

# AUTOMATIC SELF-PRIMING PUMP

## ITB 50 (Incl. weather proof cover - IP54)



### Range of performance

Flow rate: max 35 L/min (2.1m<sup>3</sup>/h)  
Head: max 34m

### Limits of use

Liquid temperature: 40°C  
Ambient temperature: 40°C

### Uses and installations

The new designed ITB Series is an automatic cold & hot water turbine self priming pump. This ITB pump is widely used in household hot and cold water boosting and irrigation.

When the ITB pump is connected, just twist the water tap and the pump will switch on or off automatically. If pumping water from a tank, the pressure sensor on the ITB pump will run or stop automatically based on the water level of the tank.

### Functions

#### 1. Delayed Start

Pump will delay the start by 3 seconds after the power is turned on in order to protect the motor from excessive on/off switching.

#### 2. Dry Run Protection

The pump will automatically power off after running without water for 8 minutes. Sufficient water is stored in volute to prevent seal damage.

#### 3. Electronic Flow Control

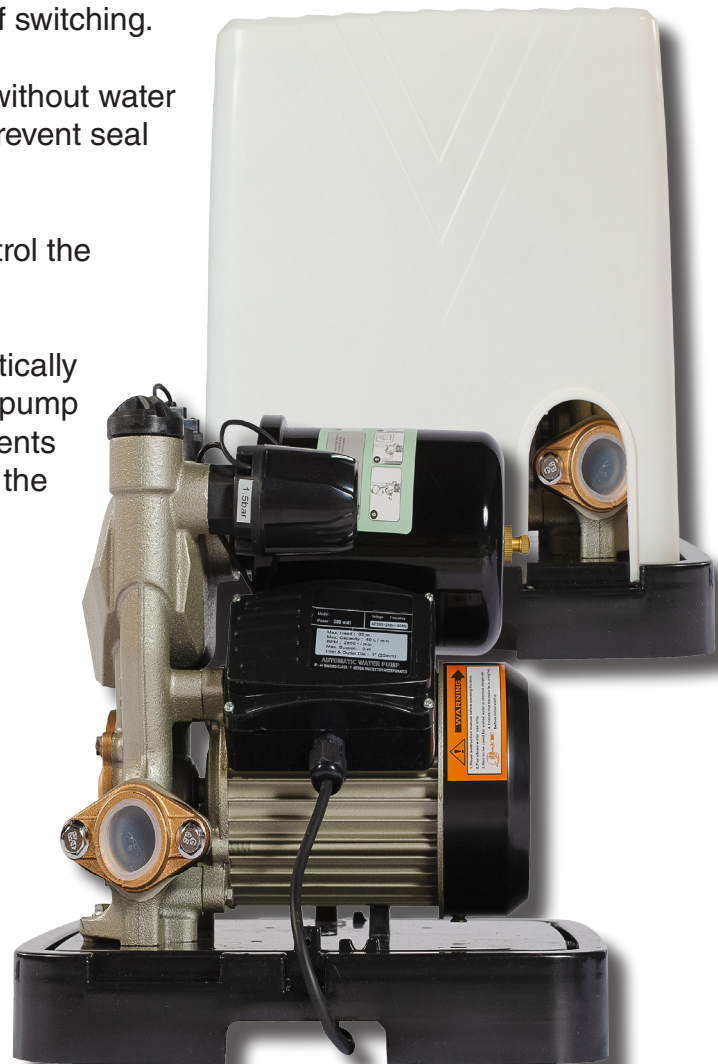
PC-Board can detect the flow and automatically control the pump's on/off switching.

