

SMART PLUS

Permanent magnet Variable frequency pump



0.37Kw-0.75 Kw



1.5Kw -2.2 Kw

Overview

- SMART PLUS series is multi-stage centrifugal permanent magnet variable frequency pump head .
- Pump casing is fabricated from SS 304 material.
- It is fitted with an intelligent micro-processor controller for constant pressure operation.
- Adjustable pump speed through built-in VFD controller.
- Possibility to connect two pumps in series with additional piping work only without the necessity of additional control panel
- The controller can drive single pump or two pumps in parallel as Duty/Assist or Duty/ Standby operation.
- Energy and power savings due to the high efficiency permanent magnetic motor.

Application

Domestic water supply for Villas and light Commercial use where a pressure boosting is required.

Operating Limits

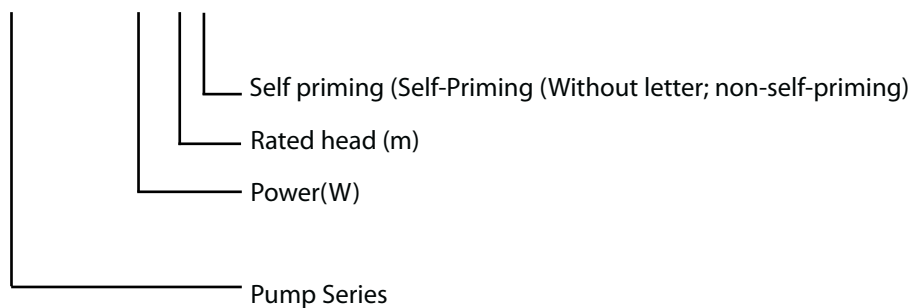
- Ambient temperature: 50°C
- Liquid temperature < 75°C
- Protection: IPX5
- Insulation: Class F

Material

- Pump body: Stainless steel 304
- Impeller: Stainless steel 304/ Composite
- Motor shaft: Stainless Steel 304
- Mechanical seal: Graphite/ Silicon Carbide

Type key

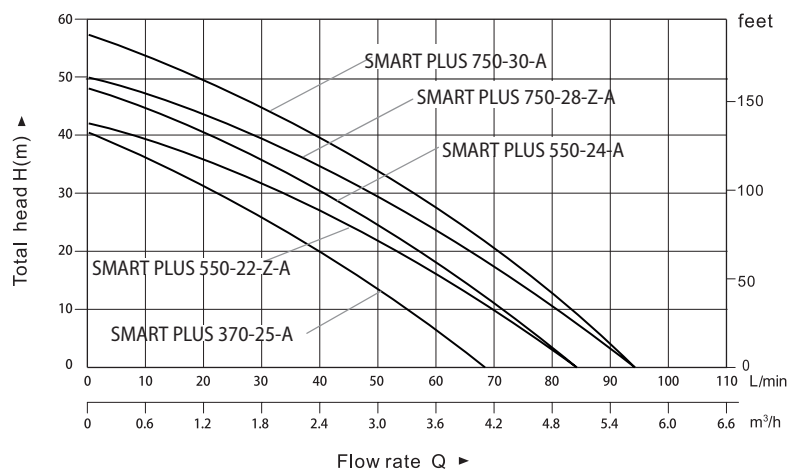
SMART Plus 370-25-Z-A



Features

- Equipped with Intelligent pump controller and pressure vessel for more convenient solution for household application, with less footprint than traditional system.
- High efficiency motor for lower energy consumption.
- Low noise level
- Easy maintenance and user friendly programming.
- Low and high temperature protection through internal temperature sensor to monitor water temperature.
- Overload protection
- Leak detection
- Dry run protection

