

# ESV-series

CPU-controlled  
Auto Booster Silent Pumps



EVERGUSH®

50Hz



ESV200



ESV400



ESV800



Optional-ESV pump with water-proof cover

## Features

- All-in-one booster pump unit, The ESV pump is mainly consisted of pump, motor, flow sensor, pressure tank and CPU board.
- Auto run and boost water pressure while water is consumed. Auto stop running while no water is consumed.
- Dry-running shutdown protection- To avoid motor coil burnout, ESV pump will shut down within 1 minute when dry running occurs.
- Built-in thermal protector can prevent pipeline burst due to abnormal frequent on/off.
- Low noise operation; Compact design for space saving.
- Always keep stable water pressure while using (hot) shower.

Model	Power	Activation Pressure
ESV200	1/4HP	1.4~1.6 bar
ESV400	1/2HP	1.8~2.0 bar
ESV800	1 HP	2.3~2.5 bar

● Pre-set activation pressure is adjustable by professionalist

## Operating Conditions

- Ambient Temp.: Max.40°C.
- Liquid Temp.: 0~40°C.
- Relative humidity: Max.85%(RH).
- Working pressure: Max. 5 bar.
- Before starting the pump, make sure inlet pressure is lower than factory pre-set activation pressure.
- Suitable liquid: Drinking water or clean water without solid particles or non-corrosive fluid.

## Applications

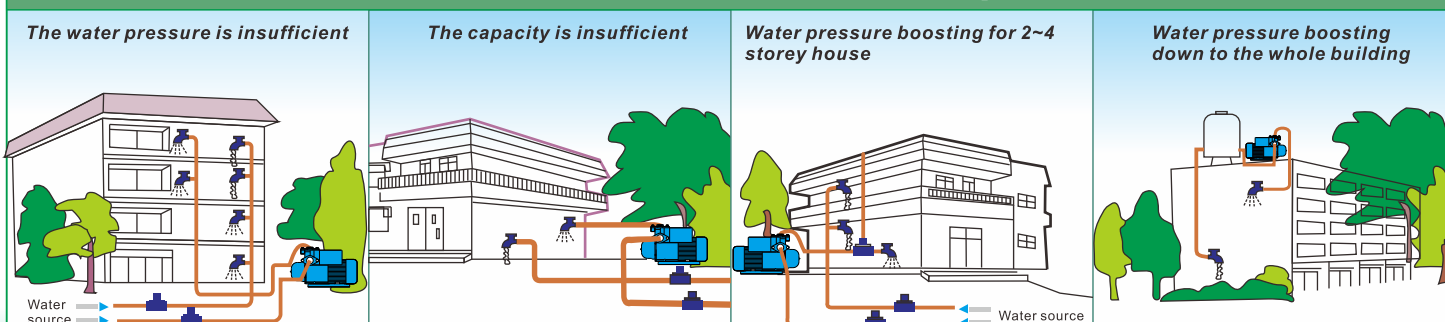
- Auto boost water pressure to the house, apartment, villa, school, restaurant, school, beauty shop,...etc.
- Auto boost water pressure to garden sprinkler, heater, toilet, washing machine, sanitary equipment,...etc.

## Motor Spec.

- Voltage: 1Ø220~240V /50Hz.
- Enclosed class: IP54.
- Insulation: E,B class.
- Enclosed Fan cooled, 2P motor.
- Built in overload motor protector.



## Installation of ESV Pump



The water pressure is insufficient

The capacity is insufficient

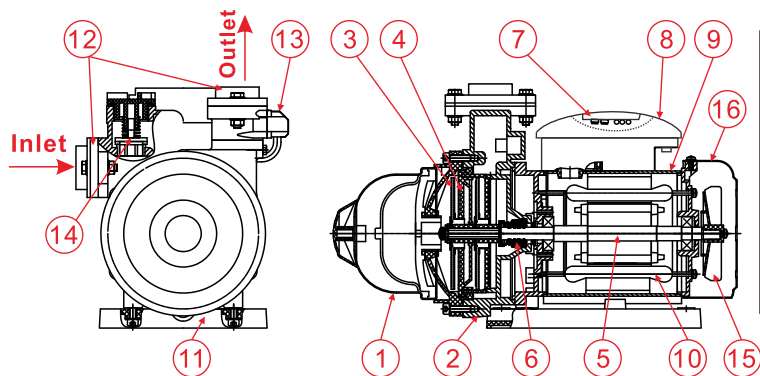
Water pressure boosting for 2~4 storey house

