



### **HY-110 Vapor-Recovery-Vacuum-Pump**

Input Voltage: 220V/380VAC  
Power:120W  
Maximum speed: 2800 rpm  
Current: 1.2/0.4 A  
Maximum flow: 80L/min  
Maximum vacuum: 0.025 Mpa  
Inlet & outlet size: BSPT 1/2"



### **HY-80 Vapor-Recovery-Variable-Frequency-Vacuum-Pump**

Input voltage: 36 VDC + 15%  
DC frequency conversion power: 45W  
Speed:0-1500rpm  
Current: 2A  
Maximum flow: 80L/min  
Maximum vacuum: 0.04 Mpa  
Inlet & outlet size: BSPT 1/2"

Above two pumps are oil free and maintenance free, with a long service life, suitable for both mechanical and electronic proportional valves. Both the inlet and outlet are equipped with integrated flame arrester, ensuring safe using. The pump can be flexibly installed in different directions.

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HB Equipment shall be used in compliance with applicable country, province and local laws and regulations. Products selection shall be based on physical specifications and limitations and compatibility with the environment.

Add:Bali Village Qiaoxia Town, Yongjia County, Wenzhou City, Zhejiang Province, China.

**HY-60C Type of Vapor-Recovery-Vacuum-Pump** is a vacuum pump suitable for stage 2 recovery and transformation of gas stations. The pump has the characteristics of simple structure, reliable performance, low noise, light weight and beautiful appearance. The pump can also be used to pump flammable and explosive gases such as gas, coal gas, hydrogen and petroleum cracking gas, and is mainly used in the packaging industry, machinery industry, petrochemical industry and other industries. Suitable for single-gun and double-gun refueling machines.**(Key Words: vapour recovery pump)**



**HY-60C Vapor Recovery Vacuum Pump with Double Pump Heads**

Pump Head Material: Aluminum  
Work pressure:0.04-0.1MPa  
Maximum flow:140L/min  
Operating temperature:-25℃-+50℃  
Maximum vacuum:0.05MPa  
Voltage :380V 50Hz/220V 50Hz  
Motor power:370 W  
Motor revolution:2800rpm  
Noise:55dB



**HY-60C Vapor Recovery Vacuum Pump with Single Pump Head**

Pump Head Material: Aluminum  
Work pressure:0.04-0.1MPa  
Maximum flow:70L/min  
Operating temperature:-25℃-+50℃  
Maximum vacuum:0.05MPa  
Voltage :380V 50Hz/220V 50Hz  
Motor power:370 W  
Motor revolution:2800rpm  
Noise:55dB

## **HB-NP-80 Type of Vapor-Recovery-Vacuum-Pump**



**HY-60C Vapor Recovery Vacuum Pump Head**

The HB-VP-80 type vapor recovery vacuum pump is a product independently researched and developed by our company. Its performance characteristics and advantages are as follows:

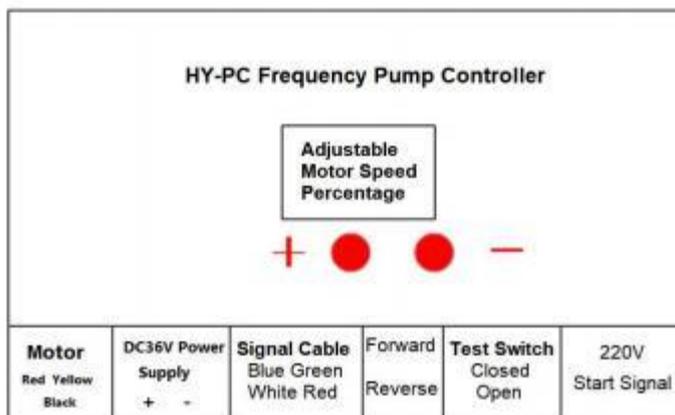
Integrated motor drive structure, small volume, light weight.Variable frequency brushless motor, adjustable speed percentage through buttons +/- . Precisely adjust the gas-liquid ratio.

The electromagnetic valve starts without the need for encoder signals, avoiding the risk of breaking the line. The motor power line and signal line are integrated into one, greatly saving internal space of the fuel dispenser and facilitating installation and subsequent maintenance. The motor is internally equipped with a wiring plug-in module, which can achieve quick connection and disconnection of the integrated cable. When maintenance and replacement are needed, the cable and vapor recovery pump can be quickly separated and replaced separately, without the need for overall replacement. The controller has built-in protection functions. If it does not start, simply plug it in again.

It can be used for various brands of fuel dispensers.

Technical Parameters:  
 Dimensions:119x122x 26.5 mm  
 Operating Temperature: -20℃ to +40℃  
 Ambient Pressure: 80kPa to 106kPa  
 Flow Range: 0-70L/min  
 Rated Voltage: 36VDC  
 Speed Range: 0-1500r/min  
 Rated Power: 85W  
 Air Interface: φ 12  
 Vacuum Degree: ≤-0.05MPa  
 Noise: ≤65db

### HY-PC Frequency Pump Controller



### Working principle and wiring method:

Wiring method for 220V starting signal: Connect the electromagnetic valve's main valve (black wire and brown wire). When the nozzle is lifted, the main valve has no power, and the vapor recovery pump does not work. When refueling, the main valve has power, and the pump starts working. Connect the electromagnetic valve's small valve (black wire and blue wire). When the nozzle is lifted, the small valve has power, and the vapor recovery pump starts working as soon as the nozzle is lifted.

**Note:** Connecting the main valve can effectively reduce wear and tear on the vapor recovery pump, reduce noise, and increase lifespan.

The motor speed percentage can be adjusted from 35% to 100%, and the motor does not start if it is below 35%. After the vapor recovery pump is installed, turn on the test switch, manually start the pump, and check if the intake and exhaust directions are correct. If the direction is incorrect, toggle the forward and reverse switch until the correct direction is achieved.

**Integration of vapor recovery pump cable:** The power cable of the variable frequency motor and the signal cable of the frequency control board are integrated into one, and the single-cable design scheme greatly facilitates the installation and subsequent maintenance work when matching the fuel dispenser. After one end of the integrated cable is connected to the power control board and the frequency control board, the other end passes through the compression nut, explosion-proof pipe, and explosion-proof sealing ring, and enters the inside of the motor. It is docked with the integrated plug-in module built into the motor shell. In the subsequent maintenance process, if it is found that the vapor recovery pump needs to be repaired or replaced, only the integrated cable needs to be separated from the plug-in module.

Pump head alone and other supporting cooperation products are also available for sale for easy repair or replacement.



**HY-FC Vapor Recovery Frequency Controller**



**HY-PS Power Supply AC220V or DC36V**



**HY-PC Frequency Pump Controller**