Performance curve

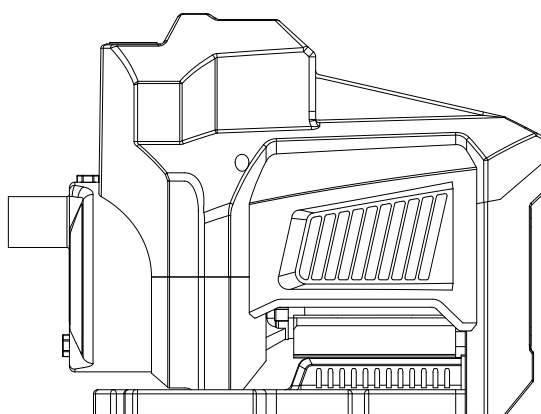


Technical table

Model		Voltage	Power KW	Max. Flow m3/h	Max. Head m	Rated Flow m3/h	Rated head m	Inlet/Outlet	Max Suc. m
SMART PLUS 370-25-A	Silent	160~260V 50/60Hz	0.37	4	40	1.8	25	1"/1"	5
SMART PLUS 550-24-A			0.55	5	48	3	24		5
SMART PLUS 750-30-A			0.75	5.5	58	3	30		5
SMART PLUS 550-22-Z-A	Self priming		0.55	5	42	3	22		8
SMART PLUS 750-28-Z-A			0.75	5.5	50	3	28		8

