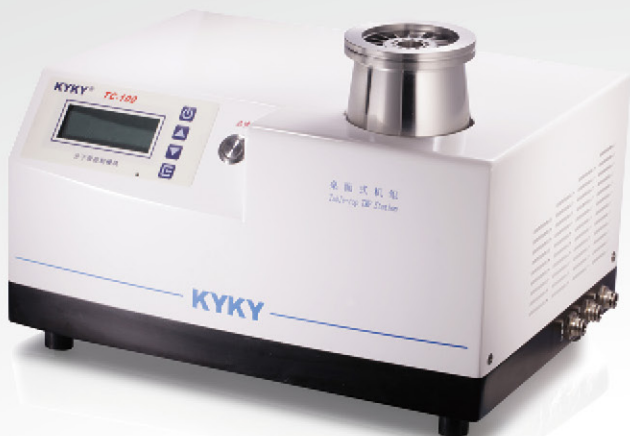


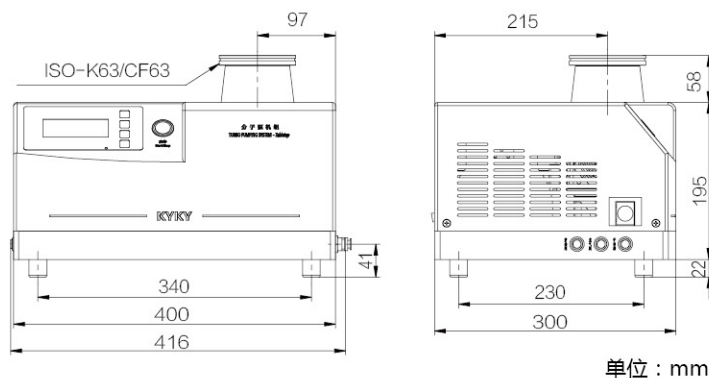
## FJ-80 分子泵机组



### 产品特点 >>

- ◆性能优异: 系统抽速高、极限真空好, 可通入大流量工艺气体
- ◆环境清洁: 提供无油真空环境, 油泵系统可有效防止油污污染
- ◆使用便捷: 便于移动, 一键延时启动, 启动时间连续可调, 接口丰富
- ◆应用广泛: 实验室科研、质谱分析、表面分析、溅射和蒸发镀膜等

### 外形尺寸 >>



### 主要配置 >>

| 型号  | FJ-80                       |          |
|-----|-----------------------------|----------|
| 组成  | FJ-80                       |          |
| 分子泵 | FF-63/80                    |          |
| 机械泵 | 干式隔膜泵                       | 油封旋片泵    |
|     | DIVAC 0.8T                  | GHD-031B |
| 过渡腔 | DN63 转 CF35/KF40/KF16 (可定制) |          |

### 性能指标 >>

| 分子泵抽气速率              | N <sub>2</sub>  | He  |
|----------------------|---|---|
|                      | 62 L/s  | 55 L/s  |
| 最大连续入口流量 *           | 100sccm   | 80sccm  |
| 最大连续入口压强 *           | 10 Pa   | 10 Pa   |
| 极限压强                 | LF  | CF  |
|                      | <3.5×10 <sup>-6</sup> Pa<br>(2.6×10 <sup>-8</sup> Torr) | <5×10 <sup>-7</sup> Pa<br>(3.7×10 <sup>-9</sup> Torr) |
| 入口法兰                 | LF 63/CF 63   |   |
| 旁抽接口                 | Φ10 快拧接头  |   |
| 出口接口                 | Φ8 快插接头   |   |
| 放气接口                 | Φ8 快插接头   |   |
| 额定转速                 | 72000 min <sup>-1</sup> (±0.5%)                         |   |
| 分子泵启动时间              | ≤ 1.8min  |   |
| 分子泵启动延时 <sup>+</sup> | 1~30min   |   |
| 前级泵                  | 干式隔膜泵   | 油封旋片泵   |
| 抽气速率                 | 0.2L/s  | 0.5L/s  |
| 极限压强                 | 300Pa   | 0.67Pa  |
| 冷却方式                 | 风冷  |   |
| 烘烤温度                 | ≤ 100°C   |   |
| 噪声                   | <55dB(A)  |   |
| 工作环境磁场               | <3mT  |   |
| 工作环境温度               | 5~40°C  |   |
| 供电                   | 220 VAC (±10%)  |   |
| 最大功耗(无负载)            | 干式隔膜泵   | 油封旋片泵   |
|                      | 255 W   | 280 W   |
| 重量                   | 干式隔膜泵   | 油封旋片泵   |
|                      | 16 kg   | 21 kg   |

\* 测试条件: 实验室条件下连续测试 10h, 风冷, 环境温度 20°C ;

<sup>+</sup> 分子泵启动延时用于控制分子泵和前级泵启动的时间间隔, 客户可根据实际情况自行设定。

分子泵和前级泵的详细技术参数及使用请参阅相应说明书!

