



SmartOne 900

Variable speed pressurization system



www.pentax-pumps.it

What is it



SmartOne 900 is a compact and **intelligent plug-and-play system** designed to ensure constant water pressure, and **optimized energy use** for a **wide range of residential and light commercial applications.**

It integrates an inverter-controlled permanent magnet motor with up to 85% efficiency; a wide LED display allows to set and control pressure, power, and other parameters. Its compact design and quick-installation kit simplify setup, even in tight or indoor spaces.

The system includes 8 protective measures for safe operation, and **operates only when required, reducing energy consumption and maximizing the life of internal components.**

Features



AIO (All-In-One)

AIO water pressure system.



Constant pressure control

Integrated inverter control system ensuring constant pressure at all times.



Energy-saving innovation

Energy-saving breakthrough in pumping variable-frequency permanent magnet motor featuring low power consumption.



High-efficiency motor

The permanent magnet motor offers 85% efficiency higher than traditional pumping system.



LED Display



Wide high quality LED display allows to set and control pressure, power, and other system parameters.

Compact Design



Compact size offers more installation possibilities.

High-temperature



Supports liquid temperatures up to 55°
for an increased reliability.

Easy installation



Equipped with a quick-installation kit, simplifying
residential
installation.

8-Level protection



SmartOne is able to activate 8 different protections to ensure a safe
and reliable operation.

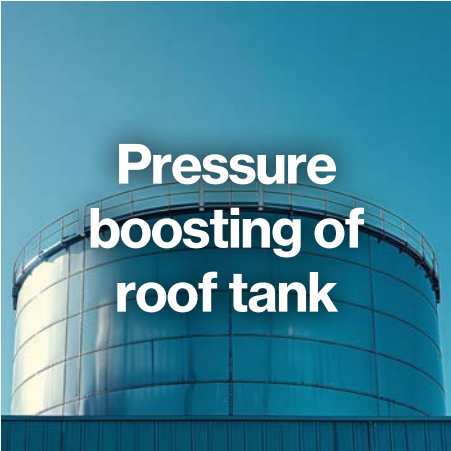
Applications



**Residential
buildings and
villas**



**City mains
water boosting**

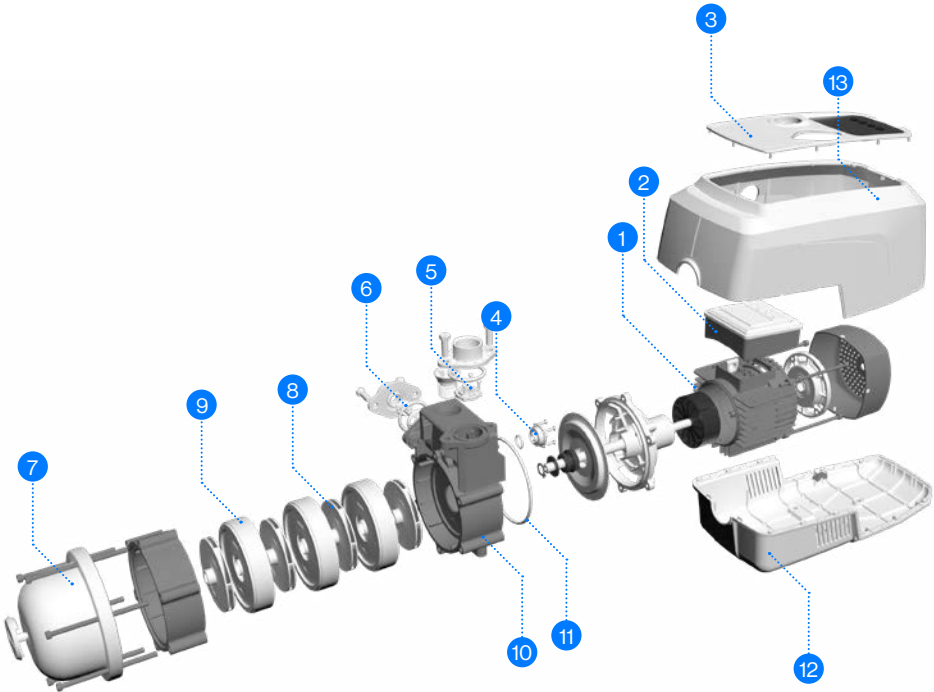


**Pressure
boosting of
roof tank**




**Water supply
from shallow
wells**


Details




1	Permanent magnet motor	8	Impeller
2	Control drive	9	Diffuser
3	Control panel	10	Pump head
4	Pressure sensor	11	Pump cover
5	Outlet check-valve	12	Pump base
6	Inlet check-valve	13	Shield cover
7	Pressure tank		

