

Slide Pecvd Tube Furnace With Liquid Gasifier Pecvd Machine

Item Number: KT-PE12



Introduction

KT-PE12 Slide PECVD System: Wide power range, programmable temp control, fast heating/cooling with sliding system, MFC mass flow control & vacuum pump.

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|------------------------------|--|
| Furnace model | KT-PE12-60 |
| Max. temperature | 1200°C |
| Constant work temperature | 1100°C |
| Furnace tube material | High purity quartz |
| Furnace tube diameter | 60mm |
| Heating zone length | 1x450mm |
| Chamber material | Japan alumina fiber |
| Heating element | Cr2Al2Mo2 wire coil |
| Heating rate | 0-20°C/min |
| Thermal couple | Build in K type |
| Temperature controller | Digital PID controller/Touch screen PID controller |
| Temperature control accuracy | ±1°C |
| Sliding distance | 600mm |
| RF Plasma unit | |
| Output Power | 5 -500W adjustable with ± 1% stability |
| RF frequency | 13.56 MHz ±0.005% stability |
| Reflection Power | 350W max. |
| Matching | Automatic |
| Noise | <50 dB |
| Cooling | Air cooling. |
| Gas precise control unit | |
| Flow meter | MFC mass flow meter |
| Gas channels | 4 channels |
| Flow rate | MFC1: 0-5SCCM O2 MFC2: 0-20SCMCH4 MFC3: 0- 100SCCM H2 MFC4: 0-500 SCCM N2 |
| Linearity | ±0.5% F.S. |

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|--------------------------------|---|
| Repeatability | ±0.2% F.S. |
| Pipe line and valve | Stainless steel |
| Maximum Operating Pressure | 0.45MPa |
| Flow meter controller | Digital Knob controller/Touch screen controller |
| Standard vacuum unit(Optional) | |
| Vacuum pump | Rotary vane vacuum pump |
| Pump flow rate | 4L/S |
| Vacuum suction port | KF25 |
| Vacuum gauge | Pirani/Resistance silicon vacuum gauge |
| Rated vacuum pressure | 10Pa |
| High vacuum unit(Optional) | |
| Vacuum pump | Rotary vane pump+Molecular pump |
| Pump flow rate | 4L/S+110L/S |
| Vacuum suction port | KF25 |
| Vacuum gauge | Compound vacuum gauge |
| Rated vacuum pressure | 6x10-5Pa |

Above specifications and setups can be customized

| No. | Description | Quantity |
|-----|-------------------------|----------|
| 1 | Furnace | 1 |
| 2 | Quartz tube | 1 |
| 3 | Vacuum flange | 2 |
| 4 | Tube thermal block | 2 |
| 5 | Tube thermal block hook | 1 |
| 6 | Heat resistant glove | 1 |
| 7 | RF plasma source | 1 |
| 8 | Precise gas control | 1 |
| 9 | Vacuum unit | 1 |
| 10 | Operation manual | 1 |