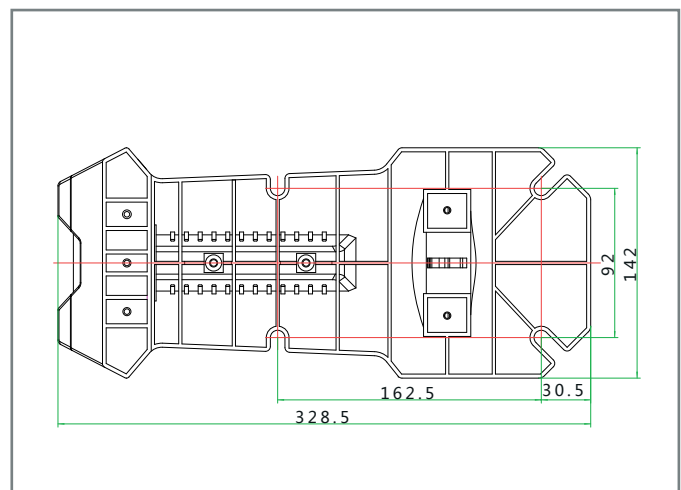
Dimensions

For Models 0.37Kw-0.75 Kw

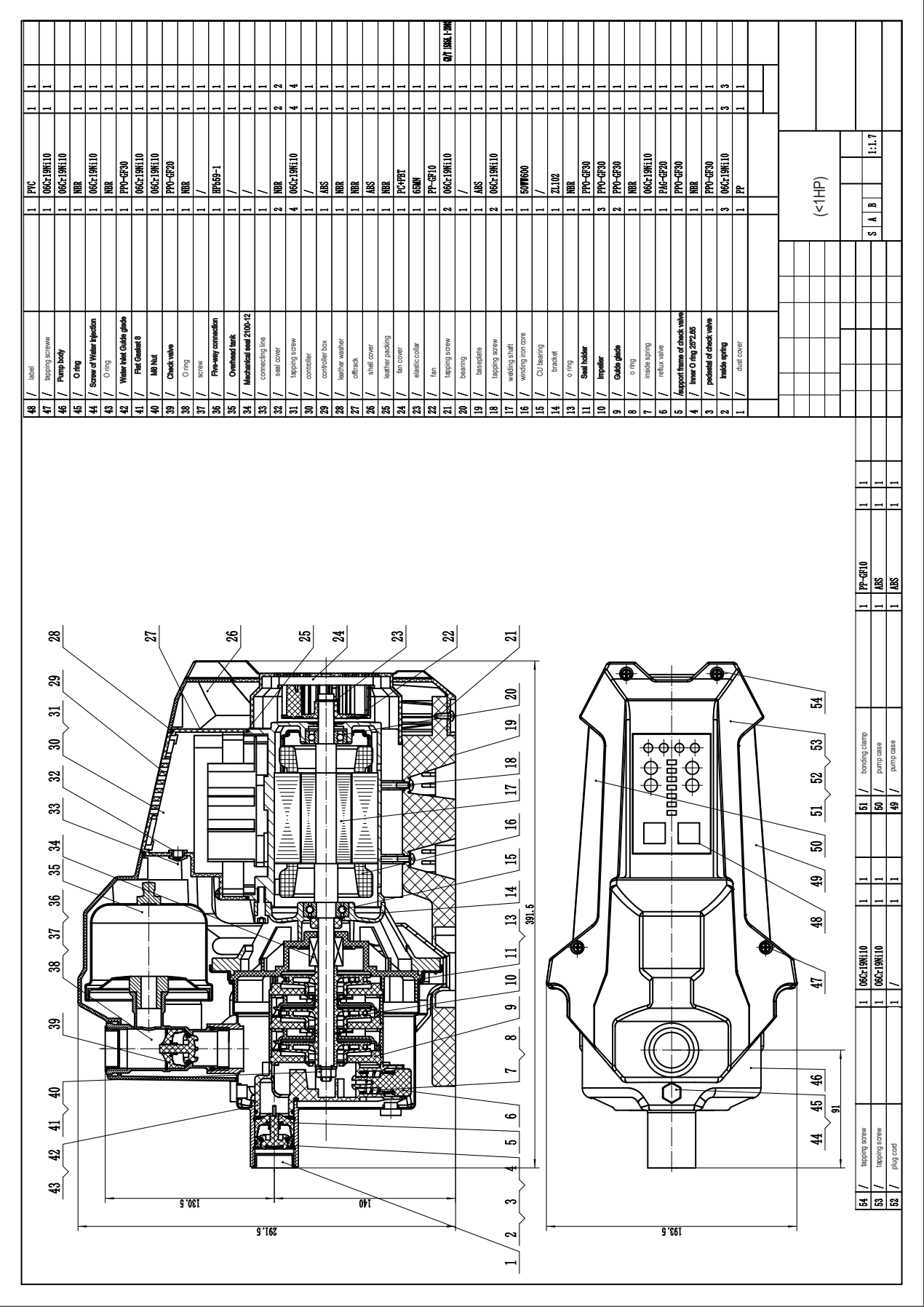


PRODUCT DIMENSIONS : 390x195x290

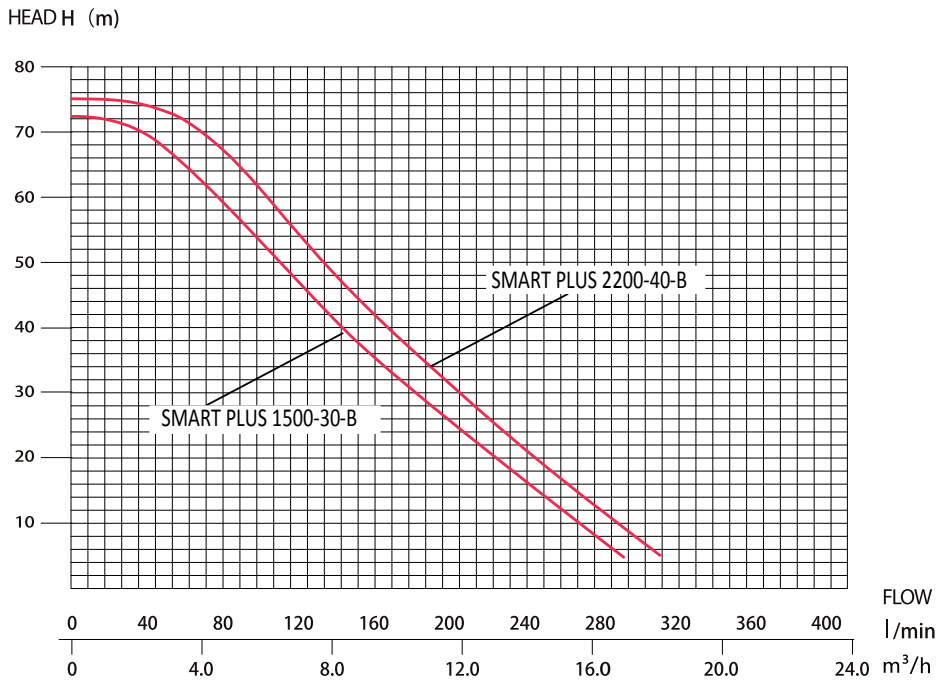
Inlet/Outlet: 1" x1"



