

NE-Q15H

15L (13.56Mhz) QUARTZ LOW-PRESSURE PLASMA TREATMENT SYSTEM

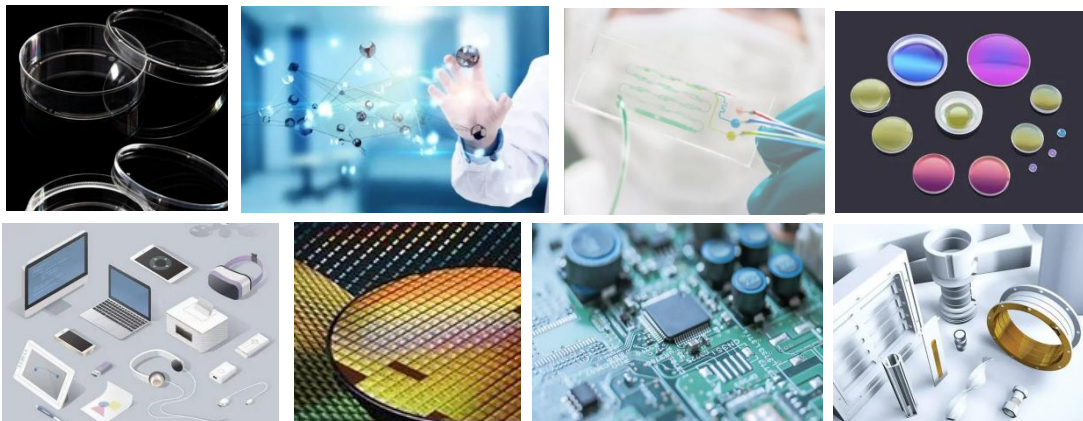


NE-Q15H PROFILE

NE-Q15H is a small quartz vacuum plasma treatment system which is dedicated to cleaning and surface activation of a wide range of materials including polymers, metals, glass and ceramics, delivering optimum adhesion properties of otherwise difficult to bond materials.

It is widely used in scientific research institutions, enterprise R&D units and small batch production proofing, including:

- ❖ Plasma cleaning organics
- ❖ Plasma surface activation to improve adhesion
- ❖ PDMS & microfluidic devices
- ❖ PEEK & other engineering polymers
- ❖ PTFE
- ❖ Metals
- ❖ Ceramics
- ❖ Glass & optical devices



NE-Q15H FEATURES

✧ Compact benchtop unit

Weight: 60KG

Size: 668mm(L)×670mm(W) ×647mm(H)

✧ Easy to install

Only need to connect the equipment with the vacuum pump, and then connect the power supply to use.

✧ Adjustable power settings

The max RF power is 300W which can be adjusted continuously.

✧ Quartz glass chamber

Quartz glass chamber, easy to clean, contamination-free sample processing

Size : Φ250 (W) ×315 (D) mm



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✧ **Self-developed power supply**

Digital high-frequency plasma generator produces high-density contour particles to ensure outstanding cleaning effect.

✧ **MFC high precision control of gas flow**

Two gas channels are standard, supports various process gases, such as oxygen, argon, hydrogen, nitrogen, etc.

✧ **Pro-environment**

Dry processing, low gas emission, no hazardous emissions, no pollution to the air.

✧ **7" Touch screen**

The whole process can be directly set and processed through the touch screen, which is intuitive and the process can be monitored in real time.

✧ **Vacuum pump**

Equipped with a high-speed vacuum pump, the ideal vacuum value can be reached within 30 seconds, saving the entire processing time.

✧ **Fast treatment time**

A cycle only takes two to five minutes, and processing times can be set according to demand, with a maximum processing time of 9,999 seconds.

NE-Q15H SPECIFICATIONS

	STANDARD MODEL	OPTIONAL
Overall dimensions		
Size	668mm(L)×670mm(W) ×647mm(H)	
Weight	90KG(Including vacuum pump)	
Plasma generator		
Brand	NAEN	Specified by customer
Power	0-300W(Adjustable)	Specified by customer
Frequency	13.56Mhz, Solid-state RF power supply	
Vacuum chamber		
Cavity material	Quartz	
Discharge Mode	ICP	
Cavity volume	15L	
Tray	1 quartz tray	
Cavity size	Φ 250 (W) × 315 (D) mm	
Gas Control		
Gas flow controller	MFC	
flow value	0-300sccm	Specified by customer
Gas channel	2 channels(supports various process gases, such as oxygen, argon, hydrogen, nitrogen, etc.)	
Vacuum measurement		
Vacuometer	Pirani high precision resistance vacuum gauge	



