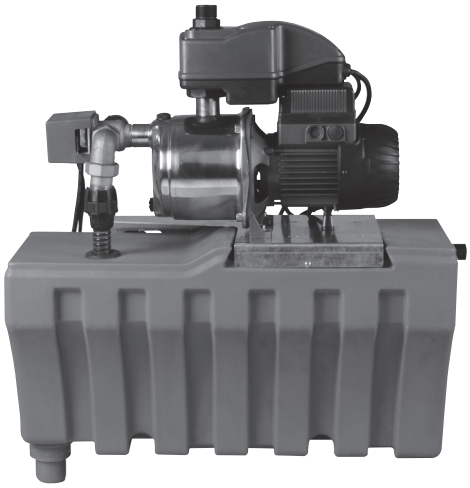
ACTIVE SWITCH
SYSTEM FOR THE EXPLOITATION OF RAINWATER



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GENERAL DATA

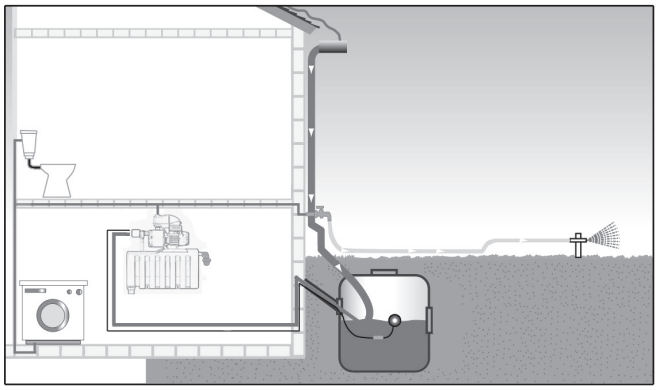
Applications
The ACTIVE SWITCH unit is used for the management and distribution of rain water. The unit detects the lack of water in both rain water and mains collection system and corrects it to guarantee that the system operates correctly (or rather, it never lets the identified users run out of water). The system is generally limited to irrigation, washing machine, WC flushing tank and floor cleaner systems. The main objective of the ACTIVE SWITCH system is to give priority to the use of rain water over that of the mains water. When the rain water contained in the collection tank is insufficient, the control unit passes to the mains water supply thereby ensuring a flow of water at the extraction points (The water supplied by the unit is not drinkable). The connection between the rain water collection tank and the mains water collection tank, which is integrated into the system, is selected by a three-way valve fitted to the pump suction. The pump operates exactly the same as a pump with a “start-stop” system using flow and pressure control. When the pressure drops below the set value the pump starts, when the tap is turned off the pump stops, if there is a lack of water the pump stops and a warning is signalled on the pump’s control panel. After a preset time the pump automatically starts again and if all operations are within the set parameters the pump carries on operating normally. The system also includes a special anti-stench and anti-draining trap.

Constructional features
The system comprises a recyclable polyethilene tank, an automatic pump Active EI 30/50 M series and a three-way automatic valve assembled on suction port of the pump. The system has been designed to be wall-mounted. Supplied with wall bracket and float switch with 20 mt. of cable as standard.

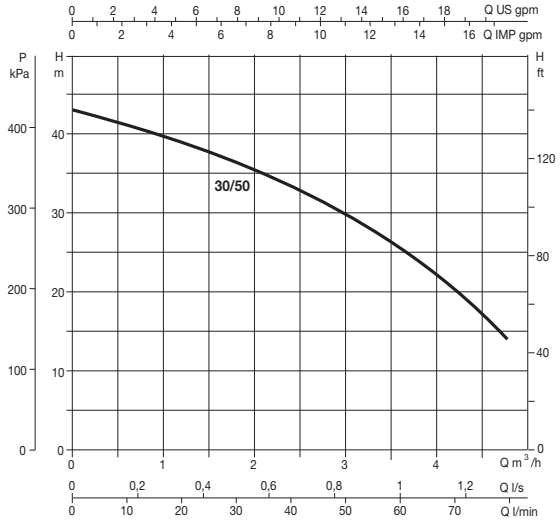
Technical specifications

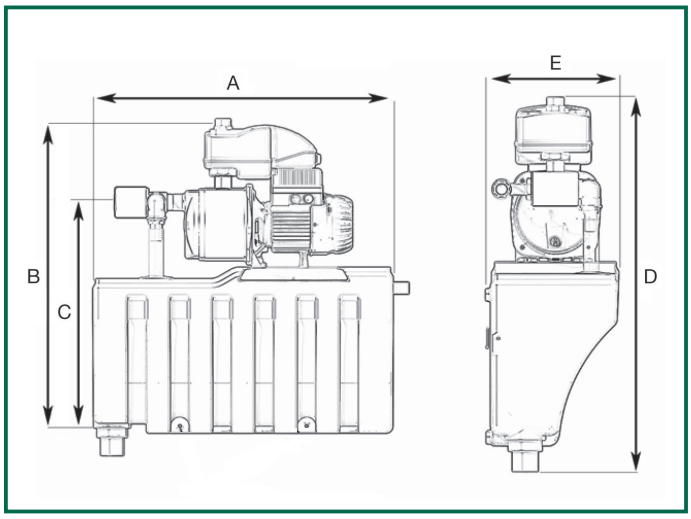
- Ambient temperature: min +5°C - max +40°C
- Flow rate: 80 l/min
- Head max: 42,2 m
- Pumped liquid temperature: da +5°C a +35°C
- Maximum system pressure: 6 bar (600 KpA)
- Maximum mains pressure: 4 bar (400 KpA)
- Maximum usage height: 15 mt
- Mains water pipe dimensions: 3/4"
- Discharge pipe dimensions: 1"
- Suction pipe dimensions: 1"
- Overflow dimensions: DN50

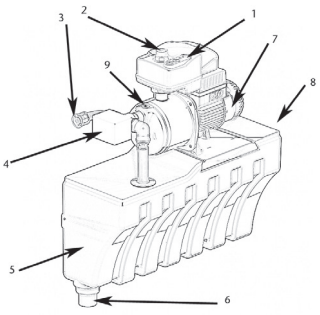
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to1000 Kg/m³. Curve tolerance according to ISO 9906.



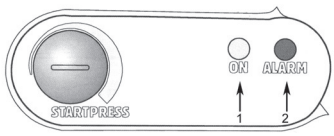
ACTIVE SWITCH - INSTALLATION PLAN







1. pump control panel
2. pressurised water outlet
3. recovery tank suction
4. 3-way valve
5. mains water collection tank
6. trap overflow
7. pump
8. mains water inlet
9. pump filler plug



CONTROL PANEL

MODEL	VOLTAGE 50 HZ	ELECTRICAL DATA							HYDRAULIC DATA (N.2800 1/min)									
		N IMPELLERS	P1 max W	P2 Nomin. kW	P2 Nomin. HP	In A	CAPACITOR µF	CAPACITOR VC	m³/h	0	0,6	1,2	1,8	2,4	3,0	3,6	4,2	4,8
									l/min	0	10	20	30	40	50	60	70	80
ACTIVE SWITCH 30/50	1X220-240V	3	0,880	0,55	0,75	3,9	12,5	450	H (m)	42,2	40,2	38,2	36,2	33,8	30	24,8	19,5	14

MODEL	A	B	C	D	E	WEIGHT KG
ACTIVE SWITCH 30/50	650	666,5	501,5	731,5	260	18