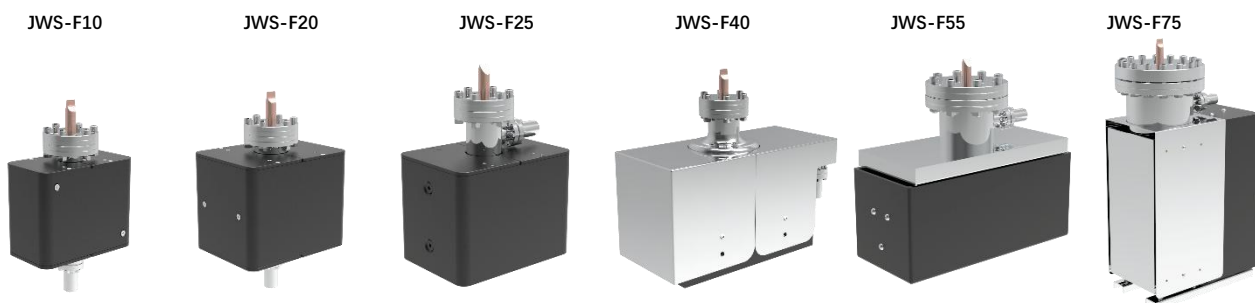


Ion Pump

Juwei Silverlake offers JWS-F and JWS-S series ion pumps with various pumping speeds. It also provides smart combinations of ion pumps with titanium sublimation pumps (Ion CombiTSP) or non-evaporable getter pumps (Ion CombiNEG) for a clean, vibration-free vacuum environment. These solutions ensure high reliability and stability in UHV and XHV applications, such as laboratories, research facilities, medical equipment, electron microscopes, and surface analysis instruments. Custom vacuum solutions are also available.

JWS-F Series Ion Pump

Suitable for ultrahigh vacuum (UHV) applications in scientific research and industrial fields, featuring high pumping efficiency and excellent stability.



JWS-F系列离子泵参数						
Model	JWS-F10	JWS-F20	JWS-F25	JWS-F40	JWS-F55	JWS-F75
Nominal Pumping Speed for Nitrogen(L/s)	10	20	25	40	55	75
Ultimate Pressure(mBar)	≤1E-10	≤1E-10	≤2E-11	≤2E-11	≤2E-11	≤2E-11
Maximum Starting Pressure(mBar)	≤1E-5	≤1E-5	≤1E-5	≤1E-5	≤1E-5	≤1E-5
Inlet Flange	CF35	CF35	CF35	CF35	CF63	CF100
Operating Life(h)	≥50000	≥50000	≥50000	≥50000	≥50000	≥50000
Leak rate(Pa m ³ /s)	≤1E-12	≤1E-12	≤1E-12	≤1E-12	≤1E-12	≤1E-12
Stray Magnetic Field (distance above the pump inlet)	≤1.6Gs (41mm)	≤2.5Gs (41mm)	≤0.3Gs (100mm)	≤9Gs (100mm)	≤5Gs (100mm)	≤1Gs (100mm)
Maximum Baking Temperature(°C)	≤200	≤200	≤200	≤200	≤200	≤200
Size(mm) (L*W*H)	146.8*81.4*197.6	160.4*121.2*209.2	168.4*121.2*181.5	304.2*140.9*217.8	299.5*129.5*221.6	249.8*139.1*390.0
Weight(kg)	6.3	9.5	9.5	17.2	23.4	26.0
Operating voltage(V)	3kV ~ 7kV	3kV ~ 7kV	3kV ~ 7kV	3kV ~ 7kV	3kV ~ 7kV	3kV ~ 7kV