# FJ-80 Turbo Pumping System



## Features >>

### ◆ Performance:

Be able to reach high ultimate pressures faster and pump high gas throughput.

### ◆ Clean:

Ensure oil-free vacuum environments through the diaphragm pump. Oil pollution can be effectively prevented in the oil-sealed pump system.

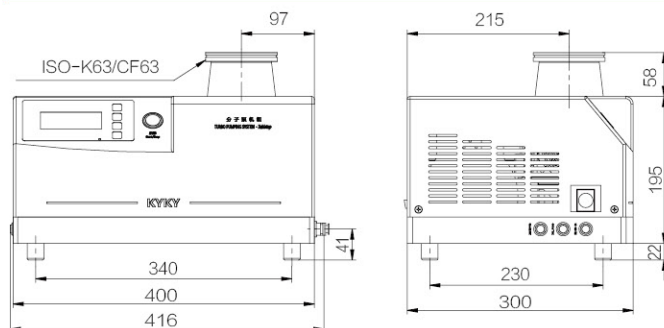
### ◆ Easy-to-use:

One-key smart start with time delays which can be adjusted by customers. Be easy to move and get plenty of quick connectors.

### ◆ Applications:

Apply to laboratory science, mass spectrometry, surface analysis, sputtering and evaporation systems, etc.

## Dimensions in mm >>



## Components >>

| Mode             | FJ-80  |                 |
|------------------|--|-----------------|
| Name             | FJ-80  |                 |
| TMP              | FF-63/80   |                 |
| Fore-vacuum pump | Diaphragm pump                                       | Oil-sealed pump |
|                  | DIVAC 0.8T   | GHD-031B        |
| Crossover flange | DN63 to CF35/KF40/KF16<br>(Customizations available) |                 |

## Technical Data >>

|                                  | N <sub>2</sub>  | He  |         |
|----------------------------------|---|---|---------|
| TMP pumping speed                | 62 L/s  | 55 L/s  |         |
| Gas throughput, max.*            | 100Sccm   | 80Sccm  |         |
| Inlet pressure, max.*            | 10 Pa   | 10 Pa   |         |
| Ultimate pressure                | ISO-K   | CF  |         |
|                                  | <3.5×10 <sup>-6</sup> Pa<br>(2.6×10 <sup>-8</sup> Torr) | <5×10 <sup>-7</sup> Pa<br>(3.7×10 <sup>-9</sup> Torr) |         |
| Flange (in)                      | DN63 ISO-K/DN63 CF                                      |   |         |
| Flange (by-pass)                 | Φ10 Quick connection                                    |   |         |
| Flange (out)                     | Φ8 Quick connection                                     |   |         |
| Flange (vent)                    | Φ8 Quick connection                                     |   |         |
| Rotational speed                 | 72000 min <sup>-1</sup> (±0.5%)                         |   |         |
| TMP run-up time                  | ≤ 1.8min  |   |         |
| TMP run-up delay †               | 1~30min   |   |         |
| Fore-vacuum pump                 | Diaphragm pump  | Oil-sealed pump                                       |         |
|                                  | Pumping speed   | 0.2 L/s   | 0.5 L/s |
|                                  | Ultimate pressure                                       | 300 Pa  | 0.67 Pa |
| Cooling method                   | Air   |   |         |
| Bake-out temperature             | ≤ 100°C   |   |         |
| Noise level                      | < 55 dB(A)  |   |         |
| Permissible magnetic field, max. | < 3 mT  |   |         |
| Ambient temperature              | 5~40 °C   |   |         |
| Main supply                      | 220VAC ( ±10% )   |   |         |
| Power consumption (Non-loaded)   | Diaphragm pump  | Oil-sealed pump                                       |         |
|                                  | 255W  | 280W  |         |
| Weight                           | Diaphragm pump  | Oil-sealed pump                                       |         |
|                                  | 16 kg   | 21 kg   |         |

\* Test conditions: Finished in KYKY laboratory for 10 hours, air cooling, ambient temperature 20°C;

† This run-up delay set by customers, is in control of the time intervals between fore-vacuum pump and TMP.

For more technical specifications and product introductions, please refer to the related manuals!