Exploded view for models up to 0.75kW



Performance curve

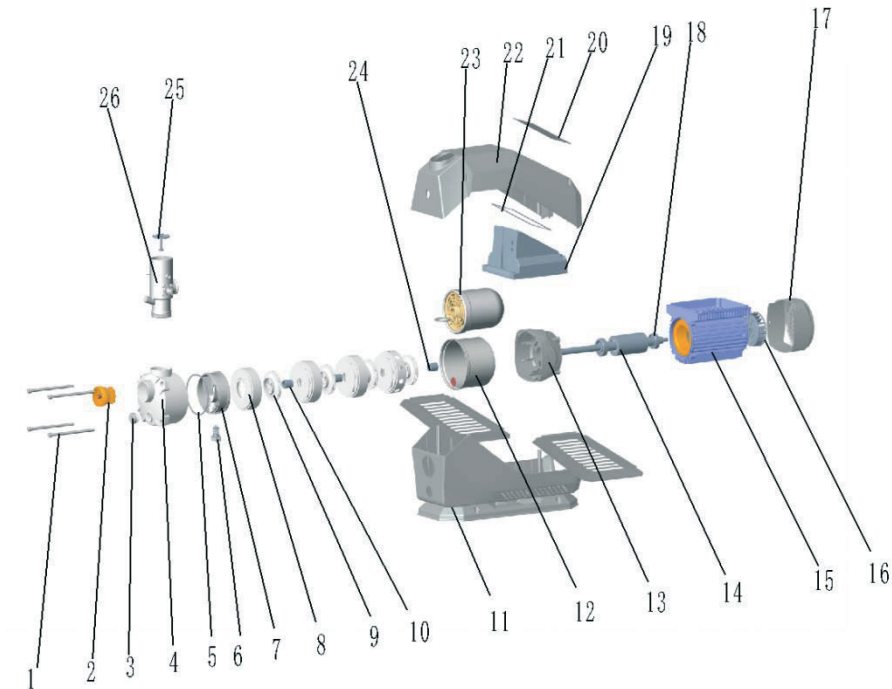


Technical table

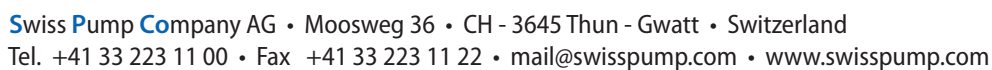
Model	Voltage	Power KW	Max. Flow m3/h	Max. Head m	Rated Flow m3/h	Rated head m	Inlet/ Outlet	Max Suc. m
SMART PLUS 1500-30-B	220V± 20%	1.5	17	73	10	32	2"	8
SMART PLUS 2200-40-B	220V± 20%	2.2	18	75	10	40	2"	8

Exploded view

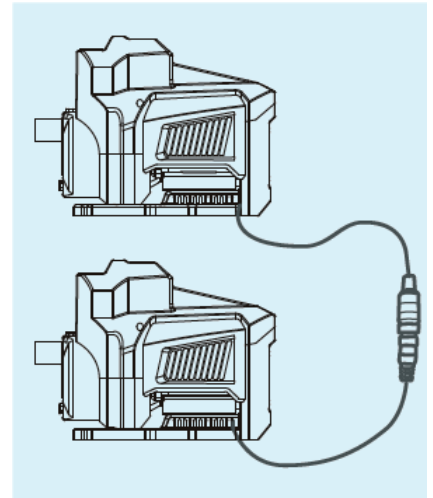
for models 1.5 Kw and 2.2 Kw



Part No	Part Description	Part No	Part Description
1	Bolts	14	Rotor
2	Check Valve	15	Motor
3	Drain Plug	16	Fan
4	Pump body	17	Fan Cover
5	Gland	18	Bearing
6	Check Valve	19	Controller
7	Water Inlet guide vane	20	Control board
8	Diffuser	21	Gland
9	Impeller	22	Outer Cover (Housing)
10	Bearing	23	Pressure tank
11	Outer Cover (Housing)	24	Mechanical Seal
12	Seal Housing	25	Check Valve
13	Bearing housing	26	5-Way Valve



Double pump system



In case of 2 pumps in operation they will be connected by USB data cable.

SMART PLUS pumps can be operated as standalone or Duty/Assist, Duty/Stand by system.

In case of operating two pumps in parallel mode, you need to define the master pump from the control panel by pressing  button for 3 Seconds.

When 2 pumps working in parallel; first pump will run to achieve the set point pressure, if the demand increased beyond the capacity of first pump, then second pump will run to assist the first pump and keep output pressure as per the set point.

In case of failure of any pump, it will be automatically drawn out from the system and only one pump will keep working.

Alternating operation will ensure equal run-time for both pumps to enhance the life time for the system.