

valves V1~V5 and Programmable Logic Control (PLC) together with Touch Screen Panel TP170.

The system is controlled by two modes: manually control or automatically control.

When manually operation, Pumping, Wet or Dry gas filling can be done by single Step operation.

When automatically, the system can run automatically step by step following predefined requirements (including vacuum pressure limit, Wet gas clean cycle counts, Dry gas clean cycle counts, Vent Off-Delay.) No manually operation is necessary and running status can be displayed through indicator light and high vacuum gauge. In the automatic cycle, vacuum pump keeps running and merely various valves need to be switched on or off as required.

Switching between automatic and manual control is processed by pressing different touch switches, manually operations include Run-m, Pumping, Fill wet gas, Fill Dry gas, Reset and Return touch keys. Under auto mode it can be started by pressing Run-A touch key. Reset key is used to break and reset when the system is running. P1~P3 are display pressure/vacuum values state, which are pre-set (Note: zero air-filling pressure limit for P1 is 30 psi, P2 means vacuum limit for pumping conversion to next filling, P3—final vacuum pressure value), and can be modified when needed. Cycle Value and Vent