EVERGUSH®
SINCE1969

V-APH AUTO BOOSTER PUMP INSTRUCTION MANUAL

CE

NO RUSTY WATER

Optional-With water-proof Cover

V-APH QR CODE

ASIA AUTOMATIC PUMP CO.,LTD
http://www.evergushpump.com.tw/en

ISO9001 CERTIFIED

MADE IN TAIWAN

OPERATION

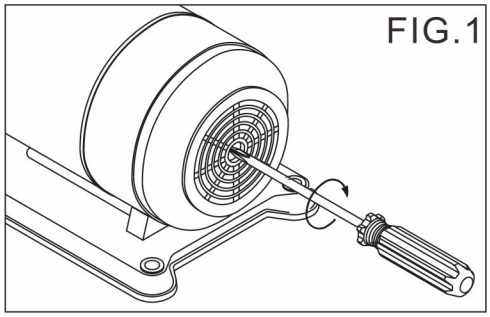


FIG.1

1.Make sure of using the right voltage.
2.Remove the priming cap and pour water into the pump and suction piping ,then secure the plug.
3.Insert a screw driver cross into the shaft slot, and turns the shaft 2-3 rounds to check if the pump runs normally, then open one faucet on the delivery side, then turn the power switch ON.(FIG.1)
4.After the power switch on, the motor should turn immediately.After a few seconds, the water should be delivered.
5.If the water does not be delivered immediately,turn the power OFF. Repeat step 2 and set power ON/OFF continuously to make the suction piping be filled with water.
6.Once the water is pumped out, close the faucets on the delivery side to check the automatic stopping and pumping operation

IMPORTANT NOTES

1.Use the right voltage and wiring by the connecting diagram.Motor must be grounded in compliance with applicable electrical code to avoid accident.
2.Please use a sturdy foundation and bolt the pump to it securely.
3.Be sure to arrange earthling or circuit breaker against electric leakage.
4.The pump should be supplied through a residual current device(RCD)having a rated residual operating current not exceeding 15mA.
5.The pump should be installed as close as to the reservoir or well avoid the low efficiency due to the long suction pipe.
6.The location must be dry with good ventilation and adequate space.
7.Do not run without water actually pumping. Do not operate hot water (more than 40℃), or the other liquid except normal water.
8.Be careful not to allow the foreign matter(chips,dirt,sand,glue,etc) into the pump, or they will damage and shorten the life of pump.
9.Piping joints should be fitted carefully to prevent leakage.
A. Leakage in the suction piping will cause the pump does not function well.
B. Leakage in the discharge piping will cause a high frequency ON /OFF motor operation while all the faucet and valves are closed.
10.Keep the faucets opened fully to get more efficient operation. Never keep continuous operation under the condition of half open.
11.If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.

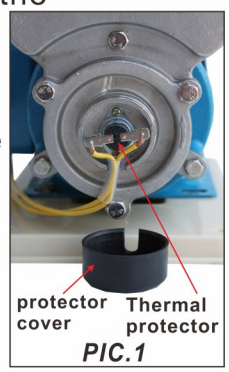
TROUBLESHOOTING

(Turn the power switch OFF before fixing.)

1.MOTOR FAILS TO START OR RESTART AFTER A SHORT-TERM RUNNING

The overheating protector is mounted directly on the motor windings. It will stop the motor automatically when the motor temperature is up to abnormal,and restart the motor after the temperature back to normal in 20 Minutes.

A. Check the electrical power source, fuse, and circuit breaker.
B. Check if pump is locked by rust or foreign objects.
C. Check if the ventilation of the location is bad for causing the overheating of motor.
D. Check if thermal overload protector is disconnected or breakdown. If it's failure , it must be replaced by service agent.



PIC.1

Warning: Don't open the cover or touch thermal protector at random unless turn off power by technicians.(PIC.1)

2.PUMP CYCLES FREQUENTLY WHILE ALL THE FAUCETS AND VALVES ARE CLOSED:

a.Check and fix the leakage in discharge piping,faucets,and valves.

b.Clean pump check valve which may be locked by foreign objects.

3.PRESSURE SWITCH FAILS TO FUNCTION

The pump's pressure switch has been set accurately.Please do not try to adjust except by qualified personnel.

a.If the motor does not start after any of the faucets or valves are opened,adjust the pressure setting screw to the "+" direction (counterclock-wise)until the motor starts.(FIG.2)

b.If the motor fails to stop after all the faucets and valves are closed, adjuts the pressure setting screw to the "-"direction(clockwise)until the motor stops.(FIG.2)

c.Repeat step(a)and (b)until the pump works normally.

APPLICATIONS

1.Directly and automatically supply water to the building without roof water tower.

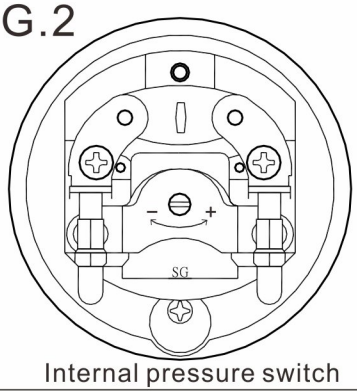
2.Automatically increase pressure as soon as the insufficient water pressure occurs in the top floor.

