PRODUCT DATA SHEET
HYDROPHORE

Omnigena
PREMIUM

MULTI MH SMART PM

A modern compact innovative hydrophore that maintains a constant, user-selected water pressure in the system through the use of a frequency converter, pressure sensor and electronic control panel. Thanks to a modern control solution and the use of an innovative PM (permanent magnet) motor, which communicates with an integrated electronic pressure sensor, the hydrophore, depending on the water intake, only operates with the power that is needed at any given time to maintain a constant pressure in the system. Thanks to this state-of-the-art solution, the Multi MH SMART PM is highly efficient and consumes considerably less electricity compared to classic hydro pumps. The unit can successfully replace a classic hydrophore set for drawing water, as well as serving as a pump for raising the pressure in a municipal water system. An additional advantage is that the unit operates very quietly, so it can be installed close to the living area.

FEATURES



- Frequency converter and fully electronic control - the hydrophore maintains constant selected by the user, the water pressure within the hydraulic parameters of the pump
- The use of PM motors (with permanent magnets) and a modern control system ensures high efficiency and the consumption of significantly less electricity compared to conventional hydrophores
- Gentle switching on and off of the pump motor eliminates hydraulic shocks in the water system
- Automatic start-up when water is drawn (turning on the tap) and automatic shut-off at the end of consumption (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)
  - water temperature too high
  - motor overload
  - engine overheating
  - too high or too low electrical voltage

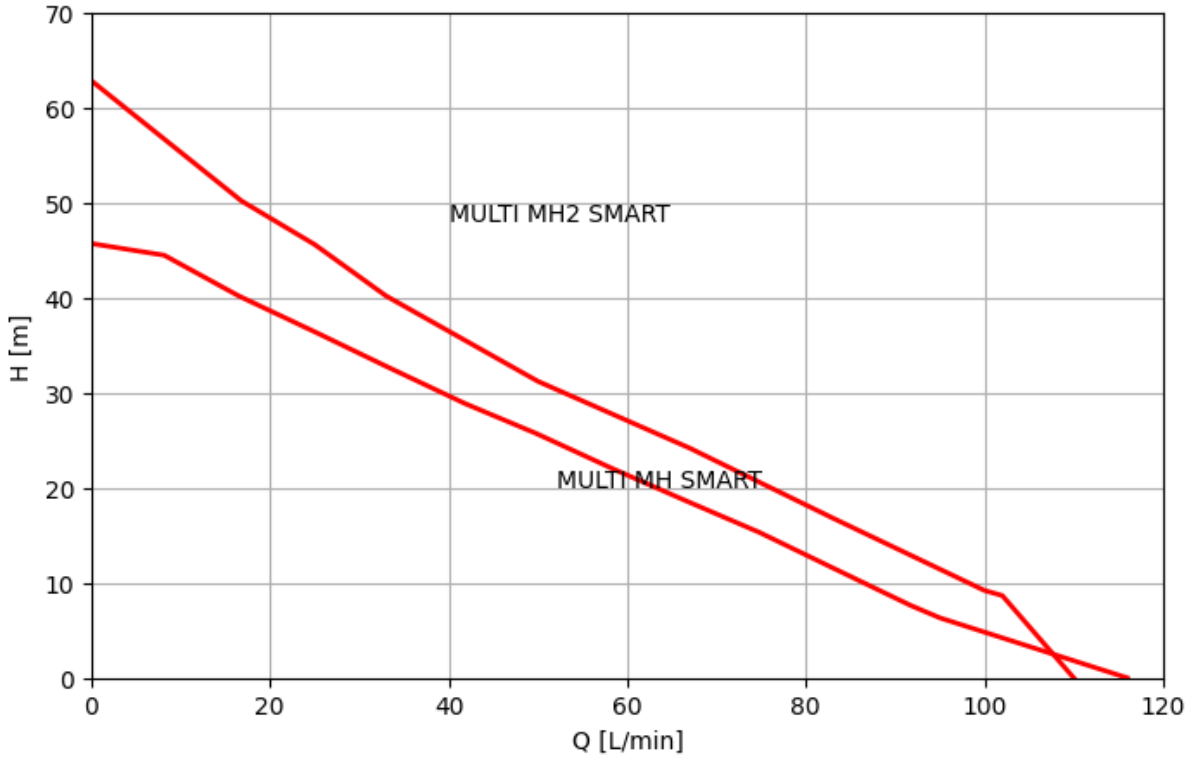
- freezing of the water in the pump casing

TECHNICAL DATA	
Max. water temperature:	0÷60^{0}C
Ambient temperature (operation)	0÷40^{0}C
Water pH	5÷8
Max. suction depth	6m
Length of power cable	1.1m
Degree of protection:	IP 44
Motor speed (no load)	4000 rpm
Max. pressure	4.8 bar
Tank pressure	1.3 bar
Insulation class	B

