

# Plasma apparatus - (Atmospheric pressure plasma cleaner)

## APPC-400Y

### System Outline

This Equipment is Atmosphere Plasma for cleaning sample surface.

Easy to make In-Line system with other Equipment. Unify and Separation Type available, Also, Two kinds of Electronics (Insertion and Spout) type available.



### Feature

1. Does not need Vacuum system such as Vacuum pump and Vacuum chamber.
2. Reaction gas use He, Ar and O<sub>2</sub> mixing gas for cleaning sample surface.

### Sample

Sample size : Any size okay(W) x 45(D) x Max. 15(T)mm

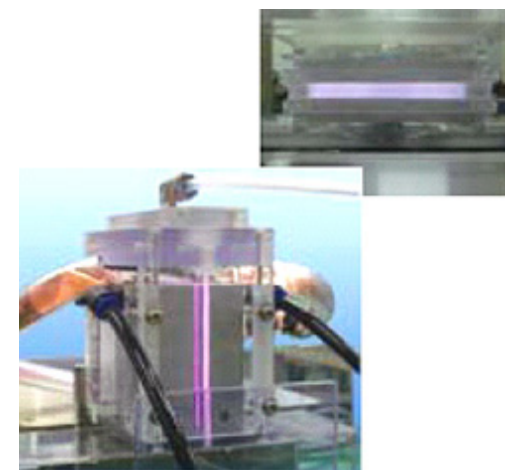
### Equipment Function

Loading Sample

1. Using conveyor or Arm chuck for loading sample
  2. Sample are continuance loading to electrode.
  3. Un-load sample.
  4. Go to next process
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1. Automatic and Manual operation selectable.
  2. Touch panel operation
  3. Two Electrode can build in for heavy dirt cleaning of sample surface.
  4. Easy to install and easy to make In-Line system.
  5. Electrode and Main unit can be separately. Also, One controller can control Two Electrode.

### External Dimension

1. Unify type : W800 x L700 x H1200mm
2. separately type : W800 x L700 x H950mm



### System structure

1. Electrode unit
2. RF generator unit (In the control unit)
3. Gas flow unit (In the control unit)
4. Touch panel (On control unit)
5. Cooling unit (Option)
6. Loading and Un-loading unit (Option)

## Electrode unit

Two parallel flat plate.

Gas input hole for fill up mixing gas (He and Ar).

Also, water cooling port. (IN and OUT)

Electrode spec.

1. Electrode : Aluminum Up to W300 x L50 x H20mm  
Water Cooling type.
2. Around electrode material : Quartz glass

## Control unit

Touch panel and programmable controller (PLC)

1. Set process recipe
  - Gas flow
  - RF power
  - Loading speed (Conveyor speed etc.)
2. Process monitor
  - Gas flow, RF power
  - Error

## Gas flow unit

Mass flow controller system

1. Ar : Max. 5L/min
2. He : Max. 5L/min
3. Oxygen : Max. 200mL/min

## Power supply

3 phase AC220V 25A

## Safety mechanism

1. This Equipment built in safety function system.
2. Built in safety cover for Electrode