ICP100F

PM VFD Smart Booster Pump

The ICP100F is built for houses whose water sits below the pump. Its 8 m self-priming lift draws from a cistern or shallow well, and its constant pressure can be set anywhere from 10 to 30 m to match the house. A single 0.75 kW permanent magnet stage delivers 86 L/min at up to 38 m of head through 1-inch ports, with a cast-iron body and a plastic impeller. Intelligent fault diagnosis alarms and self-checks, and dry-run and overload protection guard the pump when the source runs low.

Energy: Cuts energy use by 60% or more against a same-power conventional fixed-speed pump at the same flow/head duty point under constant-pressure conditions.

Key features

- Quick self priming for tank and well intake
- Wide voltage 170 - 250 V, 50 - 60 Hz with performance within 1%
- Small size, light weight and high efficiency
- Three button control panel with automatic start and stop
- Intelligent fault diagnosis and fault prediction
- Water cooled motor for lower noise and higher efficiency
- Stainless steel shaft for longer service life

Technical data

Model	Power (kW)	HP	Current (A)	Qmax (L/min)	Hmax (m)	Suction (m)
ICP100F	0.75	1.0	3.8	86	38	8

Working conditions

Media	Thin, clean, non-solidifying, non-flammable liquid
Solids	No particles or fibres larger than 0.2 mm
Max working pressure	10 bar
Liquid temperature	5 - 70 °C, pH 6.5 - 8.5
Ambient temperature	0 - 40 °C, humidity up to 85%

Installation

Model	Inlet	Outlet	a	d	g	h	Net weight
ICP100F	1 inch	1 inch	230	144	166	278	8.0 kg

Packing

Packing	Carton with plywood tray
Carton size	29.7 x 17.9 x 30.8 cm
Net weight	8.0 kg

Applications

The specification confirmed for an order is the one stated in the order confirmation.

- Rooftop Tank & Water Tower Boosting
- Whole-House Boosting
- Villa & Multi-Storey Homes

Fujian Calliope Pumps Co., Ltd. — For quotations, OEM/ODM projects and distributor applications, contact the export team at cason@calliopepump.com or via WhatsApp +86 178 0591 6566. See the full model page at www.calliopepump.com/products/icp100f.

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