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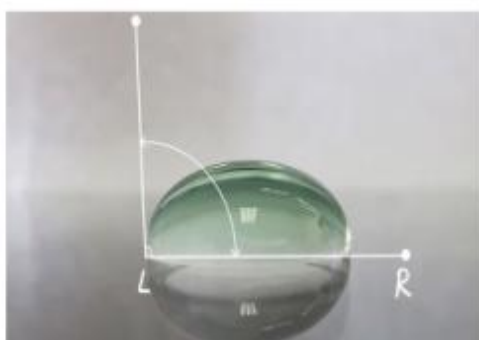
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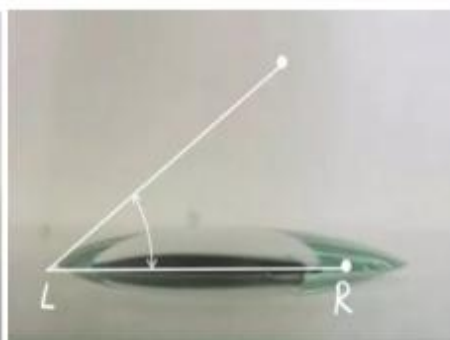
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Pumping system		
Pumping speed	16 m ³ /H;oil pump	Dry pump
Limiting vacuum	1PA	
Vacuum line	Stainless steel pipeline + pneumatic valve	
Control system		
Touch screen	7"	
PLC	Panasonic	
Software	Independent patent design plasma control system, precise & repeatable,multi - language options	
Condition		
Power Supply	220V	Specified by customer
Type of air pipe	Φ 6mm	
Gas purity	99.999%	
Gas pressure	0.3-0.6Mpa	
Exhaust port	KF25	

TYPICAL PROCESS RESULTS

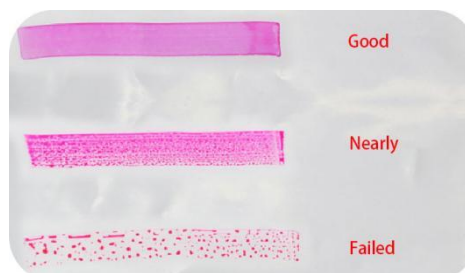
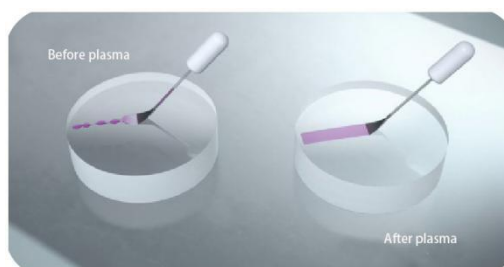


Contact Angle Before Treatment



Contact Angle After Treatment

Comparison of Dyne values



ABOUT NAEN TECH

Naen Tech are an international leader in the design, development and manufacture of plasma surface treatment systems & advanced plasma processes.

Our products are installed worldwide and trusted to deliver consistent, reliable results in both leading research institutes and in critical manufacturing steps.

We are experts in plasma technology and surface science. We are trusted partners, valued for our courtesy, professionalism and dedication to delivering the correct solution for our clients.

OUR SERVICES

❖ Contract plasma treatment

We have more than 10,000 customer cases around the world, and we are equipped with technicians who can meet the plasma needs of various industries, and will provide a quick, no-nonsense feasibility solution for the surface treatment needs of different segments!

❖ Surface testing laboratory

With a comprehensive suite of surface analysis equipment, we are able to conduct a wide range of surface property tests, both before and after plasma treatment, in order to provide you a professional report with the whole pictures and videos.

❖ After sales support

The equipment is guaranteed for one year free of charge and provides lifetime technical services. If the equipment fails (non-human damage), we will arrange after-sales personnel to follow up within 24 hours until the fault is eliminated.

❖ Rental plasma systems

We carry a wide range of our standard equipment in stock and available for short or long term hire. This is particularly useful for in-house proof of concept trials or to satisfy short term contract work.

❖ Method development

We have invested significantly in laboratory facilities to assess, test and investigate all aspects of plasma surface modification on a wide range of materials. Coupled with extensive in-house and real-world knowledge, we can usually deliver a tailored treatment quickly and efficiently to suit your individual product or production needs.



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