SPS90-3

Permanent Magnet VFD Booster Pump

The SPS90-3 is the taller-house step up from the SPS-90. Where the SPS-90 stops at 32 m, this model reaches 45 m of head, with three stainless impellers in a stainless precision-cast body and a ceramic shaft and bearing. Five power stages from 0.27 to 0.58 kW cover 25 to 45 m at up to 70 L/min, through 1-inch ports with 7 m of suction lift. At 9.5 kg it is a heavier, higher-head machine for villas and duplexes, running on standard single-phase 170–250 V.

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

Key features

- Stable performance across 170 - 250 V, 50 - 60 Hz supply
- Smaller size, lighter weight, higher efficiency, lower noise and stronger suction
- Simple operation with automatic start and stop and a two-button control panel
- Smart fault diagnosis with alarm, self check and fault prediction
- Water cooled motor and controller for lower noise and higher motor efficiency
- Stainless steel precision casting body with ceramic shaft and bearing

Technical data

Power	Power Min (kW)	Power Max (kW)	Current (A)	Qmax (L/min)	Hmax (m)	Suction (m)
Power 1	0.27	0.58	5.5	70	25	7
Power 2	0.33	0.58	5.5	70	30	7
Power 3	0.41	0.58	5.5	70	35	7
Power 4	0.49	0.58	5.5	70	40	7
Power 5	0.58	0.58	5.5	70	45	7

Working conditions

Media	Thin, clean, non-solidifying, non-flammable liquid
Solids	No particles or fibres larger than 0.2 mm
Liquid temperature	5 - 70 °C, pH 6.5 - 8.5
Ambient temperature	0 - 40 °C, humidity up to 85%
Inlet minimum flow	3 L/min
Max working pressure	10 bar
Noise	≤ 55 dB

Installation

Model	Inlet	Outlet	a	b	c	d	e	f	g	Gross weight
SPS90-3	1 inch	1 inch	284	195	333	248	56	18	157	9.5 kg

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

Packing

Packing	Carton with plywood tray
Carton size	32.5 x 33.5 x 37 cm
Gross weight	9.5 kg

Applications

- Whole-House Boosting
- Rooftop Tank & Water Tower 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/sps90-3.

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