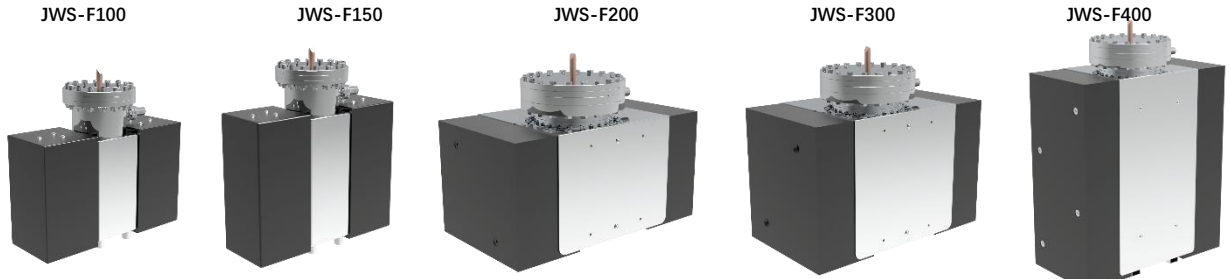
Testing Standard: GBT 25755-2010

Product Features

- Wide pressure range, suitable for UHV.
- Oil and particle-free, ensuring a clean vacuum.
- Vibration and noise-free operation.
- Automatic power shutdown during vacuum loss.
- Self-sealing design maintains vacuum during power failure.
- Low leakage current for stable pressure readings.
- Low magnetic field to reduce interference.
- Flexible installation.
- Simple, durable design, with high reliability and low maintenance.



JWS-F系列离子泵

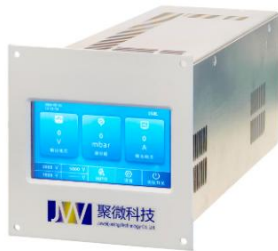


JWS-F系列离子泵参数

Model	JWS-F100	JWS-F150	JWS-F200	JWS-F300	JWS-F400
Nominal Pumping Speed for Nitrogen(L/s)	100	150	200	300	400
Ultimate Pressure(mBar)	≤2E-11	≤2E-11	≤2E-11	≤2E-11	≤2E-11
Maximum Starting Pressure(mBar)	≤1E-5	≤1E-5	≤1E-5	≤1E-5	≤1E-5
Inlet Flange	CF100	CF100	CF150	CF150	CF150
Operating Life(h)	≥50000	≥50000	≥50000	≥50000	≥50000
Leak rate(Pa m ³ /s)	≤1E-12	≤1E-12	≤1E-12	≤1E-12	≤1E-12
Stray Magnetic Field (distance above the pump inlet)	≤0.7Gs (100mm)	≤0.9Gs (100mm)	≤1Gs (100mm)	≤1.4Gs (100mm)	≤1Gs (100mm)
Maximum Baking Temperature(°C)	≤200	≤200	≤200	≤200	≤200
Size(mm) (L*W*H)	369.1*151.6*318.4	369.1*151.6*380	450.0*261.5*283.07	450.0*261.5*344.67	450.0*230.6*553.2
Weight(kg)	36.3	45.0	58.5	71.4	110.0
Operating voltage(V)	3kV ~ 7kV	3kV ~ 7kV	3kV ~ 7kV	3kV ~ 7kV	3kV ~ 7kV

JWKS-ION Controller

- 4.2-inch high-definition touchscreen
- Current detection accuracy of 4nA
- High-voltage interlock mechanism
- Overcurrent protection function
- RS232\485 computer interface



Parameters	数值
Input Voltage	220VAC (±10%)
Input frequency	50/60 Hz
Input power	120W
Output high voltage	7000VDC
Output high voltage power max	60W
Output high voltage Short circuit current	20mA
Operating temperature	0°C~45°C
Storage temperature	-40°C~70°C
Current display range (mA)	0~20
Current resolution(nA)	4
Voltage resolution(V)	1
Control method	Touchscreen control
Communications	RS232\485 standard
Size(mm) (L*W*H)	265*128.4*133.4

Certification standards:

EN 61326-1:2013、ENIEC61000-3-2:2019、EN61000-3-3:2013+A1:2019
IEC 61010-1:2010+AMD1:2016: Safety requirements for electrical equipment for measurement, control, and laboratory use-Part1:General requirements
EN61010-1:2010+AMD1:2019: Safety requirements for electrical equipment for measurement, control, and laboratory use -Part 1: General requirements

Juwei Silverlake (Suzhou) Equipment Technology Co., Ltd.
Address: Room 305, Building 5, No. 2266 Taiyang Road, High-speed Railway New City, Xiangcheng District, Suzhou, Jiangsu Province, China.
Email: david.zou@ais-tech.cn
Phone: 13801643643



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