3.To be used on supplying water for washing machine and heater if water pressure is too low.

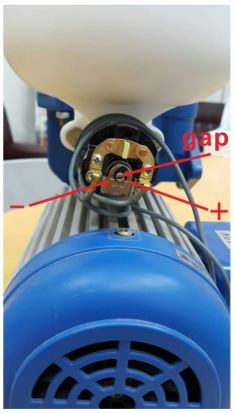
4.To drain accumulated water for civil and architecture engineering,to be applicable to the skyscraper villa, pond and farm.

5.To be used on circulating water for garden and on supplying water for auto car-washer.

FIG.2



Internal pressure switch



When power is on, Never touch the gap or internal pressure switch with your hands. If pressure switch fails to function, open cover and use flat screwdriver to rotate the gap slightly until the pump works normally.

SPECIFICATIONS

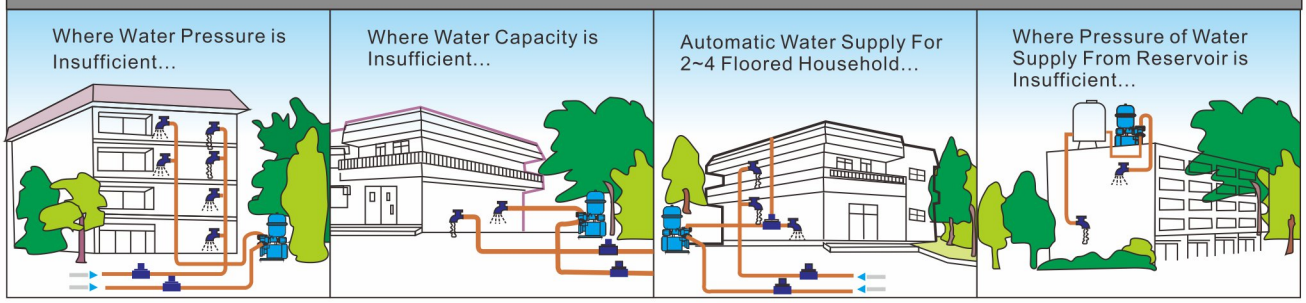
V460APH

- *Equipped with thermal overload protector*
- *Engineering Plastic Pump casing*
- *Aluminum motor shell*
- *Model Number*
- *Auto Booster Pump Model*

MODEL	Bearing	Mech.seal	Capacitor
V260APH	6201ZZx2	11mm	8UF/450V
V460APH	6201ZZx2	11mm	12UF/450V

Model	Cycle	Power		PH	Voltage	Inlet	Outlet	Pressure setting		Max.H	Max.Q		N.Weight
	HZ	HP	W	Ø	V	Inch	Inch	On(MPa)	Off(MPa)	M	L/min		Kg
V260APH	50	1/4	180	1	220~240	3/4"	3/4"	0.10	0.20	23	32	1~2	6.8
V460APH	50	1/2	370	1	220~240	1"	1"	0.14	0.24	31	42	2~3	8.0

