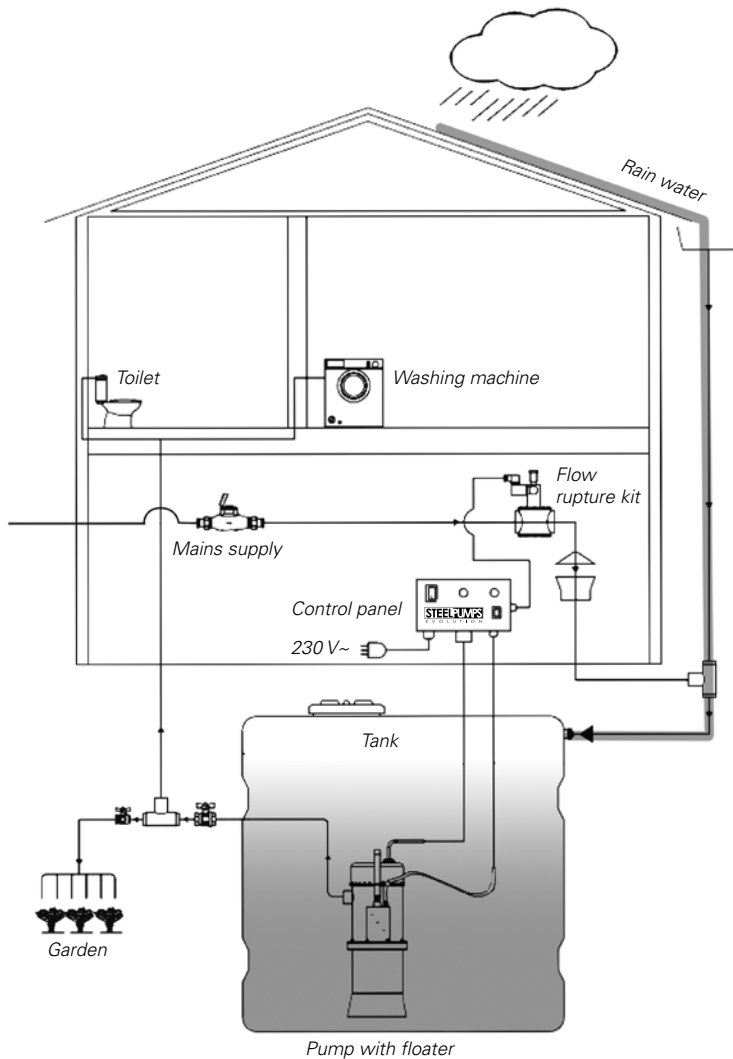


# KR - RAINWATER HARVESTING

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



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. **(Fig. A)**

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.

This kit there includes an electric valve to control the water flow coming from the mains.

This controlled flow avoids turbulences from the water within the 'refeeding kit' preventing harmful leakages of water as these leakages may cause damages to the surrounding structures in the long run. In addition, this regular flow control helps prevent harmful "hammerings" to the mains system avoid noise and 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 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 integrated to the pump by a stainless steel support **(Fig. B)**, granting always a minimum water level into the tank (4 / 6 cm).

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 protecting the oil chamber.

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

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

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

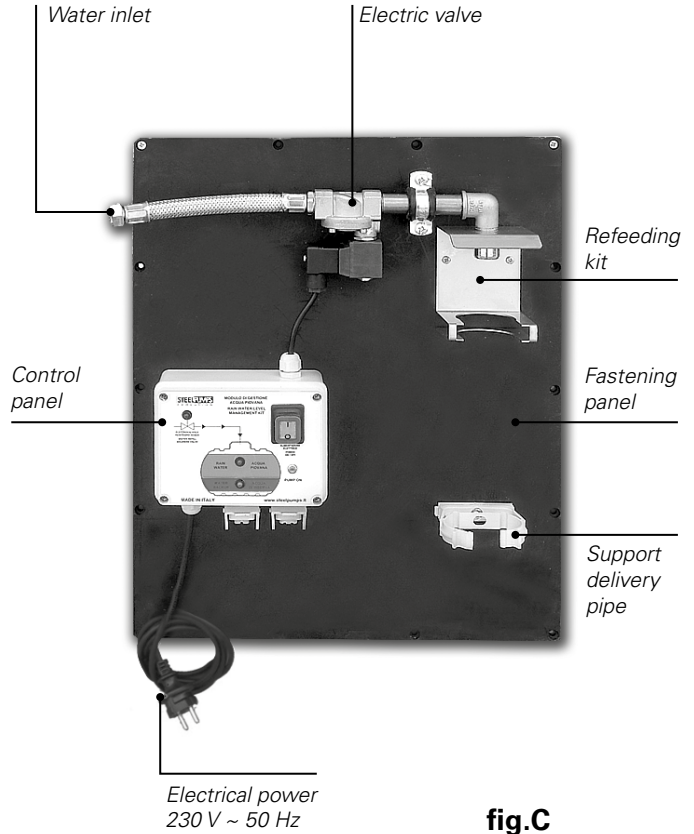


Technopolymer check valve included



Probes

**fig. B**



**fig.C**

Code	Description	P2 Nominal Hp	H max (m)	Q max (lt/m)
KRJV80P	KR with self-priming vertical pump	0,8	40	50
KRJV100P	KR with self-priming vertical pump	1,0	47	60
KRJV120P	KR with self-priming vertical pump	1,2	49	60
KRJE80B	KR with self-priming horizontal pump	0,8	40	50
KRJE100B	KR with self-priming horizontal pump	1,0	47	60
KRJE120B	KR with self-priming horizontal pump	1,2	49	60
KRMO100B	KR with multistage horizontal pump	1,0	42	90
KRMO120B	KR with multistage horizontal pump	1,2	52	90
KRMO1505BHF	KR with multistage horizontal pump HF	1,5	51	145
KRMO2006HF	KR with multistage horizontal pump HF	2,0	62	145
KRMOV100B	KR with multistage vertical pump	1,0	42	90
KRMOV120B	KR with multistage vertical pump	1,2	52	90
KRMOV1505BHF	KR with multistage vertical pump HF	1,5	51	145
KRMOV2006HF	KR with multistage vertical pump HF	2,0	62	145