Control panel







 Run and Stop

 Button down

 Button Up

 Settings



Button	Function
	To switch between Run and Stop
	To adjust setting pressure step-by-step
	For a rapid Continuous Regulation
	To enter Parameter Settings
	For a cyclic Switch-over Data Display
	To switch Auto - Manual mode

Technical data

Allowed fluids

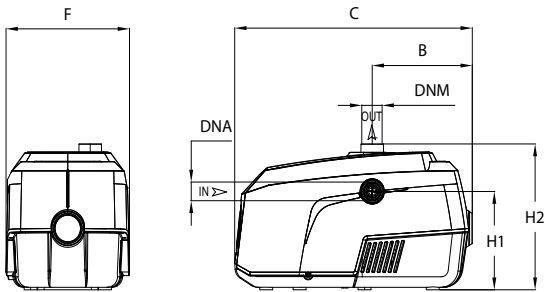
Clean, non-aggressive water, without suspension solids.




Technical data

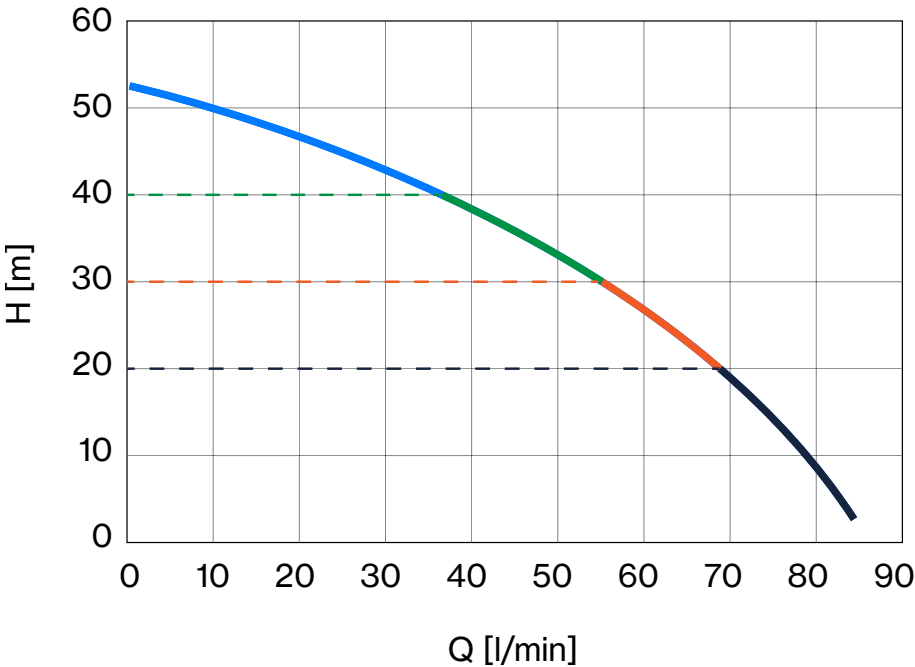
Input voltage	1~ 230V-50Hz 1~ 220V-60Hz
Input power	900 W
Max. head	> 50 m
Max. flow	> 80 l/m
Inlet & Outlet	1" G
Liquid temperature	0 ÷ +55 °C
Max. pressure	max 6 bar
Insulation class	F
Protection degree	IP54

Dimensions



DIMENSIONS (mm)							 Kg
B	C	F	H1	H2	DNA	DNM	
169,5	401	209	160	236,5	1"	1"	8,9

Performance



Full speed

4bar set point

3bar set point

2bar set point



COMPANY WITH QUALITY, ENVIRONMENT, HEALTH
AND SAFETY MANAGEMENT CERTIFIED SYSTEMS
UNI EN ISO 9001: Certificate No. 50 100 3634
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UNI ISO 45001: Certificate No. 50 100 14960



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