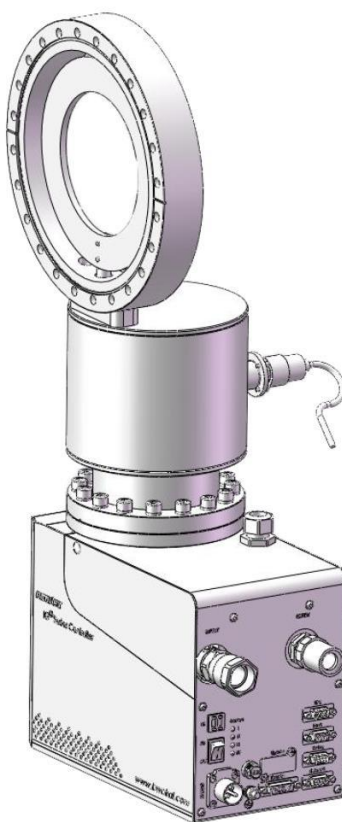


IWG200CF Type E ultra-low temperature cryotrap

Pump head type:
IWG200CF

serial number:
131250



The IWG series ultra low temperature cryotrap is a high performance vacuum pump that can increase the speed of water vapor extraction, thereby essentially improving the system. Capacity and provide better process results. Available in a variety of configurations and sizes for a variety of applications, these pumps are available for work flexibility, advanced productivity, and field-proven reliability are expected and required by today's manufacturers.

1、Main property

- 1) The time to reach the background vacuum is reduced by 50% to 75%.
- 2) Increased output through reduced water vapor presence and low pollution.
- 3) Full pumping speed direct 10^{-9} Pa, Partial pressure of water vapor is accessible 10^{-11} Pa
- 4) Optional extraction of water vapor with temperature control, no isolation valve required.
- 5) Installation and operation costs are low and compressors can be placed remotely without refrigerant pipelines.
- 6) Clean and reliable.
- 7) The advanced IG control system can optimize the process, monitor and predict maintenance, and realize network management of pump groups, easy to use
- 8) Compatibility with other IG series pumps includes common customer ports, compressors and communication protocols.

2、Application vacuum environment

The available vacuum time is the maximum operating time of the process

Since the water adsorbed on the surface of the chamber wall is slowly desorbed, the water is steamed at a pressure of less than 10^{-1} Pa

The gas content exceeds 97% in the residual gas load. Water therefore becomes a major obstacle to achieving background pressure and in many jobs

Water in the art can interfere with the chemistry and affect the production. In order to maximize the process productivity, optimizing the steam pumping rate is very important



IWG series ultra-low temperature water vapor pump is an economical way to increase water vapor pumping speed with molecular pump, diffusion pump and cryopump technology. In this way, they can significantly reduce the time to pump the bottom pressure to achieve higher productivity, while they can also reduce the number of process chambers in order to improve the process performance.

The low temperature operation of 107K can achieve the partial pressure of water vapor 10^{-11} Pa. Can pump speed up to 10^{-9} Pa, in ultra-high vacuum should

The same applies in use, the customer can set the operating temperature, optional type of extraction of water gas. For example, sputtering gas is not pumped away,

3、Major parameter

1) for H₂O speed

Single pump: 3,8000
L/s;

Together with the water molecular pump:
4,000 L/s;

2) N₂ conductance: 2,000 L/s

3) Cooling time: 15min;

4) Weight: 30Kg;

5) Operating ambient temperature: 5°C~35°C ;

6) Installation direction: any Angle;



7) Configurable handle for local or remote control.

4、Main parameters of helium compressor (HC50W)

1) Cooling method: water cooling;

2) Input power: 3.7KW;

3) Power system: three-phase 380V, 50Hz;

4) Cooling water consumption: $\geq 4.0\text{L/Min}@23^{\circ}\text{C}$ pressure,
 $0.1\text{Mpa}\sim 0.5\text{Mpa}$, water temperature
 $5^{\circ}\text{C}\sim 35^{\circ}\text{C}$;

5) Ambient temperature range: $5^{\circ}\text{C}\sim 35^{\circ}\text{C}$;

6) Protection function: water shortage protection,
over temperature protection, phase loss protection,
overload protection;

7) Angle of installation: ≤ 5

8) Weight: 120Kg

9) Size: 614L×515W×590H (mm)

5、Outline interface diagram (see attachment)

