying noises, obstructions due to other smaller tanks, ugly rubbish bins to be installed close to the drip tray ... etc.



The suction **kit 01IXV820P** includes 20m electrical cable of probes with rapid connection to be connected directly to the control board. Moreover, the kit has a stainless steel filter and check valve with an already calibrated spring to make easy the pump suction. The hydraulic connection with the suction pipe (to be provided by customer) is with a 1" F connection. This product grants easy installation and moreover avoids the operation to regulate the water level feeding.



**fig. B**



**fig. C**

Code	Description	P2 Nominal Hp	H max (m)	Q max (lt/m)
KRSJE120P	KR with automatic self-priming pump	1,2	60	60