PRODUCT DATA SHEET
HYDROPHORE

Omnigena
PREMIUM

WZ SMART PM series

The WZ SMART PM series booster set is a compact unit for the fully automatic supply of fresh, cold, clean water under constant pressure. The WZ SMART PM series booster set can be used to supply water from wells or other sources to buildings, and will also do an excellent job of irrigating small areas.

FEATURES

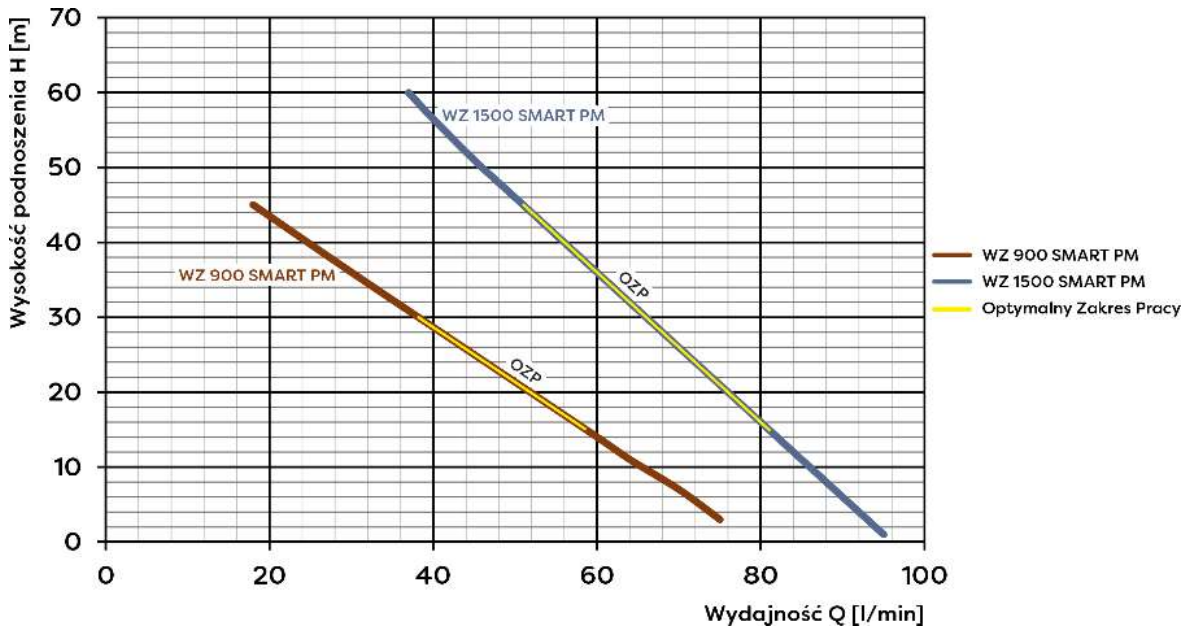
- Frequency converter and fully electronic control - the hydrophore maintains constant user-selected water pressure within the hydraulic parameters of the pump
- The use of PM (permanent magnet) type motors and the above control results in high efficiency and significantly lower electricity consumption compared to conventional booster sets
- Gentle switching on and off of the pump motor eliminates hydraulic shocks in the water system
- Automatic start-up when water intake begins (turning on the tap) and automatic shut-down when water intake ends (turning off the tap)
- Extremely quiet operation allows it to be installed adjacent to the living area of the house
- Built-in protection against:
  - dry-running (operation without water)
  - too high a pressure in the water system
  - motor overload
  - motor overheating
  - too high or too low electrical voltage
  - overheating (water too hot)

TECHNICAL DATA	
Max. water temperature:	0÷60^{0}C
Ambient temperature (operation)	0÷40^{0}C
Water pH	6÷8
Max. suction depth	8m
Length of power cable	1.1m
Degree of protection:	IP 44
Motor speed (no load)	4000 rpm
Max. pressure	10 bar
Insulation class	B

MATERIALS	
Pump casing	cast iron
Mechanical gland	graphite/ceramic
Pump shaft	stainless steel
Pump base	polypropylene
Rotor	brass

Table of parameters

Model	Q max	H max	P max	U	I	Optimal	DN1/DN2	Weight
	Performance	Lifting height	Motor power	Voltage	Current	scope of work for pressure	discharge/ suction outlet	of the pump
	[l/min]	[m]	[W]	[V]	[A]	[bar]	[inch]	[kg]
WZ 900 SMART PM	**75**	**45**	**0,9**	**230**	**4,8**	**1,5-3,0**	**1"x1"**	**8,9**
WZ 1500 SMART PM	**95**	**60**	**1,5**	**230**	**6,5**	**1,5-4,5**	**1½"x1½"**	**11,7**



Dimensional drawing

Model	a [mm]	f [mm]	h1 [mm]	i [mm]	h2 [mm]	m [mm]	n [mm]	n1 [mm]	w [mm]	s [mm]	l [mm]	r [mm]	Pack size [cm]
WZ 900 SMART PM	40,5	255,7	196,5	121,5	247	98,8	170,1	138	107,8	13	8	226,8	32,2x33,7x31
WZ 1500 SMART PM	53,5	267	206,5	132	257	98,8	170,1	138	106	13	8	243,7	32,5x37,5x34,5