

# RainFLOW

## BOOSTER SYSTEM FOR HARVESTED RAINWATER

The RainFLOW unit is an automatic pumping system designed for monitoring and controlling the distribution of harvested rainwater. When insufficient rainwater is available from the collecting tank (e.g. underground tank), the electronic control of RainFLOW switches to the suction pipe of the main water integrated tank, by means of the built-in three-way valve. In this way, RainFLOW ensures that water is always available at the points of consumption. RainFLOW is supplied together with a self priming multistage centrifugal pump of the MAX series.

- REDUCE THE COST AND WASTE OF WATER
- SILENT AND COMFORTABLE SYSTEM
- COMPACT DESIGN



### Usage limitations

- Type of liquid: rainwater with no suspended solids or abrasive material
- Liquid temperature: +5°C to +35°C
- Ambient temperature: 0°C to +40°C
- Maximum recommended suction height: 7m with foot valve
- Maximum operating pressure: 7 bar

### Features

- Automatic changeover between rainwater tank and integrated main water tank
- Manual changeover between rainwater tank and integrated main water tank
- Once a week, automatic changeover from the rainwater tank to the mains water supply (forced)
- Dry running protection with visual alarm in case of lack of water.

### Pump motor

- Enclosed, externally ventilated
- Level of protection IP 44
- Class F insulation
- Single phase power supply with capacitor permanently activated and thermal protection built into the motor winding
- Speed of rotation 2850 rpm
- Suitable for continuous use

### Applications

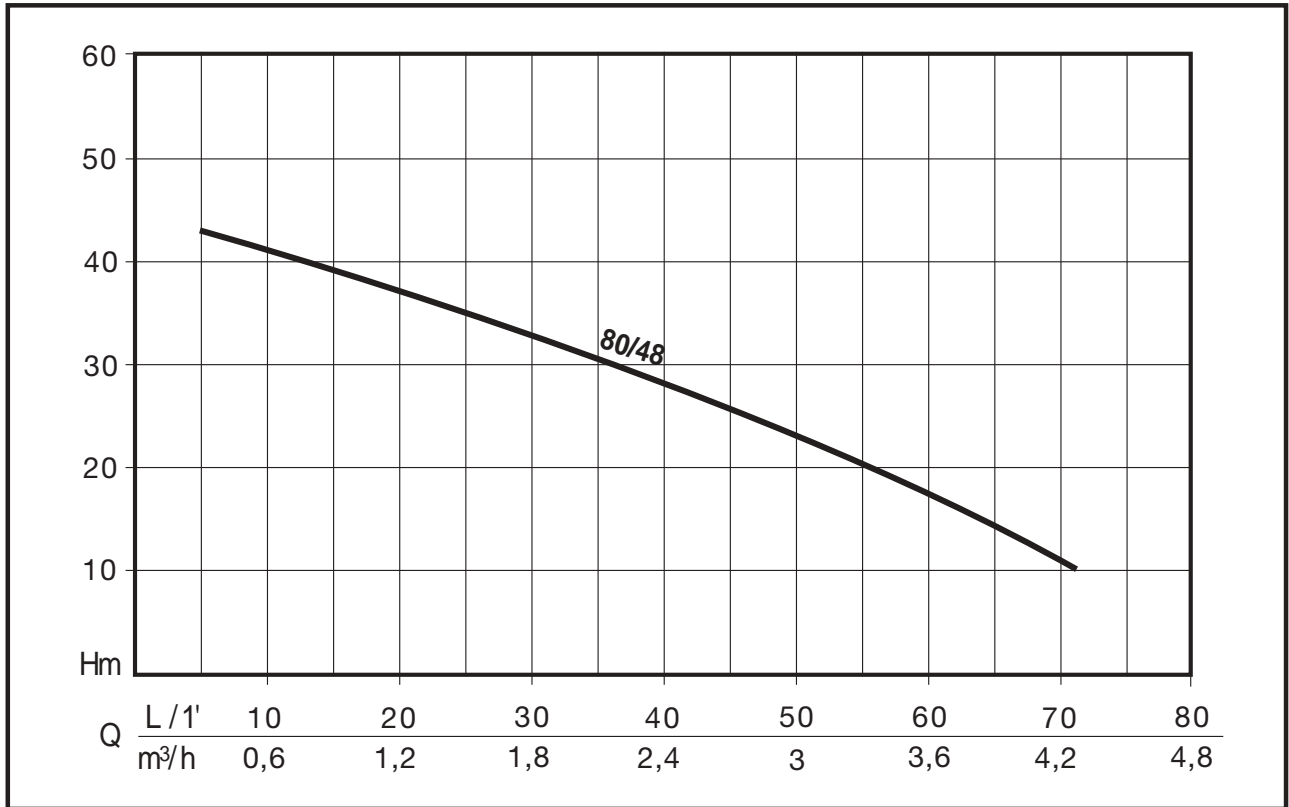
RainFLOW is suitable for the transfer and pressurizing of water from rainwater collection and utilization systems in single- or two-family houses, farms and gardens, as well as in small factories.