MATERIALS	
Pump casing	stainless steel
Mechanical gland	graphite/ceramic
Pump shaft	stainless steel
Pump base	polypropylene

Table of parameters

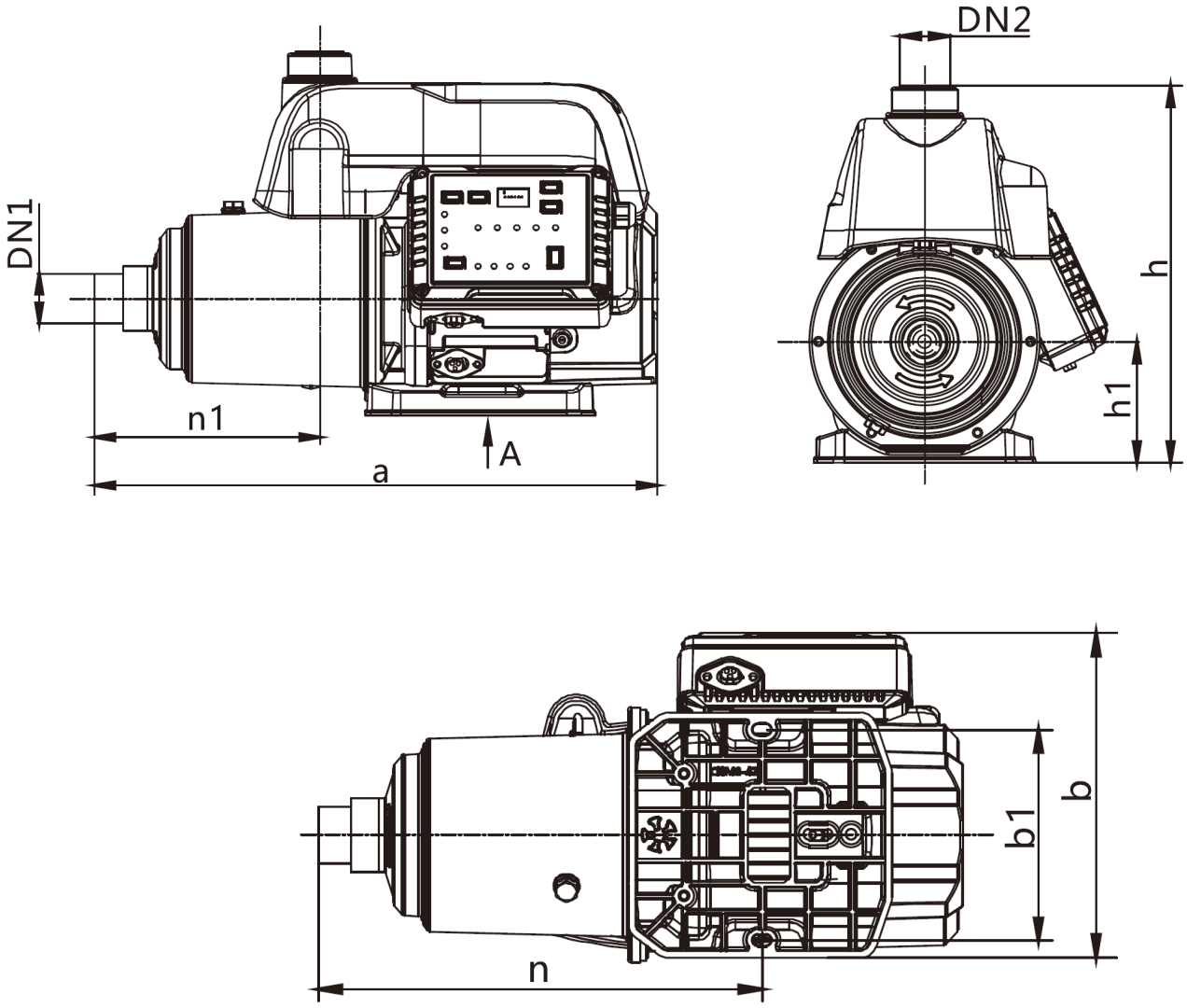
Model	Q max	H max	P max	U	I
	Performance	Lifting height	Motor power	Voltage	Current
	[l/min]	[m]	[W]	[V]	[A]
Multi MH SMART PM	**116**	**48**	**0,75**	**230**	**3,5**
Multi MH 2 SMART PM	**110**	**65**	**0,9**	**230**	**3,5**



