



COOLGLOW

GLOW DISCHARGE

The Coolglow is a compact and user-friendly glow discharge system that uses a high-performance mechanical pump to quickly achieve a vacuum pressure of less than 10 Pa. The RF power source ionizes the air, transforming the grid surface from hydrophobic to hydrophilic. This ensures that polar suspension samples disperse more uniformly on the carbon film. The RF power source is highly efficient, produces a gentler plasma ($< 15\text{eV}$), and offers excellent repeatability, resulting in highly reliable and reproducible outcomes.

Touchscreen automatic control, plug and play.



**Gentle Plasma
Hydrophilization**

RF-ICP Technology

**Good Uniformity
Good Repeatability**

SuPro Instruments LTD

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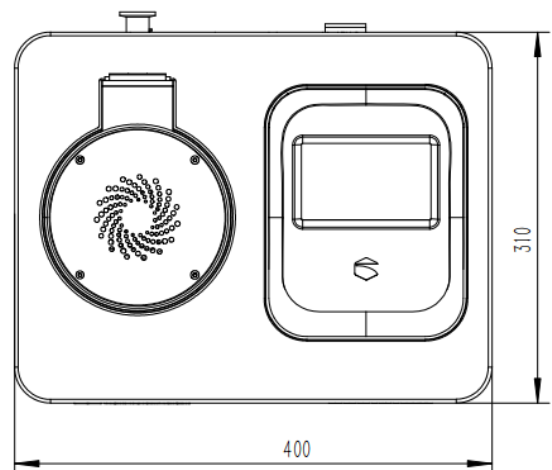
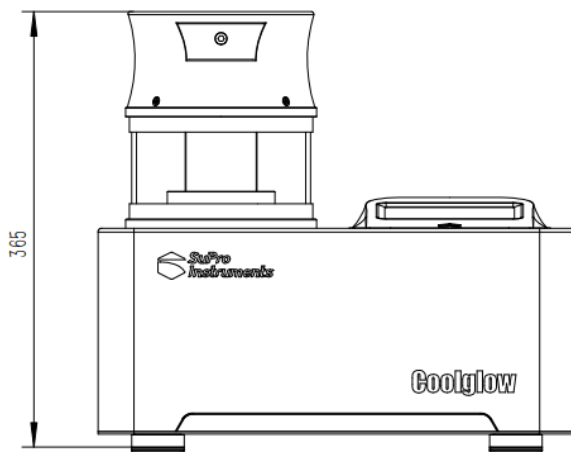
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Technical Specifications	Parameters
Vacuum Pump	Rotary Vane Pump
Pumping Speed	$\geq 2\text{m}^3/\text{h}$
Ultimate Vacuum	$< 10\text{ Pa}$
Working Pressure	10-100Pa
Pumping Down Time	$< 1\text{Min}$
Vacuum Gauge	Pirani Gauge
Chamber	$\text{Ø}150*90\text{mm}$ Scratch-resistant Quartz Glass
RF Power Supply	Adjustable from 10 to 50 W, 13.56 MHz
Operating Method	Touchscreen Control with the Control System Providing Interlock Protection Functions
Weight	$\sim 20\text{ kg}$
Dimension	400mm*310mm*368mm
Power Supply	100-220V AC, 50/60Hz grounded three-prong plug
Power Consumption	$< 300\text{ W}$
Warranty	One Year
Remarks	The above-listed technical specifications and parameters are subject to updates without further notice. Contact us if you have any questions.



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