#### 4. Intelligent Flow Control

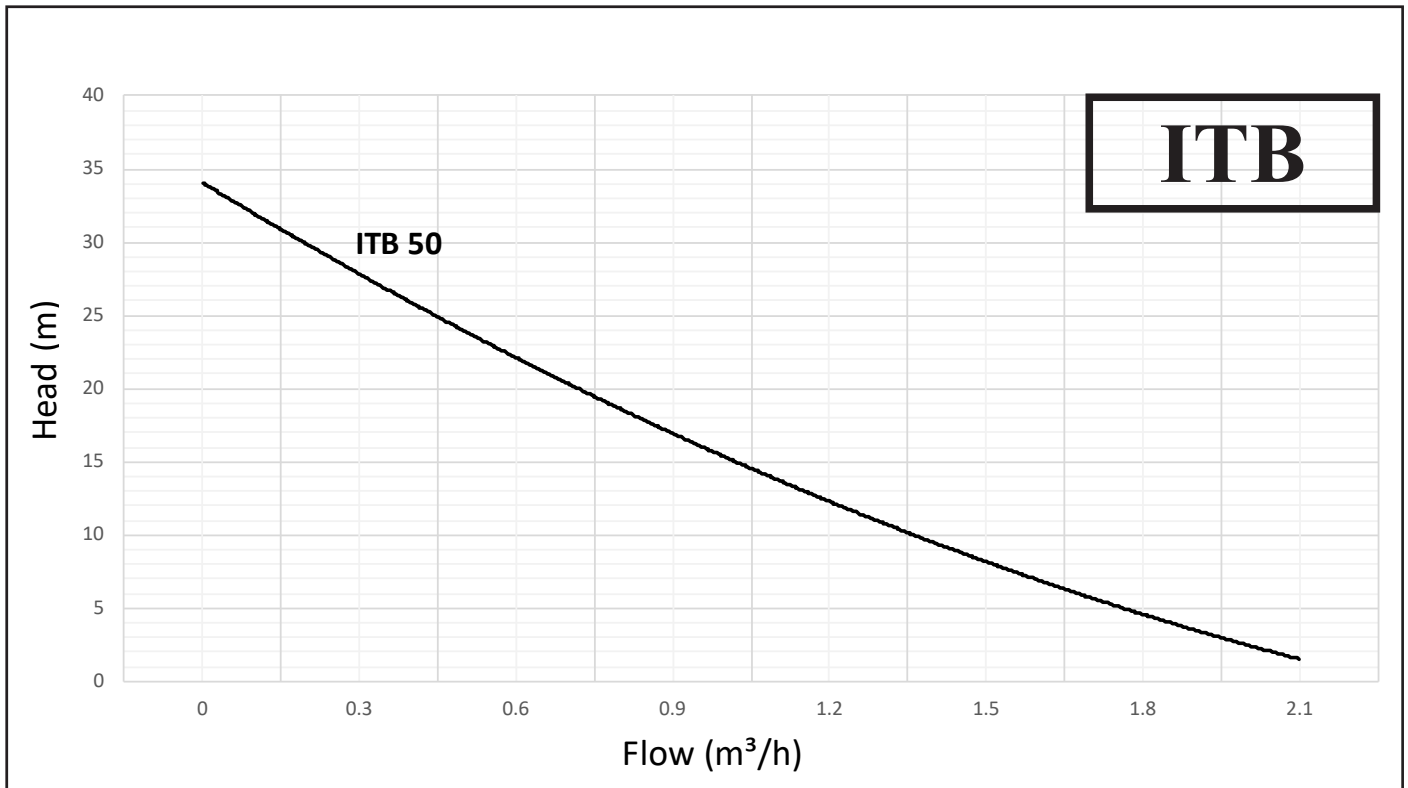
When the flow is very low, the PC-Board will automatically detect and switch to small-flow mode. To ensure the pump works well in small flow conditions. This feature prevents the pump from switching on/off frequently to prolong the life of the pressure sensor.

### Construction Characteristics

Pump Body: Cast Iron  
Impeller: Brass, with radial peripheral vanes  
Motor Shaft: Stainless Steel 304  
Mechanical Seal: Ceramic-graphite  
Electric Motor: Single-phase 230V - 50Hz with capacitor and thermal overload protector built into the copper winding.  
Insulation: Class B  
Protection: IP 54



### Hydraulic Performance Curve



### Technical Data

NO	MODE	POWER		Q (m³/h)	0	0.42	0.96	1.2	1.5	1.98
	Single-phase	kW	HP	Q (l/min)	0	7	16	20	25	33
1	ITB 50	0.37	0.5	H (m)	34	22	15.5	13	8	3

### Dimension

No	Model	Freq.	Suct. Max	Size	Start-up Amps	Running Amps	Dimension	N/W
	Single-phase	Hz	m	inch	A	A	L x W x H mm	kg
1	ITB 50	50	7	1" x 1"	6.2	1.9	330x310x360	12.5