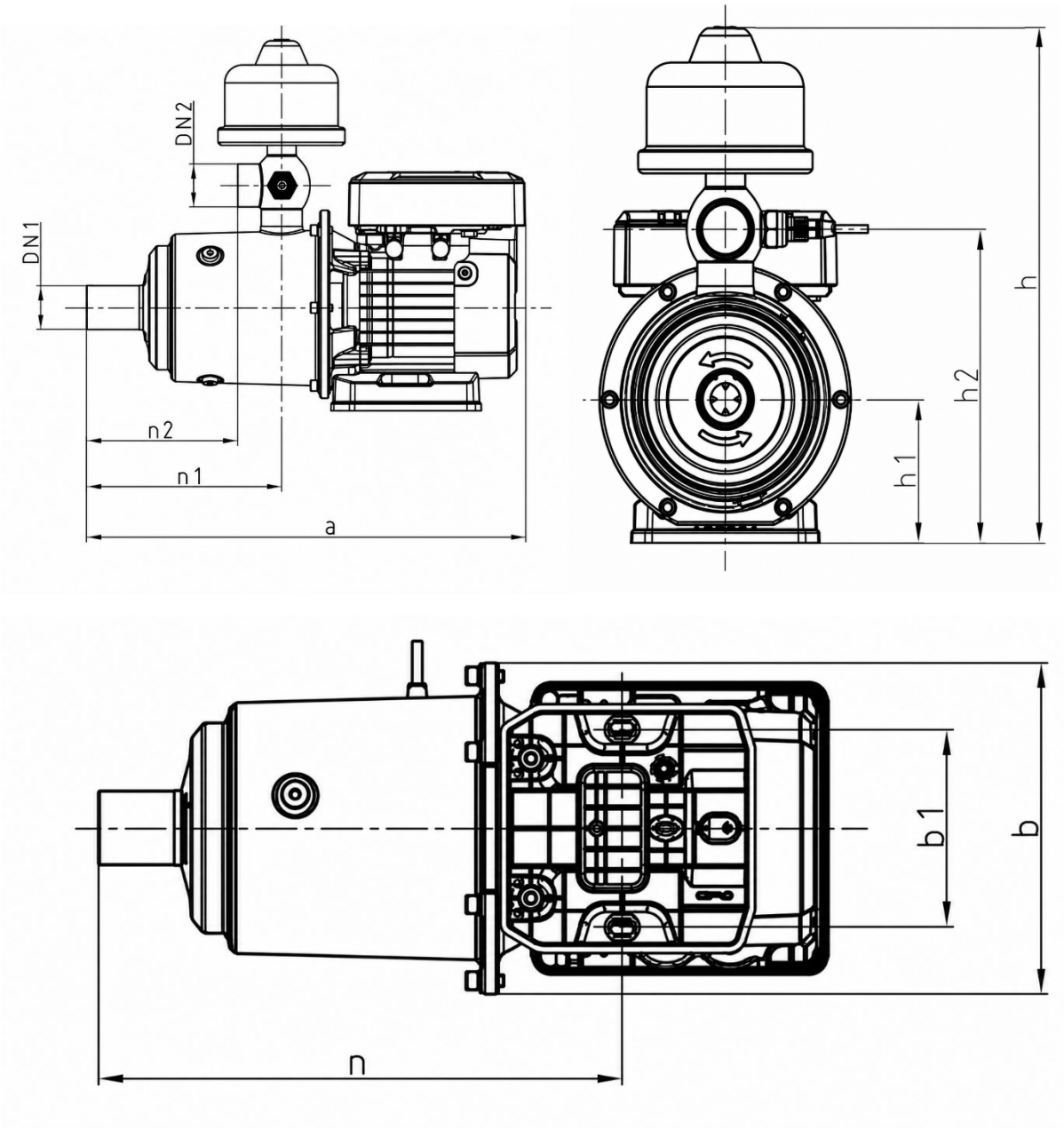
Dimensional drawing

Model	a [mm]	b [mm]	b1 [mm]	h [mm]	h1 [mm]	n [mm]	n1 [mm]	DN1/DN2 [inch/mm]	Pack size [cm]	Weight
MULTI MH SMART PM	421	212	138	273	88	290	169	1" / 25	47.2x26x32.5	9
MULTI MH 2 SMART PM	388	167	99	316,5	87,5	278	169	1" / 25	43,3x23x38,5	8,4

MULTI MH SMART:



MULTI MH 2 SMART:



The manufacturer reserves the right to introduce design modifications and product colour version changes, at any time and without any prior notice. All photos, drawings and charts are included in this document for illustrative purposes. Verification of product parameters was carried out on a selected batch. Depending on the production series, these parameters may vary. Before purchasing the product and installing it, check the specifications of the specific unit on the nameplate. The specified parameters are obtained at the device output without taking into account external factors, e.g. in pumps - resistance of the discharge and suction installation. Device parameters were obtained under laboratory conditions. Under operating conditions, there may be a difference of +/- 10 % from that indicated on the nameplate of the specific unit. The stated maximum engine power is the power given out at the engine shaft. Version 07/2026