PRODUCT DATA SHEET
HYDROPHORE

Omnigena
PREMIUM

MS 1000 SMART PM

A state-of-the-art device which, through the use of a frequency converter, pressure sensor and electronic control, maintains a constant, user-selected water pressure in the system. Through a modern control solution and the use of an innovative PM permanent magnet motor, the MS 1000 SMART PM hydrophore is highly efficient and consumes significantly less electricity compared to classic hydrophores. The pump can be successfully used to draw water from a well or reservoir or as a kit to increase the pressure in a water system.

FEATURES

- Modern frequency converter, pressure sensor and fully electronic control to ensure that the hydrophore maintains a constant user-selected water pressure in the system within the pump's hydraulic parameters
- The use of PM motors (with permanent magnets) and a modern control system ensures high efficiency and the consumption of considerably less electricity compared to classic hydro sets.
- Gentle starting and stopping of the motor speed eliminates hydraulic shocks that are detrimental to the pump and the installation
- Automatic start-up when water is drawn (turning on the tap) and automatic shut-off at the end of consumption (turning off the tap)

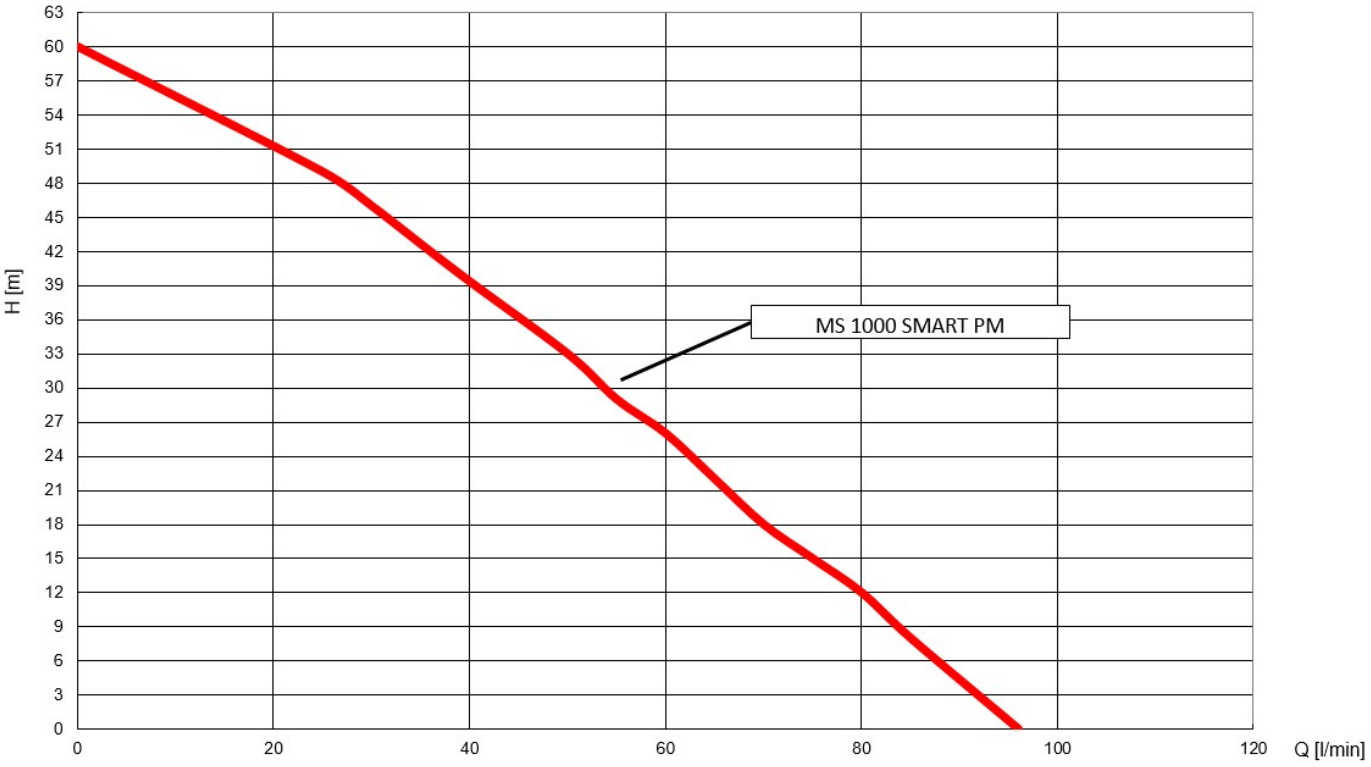
- Quiet operation (53db) allows the unit to be installed in close proximity to the living area of the house
- Safety features built into the pump protect the unit against:
  - dry-running (operation without water)
  - water temperature too high
  - motor overload
  - engine overheating
  - too high or too low electrical voltage
  - freezing of the water in the pump casing

TECHNICAL DATA	
Max. water temperature:	0÷75^{0}C
Ambient temperature (operation)	0÷40^{0}C
Water pH	5÷8
Max. suction depth	8m
Length of power cable	1.1m
Degree of protection:	IP 44
Motor speed (no load)	4000 rpm
Max. pressure	6 bar
Insulation class	B

MATERIALS	
Pump casing	stainless steel
Rotor	stainless steel
Mechanical gland	SIC/CAR
Pump shaft	stainless steel
Pump base	techno polymer

Table of parameters

Model	Q max	H max	P max	U	I	DN1/DN2	Weight
	Performance	Lifting height	Motor power	Voltage	Current	Discharge/suction outlet	with/without packaging
	[l/min]	[m]	[W]	[V]	[A]	[inch]	[kg]
MS 1000 SMART PM	96	60	0,88	230	5,8	1" x 1"	9.0/8.3



Dimensional drawing