
AQUAPROF

SYSTEM FOR THE EXPLOITATION OF RAINWATER



GENERAL DATA

Applicazioni

The AQUAPROF 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). Notify in the event of faults and indicate the type of problem incurred. The system is generally limited to irrigation, washing machine, WC flushing tank and floor cleaner systems. The main objective of the AQUAPROF 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 AQUAPROF 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 controlpanel. 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. The system performs an operational control of the 3-way valve every 24 hours. The system renews the content of the internal mains water tank every week (the renewal is limited to the request of water used).

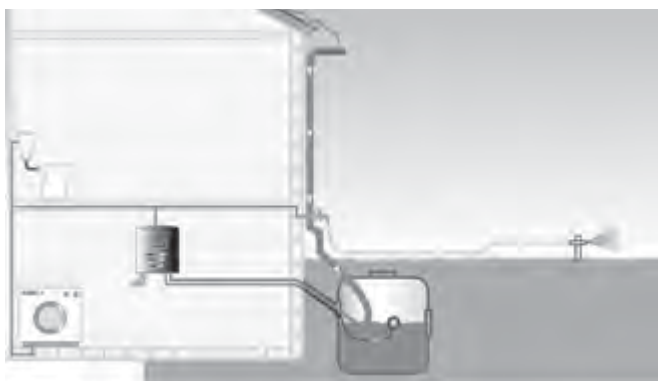
Constructional features

The system comprises a recyclable polyethylene console, a completely automatic electronic control unit, three-way automatic valve and electropump Euroinox 30/50 M or Euroinox 40/50 M series. Supplied with wall bracket as a standard and float switch with 20 mt of cable for AQUAPROF BASIC version, or probe sensor level with 20 mt of cable for AQUAPROF TOP. We suggest to buy a dedicated probe with resolution from 2 to 2,5 meters

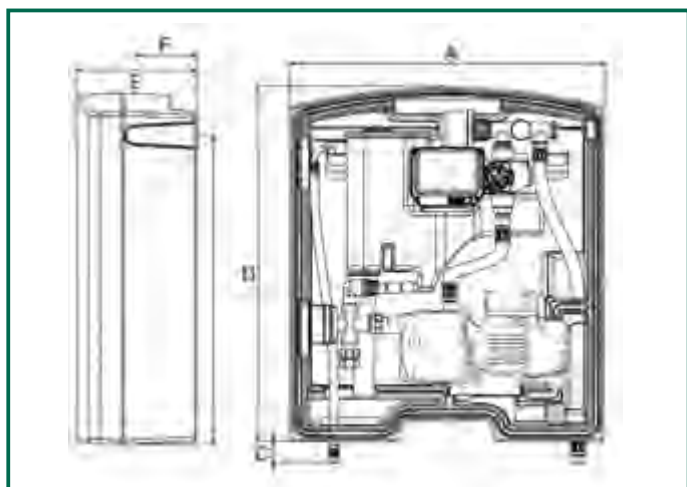
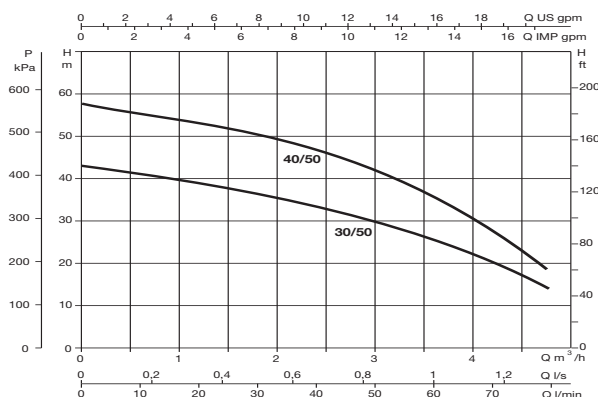
Technical specifications

- Protection class: IP42
- Ambient temperature: min +5°C - max +40°C
- Flow rate: 80 l/min
- Head max: 42,2 m (Aquaprof 30/50)
57,7 m (Aquaprof 40/50)
- Pumped liquid temperature: from +5°C a +35°C
- Maximum system pressure: 6 bar (600 KpA)
- Maximum mains pressure: 6 bar (600 KpA)
- Maximum usage height: 25 mt
- Capacity of the tank: 4,5 lt
- 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 to 1000 kg/m³. Curve tolerance according to ISO 9906.



AQUAPROF BASIC AND TOP - INSTALLATION PLAN



1. mains water tank
2. mains water inlet
3. control panel
4. 3-way valve
5. pump
6. pump hydraulic control system
7. anti-dripping plenum
8. hot air outlet
9. rain water suction
10. pump cooling air intake
11. pressurised water outlet
12. rear casing
13. emergency overflow
14. pressure gauge
15. horizontal outlet
16. pipes and electrical cable opening
17. delivery pipe opening
18. pump filler plug

CONTROL PANEL



AQUAPROF BASIC



AQUAPROF TOP

MODEL	VOLTAGE 50 HZ	ELECTRICAL DATA							HYDRAULIC DATA (N.2800 1/min)										
		N IMPELLERS	P1 max W	P2 Nomin.		I _n A	CAPACITOR		Flow Rate (Q)										
				kW	HP		μF	VC	m ³ /h	0	0,6	1,2	1,8	2,4	3,0	3,3	3,6	4,2	4,8
AQUAPROF BASIC 30/50	1X220-240V	3	0,88	0,55	0,75	3,9	12,5	450	H (m)	42,2	40,2	38,2	36,2	33,8	30	27,5	24,8	19,5	14
AQUAPROF BASIC 40/50	1X220-240V	4	1,2	0,75	1	5,3	20	450		57,7	55,3	52,8	50,1	47,1	42,7	39,5	35,8	28	19,2
AQUAPROF TOP 30/50	1X220-240V	3	0,88	0,55	0,75	3,9	12,5	450		42,2	40,2	38,2	36,2	33,8	30	27,5	24,8	19,5	14
AQUAPROF TOP 40/50	1X220-240V	4	1,2	0,75	1	5,3	20	450		57,7	55,3	52,8	50,1	47,1	42,7	39,5	35,8	28	19,2

MODEL	A	B	C	D	E	F	WEIGHT KG
AQUAPROF BASIC 30/50	750	850	50,5	747	290	148	28
AQUAPROF BASIC 40/50	750	850	50,5	747	290	148	32
AQUAPROF TOP 30/50	750	850	50,5	747	290	148	28
AQUAPROF TOP 40/50	750	850	50,5	747	290	148	32