Water pressure boosting down to the whole building

Water source

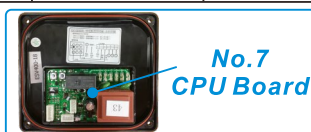
Water source

## Sectional View & Materials

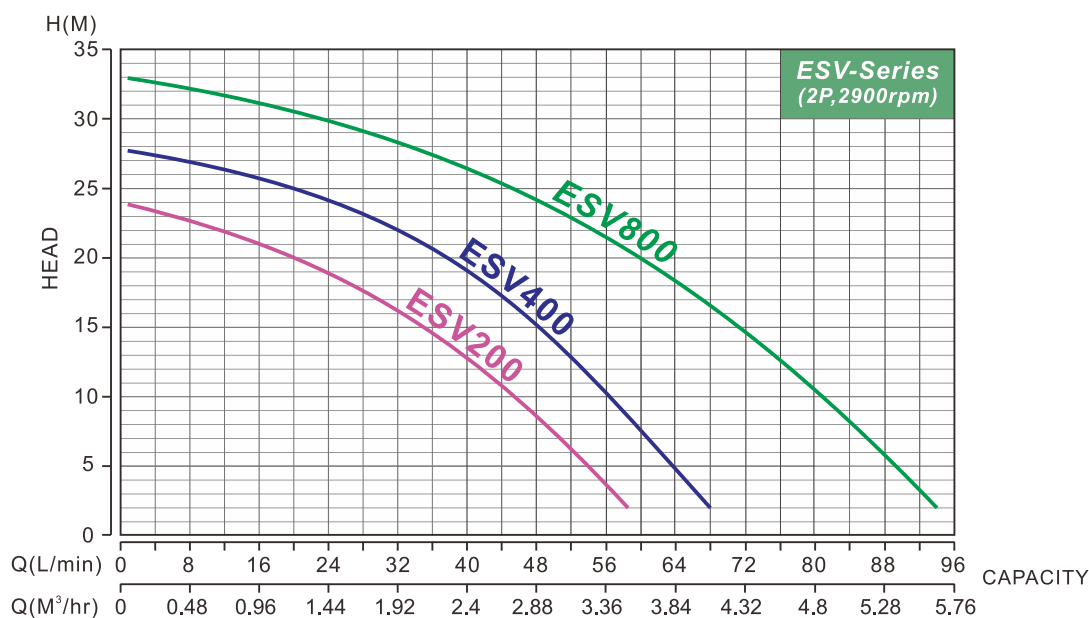


NO.	Name	Material
1	Pressure Tank	SUS304
2	Pump casing	FC200
3	Impeller	SUS304
4	Guide Vane	PPO
5	Shaft	SUS420
6	Mechanical Seal	CA/CE
7	CPU board	

NO.	Name	Material
8	Terminal Box	ABS
9	Motor Shell	Aluminum Alloy
10	Motor Coil	Copper
11	Base	ABS
12	Flanges	FC200
13	Flow sensor	
14	Check valve	NYLON66
15	Motor fan	ABS
16	Back cover	ABS



## Performance Curves

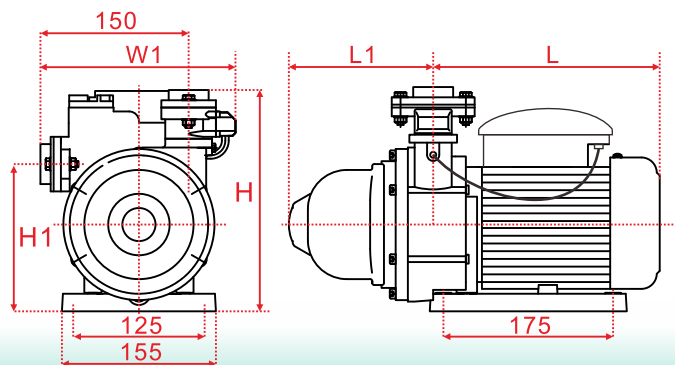


## Specifications

Model	Power		Inlet/Outlet		Pole	Phase	Voltage	Pressure		Rated Head	Rated Flow	Max. Head	Max. Flow
	W	HP	Inch	mm				On (bar)	Off (bar)				
ESV200	180	1/4	3/4"	20	2	1	220~240	1.4~1.6	2.4	15	35	24	60
ESV400	370	1/2	1"	25	2	1	220~240	1.8~2.0	2.8	20	38	28	70
ESV800	750	1	1"	25	2	1	220~240	2.3~2.5	3.3	25	45	33	95

Suction Lift: Max. 4M

## Dimensions



Model	Dimensions (mm)					Net Weight (KG)
	L	L1	W1	H	H1	
ESV200	215	168	210	235	150	11.0
ESV400	235	168	210	235	150	12.6
ESV800	260	168	210	235	150	14.3