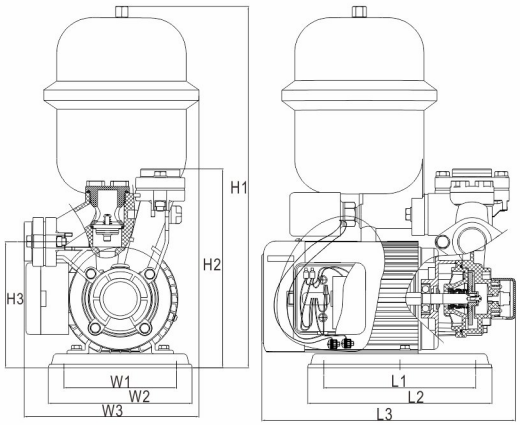
Auto booster pump applications



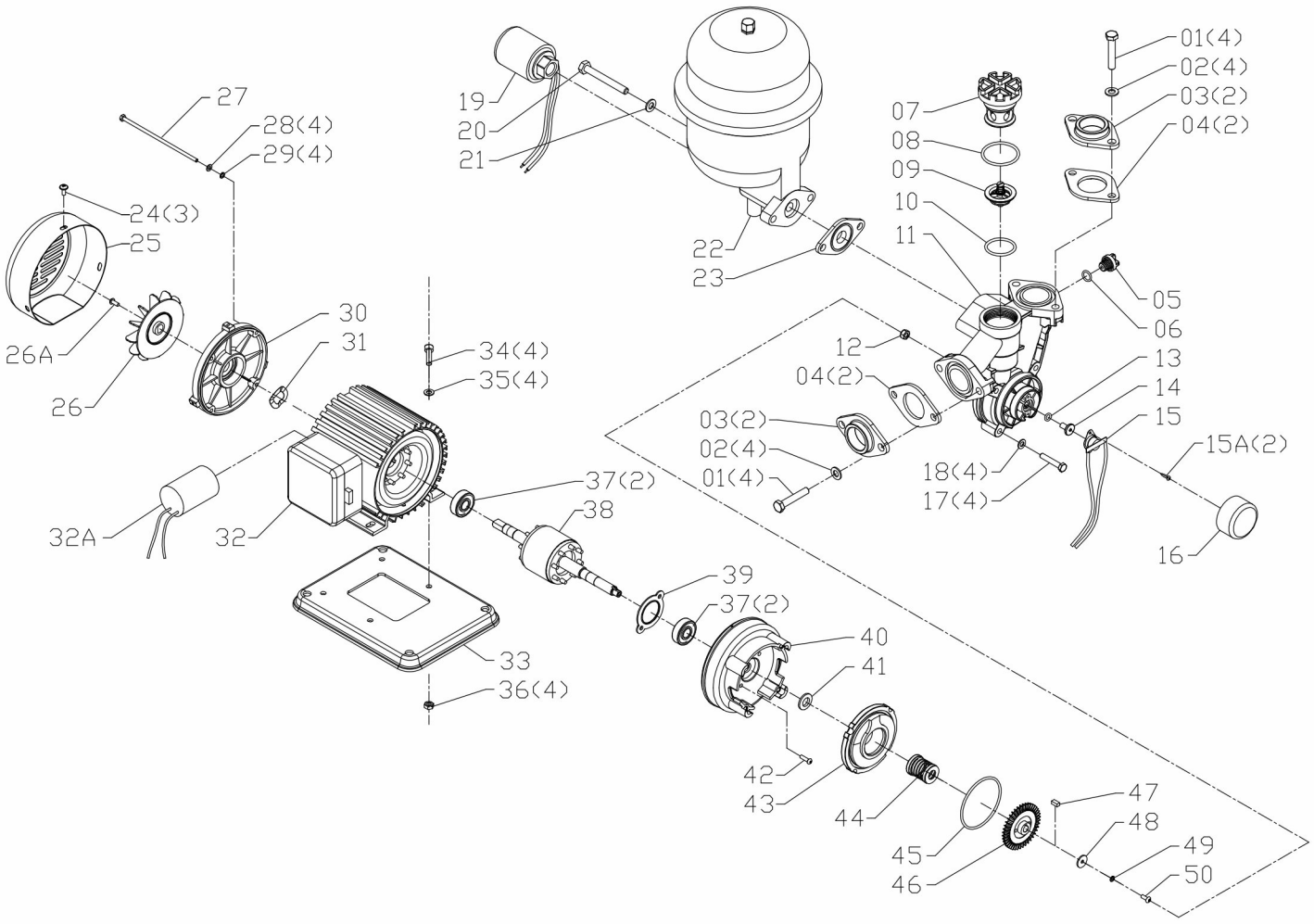
DIMENSIONS

unit:(mm)

Model	H1	H2	H3	W1	W2	W3	L1	L2	L3
V260APH	413.5	227.5	144	129	165	200	174	211	270
V460APH	413.5	227.5	144	129	165	200	174	211	290



EXPLODED VIEW



NO.	NAME	NO.	NAME	NO.	NAME	NO.	NAME
1	Bolt M8x35	14	Screw(For Thermal sensor)M6	26	Fan(For Motor)	37	Bearing
2	Washer M8	15	Thermal Sensor(Protector)	26A	Screw(Round Cross) M4x10	38	Main Shaft with rotor
3	Inlet / Outlet Flange (3/4" or 1")	15A	Screw(Round Cross)	27	Screw(Round Cross) M4x125(V260APH) M4x145(V460APH)	39	baffle(For Bearing)
4	Inlet / Outlet Gasket	16	Cover (For Thermal Sensor)	28	Flat Washer M4	40	Front Cover(For motor)
5	M12 Screw Plug	17	Hex Screw M6*40	29	Spring Washer M4	41	O-ring
6	O-Ring (Inside Diameter:φ12xφ2)	18	Flat Washer M6	30	Back Cover(For motor)	42	Screw(Round Cross) M4x22
7	Cover (For Check Valve)	19	Pressure Switch	31	Wave Gasket	43	Pump Cover
8	O-Ring (For Cover) (Inside Diameter:φ40xφ3)	20	M8x40 Self-tapping screw	32	Junction Box	44	Mechanical Seal
9	Check vavle assembly	21	Flat Washer M8	32A	Capacitor	45	O-Ring (Inside Diameter φ69.5xφ2.65)
10	O-Ring (For Check Valve) (Inside Diameter:φ32xφ3)	22	Pressure Tank(Diaphragm)	33	Bottom Plate(Base)	46	Impeller
11	Pump Body	23	Gasket (For Pressure tank flange)	34	Hex Screw M6*14	47	Flat Key 3x*7
12	Square Nut M8	24	Screw(Round Cross) M4x8	35	Flat Washer M6	48	Flat Washer M4
13	O-ring (Outer Diameter:φ16xφ2)	25	Fan Cover(Black)	36	Hex Nut M6	49	Spring Washer M4
						50	Screw(Round Cross) M4x8