Technical data - RainFLOW	
Supply voltage	230 Volts - 50 Hz
Level of protection	IP 55
Pre-set starting pressure	1,5 bar (Maximum height to highest point of consumption: 15m)
Installation	Ground or wall mounting (bracket with screws are included), indoors.
Hydraulic connections	Main water pipe: 1/2" M Suction pipe: 1" M Discharge pipe: 1 1/2" F Overflow pipe: 1" F
Integrated main water tank	Polyethylene Capacity: 55 litres
Level control	Floating switch with 20 m cable
Power supply cable	1.5 m with Schuko plug

### PUMP DESIGN FEATURES - MAX 80/48

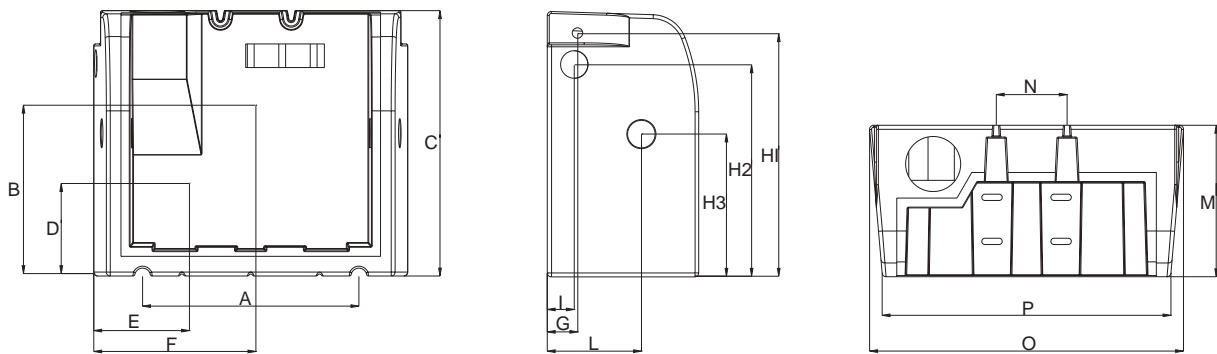
Component	Material
Pump casing	X5 CrNi 1810 (AISI 304) Stainless steel
Motor bracket	Die-cast aluminium
Impeller	Technopolymer with X5 CrNi 1810 (Aisi 304) Stainless steel shim ring
Diffusors	Technopolymer
Shaft (hydraulic end)	X5 CrNi 1810 (AISI 304) Stainless steel
Spacer	OT 58 Nickel plated brass
Mechanical seal	Graphite
Counterface	Ceramic
O'ring	NBR 70 Shore
Seal holder plate	GFN2V Noryl

## TABLE OF HYDRAULIC PERFORMANCE



## PUMP PERFORMANCE

CODE	MODEL	Nominal Power		Absorbed Power		VOLTAGE (V)	Amp.	µF.	Q	0	20	40	60	80
		HP	kW	HP	kW					L/1'	m <sup>3</sup> /h	0	1,2	2,4
N4501200	RainFLOW MAX 80/48 M	0,75	0,55	1,1	0,8	1 ~ 230 V	4	12,5	Discharge head in meters	45	36	28	17	1



## TABLE OF SIZES AND WEIGHTS

Model	Dimension mm.																Weight
	A	B	C	D	E	F	G	H1	H2	H3	I	L	M	N	O	P	kg
RainFLOW MAX 80/48 M	555	480	675	255	205	420	78	617	505	360	70	235	380	180	798	734	23