

IG400 cryopump

一、 Pump Head (IG400)

1、 Main parameter

1) S p e e d

For H₂O: 16,000 L/S;

For Air: 6,000 L/S;

For H₂: 12,000 L/S;

For Ar: 5,000 L/S;

2) Pumping capacity:

For H₂: 24 Std.L;

For Ar: 4.3X10³ Std.L;

3) Completion regeneration time: <3.8hrs

Fast regeneration time: <1.6hrs;

4) Maximum gas volume

For Ar: 500 SCCM;

5) Switching pressure: 300 Torr.L

6) Weight: About 85Kg;

2、 Enhancements

1) With fast and complete regeneration function;

2) Intelligent "adaptive" technology

- Automatic low temperature thermal load compensation

- Variable frequency motor system

3) The cold head stage has the function of precise temperature control to prevent too low temperature from affecting the vacuum stability of the system;;

4) Automatic regeneration system: automatic pressure detection, built-in automatic heating, pulse inflation, waste discharge and other functions;

5) The cold head can be started and stopped locally and remotely;

6) With a number of pump status display and control software;

7) Installation direction: any Angle;

二、 Helium compressor (HC100W)

1、 major parameter



- 3) Power system: three phase 380V, 50Hz;
- 4) Cooling water consumption: $\geq 6.0\text{L/Min@}23^{\circ}\text{C}$ pressure,
0.1Mpa $\sim$ 0.5Mpa, temperature $5^{\circ}\text{C}\sim 35^{\circ}\text{C}$;
- 5) ambient temperature range: $5^{\circ}\text{C}\sim 35^{\circ}\text{C}$;
- 6) angle of installation: $\leq 5^{\circ}$
- 7) weight : 114Kg。
- 8) size: 615L $\times$ 583W $\times$ 590H (mm)

2、 enhancements

- 1) with water shortage shutdown protection function;
- 2) has the function of over-temperature warning and stop protection;
- 3) has protection function of missing phase stop;
- 4) with overload stop protection function;
- 5) helium deficiency warning function;
- 6) Can realize local and remote start and stop.

三、 Main accessories

- 1) Main communication interface: RS485 communication interface;
- 2) Local /Pad/ Remote monitoring Optional;
- 3) Remote operating software;
- 4) blowdown valve;
- 5) Roughing valve;
- 6) vacuum gauge;
- 7) relief valve

四、 Contour interface diagram

						装配体	BUCHAI	
								IG400真空泵接口图
标记	处数	分区	更改文件号	签名	年、月、日			
设计		24.06.11	标准化				阶段标记	
校对			审定					
审核							70.803	1:10
工艺			批准			共 1 张 第 1 张		131441